



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

Appendix H

Excavated Soil Characterization and Disposal

Appendix H

ASC Analytical Report - Waste Characterization Soil Samples



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:

Conventionals, Metals, Organics and

RCRA TCLP Leachate Parameters

Date Sample Received:

December 20, 1994

Date Order Received:

December 20, 1994

Joblink(s): 617300

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Reviewed and

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

Date: <u>January 16, 1995</u>

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.
- The identity of all pesticide and herbicide compounds were confirmed by secondary column analysis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- o 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.
- o The PNA, Method 8100, Analysis was performed by GC/MS rather than GC/FID due to instrument problems. Matrix spike recoveries for this analysis were outside control limits due to matrix interferences. Batch was accepted based on method spike recoveries which were within QC limits.

APPENDIX A DATA SUMMARY REPORT

DATE: 01/11/95

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP2A EX63BEDP2B EX63BEDP2C EX63BEDP2D EX63BED2AG ASC Sample Number: JN6387 JN6388 JN6389 JN6390 JN6391 941219 Sample Date: 941219 941219 941219 941219 Facility Code: 016208C 016208C 016208C 016208C 016208C

Parameters

Aldrin

Units

Conventional Data (CV10)

Flash Point, Seta Flash	Deg C	>93	>93	>93	>93	-
Reactive Cyanide	mg/kg	<10.0	<10.0	<10.0	<10.0	1.5
Reactive Sulfide	mg/kg	<20.0	<20.0	<20.0	<20.0	
Solids, Total	8	91.0	89.8	90.8	91.8	90.0
pH (Electrode)	std	6.03	5.85	6.16	5.92	-

Sample Point ID: EX63BEDP2A

ASC Sample Number: JN6387 Sample Date: 941219

Facility Code: 016208C

mg/kg < .018

Parameters Units

Total Pesticide and PCB Analysis, GC, (GS05)

Alpha-BHC Beta-BHC	mg/kg mg/kg	< .018	
Chlordane 4,4'-DDD	mg/kg mg/kg	<.178 <.018	
4,4'-DDE 4,4'-DDT	mg/kg mg/kg	<.018	
Delta-BHC	ma/ka	<.018	
Dieldrin	mg/kg	<.018	
Endosulfan sulfate	mg/kg	<.018	
Endosulfan I	mg/kg	<.018	
Endosulfan II	mg/kg	<.018	
Endrin	mg/kg	<.018	
Endrin aldehyde	mg/kg	<.018	
Endrin ketone	mg/kg	<.018	
Gamma-BHC	mg/kg	<.018	
Heptachlor	mg/kg	<.018	
Heptachlor epoxide	mg/kg	<.018	
Methoxychlor	mg/kg	<.018	
Toxaphene	mg/kg	<.357	

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP2A
ASC Sample Number: JN6387
Sample Date: 941219
Facility Code: 016208C

Parameters

Units

sticide and	PCI	B Analysis	, GC,	(GS05)	
1016			mg/kc	<.178	
1221			mq/kc	<.178	
			mq/kc	<.178	
1242			mg/kc	7 < .178	
1248			mg/kg	J <.178	
1254			mg/kc	< .178	
1260			mg/kg	g <.178	
Pollutant	PNA	Analysis,	GC,	(GS16)	
thene			mg/kc	< .362	
thylene			mq/kc	< .362	
ene			mg/kc	< .362	
anthracene	2		ma/ko	< .362	
			mg/kg	<.362	
fluoranthe	ene		mg/kc	<.362	
ni)perylene	4		mg/kg	< .362	
pyrene			mg/kg	< .362	
2			mg/kc	< .362	
(a,h)anthra	cen	В			
thene			mg/kc	<.362	
2			mg/kc	.395	5
lene			mg/kc	< .362	
nrene					7
	1016 1221 1232 1242 1248 1254 1260 Pollutant thene chylene ene anthracene fluoranthe fluoranthe pyrene (a, h) anthra	1016 1221 1232 1242 1248 1254 1260 Pollutant PNA thene thylene ene anthracene fluoranthene fluoranthene i) perylene pyrene e(a, h) anthracene thene	1016 1221 1232 1242 1248 1254 1260 Pollutant PNA Analysis, thene thylene ene anthracene fluoranthene fluoranthene ni)perylene pyrene (a, h) anthracene thene	1016 mg/kg 1221 mg/kg 1232 mg/kg 1242 mg/kg 1248 mg/kg 1254 mg/kg 1260 mg/kg Pollutant PNA Analysis, GC, thene mg/kg anthracene mg/kg anthracene mg/kg fluoranthene mg/kg fluoranthene mg/kg fluoranthene mg/kg mg/kg thene mg/kg m	1221

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OHM REMEDIATION SERVICES CORPORATION

	ASC Sample Samp	Point ID: Number: ole Date: ity Code:	EX63BEDP2A JN6387 941219 016208C	JN6388 941219 016208C	EX63BEDP2C JN6389 941219 016208C	EX63BEDP2D JN6390 941219 016208C	
Parameters		Units					0
RCRA TCLP Leachate	Herbicide	Analysis,	GC, (GS52)				
2,4-D 2,4,5-TP (Silvex)		mg/L mg/L	<.250 <.250	<.250 <.250	<.250 <.250	<.250 <.250	
RCRA TCLP Leachate	Pesticide	Analysis,	GC, (GS54)				
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	è	mg/L mg/L mg/L mg/L	<.020 <.002 <.002 <.002 <.002	<.020 <.002 <.002 <.002 <.002	<.020 <.002 <.002 <.002 <.002	<.020 <.002 <.002 <.002 <.002	
Methoxychlor Toxaphene		mg/L mg/L	<.002 <.040	<.002 <.040	<.002 <.040	<.002 <.040	
Total Petroleum Hyd	lrocarbon 1	Analysis,	IR (IROO)				
Petroleum Hydrocar	bons (IR)	mg/kg	480	461	275	599	

Sample Point ID: EX63BEDP2A
ASC Sample Number: JN6387
Sample Date: 941219
Facility Code: 016208C

Units Parameters

RCRA Total Metals Analysis, (ME50)

Arsenic	mg/kg	15.6
Barium	mg/kg	11.6
Cadmium	mg/kg	<1.00
Chromium	mg/kg	8.98
Lead	mg/kg	7.38
Mercury	mg/kg	<.053
Selenium	mg/kg	<5.00
Silver	mg/kg	<1.00

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:				EX63BEDP2D	
ASC Sample Number: Sample Date:	JN6387 941219	JN6388 941219	JN6389 941219	JN6390 941219	
Facility Code:	016208C	016208C	016208C	016208C	

Parameters

Units

RCRA TCLP Leachate Me	als Analysis, (ME52)
-----------------------	----------------------

Arsenic	mg/L	<.100	<.100	<.100	<.100
Barium	mg/L	.453	.321	.349	.579
Cadmium	mg/L	< .005	<.005	<.005	<.005
Chromium	mg/L	<.020	<.020	<.020	<.020
Lead	mg/L	<.100	<.100	<.100	<.100
Mercury	mg/L	<.001	<.001	<.001	<.001
Selenium	mg/L	< .100	<.100	<.100	<.100
Silver	mg/L	<.020	<.020	<.020	<.020
Copper	mg/L	.234	.156	.126	.138
Zinc	mg/L	.213	<.200	<.200	<.200

RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)

	2,4-Dinitrotoluene	mg/L	<.100	<.100	<.100	< .100	
ı	Hexachlorobenzene	mg/L	<.100	< .100	< .100	<.100	
ı	Hexachloroethane	mg/L	< .100	<.100	<.100	< .100	
1	Hexachlorobutadiene	mq/L	<.100	< .100	<.100	<.100	
	2-Methylphenol	mg/L	<.100	<.100	<.100	<.100	
	4-Methylphenol	mg/L	.120	<.100	<.100	<.100	
1	Nitrobenzene	mq/L	<.100	<.100	<.100	<.100	
1	Pentachlorophenol	mg/L	<.100	<.100	<.100	<.100	
	Pyridine	mg/L	.261	<.100	<.100	<.100	
1	2,4,5-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100	
	2,4,6-Trichlorophenol	mq/L	<.100	<.100	<.100	<.100	
	2,4,6-Trichlorophenol	mg/L	<.100	<.100	<.100		<.100

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP2A EX63BED2AG
ASC Sample Number: JN6387 JN6391
Sample Date: 941219 941219
Facility Code: 016208C 016208C

Units Parameters

Cotal Vola	atile Ar	alysis,	MS,	(MV00)
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Acetone	mg/kg	<.005	.017
Acrolein	mg/kg		<.028
Acrylonitrile	mg/kg		<.014
Benzene	mg/kg		<.006
Bromoform	mg/kg		<.006
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	mg/kg mg/kg mg/kg mg/kg mg/kg		<.006 <.006 <.006 <.006 <.006
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	mg/kg mg/kg mg/kg mg/kg mg/kg		<.006 <.006 <.006 <.006 <.006
1,1-Dichloroethylene	mg/kg	<.005	<.006
1,2-Dichloropropane	mg/kg	<.005	<.006
cis-1,3-Dichloropropylene	mg/kg	<.005	<.006
trans-1,3-Dichloropropylene	mg/kg	<.005	<.006
Ethylbenzene	mg/kg	<.005	<.006
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	mg/kg	<.005	<.006
	mg/kg	<.005	<.006
Methyl-iso-butyl ketone	mg/kg	<.011	<.011
Styrene	mg/kg	<.005	<.006
1,1,2,2-Tetrachloroethane	mg/kg	<.005	<.006
Tetrachloroethylene	mg/kg	<.005	<.006
Toluene	mg/kg	<.005	<.006
1,1,1-Trichloroethane	mg/kg	<.005	<.006
1,1,2-Trichloroethane	mg/kg	<.005	<.006
Trichloroethylene	mg/kg	<.005	<.006
1,2-Trans-dichloroethylene	mg/kg	<.005	<.006
Vinyl chloride	mg/kg	<.005	<.006

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP2A EX63BED2AG

ASC Sample Number: JN6387 JN6391

Sample Date: 941219 941219 Facility Code: 016208C 016208C

Parameters Units

Total Volatile Analysis, MS, (MV00)

Xylenes mg/kg <.005 <.006

Sample Point ID: EX63BEDP2A EX63BEDP2B EX63BEDP2C EX63BEDP2D

ASC Sample Number: JN6387 JN6388 JN6389 JN6390 Sample Date: 941219 941219 941219 941219 Facility Code: 016208C 016208C 016208C 016208C

Parameters Units

RCRA TCLP Leachate (ZHE) Volatile Analysis, MS, (MV50)

Benzene	mg/L	< .125	<.125	<.125	<.125
Carbon tetrachloride	mg/L	< .125	< .125	< .125	<.125
Chlorobenzene	mg/L	< .125	<.125	<.125	<.125
Chloroform	mg/L	< .125	< .125	< .125	< .125
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125	<.125
1,2-Dichloroethane	mg/L	<.125	<.125	<.125	<.125
1,1-Dichloroethylene	mg/L	< .125	< .125	<.125	< .125
Methyl ethyl ketone	mq/L	< .125	<.125	<.125	<.125
Tetrachloroethylene	mg/L	<.125	< .125	< .125	<.125
Trichloroethylene	mg/L	<.125	<.125	<.125	<.125
Vinvl chloride	mg/L	<.125	<.125	<.125	< .125

APPENDIX B QUANTITATIVE RESULTS

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP2A

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 91.0 6.03 >93	10.0 20.0 .100	ND ND - -	Q2I4081 Q2I4080

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP2B

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 89.8 5.85 >93	10.0 20.0 .100	ND ND - -	Q2I4081 Q2I4080

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP2C

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 90.8 6.16 >93	10.0 20.0 .100	ND ND - - -	Q214081 Q214080
				•	

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP2D

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total OH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 91.8 5.92 >93	10.0 20.0 .100	ND ND	Q2I4081 Q2I4080

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BED2AG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
olids, Total	ş	90.0	.100	-	
	T.				

RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Arsenic Barium Cadmium Chromium Lead	15.6 11.6 ND 8.98 7.38	5.00 1.00 1.00 1.00 2.00	ND ND ND ND ND	Q2M5784 Q2M5784 Q2M5784 Q2M5784 Q2M5784 Q2M5784
Mercury Selenium Silver	ND ND	.053 5.00 1.00	ND ND ND	N2G5807 Q2M5784 Q2M5784

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.018 .018 .018 .178 .018	ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ДИ ДИ ДИ ДИ ДИ ДИ	.018 .018 .018 .018	ND ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.018 .018 .018 .018	ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Toxaphene	ND ND ND ND ND	.018 .018 .018 .018 .357	ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND ND	.178 .178 .178 .178 .178	ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Aroclor 1254 Aroclor 1260	ND ND	.178 .178	ND	Q2P41899 Q2P41899

PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP2A

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	.362 .362 .362 .362 .362	ND ND ND ND	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Benzo(k) fluoranthene Benzo(ghi)perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene	ND ND ND ND ND	.362 .362 .362 .362 .362	ND ND ND ND ND	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	ND .395 ND .877 ND	.362 .362 .362 .362 .362	ND ND ND ND ND	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	480	35.6	ND	Q2T41901A

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2B

Petroleum Hydrocarbons (IR) 461 36.9 ND Q2T41901A	Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
	Petroleum Hydrocarbons (IR)	461	36.9	ND	Q2T41901A

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2C

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	275	36.1	ND	Q2T41901A
		·		

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2D

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	599	35.8	ND	Q2T41901A

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acetone Acrolein Acrylonitrile Benzene Bromoform	.015 ND ND ND ND	.011 .027 .014 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	ND ND ND ND ND	.011 .005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	ND	.005	ND	Q2V4130

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED2AG

Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene 2-Hexanone Methyl bromide Methyl chloride lethylene chloride	488 8888 8888 8888° 4	.011 .028 .014 .006 .006 .006 .006 .006 .006 .006 .00	88888 88888 88888 88888 88888 88888 88888 88888 88888	Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene 2-Hexanone Methyl bromide Methyl chloride Methyl chloride Methylene chloride	88 8888 88888 8888	.006 .006 .006 .006 .006 .006 .006 .006	8888 88888 88888 8888 88888 88888	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene 2-Hexanone Methyl bromide Methyl chloride Jethylene chloride	88 8888 8888	.006 .006 .006 .006 .006 .006 .006 .006	ND ND ND ND ND ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene 2-Hexanone Methyl bromide Methyl chloride lethylene chloride	82 828 82 828	.006 .006 .006 .006	ND ND ND	Q2V4130 Q2V4130 Q2V4130
Methyl bromide Methyl chloride Methylene chloride	ND		1777	
Methyl ethyl ketone	ND ND	.006 .006 .006 .006	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	88 88 88 88 88 88 88 88 88 88 88 88 88	.011 .006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	.006 .006 .006 .006	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	ND	.006	ND	Q2V4130

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41918 Q7H41918
	tį.			

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41918 Q7H41918

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP2C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250	ND ND	Q7H41918 Q7H41918
=	-			

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41918 Q7H41918
				0
		·		

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Meptachlor Meptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
Methoxychlor Toxaphene	ND ND	.002 .040	ND	Q7P41902 Q7P41902

Company Name

Facility Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
Methoxychlor Toxaphene	ND ND	.002 .040	ND ND	Q7P41902 Q7P41902

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41902 Q7P41902

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41902 Q7P41902

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .453 ND ND ND	.100 .100 .005 .020 .100	ND .162 ND ND ND	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
Mercury Selenium Silver Copper Zinc	ND ND ND .234 .213	.001 .100 .020 .020 .200	ND ND .023 .022 ND	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
				*

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .321 ND ND ND	.100 .100 .005 .020 .100	ND .162 ND ND ND	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
Mercury Selenium Silver Copper Sinc	ND ND ND .156 ND	.001 .100 .020 .020 .200	ND ND .023 .022 ND	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .349 ND ND ND	.100 .100 .005 .020 .100	ND .162 ND ND ND	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
Mercury Selenium Silver Copper Zinc	ND ND ND .126 ND	.001 .100 .020 .020 .200	ND ND .023 .022 ND	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806
				/A

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP2D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .579 ND ND ND	.100 .100 .005 .020 .100	ND .162 ND ND ND	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
Mercury Selenium Silver Copper Zinc	ND ND ND .138 ND	.001 .100 .020 .020 .200	ND ND .023 .022 ND	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
				3

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-Dinitrotoluene exachlorobenzene exachloroethane exachlorobutadiene -Methylphenol	ND ND ND ND ND	.100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
-Methylphenol Vitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	.120 ND ND .261 ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41913
			-	

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41913

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41913

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
e,4-Dinitrotoluene Mexachlorobenzene Mexachloroethane Mexachlorobutadiene Methylphenol	ND ND ND ND ND	.100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
A-Methylphenol Jitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
,4,6-Trichlorophenol	ND	.100	ND	Q7C41913

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
enzene arbon tetrachloride nlorobenzene nloroform 4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
,2-Dichloroethane ,1-Dichloroethylene ethyl ethyl ketone etrachloroethylene richloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
inyl chloride	ND	.125	ND	Q7V4132

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	.125	ND	Q7V4132
				-5-

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	DI	,125	ND	Q7V4132
				,

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP2D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	.125	ND	Q7V4132
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APPENDIX C QUALITY ASSURANCE DATA

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.

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:

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

CONVENTIONAL DATA (CV10)

Compounds		Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Reactive Cyanide Reactive Sulfide	mg/kg mg/kg	ND ND	66 58		-		Q2I4081 Q2I4080
			,				

RCRA TOTAL METALS ANALYSIS, (ME50)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND ND ND ND ND	82 88 81 82 82	13.8 15.0 ND 8.28 17.2	82 88 107 92 41	3 3 1 2 5	Q2M5784 Q2M5784 Q2M5784 Q2M5784 Q2M5784
Mercury Selenium Silver	ND ND	93 82 78	.491 ND ND	227 80 65	7 1 7	N2G5807 Q2M5784 Q2M5784

Mercury: Because the analyte was present in the unspiked sample at a high level, the spiked sample does not provide valid spike recovery data.

QUALITY ASSURANCE DATA TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin	ND	82	ND	71	3	Q2P41899
Alpha-BHC	ND	84	ND	61	4	Q2P41899
Beta-BHC	ND	87	ND	76	1	Q2P41899
Chlordane	ND	92	ND	93	3	Q2P41899
4,4'-DDD	ND	89	ND	77	3	Q2P41899
4,4'-DDE	ND	90	ND	80	3	Q2P41899
4,4'-DDT	ND	96	ND	92	12	Q2P41899
Delta-BHC	ND	89	ND	63	2	Q2P41899
Dieldrin	ND	90	ND	83	5	Q2P41899
Endosulfan sulfate	ND	78	ND	71	51	Q2P41899
Endosulfan I	ND	82	ND	86	2	Q2P41899
Endosulfan II	ND	76	ND	74	39	Q2P41899
Endrin	ND	92	ND	84	6	Q2P41899
Endrin aldehyde	ND	70	ND	71	21	Q2P41899
Endrin ketone	ND	85	ND	81	25	Q2P41899
Gamma-BHC	ND	87	ND	71	5	Q2P41899
Heptachlor	ND	87	ND	90	4	Q2P41899
Heptachlor epoxide	ND	88	ND	91	4	Q2P41899
Methoxychlor	ND	88	ND	88	5	Q2P41899

PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	93 74 70 85 90	ND ND ND ND ND	116 95 128 124 118	11 10 4 13 7	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene	ND ND ND ND ND	116 37 66 98 47	ND ND ND ND ND	154 43 102 130 49	6 7 2 12 15	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	ND ND ND ND ND	100 93 79 100 102	ND ND ND ND	187 122 93 175 166	46 8 0 48 38	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
=	2					

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Compounds	Blank Results mg/kg	Blank Spike Recov	mg/kg		Relative Percent Diff	
Petroleum Hydrocarbons (IR)	ND	90	480	219	29	Q2T41901A

Because the analyte was present in the unspiked sample at a high level, the spiked sample does not provide valid spike recovery data.

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Number
Benzene Chlorobenzene 1,1-Dichloroethylene Toluene Trichloroethylene	ND ND ND ND ND	98 99 105 105 99	ND ND ND ND	100 85 103 89 96	1 10 4 4 1	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	75 104	ND ND	46 61	13 11	Q7H41918 Q7H41918

RCRA TCLP LEACHATE PESTICIDE ANALYSIS, GC, (GS54)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	78 82 72 67 55	ND ND ND ND ND	67 82 45 66 57	1 3 14 1	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
Methoxychlor	ND	92	ND	103	3	Q7P41902

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .162 ND ND ND	81 81 89 81 84	ND .375 ND ND ND	83 85 92 82 86	2 3 1 2 1	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
Mercury Selenium Silver Copper Zinc	ND ND .023 .022 ND	102 79 88 81 79	ND ND ND .031 ND	102 83 95 85 87	2 3 6 2 2 2	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806
0						

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND	88 110 35 43 75	ND ND ND ND ND	93 30 20 18 59	14 20 58 64 36	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND	72 73 88 52 79	ND ND ND ND ND	59 55 91 39 70	31 39 7 38 23	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
2,4,6-Trichlorophenol	ND	79	ND	63	33	Q7C41913

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

QUALITY ASSURANCE DATA RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	97 97 91 97 74	ND ND ND ND ND	99 100 90 94 80	9 13 5 4 6	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	99 90 90 95 98	ND ND ND ND ND	93 83 82 93 99	2 1 0 7 7	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	86	ND	79	5	Q7V4132

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
C BATCH: Q7C41913	Leachate	(Semi-Vola	atile orga	anics by M	MS)		
SAMPLE ID							
BLANK	69	71	77	76	70	61	0
BLANK SPIKE	71	75	79	79	74	96	Ö
EX63BEDP2A	67	62	74	77	71	46	Ö
EX63BEDP2A MD	64	68	75	72	73	86	0
					a ba tala		
EX63BEDP2A MS	57	62	83	61	60	98	0
EX63BEDP2B	62	62	73	70	70	76	0
EX63BEDP2C	64	65	78	74	73	78	0
EX63BEDP2D	59	60	78	69	68	70	0
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)	
SURROGATE ID	F044	# OUT					
						API, 1984	
QC BATCH: Q2F41898	Solid (Or	ganics by	GC-FID)				
SAMPLE ID							
BLANK	67	0					
BLANK SPIKE	72	0					
EX63BEDP2A	123	0					
EX63BEDP4B MD	94	Ö					
EX63BEDP4B MS	82	0					
		E .					
EXUST2651A MD	94	0					
EXUST2651A MS	82	0					
QC LIMITS	(39-130)						
50	1113300000	# OUT		N-1		Part VEN	
SURROGATE ID	F047	# OUT	e compound	is by GC)		2000 NEV	
SURROGATE ID QC BATCH: Q7H41918	F047	40.	e compound	A STATE OF			
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID	F047 Leachate	(Herbicide	e compound	A STATE OF		2000 NEV	
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID BLANK	F047 Leachate	(Herbicide	e compound	A STATE OF		2000 NSV	
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID	F047 Leachate	(Herbicide	e compound	A STATE OF		2° - 2° 'Y-Y-	
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID BLANK	F047 Leachate	(Herbicide	e compound	A STATE OF			
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID BLANK BLANK BLANK SPIKE EX63BEDP2A	F047 Leachate 99 122 103	(Herbicide	e compound	A STATE OF			
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID BLANK BLANK SPIKE EX63BEDP2A EX63BEDP2A MD	F047 Leachate 99 122 103 110	(Herbicide	e compound	A STATE OF			
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID BLANK BLANK SPIKE EX63BEDP2A EX63BEDP2A MD EX63BEDP2A MS	F047 Leachate 99 122 103 110 115	0 0 0 0 0 0	e compound	A STATE OF			
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID BLANK BLANK SPIKE EX63BEDP2A EX63BEDP2A MD EX63BEDP2A MS EX63BEDP2B	F047 Leachate 99 122 103 110 115 98	0 0 0 0 0 0 0	e compound	A STATE OF			
SURROGATE ID SAMPLE ID BLANK BLANK SPIKE EX63BEDP2A EX63BEDP2A MD EX63BEDP2A MS EX63BEDP2B EX63BEDP2B EX63BEDP2C	F047 Leachate 99 122 103 110 115 98 78	0 0 0 0 0 0 0 0	e compound	A STATE OF			
SURROGATE ID QC BATCH: Q7H41918 SAMPLE ID BLANK BLANK SPIKE EX63BEDP2A EX63BEDP2A MD EX63BEDP2A MS EX63BEDP2B	F047 Leachate 99 122 103 110 115 98	0 0 0 0 0 0 0	e compound	A STATE OF			

SURROGATE ID

A047 = 1,2-Dichloroethane-D4 A500 = Decachlorobiphenyl B185 = Toluene-D8 F044 = 2-Fluorobiphenyl (GC) B668 = Bromofluorobenzene A159 = 2-Fluorophenol F047 = 2,4-Dichlorophenylacetic-acid B732 = Phenol-D6A121 = 2,4,6-TribromophenolA884 = Nitrobenzene-D5 A158 = 2-Fluorobiphenyl B142 = Terphenyl-D14

B816 = 2,4,5,6-Tetrachloro-m-xylene

* 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).

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

SURROGATE ID	B816	A500	# OUT					
QC BATCH: Q2P4189	9 Solid (Pe	sticide c	ompounds	by GC)				
SAMPLE ID								
BLANK	83	73	0					
BLANK SPIKE	81	73	0					
EX63BEDP2A	40	56	0					
EXUST2651A MD	65	82	0					
EXUST2651A MS	68	84	0					
QC LIMITS	(30-130)	(30-130)						
SURROGATE ID	B816	A500	# OUT					21 7 11 1
QC BATCH: Q7P4190	2 Leachate	(Pesticid	e compoun	ds by Go	E)			
SAMPLE ID								
BLANK	96	96	0					
BLANK SPIKE	94	53	0					
EX63BEDP2A	92	104	0					
EX63BEDP2A MD	99	102	0					
EX63BEDP2A MS	100	108	0					
EX63BEDP2B	98	109	0					
EX63BEDP2C	100	105	0					
EX63BEDP2D	97	104	0					
QC LIMITS	(30-130)	(30-130)						
SURROGATE ID	A047	B185	B668	# OUT			76 1/20	188
QC BATCH: Q2V4130	Solid (Vol	atile oro	anics by	MS)		00070-7-90	- 10 10 10 A	1980
		36762 1274	*********	core.				
SAMPLE ID		4.4.5	105					
BLANK	100	113	105	0				
BLANK SPIKE	96	104	94	0				
EX63BED2AG	102	101	93	0				
EX63BED2AG MD	102	103	83	0				
EX63BED2AG MS	108	95	83	0				
EX63BEDP2A	99	104	84	0				
QC LIMITS	(70-121)	(81-117)	(74-121)					
QC BATCH: Q7V4132	Leachate (Volatile	organics	by MS)				
SAMPLE ID	3.5.2	2 64	3.4	5				
BLANK	105	100	98	0				
BLANK SPIKE	109	102	98	0				
EX63BEDP2A	110	95	97	0				
EX63BEDP2A MD	102	98	96	0				
EX63BEDP2A MS	105	98	95	0				
EX63BEDP2B	106	97	94	0				
EX63BEDP2C	102	94	94	0				
EX63BEDP2D	104	98	98	0				
		SU	RROGATE I	LD				
A047 = 1,2-Dichlo			A500 =	Decachl	orobipheny	1		
B185 = Toluene-D8 B668 = Bromofluor			F044 =	2-Fluor	robiphenyl chloropheny	(GC)	ani d	
Doos = Bromorrdor	Openzene		r04/ =	2,4-D10	ntorobueny	Tacelic-	aciu	

A159 = 2-Fluorophenol B732 = Phenol-D6 A121 = 2,4,6-Tribromophenol A884 = Nitrobenzene-D5 A158 = 2-Fluorobiphenyl B142 = Terphenyl-D14 B816 = 2,4,5,6-Tetrachloro-m-xylene

* 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-neutra 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 107757

																		P	10. 1.0	1101	_
O.H. N	MATERIALS	CORP			P.C	D. BOX 551	• FINDLA	AY, OH 45839-0551		419	-423	3-352	6								
PROJ NO 1,62 CLIENT'S R T.M	PROJE	E	RCT RC			PROJECT MAN	PROJECT TELEP (508) 7	HONE NO.	NUMBER	(IND	ALYSI ICATE ARATE TAINE		SIREC	0		6			//		
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIE (INCLUDE MATRI POINT OF SAMI	PTION X AND PLE)	, P	1	4	9			1/5	H			REMARKS		
+ Ex6	3BEDPZA	12.19	1401	1		Moist yell	oursh sam	2 of colle	IXIL	1	J	/	1	$\sqrt{}$	T						
2 EX 6	BBF DP2B		1419	0			Lovable		IXIL	1	1	1									
3 EX 6	3B/EDP2C		1438	1		Clar 1	ets of c	a mat grey	IXIL	V	1	V,									
4 EXG	3BEDPZD		1452	J			ey, and ye	PH Smell	IXIL	V	1	1	F								
5 EX 63	BEDZAG	V	1356		V	Grenches	Vello	wish sand,	2×404				F		V	/					
6																					
7			7																		
8																					
9																					
10																ī					
THANSFER	ITEM NUMBER			RELIN		SHED BY	AC	AANSFERS CEPTED BY		TIME		MARK	S	P.	res	240	el	4°C		ركمامي	
2	1-5	FA	Z	298	11:	31ean 45936 (Fed G	Ange 19345930	A man and a man	9:41	1		ų į	TI	TF	P	-5	Dey	cot	collect	hons
3							0							14 [C	e mi	7-3 (N.)	0' -	TEMP.	2°C t	(D.
4											SAM	PLER'S	SIGN	ATURE	N	13	1ea	<u> </u>			

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:

Conventionals, Metals, Organics and

RCRA TCLP Leachate Parameters

Date Sample Received: December 20, 1994

Date Order Received:

December 20, 1994

Joblink(s): 617301

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:

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

PROJECT NARRATIVE

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

- All solid sample results are reported on a "dry weight" basis.
- The identity of all pesticide and herbicide compounds were confirmed by secondary column analysis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- o 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.
- o The PNA, Method 8100, Analysis was performed by GC/MS rather than GC/FID due to instrument problems. Matrix spike recoveries for this analysis were outside control limits due to matrix interferences. Batch was accepted based on method spike recoveries which were within QC limits.

APPENDIX A DATA SUMMARY REPORT

DATA SUMMARY REPORT

DATE. 01/11/95

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP4A EX63BEDP4B EX63BED4AG

ASC Sample Number: JN6392 JN6393 JN6394

Sample Date: 941219 941219 941219 Facility Code: 016208C 016208C 016208C

Parameters Units

Conventional Data (CV10)

Flash Point, Seta Flash	Deg C	>93	>93	-
Reactive Cyanide	mg/kg	<10.0	<10.0	-
Reactive Sulfide	mg/kg	<20.0	<20.0	
Solids, Total	8	91.7	91.8	57.9
pH (Electrode)	std	5.74	6.36	-

Sample Point ID: EX63BEDP4A

ASC Sample Number: JN6392

Sample Date: 941219 Facility Code: 016208C

Parameters Units

Total Pesticide and PCB Analysis, GC, (GS05)

Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	mg/kg mg/kg mg/kg mg/kg mg/kg	<.018 <.184
4,4'-DDE	mg/kg	.037
4,4'-DDT	mg/kg	.078
Delta-BHC	mg/kg	<.018
Dieldrin	mg/kg	<.018
Endosulfan sulfate	mg/kg	<.018
Endosulfan I	mg/kg	<.018
Endosulfan II	mg/kg	<.018
Endrin	mg/kg	<.018
Endrin aldehyde	mg/kg	<.018
Endrin ketone	mg/kg	<.018
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Toxaphene	mg/kg mg/kg mg/kg mg/kg mg/kg	<.018

DATA SUMMARY REPORT

DATL. 01/11/95

PAGE: 2

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP4A
ASC Sample Number: JN6392
Sample Date: 941219
Facility Code: 016208C

Parameters

Units

Total	Pes	sticide	and	PCB	Analysis,	GC,	(GS05)	
Arocl	or	1016				g/kg		
Arocl	or	1221					<.184	
Arocl	or	1232			m	g/kg	< .184	
Arocl	or	1242					<.184	
Arocl	or	1248			m	g/kg	<.184	
Arocl	or	1254			m	g/kg	<.184	
Arocl	or	1260			m	g/kg	<.184	
Priori	ty	Polluta	ant 1	PNA I	Analysis,	GC,	(GS16)	
Acena	pht	hene			m	g/kg	<.357	
Acena	pht	hylene			m	g/kg	< .357	
Anthr					m	g/kg	< .357	
Benzo	(a)	anthra	cene				< .357	
Benzo	(b)	fluora	ithei	ne	m	g/kg	<.357	
Benzo	(k)	fluora	ither	ne	m	g/kg	<.357	
Benzo	(gl	ni) pery	lene		m	g/kg	<.357	
Benzo	(a)	pyrene					< .357	
Chrys							< .357	
Diben	zo	(a,h)ani	chrad	cene	m	g/kg	<.357	
Fluor	ant	hene			m	g/kg	<.357	
Fluor	ene	2				g/kg	< .357	
Napht.	hal	ene			m	g/kg	< .357	
Phena						g/kg	. 8	357
Pyren	е				m	g/kg	<.357	

DATA SUMMARY REPORT

DATL 01/11/95

PAGE: 3

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP4A EX63BEDP4B

ASC Sample Number: JN6392

JN6393

Sample Date: 941219 941219 Facility Code: 016208C 016208C

Parameters

Units

RCRA	TCLP	Leachate	Herbicide	Analysis,	GC,	(GS52)
------	------	----------	-----------	-----------	-----	--------

2,4-D	mg/L	< . 250	< .250
2,4,5-TP (Silvex)	mg/L	<.250	<.250

RCRA TCLP Leachate Pesticide Analysis, GC, (GS54)

Chlordane	mg/L	<.020	<.020
Endrin	mg/L	< .002	< .002
Heptachlor	mg/L	<.002	<.002
Heptachlor epoxide	mg/L	< .002	< .002
Lindane	mg/L	<.002	<.002
Methoxychlor	mg/L	<.002	<.002
Toxaphene	mg/L	<.040	< .040

Total Petroleum Hydrocarbon Analysis, IR (IROO)

Petroleum Hydrocarbons (IR) mg/kg 504 293

Sample Point ID: EX63BEDP4A

ASC Sample Number: JN6392

Sample Date: 941219 Facility Code: 016208C

Parameters Units

RCRA Total Metals Analysis, (ME50)

Arsenic	mg/kg	13.8
Barium	mg/kg	15.0
Cadmium	mg/kg	<1.00
Chromium	mg/kg	8.28
Lead	mg/kg	17.2
Mercury	mg/kg	<.047
Selenium	mg/kg	<5.00
Silver	mg/kg	<1.00

DATA SUMMARY REPORT

DATE: 01/11/95

PAGE: 4

Company: OHM REMEDIATION SERVICES CORPORATION

F +

Sample Point ID: EX63BEDP4A EX63BEDP4B ASC Sample Number: JN6392 JN6393

Sample Date: 941219 941219 Facility Code: 016208C 016208C

Parameters

Units

RCRA TCLP Leachate Metals Analysis, (ME52)

	Arsenic	mg/L	<.100	<.100
	Barium	mg/L	.443	.375
	Cadmium	mg/L	< .005	<.005
١	Chromium	mg/L	< .020	<.020
1	Lead	mg/L	<.100	<.100
	Mercury	mg/L	<.001	<.001
j	Selenium	mg/L	<.100	<.100
	Silver	mg/L	<.020	<.020
j	Copper	mg/L	.091	.031
	Zinc	mg/L	<.200	<.200

RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)

mq/L	<.100	<.100
mq/L	<.100	<.100
mq/L	<.100	<.100
mg/L	< .100	<.100
mg/L	<.100	<.100
mg/L	<.100	<.100
	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L <.100

PAGE: 5

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BED4AG
ASC Sample Number: JN6394
Sample Date: 941219
Facility Code: 016208C

Parameters

Units

Total Volatile Analysis, MS, (MV00)

Acetone	mg/kg	.025
Acrolein	mg/kg	<.043
Acrylonitrile	mg/kg	<.021
Benzene	mg/kg	<.009
Bromoform	mg/kg	<.009
Carbon disulfide	mg/kg	<.009
Carbon tetrachloride	mg/kg	<.009
Chlorobenzene	mg/kg	<.009
Chlorodibromomethane	mg/kg	<.009
Chloroethane	mg/kg	<.009
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	mg/kg mg/kg mg/kg mg/kg mg/kg	<.009 <.009 <.009 <.009 <.009
1,1-Dichloroethylene	mg/kg	<.009
1,2-Dichloropropane	mg/kg	<.009
cis-1,3-Dichloropropylene	mg/kg	<.009
trans-1,3-Dichloropropylene	mg/kg	<.009
Ethylbenzene	mg/kg	<.009
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	mg/kg mg/kg mg/kg mg/kg mg/kg	<.009 <.009 <.009 <.009 <.009
Methyl-iso-butyl ketone	mg/kg	<.017
Styrene	mg/kg	<.009
1,1,2,2-Tetrachloroethane	mg/kg	<.009
Tetrachloroethylene	mg/kg	<.009
Toluene	mg/kg	<.009
1,1,1-Trichloroethane	mg/kg	<.009
1,1,2-Trichloroethane	mg/kg	<.009
Trichloroethylene	mg/kg	<.009
1,2-Trans-dichloroethylene	mg/kg	<.009
Vinyl chloride	mg/kg	<.009

DATA SUMMARY REPORT

DATL 01/11/95

PAGE: 6

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BED4AG

ASC Sample Number: JN6394 Sample Date: 941219 Facility Code: 016208C

Parameters

Units

Total Volatile Analysis, MS, (MV00)

Xylenes

mg/kg

.023

Sample Point ID: EX63BEDP4A EX63BEDP4B
ASC Sample Number: JN6392 JN6393
Sample Date: 941219 941219
Facility Code: 016208C 016208C

Parameters

Units

RCRA TCLP	Leachate	(ZHE)	Volatile	Analysis,	MS,	(MV50)
-----------	----------	-------	----------	-----------	-----	--------

Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	mg/L mg/L mg/L mg/L mg/L	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	mg/L mg/L mg/L mg/L	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125
Vinyl chloride	mg/L	<.125	<.125

APPENDIX B QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4A

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
eactive Cyanide eactive Sulfide colids, Total H (Electrode) lash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 91.7 5.74 >93	10.0 20.0 .100	ND ND - - -	Q2I4081 Q2I4080

CONVENTIONAL DATA (CV10)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP4B

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
eactive Cyanide eactive Sulfide olids, Total H (Electrode) lash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 91.8 6.36 >93	10.0 20.0 .100	ND ND - -	Q2I4081 Q2I4080

CONVENTIONAL DATA (CV10)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BED4AG

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Solids, Total	96	57.9	.100	-	

RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Arsenic Barium Cadmium Chromium Lead	13.8 15.0 ND 8.28 17.2	5.00 1.00 1.00 1.00 2.00	ND ND ND ND ND	Q2M5784 Q2M5784 Q2M5784 Q2M5784 Q2M5784
Mercury Selenium Silver	ND ND ND	.047 5.00 1.00	ND ND ND	N2G5807 Q2M5784 Q2M5784
			>-	
- ;				
			*	

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.018 .018 .018 .184 .018	ND ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	.037 .078 ND ND ND	.018 .018 .018 .018	ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.018 .018 .018 .018	ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Foxaphene	ND ND ND ND ND	.018 .018 .018 .018 .368	ND ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Aroclor 1016 Aroclor 1221 oclor 1232 oclor 1242 Aroclor 1248	ND ND ND ND ND	.184 .184 .184 .184 .184	ND ND ND ND	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Aroclor 1254 Aroclor 1260	ND ND	.184 .184	ND ND	Q2P41899 Q2P41899

PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4A

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	.357 .357 .357 .357 .357	ND ND ND ND	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene Chrysene Dibenzo(a,h) anthracene	ND ND ND ND ND	.357 .357 .357 .357 .357	ND ND ND ND	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	ND ND ND .857 ND	.357 .357 .357 .357 .357	ND ND ND ND	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
	14			

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP4A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	504	35.5	ND	Q2T41901A

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4B

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	293	36.0	ND	Q2T41901A

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED4AG

ND
Carbon tetrachloride
ND 0.009 ND
1,2-Dichloropropane
Methyl bromide ND .009 ND Q2V4130 thyl chloride ND .009 ND Q2V4130 chylene chloride ND .009 ND Q2V4130 Methyl ethyl ketone ND .009 ND Q2V4130 Methyl-iso-butyl ketone ND .009 ND Q2V4130 Styrene ND .009 ND Q2V4130 1,1,2,2-Tetrachloroethane ND .009 ND Q2V4130 Tetrachloroethylene ND .009 ND Q2V4130 1,1,1-Trichloroethane ND .009 ND Q2V4130 1,1,2-Trichloroethane ND .009 ND Q2V4130 Trichloroethylene ND .009 ND Q2V4130 1,2-Trans-dichloroethylene ND .009 ND Q2V4130 Vinyl chloride ND .009 ND Q2V4130
Styrene
1,1,2-Trichloroethane ND .009 ND Q2V4130 Trichloroethylene ND .009 ND Q2V4130 1,2-Trans-dichloroethylene ND .009 ND Q2V4130 Vinyl chloride ND .009 ND Q2V4130
Xylenes .023 .009 ND Q2V4130

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP4A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250	ND ND	Q7H41918 Q7H41918
				14

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP4B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41918 Q7H41918
	-			

RCRA TCLP LEACHATE PESTICIDE ANALYSIS, GC, (GS54)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Indrin Meptachlor Meptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
ethoxychlor oxaphene	ND ND	.002 .040	ND ND	Q7P41902 Q7P41902

RCRA TCLP LEACHATE PESTICIDE ANALYSIS, GC, (GS54)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
hlordane ndrin eptachlor eptachlor epoxide indane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
ethoxychlor oxaphene	ND ND	.002 .040	ND ND	Q7P41902 Q7P41902

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP4A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .443 ND ND ND	.100 .100 .005 .020 .100	ND .162 ND ND ND	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
Mercury Selenium Silver Copper Zinc	ND ND ND .091 ND	.001 .100 .020 .020 .200	ND ND .023 .022 ND	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP4B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .375 ND ND ND	.100 .100 .005 .020 .100	ND .162 ND ND ND	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
Mercury Selenium Silver Copper Zinc	ND ND ND .031 ND	.001 .100 .020 .020 .200	ND ND .023 .022 ND	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND	.100 .100 .100 .100	ND ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
4-Methylphenol Witrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND	.100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41913

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100	ND ND ND ND	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41913
).

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP4A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	.125	ND	Q7V4132

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP4B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	.125	ND	Q7V4132

APPENDIX C QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method	
Conventionals			
Flash Point, Seta Flash	SW-846	1020	
pH, Electrode (soil)	CLP	1.7.1.1	
Reactive Cyanide	SW-846	7.3.3.2	
Reactive Sulfide	SW-846	7.3.4.2	
Solids, Total (solid)	CAWW	160.3	
Metals			
Total Metals	SW-846	6010	
Mercury by Cold Vapor	SW-846	7471	
Organics			
Total Petroleum Hydrocarbons (TPHC) by IR	CAWW	418.1	
Pesticides & PCBs by GC	SW-846	8080	
Volatile Compounds by GC/MS	SW-846	8240	
Priority Pollutant PNAs by GC/MS	SW-846	8270	
RCRA TCLP			
Leachate Preparation	SW-846	1311	
Herbicides by GC	SW-846	8150 (1)	
Pesticides by GC	SW-846	8080 `	
Metals	SW-846	6010	
Mercury by Cold Vapor	SW-846	7470	
Semi-volatile Compounds by GC/MS	SW-846	8270	
Volatile Compounds by GC/MS	SW-846	8240	

METHODOLOGY REFERENCES

Methods for Chemical Analysis of Water and Wastes, April 1979 and Updated #1 March 1983. USEPA Contract Laboratory Program, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1. USEPA Methods for the Determination of Organic Compounds in Drinking Water, EPA-600/4-88/039 December 1988.
December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1. USEPA Methods for the Determination of Organic Compounds in Drinking
USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA-600/4-82-057 July 1982.
National Institute for Occupational Safety and Health, 3rd edition, 1984.
Standard Methods for the Examination of Water and Wastewater, 17th edition, 1989.
Spot Tests In Organic Analysis, 7th edition, 1966.
Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, 3rd edition, September 1986 and Update #1 July 1992.
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.
Waste Extraction Test, Title 22, Section 66261.126 Appendix 2 of the

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:

o US Army Corps of Engineers	Chemical Analysis in Various Matrices
------------------------------	---------------------------------------

Approvals:

0	Chemical Waste Management	Waste Characterization Analysis
	Envirosafe	Waste Characterization Analysis
0	USDA	Permit for Importing Soils
0	Florida DEP	Quality Assurance Plan #930034G
	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

CONVENTIONAL DATA (CV10)

Compounds		Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Reactive Cyanide Reactive Sulfide	mg/kg mg/kg	ND ND	66 58	-		=	Q2I4081 Q2I4080
						,	

RCRA TOTAL METALS ANALYSIS, (ME50)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND ND ND ND ND	82 88 81 82 82	13.8 15.0 ND 8.28 17.2	82 88 107 92 41	3 3 1 2 5	Q2M5784 Q2M5784 Q2M5784 Q2M5784 Q2M5784 Q2M5784
Mercury Selenium Silver	ND ND ND	93 82 78	.491 ND ND	80 65	7 1 7	N2G5807 Q2M5784 Q2M5784

Mercury: Because the analyte was present in the unspiked sample at a high level, the spiked sample does not provide valid spike recovery data.

QUALITY ASSURANCE DATA TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	82 84 87 92 89	ND ND ND ND	71 61 76 93 77	3 4 1 3 3	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
1,4'-DDE 1,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND ND ND ND ND	90 96 89 90 78	ND ND ND ND ND	80 92 63 83 71	3 12 2 5 51	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	82 76 92 70 85	ND ND ND ND ND	86 74 84 71 81	2 39 6 21 25	Q2P41899 Q2P41899 Q2P41899 Q2P41899 Q2P41899
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor	ND ND ND ND	87 87 88 88	ND ND ND ND	71 90 91 88	5 4 4 5	Q2P41899 Q2P41899 Q2P41899 Q2P41899

QUALITY ASSURANCE DATA PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	93 74 70 85 90	8D 8D 8D 8D 8D	116 95 128 124 118	11 10 4 13 7	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene Chrysene Dibenzo(a,h) anthracene	ND ND ND ND ND	116 37 66 98 47	80 80 80 80 80 80	154 43 102 130 49	6 7 2 12 15	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	ND ND ND ND ND	100 93 79 100 102	ND ND ND ND ND	187 122 93 175 166	46 8 0 48 38	Q2F41898 Q2F41898 Q2F41898 Q2F41898 Q2F41898

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IROO)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg		Relative Percent Diff	
Petroleum Hydrocarbons (IR)	ND	90	480	219	29	Q2T41901A

Because the analyte was present in the unspiked sample at a high level, the spiked sample does not provide valid spike recovery data.

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Compounds		Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
enzene Thlorobenzene ,1-Dichloroethylene Toluene Trichloroethylene	,	ND ND ND ND	98 99 105 105 99	ND ND ND ND	100 85 103 89 96	1 10 4 4 1	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	75 104	ND ND	46 61	13	Q7H41918 Q7H41918

RCRA TCLP LEACHATE PESTICIDE ANALYSIS, GC, (GS54)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Chlordane Endrin Meptachlor Meptachlor epoxide Lindane	ND ND ND ND ND	78 82 72 67 55	ND ND ND ND ND	67 82 45 66 57	1 3 14 1	Q7P41902 Q7P41902 Q7P41902 Q7P41902 Q7P41902
Methoxychlor	ND	92	ND	103	3	Q7P41902

QUALITY ASSURANCE DATA

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
senic drium dmium dromium ad	ND .162 ND ND ND	81 81 89 81 84	ND .375 ND ND ND	83 85 92 82 86	2 3 1 2	Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806 Q7M5806
ercury elenium lver epper enc	ND ND .023 .022 ND	102 79 88 81 79	ND ND ND .031 ND	102 83 95 85 87	2 3 6 2 2	Q7G5822 Q7M5806 Q7M5806 Q7M5806 Q7M5806

QUALITY ASSURANCE DATA

RCRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	88 110 35 43 75	ND ND ND ND ND	93 30 20 18 59	14 20 58 64 36	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	72 73 88 52 79	ND ND ND ND ND	59 55 91 39 70	31 39 7 38 23	Q7C41913 Q7C41913 Q7C41913 Q7C41913 Q7C41913
2,4,6-Trichlorophenol	ND	79	ND	63	33	Q7C41913

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

QUALITY ASSURANCE DATA

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	97 97 91 97 74	ND ND ND ND ND	99 100 90 94 80	9 13 5 4 6	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	99 90 90 95 98	ND ND ND ND ND	93 83 82 93 99	2 1 0 7 7	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	86	ND	79	5	Q7V4132
						,

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT	
C BATCH: Q7C41913	Leachate	(Semi-Vola	atile org	anics by I	MS)			
SAMPLE ID								
BLANK	69	71	77	76	70	61	0	
BLANK SPIKE	71	75	79	79	74	96	0	
EX63BEDP2A MD	64	68	75	72	73	86	0	
EX63BEDP2A MS	57	62	83	61	60	98	0	
EX63BEDP4A	58	60	74	68	68	78	0	
EX63BEDP4B	69	69	77	78	75	81	0	
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)		
SURROGATE ID	F044	# OUT						
QC BATCH: Q2F41898	Solid (Or	ganics by	GC-FID)					
SAMPLE ID	1440	2						
BLANK	67	0						
BLANK SPIKE	72	0						
EX63BEDP4A	128	0						
EX63BEDP4B MD	94	0						
EX63BEDP4B MS	82	0						
EXUST2651A MD EXUST2651A MS	94 82	0						
QC LIMITS	(39-130)							
SURROGATE ID	F047	# OUT	44				1	
QC BATCH: Q7H41918	Leachate	(Herbicide	compoun	ds by GC)	2 20 10 2000	-1 3/3/15aa30. 44	- VI Z 10 10 10 14 44 F.	Internal Indian
CAMPIE TO			9	7				
SAMPLE ID	0.0	0						
BLANK	99	0						
BLANK SPIKE	122	0						
EX63BEDP2A MD	110	0						
EX63BEDP2A MS	115	0						
EX63BEDP4A EX63BEDP4B	84 71	0						
OC LIMITS	(30-130)							
		CIT	RROGATE I	D				
	. Executive very							
A047 = 1,2-Dichlor B185 = Toluene-D8 B668 = Bromofluoro	benzene		F044 =	Decachlor 2-Fluorol 2,4-Dich	oiphenyl	(GC)	cid	
A159 = 2-Fluorophe B732 = Phenol-D6 A121 = 2,4,6-Tribr A884 = Nitrobenzen A158 = 2-Fluorobip B142 = Terphenyl-D	omophenol e-D5 henyl 14							
B816 = 2,4,5,6-Tet								
Values outside o	£		7 7 1	24-				

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).

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

C BATCH: Q2P41899	Solid (Po	sticide c	ompounde.	by GC)
	DOLLA (FE	butches c	ompounds	27 307
SAMPLE ID	0.0	77	0	
BLANK BLANK SPIKE	83 81	73 73	0	
EX63BEDP4A	50	71	ő	
EXUST2651A MD	65	82	0	
EXUST2651A MS	68	84	0	
QC LIMITS	(30-130)	(30-130)		
SURROGATE ID	B816	A500	# OUT	
QC BATCH: Q7P41902	Leachate	(Pesticid	e compour	nds by GC)
CAMPIE TD				
SAMPLE ID BLANK	96	96	0	
BLANK SPIKE	94	53	Ö	
EX63BEDP2A MD	99	102	Ö	
EX63BEDP2A MS	100	108	0	
EX63BEDP4A	93	103	0	
EX63BEDP4B	96	105	0	
QC LIMITS	(30-130)	(30-130)		
SURROGATE ID	A047	B185	B668	# OUT
QC BATCH: Q2V4130	Solid (Vol	atile org	anics by	MS)
SAMPLE ID	7.00	1 1 7	105	
BLANK BLANK SPIKE	100 96	113 104	105 94	0
EX63BED2AG MD	102	103	83	0
EX63BED2AG MS	108	95	83	Ö
EX63BED4AG	102	104	90	0
QC LIMITS	(70-121)	(81-117)	(74-121)	
QC BATCH: Q7V4132	Leachate (Volatile	organics	by MS)
&c 2 &				
SAMPLE ID				
BLANK	105	100	98	0
BLANK SPIKE	109	102	98	0
EX63BEDP2A MD	102	98	96	0
EX63BEDP2A MS	105	98	95	0
EX63BEDP4A EX63BEDP4B	107 103	92 94	97 92	0
EXCODEDP4D	103	34	32	· ·
QC LIMITS	(70-121)	(81-117)	(74-121)	
		SU	RROGATE :	ID
A047 = 1,2-Dichlor	oethane-D4		A500 -	= Decachlorobiphenyl
B185 = Toluene-D8 B668 = Bromofluoro A159 = 2-Fluorophe	benzene		F044 =	= 2-Fluorobiphenyl (GC) = 2,4-Dichlorophenylacetic-acid
B732 = Phenol-D6 A121 = 2,4,6-Tribro A884 = Nitrobenzen A158 = 2-Fluorobip B142 = Terphenyl-D	e-D5 henyl 14	A Sea Version		
	rachloro-m	The State of		

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-CUS DDY RECORD

Form 0015 Field nnical 8 mices Rev. 08/89

No. 107758

																141	o. Luii	00
O.H. N	MATERIALS	CORF			P.C	D. BOX 551	• FINDLAY, OH 45839-05	551 •	419	9-423	3-3526	5						
PROJ. NO. 1620 CLIENT'S R	at De	N CONT	e E	_	_	PROJECT MAN	PROJECT TELEPHONE NO. (508) 77 2-20 19 NAGER/SUPERVISOR SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	(IND	ALYSI DICATE ARATE OTAINE		IRED		100			REMARKS	
	3 BEDRY	12:	1518	1			lex of sandy soil	LXIL	·V	0	1	1	11				LWANKS	
	BEDP4B		1507	V		mostly quex c	brown soul soul	IXIL	V	J	1							
3 EX 6	3BED4AG	V	1511		1	grex		ZXHOA						V	•			
4																		
1																		
5																		
0																		
TRANSFER	ITEM NUMBER		1		ANSF	ERS HED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REN	MARKS	F	re	-3-	وب	ved 4°(2	(Je)
1	1-3	-	2	N	B	(en	Fad Ex Aviol1	121 1	900			• (5	7) つ、	blzwic x TAT posites chois		к.
2	1-3	F	BOES	29	89	3459 36	Joneta Jensen	12-20	9:46				AII	ر	ON	posites	5 N 6 2	ting
3							0						C	ااد	12	chois	TEMP.	DOC HI
4										SAM	PLER'S	SIGNAT	S	20	31	(



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: Conventionals, Metals, Organic and

RCRA TCLP Leachate Parameters

Date Sample Received: December 21, 1994

Date Order Received: December 21, 1994

Joblink(s): 617309

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:

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

Date: January 19, 199!

PROJECT NARRATIVE

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

- o All solid sample results except conventionals, are reported on a "dry weight" basis.
- The identity of all pesticide and herbicide compounds were confirmed by secondary column analysis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- 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.
- High matrix spike recoveries and RPD values between the matrix spike/matrix spike duplicate were attributable to matrix interferences.
- o High surrogate recoveries for the PNA analysis were attributable to matrix interferences.

APPENDIX A DATA SUMMARY REPORT

DATE: 01/16/95

PAGE: 1

	Sample Po ASC Sample Sampl Facilit		EX63BEDP5A JN6449 941220 016208C	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C	EX63BEDP5B JN6705 941220 016208C	EX63BEDP1B JN6706 941220 016208C	EX63BEDP1C JN6707 941220 016208C	EX63BEDP3E JN6708 941220 016208C
Parameters		Units								
Conventional Data	(CV10)									
Flash Point, Seta Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode)	Flash	Deg C mg/kg mg/kg % std	>93 <10.0 <20.0 92.3 5.73	>93 <10.0 <20.0 92.4 5.76	>93 <10.0 <20.0 92.4 6.39	>93 <10.0 <20.0 90.8 6.22	>93 <10.0 <20.0 92.1 5.39	>93 <10.0 <20.0 90.8 6.02	>93 <10.0 <20.0 89.9 6.00	>93 <10.0 <20.0 90.4 5.87
	Sample Po ASC Sample Sampl Facilit	int ID: Number: e Date: y Code:	JN6709	EX63BED5AG JN6710 941220 016208C	EX63BED3AG JN6711 941220 016208C	EX63BEDUPG JN6712 941220 016208C				
Parameters		Units								
Conventional Data	(CV10)									
Flash Point, Seta Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode)	Flash	Deg C mg/kg mg/kg % std	90.8	86.2	89.8	88.0				

DATE: 01/16/95

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	Sample Point ID: ASC Sample Number: Sample Date: Facility Code:	JN6449 941220	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C		
Parameters	Units						
Fotal Pesticide an	d PCB Analysis, GC,	(GS05)					
Aldrin	mg/kg	<.018	<.018	<.018	<.018		
Alpha-BHC	mg/kg		<.018	<.018	<.018		
Beta-BHC		<.018	<.018	<.018	<.018		
Chlordane	mg/kg	<.181	<.181	<.181	<.183		
4,4'-DDD	mg/kg		<.018	<.018	<.018		
4,4 -DDD	mg/kg	C.010	V.010	V.010	4.018		
4,4'-DDE	ma/ka	<.018	<.018	<.018	<.018		
4,4'-DDT	mg/kg	.130	.141	.103	<.018		
Delta-BHC	mg/kg	<.018	<.018	<.018	<.018		
Dieldrin	mg/kg	<.018	<.018	<.018	<.018		
Endosulfan sulfat	mg/kg	<.018	<.018	<.018		(4)	
Endosultan Sultac	.e mg/kg	C.010	C.010	C. U10	<.018		
Endosulfan I	mg/kg	<.018	<.018	<.018	<.018		
Endosulfan II	mg/kg		<.018	<.018	<.018		
Endrin	mg/kg	<.018	<.018	<.018			
	mg/kg	< .010			<.018		
Endrin aldehyde		<.018	<.018	<.018	<.018		
Endrin ketone	mg/kg	<.018	<.018	<.018	<.018		
Gamma-BHC	mg/kg	<.018	<.018	<.018	<.018		
Harmonia and the state of the s		<.018		<.018			
Heptachlor	mg/kg	<.018	<.018		<.018		
Heptachlor epoxid	mg/kg	<.018	<.018	<.018	<.018		
Methoxychlor		<.018	<.018	<.018	<.018		
Toxaphene	mg/kg	<.361	<.361	<.361	<.366		
Aroclor 1016	ma /lea	<.181	<.181	<.181	<.183		
Aroclor 1221		<.181	<.181	<.181			
Aroclor 1232			<.181		<.183		
Aroclor 1232	mg/kg	<.181 <.181	<.181	<.181 <.181	<.183		
					<.183		
Aroclor 1248	mg/kg	<.181	<.181	<.181	<.183		
Aroclor 1254	mar /lear	<.181	<.181	<.181	<.183		
Aroclor 1260		<.181	<.181	<.181			
AIOCIOI 1260	mg/kg	<.101	<.101	<.101	<.183		
Priority Pollutant	PNA Analysis, GC,	(GS16)					
Acenaphthene	mg/kg	.236	.246	<.036	3 96		
Acenaphthylene	mg/kg	.356	.307	.181	2.96		
Anthracene				2,000,000	2.83		
네 글() 10 14 17 17 17 17 17 1중 1개 중구 (1) 14 14 14 14 14 14 14 14 14 14 14 14 14	mg/kg	2.87	1.84	.161	2.13	40	
Benzo (a) anthracen	mg/kg	<.071	.060	.128	<.181		
Benzo(b)fluoranth	mg/kg	<.071	.066	.212	<.181		
Benzo(k) fluoranth	ene ma/ka	<.071	.045	.105	<.181		
					21757		

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A	Sample Point ID: SC Sample Number: Sample Date: Facility Code:	EX63BEDP5A JN6449 941220 016208C	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C				
Parameters	Units								
Priority Pollutant P	NA Analysis, GC, (GS16)							
Benzo (ghi) perylene Benzo (a) pyrene Chrysene Dibenzo (a,h) anthrac Fluoranthene	mg/kg mg/kg	<.071 <.071 <.071 <.071 <.071	.097 .071 .064 .098	.139 .154 .158 .142 .155	<.181 <.181 <.181 <.181				
Fluorene Naphthalene Phenanthrene Pyrene	mg/kg mg/kg mg/kg mg/kg	.674 .509 1.05 .084	.669 .462 .377 .273	<.036 <.036 .050 .170	2.20 .572 .969 .306				
A	Sample Point ID: SC Sample Number: Sample Date: Facility Code:	941220	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C	EX63BEDP5B JN6705 941220 016208C	EX63BEDP1B JN6706 941220 016208C	EX63BEDP1C JN6707 941220 016208C	EX63BEDP3E JN6708 941220 016208C
Parameters	Units								
RCRA TCLP Leachate H	erbicide Analysis,	GC, (GS52)							
2,4-D 2,4,5-TP (Silvex)	mg/L mg/L	<.250 <.250	<.250 <.250	<.250 <.250	<.250 <.250	<.250 <.250	<.250 <.250	<.025 <.025	<.250 <.250
RCRA TCLP Leachate P	esticide Analysis,	GC, (GS54)							
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	mg/L mg/L mg/L mg/L mg/L	<.020 <.002 <.002 <.002 <.002							
Methoxychlor Toxaphene	mg/L mg/L	<.002 <.040							

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	Sample Point ID ASC Sample Number Sample Date Facility Code	: JN6449 : 941220	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C	EX63BEDP5B JN6705 941220 016208C	EX63BEDP1B JN6706 941220 016208C	EX63BEDP1C JN6707 941220 016208C	EX63BEDP31 JN6708 941220 016208C
Parameters	Unit	S							
otal Petroleum H	ydrocarbon Analysis	, IR (IR00)							
Petroleum Hydroc	earbons (IR) mg/k	g 348	362	173	403	411	152	389	589
	Sample Point ID ASC Sample Number Sample Date Facility Code	: JN6449 : 941220	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C				
Parameters	Unit	s							
CRA Total Metals	Analysis, (ME50)								
Arsenic Barium Cadmium Chromium Lead	mg/k mg/k mg/k mg/k mg/k	g 14.5 g <1.08 g 11.9	17.8 15.0 <.889 11.7 12.1	17.6 15.2 <1.06 11.5 18.5	16.3 17.2 <1.03 11.4 6.90				
Mercury Selenium Silver	mg/k	g <.050 g <5.41 g <1.08	<.050 <4.44 <.889	<.050 <5.32 <1.06	<.050 <5.13 <1.03				
	Sample Point ID ASC Sample Number Sample Date Facility Code	: JN6449 : 941220	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C	EX63BEDP5B JN6705 941220 016208C	EX63BEDP1B JN6706 941220 016208C	EX63BEDP1C JN6707 941220 016208C	EX63BEDP3 JN6708 941220 016208C
Parameters	Unit	S							
CRA TCLP Leachat	e Metals Analysis,	(ME52)							
Arsenic Barium Cadmium Chromium Lead	mg/L mg/L mg/L mg/L	.473	<.100 .575 <.005 <.020 <.100	<.100 .388 <.005 <.020 <.100	<.100 .433 <.005 <.020 <.100	<.100 .629 <.005 <.020 <.100	<.100 .622 <.005 <.020 <.100	<.100 .708 <.005 .022 <.100	<.100 .606 <.005 <.020 <.100

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Company: OHM REMEDIATION SERVICES CORPORATION

mg/kg <.005

<.013

Carbon disulfide

ف	Sample Point ID: ASC Sample Number: Sample Date: Facility Code:	JN6449	EX63BEDUP JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C	EX63BEDP5B JN6705 941220 016208C	EX63BEDP1B JN6706 941220 016208C	EX63BEDP1C JN6707 941220 016208C	EX63BEDP3 JN6708 941220 016208C
Parameters	Units								
CRA TCLP Leachate 1	Metals Analysis, (M	IE52)							
Mercury	mg/L	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001
Selenium	mq/L	< .100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Silver	mg/L	<.020	<.020	<.020	<.020	<.020	<.020	< .020	<.020
Copper	mg/L	.028	.034	<.020	.049	.022	<.020	.026	<.020
Zinc	mg/L	<.200	<.200	<.200	<.200	.280	.211	.227	.242
CRA TCLP Leachate I	Base/Neutral/Acid A	malysis, MS	, (MS52)						
2.4-Dinitrotoluene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobenzene	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachloroethane	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Hexachlorobutadien	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
4-Methylphenol	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Nitrobenzene	mg/L	< .100	<.100	<.100	<.100	<.100	< .100	<.100	<.100
Pentachlorophenol	mg/L	<.100	< .100	<.100	<.100	<.100	<.100	<.100	<.100
Pyridine	mg/L	<.100	<.100	<.100	<.100	<.100	< .100	<.100	<.100
2,4,5-Trichlorophe	iol mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
2,4,6-Trichloropher	nol mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
	Sample Point ID:	EX63BED1AG		EX63BED3AG					
	ASC Sample Number:	JN6709	JN6710	JN6711	JN6712				
	Sample Date:	941220	941220	941220	941220				
	Facility Code:	016208C	016208C	01620BC	016208C				
Parameters	Units								
otal Volatile Anal	ysis, MS, (MV00)								
Acetone	mg/kg	.011	.057	.014	.062				
Acrolein	mg/kg	<.027	<.065	<.028	<.027				
Acrylonitrile	mg/kg	<.014	<.032	<.014	<.014				
Benzene	mg/kg	<.005	<.013	<.006	<.005				

<.006

<.005

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:	EX63BED1AG	EX63BED5AG	EX63BED3AG	EX63BEDUPG
ASC Sample Number:	JN6709	JN6710	JN6711	JN6712
Sample Date:	941220	941220	941220	941220
Facility Code:	016208C	016208C	016208C	016208C

Parameters Units

rotal	Volatile	Analysis,	MS,	(MV00)
Carb	on tetracl	hloride		mg/
	robenzene			mg/

Carbon tetrachloride	mg/kg	<.005	<.013	<.006	<.005
Chlorobenzene	mg/kg	<.005	<.013	<.006	<.005
Chlorodibromomethane	mg/kg	< .005	<.013	<.006	<.005
Chloroethane	mg/kg	< .005	<.013	< .006	<.005
Chloroform	mg/kg	<.005	<.013	<.006	<.005
2-Chloroethylvinyl ether	mg/kg	<.005	<.013	<.006	<.005
Dichlorobromomethane	mg/kg	< .005	<.013	< .006	<.005
1,1-Dichloroethane	mg/kg	< .005	<.013	< .006	< .005
1,2-Dichloroethane	mg/kg	< .005	<.013	<.006	<.005
1,1-Dichloroethylene	mg/kg	<.005	<.013	<.006	<.005
1,2-Dichloropropane	mg/kg	<.005	<.013	<.006	<.005
cis-1,3-Dichloropropylene	mg/kg	< .005	<.013	< .006	<.005
trans-1,3-Dichloropropylene	mg/kg	<.005	<.013	< .006	<.005
Ethylbenzene	mg/kg	<.005	.027	< .006	.031
2-Hexanone	mg/kg	<.005	<.013	<.006	<.005
Methyl bromide	mg/kg	<.005	<.013	<.006	<.005
Methyl chloride	mg/kg	< .005	<.013	<.006	<.005
Methylene chloride	mg/kg	< .005	<.013	<.006	<.005
Methyl ethyl ketone	mg/kg	<.005	<.013	<.006	.018
Methyl-iso-butyl ketone	mg/kg	<.011	<.026	<.011	<.011
Styrene	mg/kg	<.005	<.013	<.006	<.005
1,1,2,2-Tetrachloroethane	mg/kg	< .005	<.013	<.006	<.005
Tetrachloroethylene	mg/kg	< .005	<.013	<.006	<.005
Toluene	mg/kg	<.005	<.013	<.006	<.005
1,1,1-Trichloroethane	mg/kg	<.005	<.013	<.006	<.005
1,1,2-Trichloroethane	mg/kg	<.005	<.013	<.006	<.005
Trichloroethylene	mg/kg	<.005	<.013	<.006	<.005
1,2-Trans-dichloroethylene	mg/kg	<.005	<.013	<.006	<.005
Vinyl chloride	mg/kg	<.005	<.013	<.006	<.005
Xylenes	mg/kg	<.005	.015	<.006	.019
-17	119/119		. 0,2,3		.013

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ASC Sa	ole Point ID: ample Number: Sample Date: acility Code:	EX63BEDP5A JN6449 941220 016208C	JN6450 941220 016208C	EX63BEDP1A JN6451 941220 016208C	EX63BEDP3A JN6452 941220 016208C	EX63BEDP5B JN6705 941220 016208C	EX63BEDP1B JN6706 941220 016208C	EX63BEDP1C JN6707 941220 016208C	EX63BEDP3E JN6708 941220 016208C
Parameters	Units								
RCRA TCLP Leachate (ZHE)	Volatile Anal	ysis, MS, (1	MV50)						
Benzene	mq/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Carbon tetrachloride	mg/L	< .125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Chlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Chloroform	mg/L	<.125	<.125	<.125	<.125	<.125	< .125	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,2-Dichloroethane	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
1,1-Dichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Methyl ethyl ketone	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Tetrachloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Trichloroethylene	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125
Vinyl chloride	mg/L	<.125	<.125	<.125	<.125	<.125	<.125	<.125	<.125

APPENDIX B QUANTITATIVE RESULTS

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C EX63BEDP5A

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 92.3 5.73 >93	10.0 20.0 .100	ND ND - - -	Q2I4081 Q2I4080

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total OH (Electrode) Plash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 92.4 5.76 >93	10.0 20.0 .100	ND ND - - -	Q2I4081 Q2I4080

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 92.4 6.39 >93	10.0 20.0 .100	ND ND - - -	Q2I4081 Q2I4080
	¥				

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP3A

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
eactive Cyanide eactive Sulfide solids, Total oH (Electrode) Plash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 90.8 6.22 >93	10.0 20.0 .100	ND ND - - -	Q2I4081 Q2I4080

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5B

				Number
mg/kg mg/kg % std Deg C	ND ND 92.1 5.39 >93	10.0 20.0 .100	ND ND - -	Q2I4084 Q2I4083
	mg/kg mg/kg % std Deg C	mg/kg ND ND 92.1 5.39 Deg C >93	mg/kg mg/kg ND 20.0 yg.1 std 5.39 Deg C >93	mg/kg mg/kg 92.1 20.0 ND % 92.1 100 - 100 PD ND ND % 92.1 100 - 100 PD ND

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP1B

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
eactive Cyanide eactive Sulfide olids, Total H (Electrode) lash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 90.8 6.02 >93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP1C

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
eactive Cyanide eactive Sulfide olids, Total H (Electrode) lash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 89.9 6.00 >93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP3B

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 90.4 5.87 >93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083
					''

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BED1AG

Compounds	Sample Results	Detection Limits %	Blank Results	Batch Number
olids, Total	90.8	.100		
	1			
	4 - 10			

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BED5AG

Compounds	Sample Results	Detection Limits	Blank Results %	Batch Number
olids, Total	86.2	.100	-	1

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED3AG

Compounds	Sample Results %	Detection Limits	Blank Results %	Batch Number
Solids, Total	89.8	.100	,	

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDUPG

Compounds	Sample Results	Detection Limits %	Blank Results %	Batch Number
Solids, Total	88.0	.100	•	
			-1	
	M			
	- ()			

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Arsenic Barium Cadmium Chromium Lead	14.9 14.5 ND 11.9 12.1	5.41 1.08 1.08 1.08 2.16	ND ND ND ND ND	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
Mercury Selenium Silver	ND ND ND	.050 5.41 1.08	ND ND	Q2G5820 Q2M5827R Q2M5827R

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Arsenic Barium Cadmium Chromium Lead	17.8 15.0 ND 11.7 12.1	4.44 .889 .889 .889 1.78	ND ND ND ND ND	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
Mercury Selenium Silver	ND ND ND	.050 4.44 .889	ND ND ND	Q2G5820 Q2M5827R Q2M5827R

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
rsenic Jarium Cadmium Chromium Jead	17.6 15.2 ND 11.5 18.5	5.32 1.06 1.06 1.06 2.13	ND ND ND ND ND	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
Mercury Selenium Silver	ND ND ND	.050 5.32 1.06	ND ND ND	Q2G5820 Q2M5827R Q2M5827R

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Arsenic Barium Cadmium Chromium Lead	16.3 17.2 ND 11.4 6.90	5.13 1.03 1.03 1.03 2.05	ND ND ND ND ND	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
Mercury Selenium Silver	ND ND ND	.050 5.13 1.03	ND ND ND	Q2G5820 Q2M5827R Q2M5827R
		-		

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.018 .018 .018 .181 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND .130 ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Toxaphene	ND ND ND ND ND	.018 .018 .018 .018 .361	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1016 Aroclor 1221 Aroclor 1232 .roclor 1242 Aroclor 1248	ND ND ND ND ND	.181 .181 .181 .181	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1254 Aroclor 1260	ND ND	.181	ND ND	Q2P41910 Q2P41910

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.018 .018 .018 .181 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND .141 ND ND ND	.018 .018 .018 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Toxaphene	ND ND ND ND ND	.018 .018 .018 .018 .361	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND ND	.181 .181 .181 .181	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1254 Aroclor 1260	ND ND	.181	ND ND	Q2P41910 Q2P41910

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

ND ND ND ND ND ND .103 ND	.018 .018 .018 .181 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910
.103	018		Q2P41910 Q2P41910
ND ND	.018 .018 .018 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
ND ND ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
ND ND ND ND ND	.018 .018 .018 .018 .361	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
ND ND ND ND ND	.181 .181 .181 .181 .181	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
ND ND	.181 .181	ND ND	Q2P41910 Q2P41910
	R REER REER REER REER REER REER REER R	ND .018 ND .181 ND .181 ND .181 ND .181 ND .181	ND .018 ND ND .361 ND ND .181 ND

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP3A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.018 .018 .018 .183 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND ND ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Toxaphene	ND ND ND ND ND	.018 .018 .018 .018 .366	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1016 Aroclor 1221 Aroclor 1232 .roclor 1242 Aroclor 1248	ND ND ND ND ND	.183 .183 .183 .183 .183	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1254 Aroclor 1260	ND ND	.183	ND ND	Q2P41910 Q2P41910

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP5A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	.236 .356 2.87 ND ND	.071 .071 .071 .071 .071	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
enzo(k)fluoranthene denzo(ghi)perylene denzo(a)pyrene dhrysene dibenzo(a,h)anthracene	ND ND ND ND ND	.071 .071 .071 .071 .071	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	.182 .674 .509 1.05 .084	.071 .071 .071 .071 .071	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	.246 .307 1.84 .060	.036 .036 .036 .036	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
enzo(k)fluoranthene enzo(ghi)perylene enzo(a)pyrene hrysene ibenzo(a,h)anthracene	.045 .097 .071 .064 .098	.036 .036 .036 .036 .036	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	.341 .669 .462 .377 .273	.036 .036 .036 .036 .036	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

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 .181 .161 .128 .212	.036 .036 .036 .036	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene	.105 .139 .154 .158 .142	.036 .036 .036 .036	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	.155 ND ND .050 .170	.036 .036 .036 .036 .036	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
	- T - B			

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	2.96 2.83 2.13 ND ND	.181 .181 .181 .181	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Benzo(k) fluoranthene Benzo(ghi)perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene	ND ND ND ND ND	.181 .181 .181 .181	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	.460 2.20 .572 .969 .306	.181 .181 .181 .181	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
				-

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	348	35.8	ND	Q2T41912

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	362	35.5	ND	Q2T41912

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	173	35.8	ND	Q2T41912

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	403	36.0	ND	Q2T41912
*				

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5B

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
troleum Hydrocarbons (IR)	411	35.7	ND	Q2T41932

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP1B

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	152	7.22	ND	Q2T41932
	4			3
š.				
2				

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP1C

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	389	36.4	ДИ	Q2T41932
		4		

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP3B JN6708

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	589	36.4	ND	Q2T41932
				,

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BED1AG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acetone Acrolein Acrylonitrile Benzene Bromoform	.011 ND ND ND ND	.011 .027 .014 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	ND ND ND ND	.005 .005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	ND ND ND ND ND	.011 .005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	ND ND ND ND ND	.005 .005 .005 .005	02 02 03 04 04 04 04 04	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	ND	.005	ND	Q2V4130

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BED5AG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acetone Acrolein Acrylonitrile Benzene Bromoform	.057 ND ND ND ND	.026 .065 .032 .013	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	ND ND ND ND ND	.013 .013 .013 .013 .013	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	ND ND ND ND	.013 .013 .013 .013 .013	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene	ND ND ND ND .027	.013 .013 .013 .013 .013	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	ND ND ND ND ND	.013 .013 .013 .013 .013	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	ND ND ND ND ND	.026 .013 .013 .013 .013	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Frichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	ND ND ND ND ND	.013 .013 .013 .013 .013	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	.015	.013	ND	Q2V4130

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BED3AG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acetone Acrolein Acrylonitrile Benzene Bromoform	.014 ND ND ND ND	.011 .028 .014 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	ND ND ND ND ND	.011 .006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	ND	.006	ND	Q2V4130

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUPG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acetone Acrolein Acrylonitrile Benzene Bromoform	. 062 ND ND ND ND ND	.011 .027 .014 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene	ND ND ND ND 031	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	ND ND ND ND .018	.005 .005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	ND ND ND ND ND	.011 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	.019	.005	ND	Q2V4130

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5A JN6449

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-D ,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C EX63BEDUP

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP1A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-D ,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C EX63BEDP3A JN6452

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-D ,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250	ND ND	Q7H50007 Q7H50007

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H50007 Q7H50007

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1C

Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
ND ND	.025	ND ND	Q7H50007 Q7H50007
	ND		

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H50007 Q7H50007

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP1A

Sample Results mg/L	Limits mg/L	Results mg/L	Number
ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
ND	.002	ND ND	Q7P41925 Q7P41925
	ND ND ND ND ND	ND .020 ND .002 ND .002 ND .002 ND .002	ND .020 ND ND .002 ND ND .002 ND ND .002 ND ND ND .002 ND ND ND .002 ND ND ND .002 ND

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002 .040	ND ND	Q7P41925 Q7P41925

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P50006 Q7P50006 Q7P50006 Q7P50006 Q7P50006
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P50006 Q7P50006

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND	Q7P50006 Q7P50006 Q7P50006 Q7P50006 Q7P50006
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P50006 Q7P50006

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Meptachlor Meptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND	Q7P50006 Q7P50006 Q7P50006 Q7P50006 Q7P50006
ethoxychlor Oxaphene	ND ND	.002	ND ND	Q7P50006 Q7P50006

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P50006 Q7P50006 Q7P50006 Q7P50006 Q7P50006
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P50006 Q7P50006

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP5A JN6449

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .473 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
Mercury Selenium Silver Copper Zinc	ND ND ND .028 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5821 Q7M5811 Q7M5811 Q7M5811 Q7M5811
		× ·		

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .575 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
Mercury Selenium Silver Copper Zinc	ND ND ND .034 ND	.001 .100 .020 .020 .200	ND ND ND ND ND	Q7G5821 Q7M5811 Q7M5811 Q7M5811 Q7M5811

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .388 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
Mercury Selenium Silver Copper Zinc	ND ND ND ND ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5821 Q7M5811 Q7M5811 Q7M5811 Q7M5811

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .433 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
Mercury Selenium Silver Copper Zinc	ND ND ND .049 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5821 Q7M5811 Q7M5811 Q7M5811 Q7M5811

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .629 ND ND ND	.100 .100 .005 .020 .100	ND ND ND .022 ND	Q7M5842 Q7M5842 Q7M5842 Q7M5842 Q7M5842
Mercury Selenium Silver Copper Zinc	ND ND ND .022 .280	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5821 Q7M5842 Q7M5842 Q7M5842 Q7M5842
# E				

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1B

mg/L	mg/L	Results mg/L	Number
ND .622 ND ND ND	.100 .100 .005 .020 .100	ND ND ND . 022 ND	Q7M5842 Q7M5842 Q7M5842 Q7M5842 Q7M5842
ND ND ND ND .211	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5821 Q7M5842 Q7M5842 Q7M5842 Q7M5842
	ND N	ND .001 ND .001 ND .000 ND .001 ND .000 ND .000	100 ND ND ND ND ND ND ND

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1C

Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
ND .708 ND .022 ND	.100 .100 .005 .020 .100	ND ND ND .022 ND	Q7M5842 Q7M5842 Q7M5842 Q7M5842 Q7M5842
ND ND ND .026 .227	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5821 Q7M5842 Q7M5842 Q7M5842 Q7M5842
	Results mg/L ND .708 ND .022 ND ND ND ND ND	Results Limits mg/L	Results Limits Results mg/L mg/L

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .606 ND ND ND	.100 .100 .005 .020 .100	ND ND ND .022 ND	Q7M5842 Q7M5842 Q7M5842 Q7M5842 Q7M5842 Q7M5842
Mercury Selenium Silver Copper Zinc	ND ND ND ND .242	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5821 Q7M5842 Q7M5842 Q7M5842 Q7M5842
				2

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Witrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND +	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
2,4,6-Trichlorophenol	ИД	.100	ND	Q7C50005

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
A-Methylphenol Witrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
2,4,6-Trichlorophenol	ND	.100	ND	Q7C50005

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
2,4,6-Trichlorophenol	ND	.100	ND	Q7C50005

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND	.100 .100 .100 .100	ND ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
2,4,6-Trichlorophenol	ND	.100	ND	Q7C50005

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
enzene darbon tetrachloride Chlorobenzene Chloroform (,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
,2-Dichloroethane ,1-Dichloroethylene dethyl ethyl ketone detrachloroethylene drichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
inyl chloride	ND	.125	ND	Q7V4132

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDUP

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	.125	ND	Q7V4132

RCRA TCLP LEACHATE (ZHE) Volatile Analysis, MS, (MV50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
Vinyl chloride	ND	.125	ND	Q7V4135
			x	

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
Vinyl chloride	DM	.125	ND	Q7V4135
	1			

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP5B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ир ир ир ир ир	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
Vinyl chloride	ND	.125	ND	Q7V4135

RCRA TCLP LEACHATE (ZHE) Volatile Analysis, MS, (MV50)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP1B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
Vinyl chloride	ND	.125	ND	Q7V4135

RCRA TCLP LEACHATE (ZHE) Volatile Analysis, MS, (MV50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP1C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
Vinyl chloride	ND	,125	ND	Q7V4135

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP3B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
Vinyl chloride	ND	.125	ND	Q7V4135

APPENDIX C QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 617309

REFERENC	E	TITLE
1020	SW-846	Flash Point, Setaflash
1311	SW-846	Toxicity Characteristic Leaching Procedure
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable
6010	SW-846	Inductively Coupled Plasma Atomic Emmision Spectroscopy
7470	SW-846	Mercury in Liquid Waste (Manual Cold-Vapor Technique)
7471	SW-846	Mercury in Solid Waste (Manual Cold-Vapor Technique)
8080	SW-846	Organochlorine Pesticides and/or PCBs
8100	SW-846	Polynuclear Aromatic Hydrocarbons
8150	SW-846	Chlorinated Herbicides
8240	SW-846	GC/MS for Volatile Organics
8270	SW-846	GC/MS for Semivolatile Organics: Capillary Column Technique
CLP 1.7.1.1	CLP	pH, Electrode
SECTION 7.3.3.2	SW-846	Test Method to Determine HCN Released from Wastes
SECTION 7.3.4.2	SW-846	Test Method to Determine HS Released from Wastes

METHODOLOGY REFERENCES

ASTM	American Society for Testing and Materials, 1985 edition.
AOTIM	Amonoun cooley for realing and materials, reco camen.
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.

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:

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

CONVENTIONAL DATA (CV10)

Compounds		Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Reactive Cyanide Reactive Sulfide	mg/kg mg/kg	ND ND	66 58			-	Q2I4081 Q2I4080
							3
		*					

CONVENTIONAL DATA (CV10)

Compounds		Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Reactive Cyanide Reactive Sulfide	mg/kg mg/kg	ND ND	94 84	-	-	-	Q2I4084 Q2I4083

RCRA TOTAL METALS ANALYSIS, (ME50)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND ND ND ND	92 97 89 91 92	16.3 17.2 ND 11.4 6.90	79 87 79 60 88	21 15 23 5 52	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
Mercury Selenium Silver	ND ND ND	83 89 99	ND ND	90 84 80	3 15 12	Q2G5820 Q2M5827R Q2M5827R
*						

Variable QC matrix spike recoveries were attributed to sample matrix interference.

QUALITY ASSURANCE DATA Total Pesticide and PCB Analysis, GC, (GS05)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	101 93 135 142 114	ND ND ND ND ND	49 36 56 64 63	6 8 8 7 7	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND ND ND ND ND	114 117 72 118 109	ND .130 ND ND ND	55 56 39 61 62	7 17 8 3 1	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	142 142 121 91 119	D D D D D D D	64 67 63 206 61	7 5 1 4 5	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor	ND ND ND ND	101 143 143 151	ND ND ND ND	40 66 64 74	7 7 8 8	Q2P41910 Q2P41910 Q2P41910 Q2P41910

Endrin aldehyde: Spike recovery which are out of control are due to matrix interference

PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND	62 40 41 59 59	.656 .385 1.99 .053 .057	- - 101 94	- - - 9 5	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene	ND ND ND ND ND	62 56 41 62 56	ND .094 .065 .053	124 120 90 95 106	12 6 7 9 6	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	ND ND ND ND ND	64 63 65 65	.506 .484 .490 .881 .262	112	- - - 10	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909

Surrogate recoveries which are outside of control limits were attributed to the sample matrix, this was confirmed by replicate analysis.

Due to sample matrix interferences, the spiked sample does not provide valid spike recovery 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	83	34.9	134	35	Q2T41912

TOTAL PETROLEUM HYDROCARBON ANALYSIS, IR (IR00)

Compounds	Blank Results mg/kg	Blank Spike Recov	mg/kg	Matrix Spike Recov	Relative Percent Diff	
Petroleum Hydrocarbons (IR)	ND	78	411	-	-	Q2T41932
•						
* .						

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

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene Chlorobenzene 1,1-Dichloroethylene Toluene Trichloroethylene	ND ND ND ND	98 99 105 105 99	ND ND ND	100 85 103 89 96	1 10 4 4 1	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
d					-	

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	
4-D 4,5-TP (Silvex)	ND	68 91	ND	46 60	13	Q7H41924 Q7H41924

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	
2,4-D 2,4,5-TP (Silvex)	ND ND	76 78	ND ND	43	15 17	Q7H50007 Q7H50007

RCRA TCLP LEACHATE PESTICIDE ANALYSIS, GC, (GS54)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
hlordane ndrin eptachlor eptachlor epoxide indane	ND ND ND ND	83 74 61 75 58	ND ND ND ND	74 70 54 70 55	4 1 3 1 3	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
ethoxychlor	ND	103	ND	98	3	Q7P41925

RCRA TCLP LEACHATE PESTICIDE ANALYSIS, GC, (GS54)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
hlordane Indrin Meptachlor Meptachlor epoxide Lindane	ND ND ND ND ND	79 68 64 71 55	ND ND ND ND	76 68 62 69 53	1 2 1 3 3	Q7P50006 Q7P50006 Q7P50006 Q7P50006 Q7P50006
Methoxychlor	ND	101	ND	99	2	Q7P50006

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
rsenic arium admium hromium ead	ND ND ND ND ND	99 97 98 98 97	ND .275 ND ND ND	96 98 93 92 95	8 8 6 7 8	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
ercury elenium ilver opper inc	ND ND ND ND ND	99 101 103 99 99	ND ND ND .029 ND	104 98 96 97 95	1 7 12 7 7	Q7G5821 Q7M5811 Q7M5811 Q7M5811 Q7M5811
					(X	

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND ND ND . 022 ND	96 92 96 88 96	ND .708 ND .022 ND	92 85 87 80 86	3 1 2 1 2	Q7M5842 Q7M5842 Q7M5842 Q7M5842 Q7M5842 Q7M5842
Mercury Selenium Silver Copper Zinc	ND ND ND ND ND	99 95 85 93 95	ND ND ND .026 .227	104 94 96 90 89	1 3 1 1 2	Q7G5821 Q7M5842 Q7M5842 Q7M5842 Q7M5842

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	97 108 43 47 90	ND ND ND ND	102 63 31 26 92	4 16 13 7 1	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	80 81 82 64 86	ND ND ND ND ND	82 78 88 61 89	0 3 2 1 6	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	DIN	83	ND	85	1	Q7C41923

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

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	93 98 29 26 70	ир ир ир ир	106 76 26 22 91	2 13 12 13 6	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	67 70 75 57 82	ND ND ND ND ND	86 83 90 80 88	4 10 3 7 4	Q7C50005 Q7C50005 Q7C50005 Q7C50005 Q7C50005
2,4,6-Trichlorophenol	ND	75	ND	88	2	Q7C50005

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

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	97 97 91 97 74	ND ND ND ND ND	99 100 90 94 80	9 13 5 4. 6	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	99 90 90 95 98	ND ND ND ND ND	93 83 82 93 99	2 1 0 7 7	Q7V4132 Q7V4132 Q7V4132 Q7V4132 Q7V4132
Vinyl chloride	ND	86	ND	79	5	Q7V4132
3						
	,					
	100	1				

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	95 95 92 91 79	ND ND ND ND	95 94 90 90 78	7 7 5 3 3	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	94 85 79 92 96	ND ND ND ND ND	95 83 79 92 97	4 3 8 4 2	Q7V4135 Q7V4135 Q7V4135 Q7V4135 Q7V4135
Vinyl chloride	ND	80	ND	80	1	Q7V4135
		2.0				

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT	
QC BATCH: Q7C4192	3 Leachate	(Semi-Vol	atile org	anics by B	MS)			
SAMPLE ID								
BLANK	90	92	92	96	91	67	0	
BLANK SPIKE	91	92	85	98	96	95	Ö	
EX63BEDP1A	77	73	78	83	79	82	ŏ	
EX63BEDP3A	84	79	82	97	97	77	Ö	
EX63BEDP5A	61	76	71	93	94	78	0	
EX63BEDP6A MD	90	95	87	100	97	95	0	
EX63BEDP6A MS					96	94		
	88	92	83	101			0	
EX63BEDUP	83	81	82	96	97	87	0	
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)		
QC BATCH: Q7C5000	5 Leachate	(Semi-Vol	atile org	anics by 1	MS)			
SAMPLE ID								
BLANK	85	80	78	87	78	30 *	1	
BLANK SPIKE	78	70	84	86	78	47	ō	
EX63BEDP1B	79	71	77	86	75	77	ŏ	
EX63BEDP1C	86	77	82	92	82	94	Ö	
EX63BEDP3B	84	75	82	89	79	79	ŏ	
EX63BEDP3B MD	82	85	89	86	80	92	Ö	
EX63BEDP3B MS	97	95	88	100	90	93	ő	
EX63BEDP5B	83	74	79	88	76	90	0	
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)		
SURROGATE ID	F044	# 007						
QC BATCH: Q2F4190		240	GC-FID)	385				
SAMPLE ID								
BLANK	73	0						
BLANK SPIKE	75	0						
EX63BEDP1A	88	0						
EX63BEDP3A	134 *	1						
EX63BEDP5A	134 *	1						
EX63BEDP5A MD	70	ō						
EX63BEDP5A MS	153 *	1						

SURROGATE ID

A047 = 1,2-Dichloroethane-D4
B185 = Toluene-D8
B668 = Bromofluorobenzene
A159 = 2-Fluorophenol
B732 = Phenol-D6
A121 = 2,4,6-Tribromophenol
A884 = Nitrobenzene-D5
A158 = 2-Fluorobiphenyl
B142 = Terphenyl-D14
B816 = 2,4,5,6-Tetrachloro-m-xylene

* Values outside of method quality control limits

(39-130)

OC 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-neutra or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

```
SURROGATE ID
                       F047
                               # OUT
QC BATCH: Q7H41924 Leachate (Herbicide compounds by GC)
  SAMPLE ID
  BLANK
                         98
                                  0
  BLANK SPIKE
                         93
                                  0
  EX63BEDP1A
                        104
                                  0
  EX63BEDP3A
                        109
                                  0
  EX63BEDP5A
                         81
  EX63BEDP6A MD
                         85
                                  0
  EX63BEDP6A MS
                         94
                                  0
                        107
  EX63BEDUP
    QC LIMITS
                      (30 - 130)
QC BATCH: Q7H50007 Leachate (Herbicide compounds by GC)
  SAMPLE ID
  BLANK
                         40
                                  0
                         98
  BLANK SPIKE
                                  0
                         66
  EX63BEDP1B
                                  0
  EX63BEDP1C
                         96
                         75
  EX63BEDP3B
                                  0
  EX63BEDP3B MD
                         92
                                  0
  EX63BEDP3B MS
                        105
                                  0
  EX63BEDP5B
                         86
                      (30-130)
    QC LIMITS
                                A500
                                          # OUT
SURROGATE ID
                      B816
QC BATCH: Q2P41910 Solid (Pesticide compounds by GC)
  SAMPLE ID
                                  109
  BLANK
                         84
                                            0
  BLANK SPIKE
                        118
                                  127
  EX63BEDP1A
                         71
                                   97
                                            0
                         40
                                   69
                                            0
  EX63BEDP3A
  EX63BEDP5A
                         58
                                   94
                                            0
                         47
                                   77
                                            0
  EX63BEDP5A MD
  EX63BEDP5A MS
                         45
                                   72
                                            0
  EX63BEDUP
                         56
                                   92
                     (30-130) (30-130)
    OC LIMITS
```

SURROGATE ID

A047 = 1,2-Dichloroethane-D4

B185 = Toluene-D8

B668 = Bromofluorobenzene

A159 = 2-Fluorophenol

B/32 = Phenol-D6

A121 = 2,4,6-Tribromophenol

A884 = Nitrobenzene-D5

A158 = 2-Fluorobiphenyl

B142 = Terphenyl-D14

B816 = 2,4,5,6-Tetrachloro-m-xylene

* 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-neutra or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

SURROGATE ID						1000	-		The same of the sa	
	B816	A500	# OUT		27 / 10	, etc				E
QC BATCH: Q7P41925	Leachate	(Pesticide	e compou	inds by GC)						
SAMPLE ID										
BLANK	98	98	0							
BLANK SPIKE	87	76	0							
EX63BEDP1A	79	105	O							
EX63BEDP3A	78	104	O							
EX63BEDP5A	78	103	ő							
EX63BEDP6A MD	95	106	ő							
EX63BEDP6A MS	92	101	ő					-		
	85	108	0							
EX63BEDUP	85	108	O							
QC LIMITS	(30-130)	(30-130)								
SURROGATE ID	B816	A500	# OUT	A TO LOT WATER	14.74			-1.34		
DUILKOUNTE LE	2020		" 002			Ref				
OC BATCH: Q7P50006	Leachate	(Pesticide	e compou	inds by GC)						
QC BATCH: Q7P50006	Leachate	(Pesticid	e compou	inds by GC)						
QC BATCH: Q7P50006	Leachate	(Pesticid	e compou	inds by GC)						
SAMPLE ID				inds by GC)						
SAMPLE ID BLANK	88	48	0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE	88 96	48 69	0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE EX63BEDP1B	88 96 84	48 69 97	0 0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE EX63BEDP1B EX63BEDP1C	88 96 84 89	48 69 97 101	0 0 0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE EX63BEDP1B EX63BEDP1C EX63BEDP3B	88 96 84 89 92	48 69 97 101 100	0 0 0 0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE EX63BEDP1B EX63BEDP1C EX63BEDP3B EX63BEDP3B	88 96 84 89 92 95	48 69 97 101 100 99	0 0 0 0 0 0 0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE EX63BEDP1B EX63BEDP1C EX63BEDP3B EX63BEDP3B MD EX63BEDP3B MS	88 96 84 89 92 95	48 69 97 101 100 99	0 0 0 0 0 0 0 0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE EX63BEDP1B EX63BEDP1C EX63BEDP3B EX63BEDP3B	88 96 84 89 92 95	48 69 97 101 100 99	0 0 0 0 0 0 0	inds by GC)						
SAMPLE ID BLANK BLANK SPIKE EX63BEDP1B EX63BEDP1C EX63BEDP3B EX63BEDP3B MD EX63BEDP3B MS	88 96 84 89 92 95 91 82	48 69 97 101 100 99	0 0 0 0 0 0 0 0	inds by GC)						

SAMPLE ID				
BLANK	100	113	105	0
BLANK SPIKE	96	104	94	0
EX63BED1AG	102	85	104	0
EX63BED2AG MD	102	103	83	0
EX63BED2AG MS	108	95	83	0
EX63BED3AG	104	101	98	0
EX63BED5AG	103	104	93	0
EX63BEDUPG	99	105	91	0
OC LIMITS	(70-121)	(81-117)	(74-121)	

SURROGATE ID

A047 = 1,2-Dichloroethane-D4

B185 = Toluene-D8

B668 = Bromofluorobenzene

A159 = 2-Fluorophenol

B732 = Phenol-D6

A121 = 2,4,6-Tribromophenol

A884 = Nitrobenzene-D5

A158 = 2-Fluorobiphenyl

B142 = Terphenyl-D14

B816 = 2,4,5,6-Tetrachloro-m-xylene

* 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).

SURROGATE ID	A047	B185	B668	# OUT	
QC BATCH: Q7V4132	Leachate	(Volatile	organics	by MS)	
SAMPLE ID					
BLANK	105	100	98	0	
BLANK SPIKE	109	102	98	0	
EX63BEDP2A MD	102	98	96	0	
EX63BEDP2A MS	105	98	95	0	
EX63BEDP5A	104	98	96	0	
EX63BEDUP	105	97	101	0	
QC LIMITS	(70-121)	(81-117)	(74-121)		
QC BATCH: Q7V4135	Leachate	(Volatile	organics	by MS)	
SAMPLE ID					
SAMPLE ID BLANK	101	94	94	0	
	101 101	94 98		0	
BLANK			94 97		
BLANK BLANK SPIKE	101	98	94	0	
BLANK BLANK SPIKE EX63BEDP1A	101 101	98 94 93	94 97 95 92	0	
BLANK BLANK SPIKE EX63BEDP1A EX63BEDP1A MD	101 101 101	98 94	94 97 95 92 96	0	
BLANK BLANK SPIKE EX63BEDP1A EX63BEDP1A MD EX63BEDP1A MS	101 101 101 102	98 94 93 95	94 97 95 92	0 0 0 0 0	
BLANK BLANK SPIKE EX63BEDP1A EX63BEDP1A MD EX63BEDP1A MS EX63BEDP1B	101 101 101 102 102	98 94 93 95 93	94 97 95 92 96 97	0 0 0 0 0	
BLANK BLANK SPIKE EX63BEDP1A EX63BEDP1A MD EX63BEDP1A MS EX63BEDP1B EX63BEDP1C	101 101 101 102 102 100	98 94 93 95 93 97	94 97 95 92 96 97	0 0 0 0 0	
BLANK BLANK SPIKE EX63BEDP1A EX63BEDP1A MD EX63BEDP1A MS EX63BEDP1B EX63BEDP1C EX63BEDP3A	101 101 101 102 102 100 99	98 94 93 95 93 97 90	94 97 95 92 96 97 94 93	0 0 0 0 0	

SURROGATE ID A047 = 1,2-Dichloroethane-D4 A500 = Decachlorobiphenyl F044 = 2-Fluorobiphenyl (GC) F047 = 2,4-Dichlorophenylacetic-acid B185 = Toluene-D8 B668 = Bromofluorobenzene A159 = 2-Fluorophenol B732 = Phenol-D6A121 = 2,4,6-Tribromophenol A884 = Nitrobenzene-D5 A158 = 2-Fluorobiphenyl B142 = Terphenyl-D14 B816 = 2,4,5,6-Tetrachloro-m-xylene

* 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-neutra 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-CU ODY RECORD

Form 0019 ic schnical Services Rev. 08/89

No. 107768

0.1	I. MATERIALS	CORF		Ž,	P.C). BOX 551	 FINDLAY, OH 45839- 	0551			419-	-423-	3526	5						
PROJ. I		C CONT	2 C			PROJECT MAN	PROJECT TELEPHONE NO. (508) 772-201	9	NUMBER	O CONTAINED	(INDIC	CATE		IRED	\c\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3/	1/3/3/5/5/5/			
	(63BEDPSA	12.20	100.00	-	G	Grey Sz	ald mad brown (١X	ال		1	X	1	1		1	7	REMAR	KS
1	X63BEDPSB		1030	1		Small 2 mostly	mount grey clax,					1	/	/						
SE	X 63BEDLP		0458	3/		mixture	a 4 mad brown	14				1	1	V	/	1	1			
15	63 BE DIA		1142	1		of cold	ole /	lots		ÿ	安	1	7	1	1	7	J			
5 3	X 63 BEDPIB		1120	1		lots of	un clayey sand						1	1		1				
S EX	63BEDPIC		142	1		Lots of	un clexey sal		V			1	V	/						
E	X & 3BEDIAG		1127		V	of u	brown szed, Lo		2 X	OA	J									
8 E	X63BED5/1G		0930		0	szud, lol	y & xollowish brown	do			V									
9 E	X 63 BED316		1341		1		met givey clay go				V									
	X 63BEDUP	5 V	0930	3	V	lots of c	while Test Smell	n Szud	1	4	V	DEM	ARKS							
THANSFER	ITEM NUMBER	1			RANS	FERS SHED BY	TRANSFERS ACCEPTED BY		DATE	T	IME	HEM	AHKE		P	re	-86	2	red at 4	٥٠ م
1	1-10		2	1	B	12a_	F2987345914	,	12,20	1/2	200				7	ر ا	y)	red at 4 block 1 TAT	ncicou
2	1-10	FE	ED EX	2	989	345914	Donita Jensen		12/21	41	613			3-1	5	4	5	*	175)	
3																				
4												SAMP	LERS	SIGNA		1	€.	13	3/e_	



CHAIN-OF-CL' ODY RECORD 50251

Form 0019 echnical Services Rev. 08/89

No 107769

																	141	J. 1.U (100
O.H. M	ATERIALS	CORP			P.O	. BOX 551	 FINDLAY, 	OH 45839-0551	•	419	-423-	3526							
Tim	De	H.1	CC (u'	SAC	E) Bi	PHOJECT TELEPHONE SOLUTION AGEN/SUPERVISOR SNOW	2-2019	NUMBER OF CONTAINERS	(IND	ALYSIS ICATE MRATE TAINEF	DESIF	RED (S)	12/2/2	100	3/3			
NO NO	AMPLE JMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTIO INCLUDE MATRIX AN POINT OF SAMPLE)	ID		/	47	5/5	38	34	Y	//	R	EMARKS	
1 Ex63	BEPP3A	12.20	1357	1		Let Brown	n clay w	some send,	IXIL	1	1	1	1	1					
1	BEDP3B	1	1415	V		moist of cobb	clayex s	TPH to do	IXIL	1	1								
3																			
4																			
5																			
6											18								
7													+						
8																			
9										-									
10									1		DEL	15/40							
TRANSFER	ITEM NUMBER				ANSF	ERS HED BY	TRANS ACCEP	TED BY	A 100 A 10	TIME	HEM	ARKS	. ,	Pro	250	erres	at	4°C	
1	192	-	25	, /	1.15	3102	Fed Ex /	Airball 345914		1700			, 7	rev	P	61	22/6	- 12	<i>ه</i> علمنا
2	1,2	Fe	ED EX	29	189	345914	abrita	enden	12/21/94	V10			S	4	Sy	T	AT		
3						- t						LER'S SE	GNATUR	ie.					
4											_				1	31 x			



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:

Conventionals, Metals, Organic and

RCRA TCLP Leachate Parameters

Date Sample Received: December 22, 1994

Date Order Received: December 22, 1994

Joblink(s): 617314

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:

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

Date: January 19, 199

APPENDIX A DATA SUMMARY REPORT

DATE: 01/13/95

PAGE: 1

	ASC Sample Samp	Point ID: Number: ole Date: ity Code:	JN6476 941221	EX63BEDP6G JN6477 941221 016208C	EX63BEDP6K JN6478 941221 016208C	EX63BED6AG JN6488 941221 016208C	EX63BED6GG JN6489 941221 016208C	EX63BED6KG JN6490 941221 016208C
Parameters		Units						
onventional Data	(CV10)							
Flash Point, Seta	Flash	Deg C		>93	>93	.e/	4	-
Reactive Cyanide		mg/kg		<10.0	<10.0	-		A-1
Reactive Sulfide		mg/kg		<20.0	<20.0	5.1.7	A	
Solids, Total		e .	90.5	91.6	89.8	85.9	89.8	90.2
pH (Electrode)		std	6.43	5.95	6.32	7		
	ASC Sample Samp	Point ID: Number: ole Date: ity Code:	941221	EX63BEDP6G JN6477 941221 016208C	EX63BEDP6K JN6478 941221 016208C			
Parameters		Units		12825.0210	39.73			
	d PCB Analy			<.018	<.019			
Aldrin	d PCB Analy	mg/kg mg/kg	<.018 <.018	<.018 <.018	<.019 <.019			
Aldrin Alpha-BHC	d PCB Analy	mg/kg mg/kg mg/kg	<.018 <.018 <.018	<.018	<.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane	d PCB Analy	mg/kg mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184	<.018	<.019 <.019 <.186			
Aldrin Alpha-BHC Beta-BHC Chlordane	d PCB Analy	mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184	<.018	<.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	d PCB Analy	mg/kg mg/kg mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184 <.018	<.018 <.018 <.182 <.018	<.019 <.019 <.186 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDE	d PCB Analy	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Delta-BHC	d PCB Analy	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDT Delta-BHC Dieldrin Endosulfan Sulfat		mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDT Delta-BHC Dieldrin Endosulfan I Endosulfan II		mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan I Endosulfan II Endorin Endrin		mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDT Delta-BHC Dieldrin Endosulfan I Endosulfan II Endrin Endrin Endrin Endrin Endrin		mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDT Delta-BHC Dieldrin Endosulfan I Endosulfan II Endrin Endrin Endrin Endrin Endrin		mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfat Endosulfan I Endosulfan II Endrin Endrin Endrin Endrin Endrin Endrin Endrin Endrin aldehyde Endrin ketone		mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfat Endosulfan II Endrin Endrin Endrin aldehyde Endrin ketone Gamma-BHC		mg/kg	<.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Otal Pesticide an Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDT Delta-BHC Dieldrin Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone Gamma-BHC Heptachlor Heptachlor epoxide	e	mg/kg	<.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD 4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone Gamma-BHC Heptachlor	e	mg/kg	<.018 <.018 <.018 <.184 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.018 <.018 <.182 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	<.019 <.019 <.186 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019 <.019			

DATE: 01/13/95

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		ASC Sample Samp	Point ID: e Number: ple Date: ity Code:	JN6- 941:	476 221	EX63BEDP6G JN6477 941221 016208C	EX63BEDP6K JN6478 941221 016208C
Parame	eters		Units				
otal Pest	icide and	PCB Anal	ysis, GC,	(GS0	5)		
Aroclor 1 Aroclor 1	.221		mg/kg	< . 1	84	<.182 <.182	<.186 <.186
Aroclor 1 Aroclor 1 Aroclor 1	242		mg/kg mg/kg mg/kg	< . 1	84	<.182 <.182 <.182	<.186 <.186 <.186
Aroclor 1 Aroclor 1			mg/kg mg/kg	<.1	84	<.182 <.182	<.186 <.186
		PNA Analy				1.102	V.180
	ylene		mg/kg mg/kg mg/kg mg/kg mg/kg		.730 5.50 4.86 1.41	<.180 4.28 3.62 <.180 <.180	.544 6.35 5.03 .226 <.184
Benzo(ghi Benzo(a)p Chrysene	luoranthe)perylene yrene (,h)anthra		mg/kg mg/kg mg/kg mg/kg mg/kg	<.18	84 84 1.41	<.180 <.180 <.180 <.180 <.180	<.184 <.184 <.184 .318 <.184
Fluoranth Fluorene Naphthale Phenanthr Pyrene	ne		mg/kg mg/kg mg/kg mg/kg		.739 .461 1.38 1.93 .274	.198 .272 1.06 .950	.303 .276 .757 1.70 .259
RCRA TCLP	Leachate	Herbicide	Analysis,	GC,	(GS52)		
2,4-D 2,4,5-TP	(Silvex)		mg/L mg/L	<.25		<.250 <.250	<.250 <.250

DATE: 01/13/95

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ASC S	ple Point ID: ample Number: Sample Date: acility Code:	JN6476	EX63BEDP6G JN6477 941221 016208C	EX63BEDP6K JN6478 941221 016208C
Parameters	Units			
.CRA TCLP Leachate Pesti	cide Analysis,	GC, (GS54)		
Chlordane	mg/L	<.020	<.020	<.020
Endrin		<.002	< .002	<.002
Heptachlor	mg/L	<.002	<.002	<.002
Heptachlor epoxide		<.002	<.002	<.002
Lindane	mg/L	<.002	<.002	<.002
Methoxychlor	mg/L	<.002	<.002	<.002
Toxaphene		<.040	<.040	<.040
Fotal Petroleum Hydrocar	bon Analysis,	IR (IR00)		
Petroleum Hydrocarbons	(IR) mg/kg	807	567	1000
RCRA Total Metals Analys	is, (ME50)			
Arsenic	mg/kg	13.5	13.8	14.2
Barium	mq/kq	19.2	15.3	19.4
Cadmium	mg/kg	<1.03	<1.04	<1.00
Chromium	mg/kg	10.9	10.6	10.5
Lead	mg/kg	5.49	5.42	5.30
Mercury	mg/kg	<.050	<.050	<.050
Selenium		<5.13	<5.21	<5.00
Silver		<1.03	<1.04	<1.00
RCRA TCLP Leachate Metal:	s Analysis, (M	E52)		
Arsenic	mg/L	<.100	<.100	<.100
Barium	mg/L	.490	.468	.449
Cadmium	mg/L	<.005	<.005	< .005
Chromium	mg/L	<.020	<.020	<.020
Lead	mg/L	<.100	<.100	<.100
Mercury	mg/L	<.001	<.001	<.001
Selenium		<.100	<.100	<.100
Silver	mg/L	<.020	<.020	<.020
Copper	mg/L	.036	.045	.033
Zinc	mg/L	<.200	<.200	<.200
	15 marsh 1			

<.100

DATE: 01/13/95

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP6A EX63BEDP6G EX63BEDP6K
ASC Sample Number: JN6476 JN6477 JN6478
Sample Date: 941221 941221 941221
Facility Code: 016208C 016208C 016208C

mg/L <.100 <.100

Parameters Units

2,4-Dinitrotoluene

CRA TCLP Leachate Base/Neutral/Acid Analysis, MS, (MS52)

mg/L	<.100	<.100	<.100
mg/L	< .100	<.100	<.100
mg/L	<.100	<.100	<.100
mg/L	<.100	<.100	<.100
mq/L	<.100	<.100	<.100
mg/L	<.100	<.100	<.100
	<.100	<.100	<.100
mg/L	<.100	<.100	<.100
mg/L	<.100	<.100	<.100
mg/L	<.100	<.100	<.100
	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L <.100	mg/L <.100 <.100

Sample Point ID: EX63BED6AG EX63BED6GG EX63BED6KG
ASC Sample Number: JN6488 JN6489 JN6490
Sample Date: 941221 941221 941221
Facility Code: 016208C 016208C 016208C

Parameters Units

Total Volatile Analysis, MS, (MV00)

Acetone	mg/kg	.021	.024	.025
Acrolein	mg/kg	<.028	<.027	<.027
Acrylonitrile	mg/kg	<.014	<.013	<.013
Benzene	mg/kg	<.006	<.005	<.005
Bromoform	mg/kg	<.006	<.005	<.005
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	mg/kg	<.006	<.005	<.005
	mg/kg	<.006	<.005	<.005
	mg/kg	<.006	<.005	<.005
	mg/kg	<.006	<.005	<.005
	mg/kg	<.006	<.005	<.005
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane	mg/kg	<.006	<.005	<.005
	mg/kg	<.006	<.005	<.005
	mg/kg	<.006	<.005	<.005
	mg/kg	<.006	<.005	<.005

DATE: 01/13/95

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OHM REMEDIATION SERVICES CORPORATION Company:

Sample Point ID: EX63BED6AG EX63BED6GG EX63BED6KG ASC Sample Number: JN6488 JN6489 JN6490

Sample Date: 941221 Facility Code: 016208C 941221 941221

016208C 016208C

Units Parameters

1,2-Dichloroethane	mg/kg	<.006	<.005	<.005
1,1-Dichloroethylene	mg/kg	<.006	<.005	<.005
1,2-Dichloropropane	mg/kg	<.006	<.005	<.005
cis-1,3-Dichloropropylene	mg/kg	<.006	<.005	<.005
trans-1,3-Dichloropropylene	mg/kg	<.006	<.005	<.005
Ethylbenzene 2-Hexanone Methyl bromide Methyl chloride Methylene chloride	mg/kg mg/kg mg/kg mg/kg mg/kg	.01 <.006 <.006 <.006	<.005 <.005 <.005 <.005 <.005	<.005 <.005 <.005 <.005 <.005
Methyl ethyl ketone	mg/kg	<.006	<.005	<.005
Methyl-iso-butyl ketone	mg/kg	<.011	<.011	<.011
Styrene	mg/kg	<.006	<.005	<.005
1,1,2,2-Tetrachloroethane	mg/kg	<.006	<.005	<.005
Tetrachloroethylene	mg/kg	<.006	<.005	<.005
Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene	mg/kg mg/kg mg/kg mg/kg mg/kg	<.006 <.006 <.006 <.006	<.005 <.005 <.005 <.005 <.005	<.005 <.005 <.005 <.005 <.005
Vinyl chloride	mg/kg	<.006	<.005	<.005
Xylenes	mg/kg		<.005	<.005

DATE: 01/13/95

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Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: EX63BEDP6A EX63BEDP6G EX63BEDP6K ASC Sample Number: JN6476 JN6477 JN6478 941221 941221

Sample Date: 941221 Facility Code: 016208C 016208C 016208C

Units Parameters

CRA TCLP Leachate (ZHE)	Volatile Anal	ysis, MS,	(MV50)	
Benzene	mg/L	<.125	<.125	<.125
Carbon tetrachloride	mg/L	<.125	<.125	< .125
Chlorobenzene	mg/L	<.125	< .125	<.125
Chloroform	mg/L	<.125	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125
1,2-Dichloroethane	mg/L	<.125	<.125	<.125
1,1-Dichloroethylene	mg/L	<.125	< .125	< .125
Methyl ethyl ketone	mg/L	< .125	< .125	< .125
Tetrachloroethylene	mg/L	<.125	< .125	< .125
Trichloroethylene	mg/L	<.125	<.125	<.125
Vinyl chloride	mg/L	<.125	<.125	<.125

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A	Sample Point S SC Sample Number Sample Date Facility Coo	ce: 941221	3 EX63BEDP6C JN6480 941221 016208C	EX63BEDP6D JN6481 941221 016208C	EX63BEDP6E JN6482 941221 016208C	
Parameters	Un	its				
Conventional Data (C	V10)		•			
Flash Point, Seta F Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode)	mg	7 C >93 /kg <10.0 /kg <20.0 89.9 1 6.59	>93 <10.0 <20.0 92.2 6.26	>93 <10.0 <20.0 92.3 5.99	>93 <10.0 <20.0 91.1 5.98	
RCRA TCLP Leachate H	erbicide Analys	sis, GC, (GS52)				
2,4-D 2,4,5-TP (Silvex)	mg,		<.250 <.250	<.250 <.250	<.250 <.250	
RCRA TCLP Leachate P	esticide Analys	sis, GC, (GS54)				
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	mg, mg, mg,	/L <.002 /L <.002 /L <.002	<.020 <.002 <.002 <.002 <.002	<.020 <.002 <.002 <.002 <.002	<.020 <.002 <.002 <.002 <.002	
Methoxychlor Toxaphene	mg,		<.002 <.040	<.002 <.040	<.002 <.040	
Total Petroleum Hydr	ocarbon Analys:	is, IR (IROO)				
Petroleum Hydrocarb	ons (IR) mg,	/kg 535	301	335	698	
RCRA TCLP Leachate M	etals Analysis,	(ME52)				
Arsenic Barium Cadmium Chromium Lead	mg, mg, mg, mg,	/L .427 /L <.005 /L <.020	<.100 .572 <.005 <.020 <.100	<.100 .468 <.005 <.020 <.100	<.100 .443 <.005 <.020 <.100	
Mercury Selenium Silver Copper Zinc	mg, mg, mg,	L <.100 L <.020 L .026	<.001 <.100 <.020 .101 <.200	<.001 <.100 <.020 .161 <.200	<.001 <.100 <.020 .090 <.200	9

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	mple Point ID: Sample Number: Sample Date: Facility Code:	JN6479	EX63BEDP6C JN6480 941221 016208C	EX63BEDP6D JN6481 941221 016208C	EX63BEDP6E JN6482 941221 016208C
Parameters	Units				
RCRA TCLP Leachate Base	/Neutral/Acid	Analysis, MS	, (MS52)		
2,4-Dinitrotoluene	mg/L	<.100	<.100	<.100	<.100
Hexachlorobenzene	mg/L	<.100	<.100	<.100	<.100
Hexachloroethane	mg/L	<.100	<.100	<.100	<.100
Hexachlorobutadiene	mg/L	<.100	<.100	<.100	<.100
· [- 1일, 이번째 [이번째 10명] 이번째 프로젝터 아래는 바다 이번 보다면	mg/L	<.100	<.100	<.100	<.100
2-Methylphenol	mg/ L	C.100	V.100	C.100	4.100
4-Methylphenol	mg/L	<.100	<.100	<.100	<.100
Nitrobenzene		<.100	<.100	<.100	<.100
	mg/L	<.100	<.100		F-10 12 12 12 12 12 12 12 12 12 12 12 12 12
Pentachlorophenol	mg/L			<.100	<.100
Pyridine	mg/L	<.100	<.100	<.100	<.100
2,4,5-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100
2,4,6-Trichlorophenol	mg/L	<.100	<.100	<.100	<.100
RCRA TCLP Leachate (ZHE	O) Volatile Ana	lysis, MS, (MV50)		
Benzene	mg/L	<.125	<.125	<.125	<.125
Carbon tetrachloride	mg/L	<.125	<.125	<.125	<.125
	mg/1	<.125	<.125	<.125	
Chlorobenzene	mg/L				<.125
Chloroform	mg/L	<.125	<.125	<.125	<.125
1,4-Dichlorobenzene	mg/L	<.125	<.125	<.125	<.125
1,2-Dichloroethane	mg/L	<.125	<.125	<.125	<.125
1,1-Dichloroethylene	mg/L	<.125	<.125	<.125	<.125
		<.125	<.125	<.125	<.125
Methyl ethyl ketone	mg/L	<.125			
Tetrachloroethylene	mg/L		<.125	<.125	<.125
Trichloroethylene	mg/L	<.125	<.125	<.125	<.125
Vinyl chloride	mg/L	<.125	<.125	<.125	<.125

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	ASC Sample Samp		941221	EX63BEDP6H JN6484 941221 016208C	EX63BEDP61 JN6485 941221 016208C	EX63BEDP6J JN6486 941221 016208C	EX63BEDP6L JN6487 941221 016208C	
Parameters		Units						
Conventional Data (CV10)							
Flash Point, Seta	Flash	Deg C	>93	>93	>93	>93	>93	
Reactive Cyanide		mg/kg	<10.0	<10.0	<10.0	<10.0	<10.0	
Reactive Sulfide		mg/kg	<20.0	<20.0	<20.0	<20.0	<20.0	
Solids, Total		ક	89.9	89.4	91.3	90.1	89.8	
pH (Electrode)		std	6.10	5.90	5.86	6.42	6.14	
RCRA TCLP Leachate	Herbicide	Analysis,	GC, (GS52)					
2,4-D		mg/L	<.250	<.250	<.250	<.250	<.250	
2,4,5-TP (Silvex)		mg/L	<.250	<.250	<.250	<.250	<.250	
RCRA TCLP Leachate	Pesticide	Analysis,	GC, (GS54)					
Chlordane		mg/L	<.020	<.020	<.020	<.020	<.020	
Endrin		mg/L	<.002	<.002	<.002	<.002	<.002	
Heptachlor		mg/L	<.002	<.002	<.002	<.002	<.002	
Heptachlor epoxide		mg/L	<.002	<.002	<.002	<.002	<.002	
Lindane		mg/L	<.002	<.002	<.002	<.002	<.002	
Methoxychlor		mg/L	<.002	<.002	<.002	<.002	<.002	
Toxaphene		mg/L	<.040	< .040	<.040	<.040	<.040	
Total Petroleum Hyd	rocarbon A	malysis,	IR (IROO)					
Petroleum Hydrocar	bons (IR)	mg/kg	401	949	665	943	729	
RCRA TCLP Leachate	Metals Ana	alysis, (M	E52)					
Arsenic		mg/L	<.100	<.100	<.100	<.100	<.100	
Barium		mg/L	.477	.581	.499	.554	.573	
Cadmium		mg/L	<.005	<.005	.097	<.005	.098	
Chromium		mg/L	<.020	<.020	.020	<.020	<.020	
Lead		mg/L	<.100	<.100	<.100	<.100	<.100	
Mercury		mg/L	<.001	<.001	<.001	<.001	<.001	
Selenium		mg/L	<.100	<.100	<.100	<.100	<.100	
Silver		mg/L	<.020	<.020	<.020	<.020	<.020	
Copper		mg/L mg/L	.031	<.200	.112	.024	.044	
Zinc							.253	

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	Sample Point ASC Sample Numb Sample Da Facility Co	er: S	EX63BEDP6F JN6483 941221 016208C	EX63BEDP6H JN6484 941221 016208C	EX63BEDP61 JN6485 941221 016208C	EX63BEDP6J JN6486 941221 016208C	EX63BEDP6L JN6487 941221 016208C
Parameters	Un	its					
RCRA TCLP Leachate	Base/Neutral/Ac	id Ana	alysis, MS,	, (MS52)			
2,4-Dinitrotoluen	e mg	/L .	<.100	<.100	<.100	<.100	<.100
Hexachlorobenzene		/L .	<.100	<.100	<.100	<.100	<.100
Hexachloroethane			<.100	<.100	<.100	<.100	<.100
Hexachlorobutadie			<.100	<.100	<.100	<.100	<.100
2-Methylphenol			<.100	<.100	<.100	<.100	<.100
4-Methylphenol	ma	/L .	<.100	<.100	<.100	<.100	<.100
Nitrobenzene	mg		<.100	<.100	<.100	<.100	<.100
Pentachlorophenol		/L .	<.100	<.100	<.100	<.100	<.100
Pyridine	mg	/	<.100	<.100	<.100	<.100	<.100
2,4,5-Trichlorophe	enol mg	1	<.100	<.100	<.100	<.100	<.100
2,4,6-Trichlorophe	enol mg	/L .	<.100	<.100	<.100	<.100	<.100
	(2000) 1 111	Analy	318, MS, (1	MV50)			
RCRA TCLP Leachate	(ZHE) VOISTILE						
		/T.	- 125	c 125	c 125	< 125	× 125
Benzene	mg		<.125	<.125	<.125	<.125	<.125
Benzene Carbon tetrachlor	mg ide mg	/L «	<.125	<.125	<.125	<.125	<.125
Benzene Carbon tetrachlor Chlorobenzene	ide mg	/L .	<.125 <.125	<.125 <.125	<.125 <.125	<.125 <.125	<.125 <.125
Benzene Carbon tetrachlor: Chlorobenzene Chloroform	ide mg mg mg	/L .	<.125 <.125 <.125	<.125 <.125 <.125	<.125 <.125 <.125	<.125 <.125 <.125	<.125 <.125 <.125
Benzene Carbon tetrachlor Chlorobenzene	ide mg mg mg	/L .	<.125 <.125	<.125 <.125	<.125 <.125	<.125 <.125	<.125 <.125
Benzene Carbon tetrachlor: Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane	ide mg mg mg ne mg	/L ./L .	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125	<.125 <.125 <.125	<.125 <.125 <.125 <.125
Benzene Carbon tetrachlor: Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethyle	ide mg mg mg mg ne mg ee mg ene mg	/L ./L ./L ./L ./L ./L ./L ./L ./L ./L .	<.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125
Benzene Carbon tetrachlor: Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane	ide mg mg mg ne mg e mg ene mg	/L ./L ./L ./L .	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125
Benzene Carbon tetrachlor: Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethyle Methyl ethyl keton Tetrachloroethyle	ide mg mg mg mg ne mg ee mg ene mg ne mg	/L	<.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125
Benzene Carbon tetrachlor: Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethyle Methyl ethyl keton	ide mg mg mg mg ne mg ee mg ene mg ne mg	/L	<.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125	<.125 <.125 <.125 <.125 <.125 <.125 <.125

APPENDIX B QUANTITATIVE RESULTS

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6A

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Leactive Cyanide Leactive Sulfide Colids, Total H (Electrode) Lash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 90.5 6.43 >93	10.0 20.0 .100	ND ND - -	Q2I4084 Q2I4083

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP6G

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 91.6 5.95 >93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C EX63BEDP6K

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 89.8 6.32 >93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED6AG

Compounds	Sample Results %	Detection Limits %	Blank Results %	Batch Number
lids, Total	85.9	.100	-	
				*

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED6GG

Compounds	Sample Results %	Detection Limits %	Blank Results %	Batch Number
lids, Total	89.8	.100	-	×
	0.0			
	Î'			
	1			
	1			
	-			

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED6KG

Compounds	Sample Results	Detection Limits	Blank Results %	Batch Number
Solids, Total	90.2	.100	-	
				I
				0

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP6B

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 89.9 6.59 >93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6C

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total SH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 92.2 6.26 >93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083
					-

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6D

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
oH (Electrode) sto	/kg ND ND 92.3 d 5.99 y 2 > 93	10.0 20.0 .100	ND ND - - -	Q2I4084 Q2I4083

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6E

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total DH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 91.1 5.98 >93	10.0 20.0 .100	ND ND - -	Q2I4084 Q2I4083
					*
		**			

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C EX63BEDP6F JN6483

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 89.9 6.10 >93	10.0 20.0 .100	ND ND - -	Q2I4084 Q2I4083

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6H

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
active Cyanide active Sulfide lids, Total (Electrode) ash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 89.4 5.90 >93	10.0 20.0 .100	ND ND - -	Q2I4084 Q2I4083
					L
					i.

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6I

	Sample Results	Detection Limits	Blank Results	Batch Number
mg/kg mg/kg % std Deg C	ND ND 91.3 5.86 >93	10.0 20.0 .100	ND ND - -	Q2I4084 Q2I4083
	mg/kg mg/kg % std Deg C	mg/kg ND mg/kg ND % 91.3	mg/kg ND 10.0 mg/kg ND 20.0 % 91.3	mg/kg ND 10.0 ND mg/kg ND 20.0 ND %

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP6J

Compounds	Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide mg/kg Reactive Sulfide mg/kg Solids, Total % pH (Electrode) std Flash Point, Seta Flash Deg C	ND ND 90.1 6.42 >93	10.0 20.0 .100	ND ND - - -	Q2I4086 Q2I4087

Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP6L

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Reactive Cyanide Reactive Sulfide Solids, Total pH (Electrode) Flash Point, Seta Flash	mg/kg mg/kg % std Deg C	ND ND 89.8 6.14 >93	10.0 20.0 .100	ND ND - -	Q2I4086 Q2I4087

RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6A

Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
13.5 19.2 ND 10.9 5.49	5.13 1.03 1.03 1.03 2.05	ND ND ND ND ND	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
ND ND ND	.050 5.13 1.03	ND ND ND	Q2G5820 Q2M5827R Q2M5827R
	mg/kg 13.5 19.2 ND 10.9 5.49	mg/kg mg/kg 13.5 5.13 19.2 1.03 ND 1.03 10.9 1.03 5.49 2.05 ND .050 ND 5.13	mg/kg mg/kg mg/kg 13.5 5.13 ND 19.2 1.03 ND ND 1.03 ND 10.9 1.03 ND 5.49 2.05 ND ND .050 ND ND ND 5.13 ND

RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6G

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
rsenic arium admium hromium ead	13.8 15.3 ND 10.6 5.42	5.21 1.04 1.04 1.04 2.08	ND ND ND ND	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
ercury elenium ilver	ND ND	.050 5.21 1.04	ND ND	Q2G5820 Q2M5827R Q2M5827R
			4	

RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6K

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
rsenic arium admium Chromium ead	14.2 19.4 ND 10.5 5.30	5.00 1.00 1.00 1.00 2.00	ND ND ND ND ND	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
ercury elenium ilver	ND ND ND	.050 5.00 1.00	ND ND ND	Q2G5820 Q2M5827R Q2M5827R

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.018 .018 .018 .184 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND ND ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.018 .018 .018 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Toxaphene	ND ND ND ND ND	.018 .018 .018 .018 .368	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND ND	.184 .184 .184 .184 .184	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1254 Aroclor 1260	ND ND	.184 .184	ND ND	Q2P41910 Q2P41910

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6G

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.018 .018 .018 .182 .018	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND ND ND ND ND	.018 .018 .018 .018 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.018 .018 .018 .018	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Foxaphene	ND ND ND ND ND	.018 .018 .018 .018 .364	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND ND	.182 .182 .182 .182 .182	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1254 Aroclor 1260	ND ND	.182	ND	Q2P41910 Q2P41910
				2

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6K

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Aldrin Alpha-BHC Beta-BHC Chlordane 4,4'-DDD	ND ND ND ND ND	.019 .019 .019 .186 .019	ND ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
4,4'-DDE 4,4'-DDT Delta-BHC Dieldrin Endosulfan sulfate	ND ND ND ND ND	.019 .019 .019 .019 .019	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Endosulfan I Endosulfan II Endrin Endrin aldehyde Endrin ketone	ND ND ND ND ND	.019 .019 .019 .019	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor Toxaphene	ND ND ND ND ND	.019 .019 .019 .019 .372	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248	ND ND ND ND ND	.186 .186 .186 .186 .186	ND ND ND ND	Q2P41910 Q2P41910 Q2P41910 Q2P41910 Q2P41910
Aroclor 1254 Aroclor 1260	ND ND	.186 .186	ND ND	Q2P41910 Q2P41910

PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6A

Compounds		Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene		.730 5.50 4.86 1.41 ND	.184 .184 .184 .184	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene Brysene Dibenzo(a,h) anthracene		ND ND ND 1.41 ND	.184 .184 .184 .184 .184	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	*	.739 .461 1.38 1.93 .274	.184 .184 .184 .184 .184	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
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PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6G

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 4.28 3.62 ND ND	.180 .180 .180 .180	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Benzo(k) fluoranthene Benzo(ghi) perylene Benzo(a) pyrene Chrysene Dibenzo(a,h) anthracene	ND ND ND ND ND	.180 .180 .180 .180 .180	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Japhthalene Phenanthrene Pyrene	.198 .272 1.06 .950 ND	.180 .180 .180 .180	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
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PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6K

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
cenaphthene cenaphthylene nthracene enzo(a)anthracene enzo(b)fluoranthene	.544 6.35 5.03 .226 ND	.184 .184 .184 .184	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
enzo(k)fluoranthene enzo(ghi)perylene enzo(a)pyrene hrysene ibenzo(a,h)anthracene	ND ND ND .318 ND	.184 .184 .184 .184 .184	ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
luoranthene luorene aphthalene nenanthrene yrene	.303 .276 .757 1.70 .259	.184 .184 .184 .184	ND ND ND ND ND	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6A

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	807	36.5	ND	Q2T41912
1				

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6G

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	567	35.5	ND	Q2T41912
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Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP6K

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	1000	36.8	ND	Q2T41912

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6B

Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
535	36.4	ND	Q2T41912
1			
1			
	535	535 36.4	535 36.4 ND

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6C

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	301	36.1	ИD	Q2T41912

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6D

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	335	35.6	ND	Q2T41912

Company Name

Facility

Sample Point

ASC Sample No.

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016208C

EX63BEDP6E

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
etroleum Hydrocarbons (IR)	698	35.6	ND	Q2T41912
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Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6F

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	401	36.8	ND	Q2T41912
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Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6H

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	949	36.8	ND	Q2T41912
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Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6I

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	665	36.0	ND	Q2T41912
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Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6J

Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
943	35.8	ND	Q2T41912

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6L

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Petroleum Hydrocarbons (IR)	729	36.1	ND	Q2T41912

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED6AG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acetone Acrolein Acrylonitrile Benzene Bromoform	.021 ND ND ND ND	.011 .028 .014 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	ND ND ND ND	.006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene	ND ND ND ND .01	.006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	ND ND ND ND ND	.011 .006 .006 .006	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	ND ND ND ND ND	.006 .006 .006 .006	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	.028	.006	ND	Q2V4130

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BED6GG

.024 ND ND ND ND ND	.011 .027 .013 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130
		MD	Q2V4130
ND ND ND	.005 .005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
ND ND ND ND ND	.005 .005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
ND ND ND ND ND	.005 .005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
ND ND ND ND ND	.005 .005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
98 98 98 98 98 98	.011 .005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
ND ND ND ND ND	.005 .005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
ND	.005	ND	Q2V4130
	38888 88888 88888 88888 88888 88888 88888	ND	ND .005 ND ND .005 ND <t< td=""></t<>

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BED6KG

Compounds	Sample Results mg/kg	Detection Limits mg/kg	Blank Results mg/kg	Batch Number
Acetone Acrolein Acrylonitrile Benzene Bromoform	.025 ND ND ND ND	.011 .027 .013 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	ND ND ND ND ND	.005 .005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Chloroform 2-Chloroethylvinyl ether Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1-Dichloroethylene 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene Ethylbenzene	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
2-Hexanone Methyl bromide Methyl chloride Methylene chloride Methyl ethyl ketone	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Methyl-iso-butyl ketone Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	ND ND ND ND ND	.011 .005 .005 .005 .005	ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene 1,2-Trans-dichloroethylene Vinyl chloride	ND ND ND ND ND	.005 .005 .005 .005	ND ND ND ND ND	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130
Xylenes	ND	.005	ND	Q2V4130

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-D ,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924
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Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6G

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
4-D 4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6K

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250	ND ND	Q7H41924 Q7H41924
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Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924A Q7H41924A
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Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6B

	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924
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		MD ND	ND .250 ND .250	ND .250 ND ND .250

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-D ,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6E

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6F

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 ·Q7H41924
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Company Name

Facility Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6H

Compounds	Sample Result mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	I I	ID .250	ND ND	Q7H41924 Q7H41924
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Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6I

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250 .250	ND ND	Q7H41924 Q7H41924
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Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION 016208C

EX63BEDP6J

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250	ND ND	Q7H41924 Q7H41924

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6L

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-D 2,4,5-TP (Silvex)	ND ND	.250	ND ND	Q7H41924 Q7H41924
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Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
lethoxychlor 'oxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6G

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6K

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Meptachlor Meptachlor epoxide Windane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
dethoxychlor Coxaphene	ND ND	.002 .040	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6E

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002 .040	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6F

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6H

Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
ND ND	.002	ND ND	Q7P41925 Q7P41925
	mg/L ND ND ND ND ND ND	Mg/L mg/L 020 ND .002	mg/L mg/L mg/L ND .020 ND ND .002 ND

Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6I

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6J

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002	ND ND	Q7P41925 Q7P41925
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Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6L

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	.020 .002 .002 .002 .002	ND ND ND ND ND	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor Toxaphene	ND ND	.002 .040	ND ND	Q7P41925 Q7P41925

Company Name

Facility

Sample Point

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EX63BEDP6A

Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
ND .490 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
ND ND .036 ND	.001 .100 .020 .020 .200	ND ND ND ND ND	Q7G5823 Q7M5811 Q7M5811 Q7M5811 Q7M5811
	Results mg/L ND .490 ND	Results Limits mg/L	Results Limits Results mg/L mg/L mg

Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6G

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .468 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
Mercury Selenium Silver Copper Zinc	ND ND ND .045 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5811 Q7M5811 Q7M5811 Q7M5811
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Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6K

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND . 449 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND .033 ND	.001 .100 .020 .020 .200	ND ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND . 427 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .026 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

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EX63BEDP6C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .572 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .101 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

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EX63BEDP6D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .468 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .161 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

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EX63BEDP6E

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .443 ND ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .090 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

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EX63BEDP6F

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .477 ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .031 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812
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Company Name

Facility

Sample Point

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OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6H

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .581 ND ND ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

Facility

Sample Point

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OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6I

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .499 .097 .020 ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .112 .212	.001 .100 .020 .020 .200	ND ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

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EX63BEDP6J

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
arsenic Barium Badmium Chromium Bead	ND .554 ND ND ND	.100 .100 .005 .020	ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .024 ND	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812

Company Name

Facility

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EX63BEDP6L

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND .573 .098 ND ND	.100 .100 .005 .020 .100	ND ND ND ND ND	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND .044 .253	.001 .100 .020 .020 .200	ND ND ND ND	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812
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RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

016208C

EX63BEDP6A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Company Name

Facility

Sample Point

ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6K

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Company Name

Facility

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OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

Company Name

Facility

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EX63BEDP6C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-Dinitrotoluene Mexachlorobenzene Mexachloroethane Mexachlorobutadiene Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
-Methylphenol itrobenzene entachlorophenol yridine ,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

Company Name

Facility

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EX63BEDP6D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-Dinitrotoluene exachlorobenzene exachloroethane exachlorobutadiene -Methylphenol	ND ND ND ND	.100 .100 .100 .100	ND ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
-Methylphenol itrobenzene entachlorophenol yridine ,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

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

Company Name

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EX63BEDP6E

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

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EX63BEDP6F

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923
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Company Name

Facility

Sample Point

ASC Sample No.

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EX63BEDP6H

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923
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Facility

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EX63BEDP6I

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
,4-Dinitrotoluene Mexachlorobenzene Mexachloroethane Mexachlorobutadiene Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
-Methylphenol Vitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923
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Company Name

Facility

Sample Point

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OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6J

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

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Facility

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EX63BEDP6L

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	.100 .100 .100 .100 .100	ND ND ND ND	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	.100	ND	Q7C41923

Company Name

Facility

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EX63BEDP6A

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
enzene arbon tetrachloride hlorobenzene hloroform ,4-Dichlorobenzene	ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
,2-Dichloroethane ,1-Dichloroethylene ethyl ethyl ketone etrachloroethylene richloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
inyl chloride	ND	.125	ND	Q7V4147

Company Name

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EX63BEDP6G

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	.125	ND	Q7V4147
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Company Name

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EX63BEDP6K

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	.125	ND	Q7V4147

Company Name

Facility

Sample Point

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EX63BEDP6B

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	,125	ND	Q7V4147

Company Name

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EX63BEDP6C

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Fetrachloroethylene Frichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
inyl chloride	ND	.125	ND	Q7V4147
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Company Name

Facility

Sample Point

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EX63BEDP6D

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
enzene Tarbon tetrachloride Thlorobenzene Thloroform The Addition of the Addit	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
,2-Dichloroethane ,1-Dichloroethylene dethyl ethyl ketone etrachloroethylene richloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
inyl chloride	ND	.125	ND	Q7V4147

Company Name

Facility

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EX63BEDP6E

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	.125	ND	Q7V4147

Company Name

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EX63BEDP6F

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	.125	ND	Q7V4147

Company Name

Facility

Sample Point ASC Sample No.

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EX63BEDP6H

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	.125	ND	Q7V4147

Company Name

Facility

Sample Point ASC Sample No.

OHM REMEDIATION SERVICES CORPORATION

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EX63BEDP6I

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	.125	ND	Q7V4147
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Company Name

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EX63BEDP6J

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
enzene arbon tetrachloride hlorobenzene hloroform ,4-Dichlorobenzene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
,2-Dichloroethane ,1-Dichloroethylene lethyl ethyl ketone etrachloroethylene richloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
inyl chloride	ND	.125	ND	Q7V4147
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EX63BEDP6L

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Benzene Carbon tetrachloride Chlorobenzene Chloroform L,4-Dichlorobenzene	ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
1,2-Dichloroethane 1,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	ND ND ND ND ND	.125 .125 .125 .125 .125	ND ND ND ND	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
Vinyl chloride	ND	.125	ND	Q7V4147

APPENDIX C QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 617314

REFERENCE		TITLE	
1020	SW-846	Flash Point, Setaflash	
1311	SW-846	Toxicity Characteristic Leaching Procedure	
160.3	CAWW	Residue, Total, Gravimetric, Dried at 103-105 C	
418.1	MCAWW	Petroleum Hydrocarbons, Total Recoverable	
6010	SW-846	Inductively Coupled Plasma Atomic Emmision Spectroscopy	
7470	SW-846	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	
7471	SW-846	Mercury in Solid Waste (Manual Cold-Vapor Technique)	
8080	SW-846	Organochlorine Pesticides and/or PCBs	
8100	SW-846	Polynuclear Aromatic Hydrocarbons	
8150	SW-846	Chlorinated Herbicides	
8240	SW-846	GC/MS for Volatile Organics	
8270	SW-846	GC/MS for Semivolatile Organics: Capillary Column Technique	
CLP 1.7.1.1	CLP	pH, Electrode	
SECTION 7.3.3.	2 SW-846	Test Method to Determine HCN Released from Wastes	
SECTION 7.3.4.	2 SW-846	Test Method to Determine HS Released from Wastes	

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	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:

0	US Army Corps of Engineers	Chemical Analysis in Various Matrices
A	pprovals:	
0	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

CONVENTIONAL DATA (CV10)

Compounds		Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Reactive Cyanide Reactive Sulfide	mg/kg mg/kg	ND ND	94 84	:	-	-	Q2I4084 Q2I4083
			,				

QUALITY ASSURANCE DATA CONVENTIONAL DATA (CV10)

	Compounds		Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Reactive Reactive	Cyanide Sulfide	mg/kg mg/kg	ND ND	60 85	5	-		Q2I4086 Q2I4087
					2			*

RCRA TOTAL METALS ANALYSIS, (ME50)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND ND ND ND ND	92 97 89 91 92	16.3 17.2 ND 11.4 6.90	79 87 79 60 88	21 15 23 5 52	Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R Q2M5827R
Mercury Selenium Silver	ND ND ND	83 89 99	ND ND ND	90 84 80	3 15 12	Q2G5820 Q2M5827R Q2M5827R
*						

Variable QC matrix spike recoveries were attributed to sample matrix interference.

QUALITY ASSURANCE DATA TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Aldrin Alpha-BHC	Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
4,4'-DDT ND 117 .130 56 17 Q2P41910 Delta-BHC ND 72 ND 39 8 Q2P41910 Dieldrin ND 118 ND 61 3 Q2P41910 Endosulfan sulfate ND 109 ND 62 1 Q2P41910 Endosulfan I ND 142 ND 64 7 Q2P41910 Endrin II ND 142 ND 67 5 Q2P41910 Endrin aldehyde ND 121 ND 63 1 Q2P41910 Endrin ketone ND 91 ND 206 4 Q2P41910 Gamma-BHC ND 101 ND 40 7 Q2P41910 Heptachlor ND 143 ND 66 7 Q2P41910 Heptachlor epoxide ND 143 ND 64 8 Q2P41910	Alpha-BHC Beta-BHC Chlordane	ND ND ND	93 135 142	ND ND ND	36 56 64	8 8 7	Q2P41910 Q2P41910 Q2P41910
Endosulfan II	4,4'-DDT Delta-BHC Dieldrin	ND ND ND	117 72 118	.130 ND ND	56 39 61	17 8 3	Q2P41910 Q2P41910 Q2P41910
Heptachlor ND 143 ND 66 7 Q2P41910 Heptachlor epoxide ND 143 ND 64 8 Q2P41910	Endosulfan II Endrin Endrin aldehyde	ND ND	142 121 91	ND ND ND	67 63 206	5 1 4	Q2P41910 Q2P41910 Q2P41910
	Heptachlor Heptachlor epoxide	ND	143 143	ND ND	66 64	7 8	Q2P41910 Q2P41910

Endrin aldehyde: Spike recovery which are out of control are due to matrix interference $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

QUALITY ASSURANCE DATA PRIORITY POLLUTANT PNA ANALYSIS, GC, (GS16)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene	ND ND ND ND ND	62 40 41 59 59	.656 .385 1.99 .053	101 94	- - - 9 5	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Benzo(k)fluoranthene Benzo(ghi)perylene Benzo(a)pyrene Chrysene Dibenzo(a,h)anthracene	ND ND ND ND ND	62 56 41 62 56	ND .094 .065 .053	124 120 90 95 106	12 6 7 9 6	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909
Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	ND ND ND ND ND	64 63 65 65	.506 .484 .490 .881 .262	112	10	Q2F41909 Q2F41909 Q2F41909 Q2F41909 Q2F41909

Surrogate recoveries which are outside of control limits were attributed to the sample matrix, this was confirmed by replicate analysis.

Due to sample matrix interferences, the spiked sample does not provide valid spike recovery 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)	ND	83	34.9	134	35	Q2T41912

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Compounds	Blank Results mg/kg	Blank Spike Recov	Unspiked Sample Results mg/kg	Matrix Spike Recov	Relative Percent Diff	Batch Number
Benzene Chlorobenzene 1,1-Dichloroethylene Toluene Trichloroethylene	84 84 84 84 84 84 84 84 84 84 84 84 84 8	98 99 105 105 99	ND ND ND ND	100 85 103 89 96	1 10 4 4 1	Q2V4130 Q2V4130 Q2V4130 Q2V4130 Q2V4130

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Matrix Spike Recov	d Matri Spike Recov	Relative Percent Diff	Batch Number
46 60	46660	13	Q7H41924 Q7H41924

RCRA TCLP LEACHATE HERBICIDE ANALYSIS, GC, (GS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	
2,4-D 2,4,5-TP (Silvex)	ND	72 75	ND ND	36 37	18 20	Q7H419241 Q7H419241
			,			
-						

RCRA TCLP LEACHATE PESTICIDE ANALYSIS, GC, (GS54)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	
Chlordane Endrin Heptachlor Heptachlor epoxide Lindane	ND ND ND ND ND	83 74 61 75 58	ND ND ND ND ND	74 70 54 70 55	4 1 3 1 3	Q7P41925 Q7P41925 Q7P41925 Q7P41925 Q7P41925
Methoxychlor	ND	103	ND	98	3	Q7P41925
		7.				

QUALITY ASSURANCE DATA RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Number
rsenic Jarium Jadmium Chromium Jead	ND ND ND ND ND	99 97 98 98 97	ND .275 ND ND ND	96 98 93 92 95	8 8 6 7 8	Q7M5811 Q7M5811 Q7M5811 Q7M5811 Q7M5811
dercury Selenium Silver Copper Zinc	ND ND ND ND	99 101 103 99 99	ND ND ND . 029 ND	107 98 96 97 95	3 7 12 7 7	Q7G5823 Q7M5811 Q7M5811 Q7M5811 Q7M5811

QUALITY ASSURANCE DATA

RCRA TCLP LEACHATE METALS ANALYSIS, (ME52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic Barium Cadmium Chromium Lead	ND ND ND ND ND	89 86 86 88 87	ND .573 .098 ND ND	90 83 84 86 87	4 4 5 3 3	Q7M5812 Q7M5812 Q7M5812 Q7M5812 Q7M5812
Mercury Selenium Silver Copper Zinc	ND ND ND ND	99 84 100 88 88	ND ND ND .044 .253	107 88 97 87 87	3 1 2 3 3	Q7G5823 Q7M5812 Q7M5812 Q7M5812 Q7M5812

QUALITY ASSURANCE DATA

RCRA TCLP LEACHATE BASE/NEUTRAL/ACID ANALYSIS, MS, (MS52)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
2,4-Dinitrotoluene Hexachlorobenzene Hexachloroethane Hexachlorobutadiene 2-Methylphenol	ND ND ND ND ND	97 108 43 47 90	ND ND ND ND ND ND	102 63 31 26 92	4 16 13 7 1	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
4-Methylphenol Nitrobenzene Pentachlorophenol Pyridine 2,4,5-Trichlorophenol	ND ND ND ND ND	80 81 82 64 86	ND ND ND ND ND	82 78 88 61 89	0 3 2 1 6	Q7C41923 Q7C41923 Q7C41923 Q7C41923 Q7C41923
2,4,6-Trichlorophenol	ND	83	ND	85	1	Q7C41923

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

QUALITY ASSURANCE DATA

RCRA TCLP LEACHATE (ZHE) VOLATILE ANALYSIS, MS, (MV50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Senzene Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	XD XD XD XD XD XD	93 89 89 93 76	ND ND ND ND ND	98 97 90 88 77	1 1 2 1	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
.,2-Dichloroethane .,1-Dichloroethylene Methyl ethyl ketone Tetrachloroethylene Trichloroethylene	88 88 88 88 88 88	94 87 75 90 94	77 77 78 78 78 78 78 78 78 78 78 78 78 7	104 86 89 92 94	2 1 1 2 1	Q7V4147 Q7V4147 Q7V4147 Q7V4147 Q7V4147
inyl chloride	ND	81	ND	79	3	Q7V4147
						<u></u>

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

	A159	B732	A121	A884	A158	B142	# OUT	
QC BATCH: Q7C41923	Leachate	(Semi-Vol	atile orga	anics by 1	MS)			
SAMPLE ID BLANK	90	92	92	96	91	67	0	
BLANK SPIKE	91	92	85	98	96	95	0	
EX63BEDP6A EX63BEDP6A MD	54 90	70 95	68 87	91 100	92 97	66 95	0	
EX63BEDP6A MS	88	92	83	101	96	94	0	
EX63BEDP6B EX63BEDP6C	76 80	73 76	78 79	94 96	94 97	84 83	0	
EX63BEDP6D	75	72	74	86	90	83	0	
EX63BEDP6E EX63BEDP6F	76 80	71 77	76 79	87 93	90 95	68 86	0	
EX63BEDP6G	82	79	82	93	94	79 77	0	
EX63BEDP6H EX63BEDP6I	25 86	63 83	31 80	92 96	95 99	81	0	
EX63BEDP6J EX63BEDP6K	80	75 76	77 79	92 94	95 93	72 74	0	
EX63BEDP6L	81	79	80	101	100	84	Ö	
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)		
SURROGATE ID	F044	# OUT		4.0		111		3 -4
QC BATCH: Q2F41909	Solid (Or	ganics by	GC-FID)				4.0	
SAMPLE ID	77	0						
BLANK BLANK SPIKE	73 75	0						
EX63BEDP5A MD	70	0						
EX63BEDP5A MS EX63BEDP6A	153 *	1						
EX63BEDP6G EX63BEDP6K	158 * 221 *	ī						
QC LIMITS	(39-130)							
OURDOCKER ID	F047	# OUT			4	7 7 7 1	柳柳	
SURROGATE ID QC BATCH: Q7H41924	1. The state of th		e compound	is by GC)				E (AE)
SAMPLE ID	454103131	*******		22/20/10/20				
	98	0						
BLANK								
BLANK BLANK SPIKE EX63BEDP6A	93 102	0						
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD	102 85	0						
BLANK SPIKE EX63BEDP6A	102	0						
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C	102 85 94 108 105	0 0 0 0						
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B	102 85 94 108	0 0 0						
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6D	102 85 94 108 105 99	0 0 0 0 0						
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6D EX63BEDP6D	102 85 94 108 105 99	0 0 0 0 0 0 0 0	RROGATE TI	n				
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6D EX63BEDP6E EX63BEDP6E	102 85 94 108 105 99 102 107	0 0 0 0 0 0 0	RROGATE II		robinhenv			
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6C EX63BEDP6C EX63BEDP6F A047 = 1,2-Dichlore B185 = Toluene-D8	102 85 94 108 105 99 102 107	0 0 0 0 0 0 0	A500 = F044 =	Decachlos 2-Fluorol	piphenyl	(GC)		
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6C EX63BEDP6F EX63BEDP6F A047 = 1,2-Dichlore B185 = Toluene-D8 B668 = Bromofluorol	102 85 94 108 105 99 102 107	0 0 0 0 0 0 0	A500 = F044 =	Decachlo	piphenyl	(GC)	cid	
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6C EX63BEDP6E EX63BEDP6F A047 = 1,2-Dichlore B185 = Toluene-D8 B668 = Bromofluorol A159 = 2-Fluoropher B732 = Phenol-D6	102 85 94 108 105 99 102 107	0 0 0 0 0 0 0	A500 = F044 =	Decachlos 2-Fluorol	piphenyl	(GC)	cid	
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6C EX63BEDP6E EX63BEDP6F A047 = 1,2-Dichlore B185 = Toluene-D8 B668 = Bromofluorol A159 = 2-Fluoropher B732 = Phenol-D6 A121 = 2,4,6-Tribre	102 85 94 108 105 99 102 107	0 0 0 0 0 0 0	A500 = F044 =	Decachlos 2-Fluorol	piphenyl	(GC)	cid	
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6C EX63BEDP6E EX63BEDP6F A047 = 1,2-Dichlore B185 = Toluene-D8 B668 = Bromofluorol A159 = 2-Fluoropher B732 = Phenol-D6 A121 = 2,4,6-Tribre A884 = Nitrobenzene A158 = 2-Fluorobipl	102 85 94 108 105 99 102 107 Dethane-D4 Denzene nol	0 0 0 0 0 0 0	A500 = F044 =	Decachlos 2-Fluorol	piphenyl	(GC)	eid	
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6C EX63BEDP6E EX63BEDP6F A047 = 1,2-Dichlore B185 = Toluene-D8 B668 = Bromofluorol A159 = 2-Fluoropher B732 = Phenol-D6 A121 = 2,4,6-Tribre A884 = Nitrobenzene A158 = 2-Fluorobipl B142 = Terphenyl-D	102 85 94 108 105 99 102 107 Dethane-D4 Denzene nol Denzene nol Denzene	0 0 0 0 0 0 0	A500 = F044 =	Decachlos 2-Fluorol	piphenyl	(GC)	cid	
BLANK SPIKE EX63BEDP6A EX63BEDP6A MD EX63BEDP6A MS EX63BEDP6B EX63BEDP6C EX63BEDP6C EX63BEDP6E EX63BEDP6F A047 = 1,2-Dichlore B185 = Toluene-D8 B668 = Bromofluorol A159 = 2-Fluoropher B732 = Phenol-D6	102 85 94 108 105 99 102 107 Dethane-D4 Denzene nol Denzene nol Denzene nol Denzene nol Denzene nol Denzene nol	0 0 0 0 0 0 0 0 SU	A500 = F044 = F047 =	Decachlo: 2-Fluorol 2,4-Dich	piphenyl	(GC)	eid	

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).

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

SURROGATE ID	F047	# OUT		
QC BATCH: Q7H41924	Leachate	(Herbicio	compounds by GC)	
SAMPLE ID	945	12		
EX63BEDP6G	101	0		
EX63BEDP6H	103	0		
EX63BEDP6I EX63BEDP6J	103 99	0		
EX63BEDP6K	100	0		
EX63BEDP6L	100	ŏ		
QC LIMITS	(30-130)			
QC BATCH: Q7H41924			compounds by GC)	
SAMPLE ID				
BLANK	98	0		
BLANK SPIKE	107	0		
EX63BEDP6A	83	0		
EX63BEDP6A MD	98	0		
EX63BEDP6A MS	88	0		
QC LIMITS	(30-130)			
SURROGATE ID	B816	A500	OUT	
QC BATCH: Q2P41910	Solid (Pe	sticide (pounds by GC)	
	11.00		514 Holden (150 Hold)	
SAMPLE ID	84	109	0	
BLANK BLANK SPIKE	118	127	0	
EX63BEDP5A MD	47	77	0	
EX63BEDP5A MS	45	72	Ö	
EX63BEDP6A	44	75	0	
EX63BEDP6G	46	76	0	
EX63BEDP6K	41	67	0	
QC LIMITS	(30-130)	(30-130)		
SURROGATE ID	B816	A500	OUT	
QC BATCH: Q7P41925	Leachate	(Pesticio	compounds by GC)	NO
		1000000000		
SAMPLE ID BLANK	98	98	0	
BLANK SPIKE	87	76	0	
EX63BEDP6A	108	118	Ö	
EX63BEDP6A MD	95	106	O	
EX63BEDP6A MS	92	101	0	
EX63BEDP6B	92	109	0	
EX63BEDP6C	99	109	0	
EX63BEDP6D	89	106	0	
EX63BEDP6E	96	109	0	
		ST	OGATE ID	
A047 = 1,2-Dichlor	oethane-D4		A500 = Decachlor	obiphenyl
B185 = Toluene-D8 B668 = Bromofluoro A159 = 2-Fluorophe B732 = Phenol-D6 A121 = 2,4,6-Tribre	benzene nol omophenol		F044 = 2-Fluorob	oiphenyl (GC) orophenylacetic-acid
A884 = Nitrobenzen A158 = 2-Fluorobip B142 = Terphenyl-D B816 = 2,4,5,6-Tet	e-D5 henyl 14	n-xylene		
* Values outside o	f method o	nuality co	rol limits	

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).

QUALITY ASSURANCE DATA SURROGATE SUMMARY REPORT

DAICH: Q/P4192	5 Leachate	(Pesticid	e compound	ds by G	C)		
SAMPLE ID							
EX63BEDP6F	96	109	0				
EX63BEDP6G	83	102	0				
EX63BEDP6H	97	109	0				
EX63BEDP6I	77	109	0				
EX63BEDP6J	93	112	0				
EX63BEDP6K	96	110	0				
EX63BEDP6L	100	107	0				
QC LIMITS	(30-130)	(30-130)					
URROGATE ID	A047	B185	B668	# OUT		- 1-1-	7 - 2
C BATCH: Q2V4130	Solid (Vol	atile org	anics by 1	MS)		 4 - X X - I	1000
SAMPLE ID	Cathala Atlant	7/3//		10.4			
BLANK	100	113	105	0			
BLANK SPIKE	96	104	94	o			
EX63BED2AG MD	102	103	83	Ö			
EX63BED2AG MS	108	95	83	0			
EX63BED6AG	102	100	104	Ö			
EX63BED6GG EX63BED6KG	102	95 108	91 105	0			
QC LIMITS		(81-117)					
C BATCH: 07V4147	Leachate (by MS)			
C BATCH: Q7V4147	Leachate (by MS)			
SAMPLE ID		Volatile	organics 1				
SAMPLE ID BLANK	109	Volatile	organics 1	0			
SAMPLE ID BLANK BLANK SPIKE	109 106	Volatile 99 94	organics l	0			
SAMPLE ID BLANK BLANK SPIKE EX63BEDP6A	109 106 110	99 94 95	105 98 101	0 0			
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SAMPLE ID BLANK BLANK SPIKE EX63BEDP6A EX63BEDP6B EX63BEDP6C	109 106 110	99 94 95	105 98 101	0 0 0 0			
SAMPLE ID BLANK BLANK SPIKE EX63BEDP6A EX63BEDP6B EX63BEDP6C EX63BEDP6D	109 106 110 104 104 107	99 94 95 93 97	105 98 101 98	0 0 0 0 0 0			
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SAMPLE ID BLANK BLANK SPIKE EX63BEDP6A EX63BEDP6B EX63BEDP6C EX63BEDP6D EX63BEDP6E EX63BEDP6E EX63BEDP6F	109 106 110 104 104 107 109 111	99 94 95 93 97 103 103 103	105 98 101 98 104 107 107 107	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
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A047 = 1,2-Dichloroethane-D4 A500 = Decachlorobiphenyl B185 = Toluene-D8 F044 = 2-Fluorobiphenyl (GC) B668 = Bromofluorobenzene F047 = 2,4-Dichlorophenylacetic-acid A159 = 2-Fluorophenol B732 = Phenol-D6 A121 = 2,4,6-Tribromophenol

A884 = Nitrobenzene-D5 A158 = 2-Fluorobiphenyl B142 = Terphenyl-D14 B816 = 2,4,5,6-Tetrachloro-m-xylene

* 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 107774

																	P	10. 1U	7771	
0	H. MATERIALS	CORP			P.C	D. BOX 551	 FINDLAY, OH 45839-055 	•	41	9-420	3-352	6								
PRO.	LOS CON	M (ice	u:	she	-(ZL E) PROJECT MAN	PROJECT TELEPHONE NO. (JOS) 772. ZOL 9 AGER/SUPERVISOR () Show	NUMBER OF CONTAINERS	Leisie	ALYS DICATE ARATE JTAINE	Ē	SIREC	(c)	13/3/3/	1	3/3	3//	//		
TEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	i	SAMPLE DESCRIPTION INCLUDE MATRIX AND POINT OF SAMPLE)		1	14	10	4	3)	34	4	//		REMARKS		
1	EX63BEDPGA	12121	1110	1		Clay one	SZNR Mix, lots of	LXI	-	-	1	1	1	4	1					
2	5X63BEDPGB		1101	1		105501	wet clay, little	- CI	1	1	1	1								
11	EX63BEDP6C		1059	V		med b	small cobble	- "	V	V	1									
1	EX63BEDP6D		1057	1		med clay,	Brown Szal wa little	e 11	V	1	1									
8	X63BEOPGE		095	V		Yellow.	cobble ITPH snow	0 11	V	1	1									
6	X63BEDP6F		0909	1		of cobb	roun said w lott	lı	V	1	1									
7	EX63BEDP6G		0832	J			rex clay, cobbb	11	V	-	1	L	V	1						
8	EX63BEDP6		0850	V		and the same of th	capple moist	11	L	tu	/									
8	X63BEDP6I		0936	V		Gallon	9 cobbie	- la	-	-	1									
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	4									SAN	IPLER'S				1	Bl =				



CHAIN-OF-CUSTODY RECORD

Form 0019 Field Technical Services Rev. 08/89

No. 107772

PROJECT CONTACT 6 20 8 M Ce Q com 2 PROJECT TELEPHONE NO. 6 20 8 M Ce Q com 2 PROJECT CONTACT 6 20 8 M Ce Q com 2 PROJECT MANAGER/GUPER/USOR SAMPLE DATE TIME S		NO. 101112
TRANSFERS	O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-055	1 • 419-423-3526
SAMPLE DATE TIME & SAMPLE DESCRIPTION SAMPLE DESCRIPTION POINT OF SAMPLE) REALIZED PLACE TIME & SAMPLE DESCRIPTION SAMPLE) FEX.638EDFORM 1 100 DECLES SAMPLE DESCRIPTION SAMPLE) FEX.638EDGG 1 0825 COLUMN SAMPLE	PROJECT CONTACT PROJECT TELEPHONE NO. [6208] M. Ke Quinter (508) 772-2019	WINDOWS IN I I I I I I I
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SAMPLER'S SIGNATURE O Bl		
	4	SAMPLER'S SIGNATURE OR BL

Appendix H

Material Shipping Records

IMPORTANT: This form is NOT to be used for the shipment of remediation wastes subject to management under section 310 CMR 40.0035 of the Massachusetts Contingency Plan nor is it to be used in lieu of a hazardous waste manifest for hazardous waste or recyclable materials subject to the Massachusetts Hazardous Waste Regulations 310 CMR 30.000.

Bureau of Waste Prevention

2-0662

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

A Location Information

AREE63BE - BLDG 2290			
Parlicuse carre (codicoal)			
NA NEAR QUEE	ENNSTOWN,	GIVERY and QUEB	EC STREET
Street	Locateon a	d 2225	De DINEEL
FT DEVENS	MA	- 01433	
City/Town	State	Zip code	
Date/Period of generation:	5. List addit.	ional tracking documents assoc	ciated with this
19 26/94 12/21/94	40		
From To	_		
U.S. EPA ID number:			
W27310035154	_		
MA7210025154			
21E release			
□ yes ⊠ no			
2 yes & 10			
James C. Chambers Contac name AFZD-BEO-Box 1	Dr.e.	Environmental O	IIIcer
Street applies			
Fort Devens	MA	01433	
(508) 796-3114	State	Zlp code	
Telephone number and extension		ŵ.	
Owner and/or Operator Information	п		
If the owner and/or operator is different from the generate	or as indicated in	Section B, provide the following	g information:
Check applicable: 🔲 owner 🖂 operato	or		
U.S. Army - Fort Devens			
Name of organization			
James C. Chambers	BRAC	Environmental C	fficer
Contac name AFZD-BEO-Box 1	Dice		
Street actives	22.2	04.100	
Fort Devens	MA	01433	

Rev. 3/94

Telephone number and extension



Massachusetts peparunent or environmental resocion.
Bureau of Waste Prevention

2-0662

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

D	Transporter/Common	Carrier	Information

	P.J.	Keati	ng C	ompar	19	N	/ A			N/A	
	<i>Common a</i> Mark	Nikit	as		Huzi	rdous wate lean	sa number (11 .	applicable,) Ua	easing state (II a	ppdcable)
Contact per:		Reserv	oir	Road		Title					
Street	Lune	nberg				MA				01462	
City/Town	(508) 582-	9931			State			Zφ	code	
Telephone n	number and a	odens ion									
Provide	the follow		ation on	the receiv	ving facility:	Build	ing 2	02			
Operator fra		c. c	hamb	ers		BR	AC En	viro	nmenta	al Off	icer
Contact pers		-BEO-B	ox 1		Fort	Deven:	s, MA		01433	3	
Telephone in	number and e facility: asphalt	batch/cold	mix		□ bundfill/dis	The same of the sa		hermal	processing		
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Massachusetts Department of Environmental Protection Bureau of Waste Prevention

Z - 066 Z Tracking Number

Material Shipping Record & Log

9

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

	7. Estimated volume of materials:
Ø As □ Cd Ø Cr Ø Pb □ Ho □ Na □ PC8s □ HVOCs □ PATH Ø VOCs Ø PAHs □ BNAs Ø TPH □ Other:	2605.5 cubic yards 3908.26 tons
DOT DOE	Tons
assite	Other
Analyses performed (check all that apply):	8. Contaminant source (check one/specify):
MAS M Cd M Cr M Pb M Ho □ Na M PCBs MHVOCs □ PATH M VOCs M PAHs □ BNAs M TPH M TCLP (inorganic) M TCLP (organic)	☐ transportation accident 20 ust ☐ other.
☑ Other:	describe
7th FLASH, PEAR (CN/S), PEST.	Indicate which waste characterization support documentation is attached
Screening performed	site history information
NONE	☐ sampling and analytical methods/procedure ☐ laboratory data ☐ field screening data
instrum ~ Usad	If supporting documentation is not appended, provide an attachment stating the date and in connection with what document such information was previously submitted to the
	cooperation read in the provider of the control of
Constituents	facility
	Draft Removal Action Report
Qualified Environmental Profession	Draft Removal Action Report
Qualified Environmental Profession T.S. Alving & Associates Harme of organization	Draft Removal Action Report
Qualified Environmental Profession T.S. Alving & Associates	Draft Removal Action Report
T.S. Alving & Associates Marke of organization Todd Alving	Draft Removal Action Report onal Opinion Licensed Site Professional



2 -0667

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

terre (print)

Certification of Generator

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

1/24/96
Jana,
1/24/26

Acknowledgment of Receipt by Receiving Facility

U.S. Army - Fort Devens - Bldg 202

Ascerving Facility

James C. Chambers

Representative (print)

Environmental Officer BRAC



2 -0662

Material Shipping Record & Log

Tracking Number

B. 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

Note: Make additional copies of this page as necessary.

_ Lodd information	
LOAD 0: 1307 /1 4	LOAD 0: 131
= V 11/1 / bear	Lan Cordio
3 100 10 10	
Signature of transporter	Storage of transporter
B. 202 Soil Storage Area-CellA	B. 202 Soil Storage Area
Aucativing facility	Receiving tacility
10-18-95	1118 10/18/95
Date received	Date received
11:15	1118
Time received	Time received
10-18-95	10-18.95
Date of shipment	Dete of stripment
Time of shipment	Time of shipment
MA C34867	MA E24095
Inut/rator registration	Inucl/Incctor mastration
MA 10207	MA 61631
Training reportation	Trailer negistration
49,080 Lb 24.54 ton	62,540 Lb. 31.27 ton
Load size (cubic yards/hors)	Load size (cubic palasztons)
	N 1 .
LOAD 4: 133	LOAD ! SH \ /
LUAD V: 1	10AU - 10AU -
	V Mus Makerill
Shanordonspore	Spranue of transporter
2/1 // 2 6110	B. 202 Soil Storage Area, CellA
BODD - Soit Storage Area CellA	Asserting badily
10-18-95	10-18-95
Date received	Date received
1128	_1.130
Time received	Time received
10.18.95	10-18-95
Date of shipment	Date of stripment
Time of shipment	Time of shipment
MA 22685	MA 32589
Truck/Truckor registration	Truck/Tractor registration
	MA 27020
MA 47499	
Indian malatration	Trailer registration
65,940 Lb / 32.97 ton	55,850 Lb. 1 27,92 ton
Load star (cubic yardsAons)	Load size (cubic yards/fors)

K Log Sheet Volume Information

233,410 lb Total volume this page (cubic yerds/lors) Page 1 01 35

Total carried boward (aubic parts/pris) 116,70 tons 233410 Total carried boward and this page (cubic partishors)



sary.

Make additional

copies of this

page as neces-

Bureau of Waste Prevention

Material Shipping Record & Log

-6162 Tracking Number

B. 2290 For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

LOAD 1:135 B.202 Soil Storage Arca, CellA Area, Call A B. 202 Receiving tadility Receiving Lacisty 10-18 95 10-18-95 Date received Date received 1143 1136 Time received Time received 10-18-95 10-18-95 Date of shipment Date of shipment Time of stylpment Time of shipment MAEYOUZR MAC34867 Truck/Tractor maistration Truck/Tractor registration MA 12363 MA 10207 Trailer registration Frailer registration 64,980 6 32 31.07 ton 62,140 L Load size (audic yards/lons) Load size (audic parcs/lors) LOAD 0: 138 LOADA Signature of transporter Signature of transporter B 202 Sail Storage Arca, CellA storage Acca, Cell A B.202 Receiving tadkity Receiving badily 10-18-95 Date received Doe received 1153 Time received Time received 10-18-95 Date of stripment Doc of shipmer Time of shipment Time of striament MA E 40038 Tract/Tractor registration MA Trailer registration 30.61 33,77 tons 101,220 Lb Load size (audic particulous) Load star (cubic yards/fors) 67540

K	Log	Sheet	Volume	Information
				/

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Total carried boward and this page (quoic parternos)

Pros 2 of 35



2-0662

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Note: Make additional copies of this page as necessary.

Load Information	
LOAD 0: 139	LOAD O: NHON
Q (1.5)	· MT/ 2001 d. Ap
X John Jun	x III IV (WVW)/ WVV
Bldg 202 Scil Staging Aren, Cell A	Sprann d thridank
BOING ACCORDED SINGING THEM, CELLER	Bldg 202-Soil Staging Area, Cell
10/18/95	10/18/95
ate received	Determinatived
1257	1301
ime received	Time received
10/18/95	10/18/95
ale of shipment	Date of stripment
line of stripment	Time of shipment
MA 22685	MA 32588
nco/Tractor registration	Truck/Tractor repositation
MA 47499	MA 27020
TO CON IN I SO CON I	Trailer registration
59680 Um/ 29.84 tons	54730 lbs/ 27,37 tens
and and former hands to all	Load size (cubic parashors)
DAD 0: 141	LOAD 4: 142
n/1 hand	(A) (C)
1/a /18 gr	X Clan Corolie
Consure of Paragoner	Spran d trasporer
Bldg 202-Soil Staging Asea, Cell A	Bldg 202-Soil Staging Area Celly
10/18/95	10/18/95
Date modelved	Date received
1313	1315
lime received ,	Time received
10/18/95	10/18/45
Parte of stripment	Dire of shipment
One of shipment	Time of shipment
MA C34867	MA E24095
nucl/Tractor registration	Truck/Tracker implishment
MA 10207	MA 61631
Frailer registration I.A. J	Traffer registration AD 1 - C / L
66420 No/ 33,21 tons	57200 lbs/28,6 tons
Load star (cubic yards/lons)	Load star (cubic yards/tors)

K Log Sheet Volume Information

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Total volume this page launce partitions	244, 64. tons
727320 Us/	363/datas
Inplication beautied this care (near entrined)	74 3,000 10112

Page 3 of 35



2-0662

Material Shipping Record & Log

Tracking Number

814 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Note: Make additional copies of this page as necessary.

Load Information	1.0.2
LOAD 1: 143	LOAD 0, 44
x III / land	11. 5.
Storature of transporter	Sonarur di transporte
Bildy 202 - Seil Staging Area Cell A	Bldg 202- Soil Staging Area, CellA
Receiving tadility	Receiving Section
10/18/95	10/18/95
Dee received	Delt received
Time ricehed	Time received
	10/18/93
Date of stripfneni	Date of stripment
Pime of shipmeni	Time of shipmani
MA E46038	MA 23685
Inucl/Incommodistration	Truck/Tractor registration
MA 12363	MA 47499
India negation	Trailer ingistration
Load stat (quotic yards/tons)	Load size (cubic partishors)
1 111.	1116
LONOV: 175	LOAD 1: 140 1 A
All III man VVV	v 11/20 11/902
Sprange of paraporter	Storage of transports
Bldg 202 - Scil Staging Area, Cell A	Bldg 202 - Soil Staging Asea, Cell.
Receiving tacities	Perceiving tadily
10/18/95	10/18/95
Date received	Date received
1335	1341
Time received	Time received
10/18/95	10/18/95
Date of stripment	Date of shipment
Time of shipment	Time of shipment
MA 32588	MA C34867
Inucl/Tractor registration	Fruct/Fractor registration
MA 27026	MA 10207
Trailer registration	Trailer registration
70950 lbs / 35,48 tons	59380 lbs/29,69 tons
Load stat (cubic yards/lors)	Load size (cubic yards/Aors)

Log Sheet Volume Information

Total carried lorward (cubic yards/lors) Total carried boward and this page (quoic parts/lors)

Page 4 01 35



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Material Shipping Record & Log

Tracking Number

2-0662

Bldg 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

LOAD #: 131 Date of shipme Time of shipment E24095 MA Inuct/Iractor registration 6163 Frailer registration 26.46 tens Load stat (cubic yards/tors) LOAD 4: 150 Receiving talking Date of stylpmen Time of shipment MA 22685 Truck/Tractor registration

Separation of transporter Bldg 202 - Soil Staging Area, Cell 10/18/95 The received 1353 The received 10/18/95 The of stripment MA E40038 Trailer registration MA 12363 Trailer registration TO 400 Usa/35.2 Tons and size (audic protectors) LOAD 4: 151 X Separation of transporter Bldg 202 - Soil Staging Area, Cell Receiving tagility 10/18/95 Date of stripment 1402 The received 10/18/95 Date of stripment 1402	LOAD 4: 149	n Bloom
Bldg 202 - Soil Staging Area, Cell According tackly 10/18/95 Date of shipment Time of shipment MA E40038 Trailer negativation MA 12.363 Trailer negativation MA 12.363 Trailer negativation A 12.363 Trailer negativation LOAD 6: 151 X September of transported Bldg 202 - Soil Staging Area, Cell Preceiving tacking 10/18/95 Date notified 1402 Time neceived 10/18/95 Date of shipment	Sharper of Francisco	1. Color
The received 1353 The received 10/18/93 The of shipment MA E40038 Trailer registration MA 12363 Trailer registration 70400 May 35.2 Tons LOAD 4: 151 X Signature of transported Blidg 202-Soil Staging Area, Cell Received 1402 The received 1402 The received 10/18/95 Does of shipment	BIJ. 20.	1- Soil Steplan Acon Col
The received 1353 The received 10/18/93 The of shipment MA E40038 Trailer registration MA 12363 Trailer registration 70400 May 35.2 Tons LOAD 4: 151 X Signature of transported Blidg 202-Soil Staging Area, Cell Received 1402 The received 1402 The received 10/18/95 Does of shipment	Problem brills	Soit staging thea cel
The received 1353 The received 10/18/93 The of shipment MA E40038 Trailer registration MA 12363 Trailer registration 70400 May 35.2 Tons LOAD 4: 151 X Signature of transported Blidg 202-Soil Staging Area, Cell Received 1402 The received 1402 The received 10/18/95 Does of shipment	La lice	ar
Time of shipment MA E40638 Finally received registration MA 12363 Failur registration 70400 Ubs/35.2 Tons and size (autic protectors) LOAD 4: 151 **Signature of transported Blidg 202 - Soil Staging Area, Cell Received 1402 Time received 10/18/95 Date of shipment	10/18/	75
Time of shipment MA E40638 Finally received registration MA 12363 Failur registration 70400 Ubs/35.2 Tons and size (autic protectors) LOAD 4: 151 **Signature of transported Blidg 202 - Soil Staging Area, Cell Received 1402 Time received 10/18/95 Date of shipment	13E3	
Time of shipment MA E40638 Finally received registration MA 12363 Failur registration 70400 Ubs/35.2 Tons and size (autic protectors) LOAD 4: 151 **Signature of transported Blidg 202 - Soil Staging Area, Cell Received 1402 Time received 10/18/95 Date of shipment	100 -	150
Time of shipment MA E40638 Finally received registration MA 12363 Failur registration 70400 Ubs/35.2 Tons and size (autic protectors) LOAD 4: 151 **Signature of transported Blidg 202 - Soil Staging Area, Cell Received 1402 Time received 10/18/95 Date of shipment	10/18/	91
Time of snipment MA E40038 Truck/Truck repostation MA 12363 Trailer repostation 70400 Ups/35.2 Tons and size (autic partichors) LOAD 4: 151 X		
MA E40038 Incidit recovery repostration MA 12363 Institut repostration 70400 Ups/35.2 tons and size (audic protectors) LOAD #: 151 * Signature of transfortel Bldg 202 - Soil Staging Area, Cell Receiving taglity 10/18/95 Date incidence 1402 Three received 10/18/95 Date of strigment	Unite of Statistical	
MA E40038 Incidit recovery repostration MA 12363 Institut repostration 70400 Ups/35.2 tons and size (audic protectors) LOAD #: 151 * Signature of transfortel Bldg 202 - Soil Staging Area, Cell Receiving taglity 10/18/95 Date incidence 1402 Three received 10/18/95 Date of strigment	n. dimeni	
Track reposition MA 12363 Trailer reposition 70400 Ups/35.2 Tons and size (audic perticions) LOAD 4: 151 **Suprimure of transfortel Blag 202 - Soil Staging Area, Cell Receiving beging 10/18/95 Date incolved 10/18/95 Date of stigment		HAGSE
MA 12363 Trailer mossiation 70400 Ubs/35.2 Tons and size (audic protestors) LOAD 4: 151 X Signature of transportel Bldg 202 - Soil Staging Area, Cell Pecating beging 10/18/95 Date mostered 10/18/95 Date of stignant		70000
Total Proposition 70400 Ups/35.2 Tons and size (audic pertishors) LOAD 6: 151 * Signature of transporte! Bldg 202 - Soil Staging Area, Cell Perceiving begins 10/18/95 Date incolved 1402 Three received 10/18/95 Date of stripment	Truck/Tractor registration	- 2/2
Total Proposition 70400 Ups/35.2 Tons and size (audic pertishors) LOAD 6: 151 * Signature of transporte! Bldg 202 - Soil Staging Area, Cell Perceiving begins 10/18/95 Date incolved 1402 Three received 10/18/95 Date of stripment	MAI	2363
LOAD #: 151 * IN MINING TO ME SUPERIORS) LOAD #: 151 * IN MINING TO ME SUPERIOR AS EA, CELL PRICE PROCEIVED 140-2 Time received 10/18/95 Date of shipment	Tradler movement	
LOAD #: 151 * IN MINING TO ME SUPERIORS) LOAD #: 151 * IN MINING TO ME SUPERIOR AS EA, CELL PRICE PROCEIVED 140-2 Time received 10/18/95 Date of shipment	70400	Un 35.2 Tons
Signature of transfortel Signature of transfortel Blag 202 - Soil Staging Area, Cell Pecation positive 10/18/95 Date incontract 10/18/95 Date of stripment	Load size (cubic yards/fon	5)
Signature of transfore! Bldg 202 - Soil Staging Asea, Cell Preceiving taglity 10/18/95 Date incorred 10/18/95 Date of stripment		
Signature of transfore! Bldg 202 - Soil Staging Asea, Cell Preceiving taglity 10/18/95 Date incorred 10/18/95 Date of stripment	1-1	
Signature of transfore! Bldg 202 - Soil Staging Asea, Cell Preceiving taglity 10/18/95 Date incorred 10/18/95 Date of stripment	LOAD #: 131	^
Signature of transported Blag 202 - Soil Staging Asea, Cell Pecching begins 10/18/95 Date incolved 1402 Three received 10/18/95 Date of shipman	1.71	MI MINI
Bldg DOD-Soil Staging Area, Cell PRICEING SEGURY 10/18/95 DOMN INCOMENT 1402 Three received 10/18/95 DOME OF SHIPTMENT	7.71	100
Place Hung Seditive 10/18/95 Date incolved 140-2 Time received 10/18/95 Date of shipment	Storenum at transported	01151 1 61
Place Hung Seditive 10/18/95 Date incolved 140-2 Time received 10/18/95 Date of shipment	Bldg 1202	- Soil Staging Area Cell
10/18/95 Date motived 140-2 Time received 10/18/95 Date of shipment	Receiving backly	"
Time received 10/18/95 Date of shipman	10/18/9	5
Time received 10/18/95 Date of shipment	One more	
Time received 10/18/95 Date of shipment	1467	
10/18/95 Date of shipment		<i>i</i>
10/18/75 Date of shipmani 1400	Time received	ar .
Date of stripment	10//8/	73
1400	Date of stripment	
	1402	
Time of shipment		
		1566
MA_ 32588		7200
Inicit/Tractor registration		45.65.746
MA 27020	MA	17020

K Log Sheet Volume Information

MA
Trailer registration

Load stat (cubic yards/lons)

71280

257450 Us/ 128.73 tons

Total volume this pass (artist parts)

985110 Us/ 492.56 tons

Total carried provint (artist parts)

1242560 Us/ 621.29 tons

Total carried provint and this pass (artist parts)

Paga 5 of 35

Load star (cubic partis/tons)



Material Shipping Record & Log

2 - 6662 Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Note: Make additional copies of this page as necessary.

LOAD 0: 153
x 6 Dm Cardio
Signature of transporter
Bldg 202- Cell A, Soil Staging As
10/18/95
Clear received
1407
10/18/95
Date of shipment
Pirme of shipment
MA E24095
MA 6163
Exilier monthstorn
57880 lbs/28,94 tons
Load size (cubic yards/tons)
155
LOAD #: 13 P
X true
Supering to transport of
Budgaca, Scil Staging Area, Cell,
10/18/95
Date received
1428
10/18/95
Dies of shipment
Time of shipment
MA 22685
Inuct/Tractor registration
MA 47499
71780 lbs/35.89 Tons

K Log Sheet Volume Information

254380 lbs/	127,19 tons
Total volume this page (artist work fors)	621, 29 tons
Total carried boward (cubic parts/lons)	
149 6940 Ubs/	748,48 lons

Page 6 of 35



Material Shipping Record & Log

2 - 4662 Tracking Number

2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Note: Make additional copies of this page as necessary.

Luau illiormation	
LOAD 0: 156	LOAD 6: 157
$M M_{\odot} M_{\odot}$	17 /
XIII U CONTO CONTO	X from Unter
Storature of transporter	Signature of Europorter
Bldg 202 - Soil Staging Area, Cell A	Bldg 202- Soil Staging Area, CollA
Pecahling facility	Aucething tadility
	10/18/75
Date received	Date received
	1441
Time received to Lo 197	10/18/95
10/18/95	
Date of shipment	Date of shipment
Pime of shipmeni	Time of shipment
MA 32588	MA 030699
Inucl/Incitor impistration	Truck/Tractor registration
MA 27020	MA 12367
Trailer registration 11 / -:	Trailer negistration
63770 lbs/31.89 tons	LOND SIZE (CAUSE PRINS/ORS)
Load stat (cupic yards/fors)	Load size (cubic yards/fors)
LOAD 0: 15%	LOAD 4: 159
LUAU 1719 B	LUAU V. 15
xIIId /isam	X W Son Condle
Signature of transporter	Signature of transporter
Bldg 202 - Soil Staging Area, CellA	Bldg 202 - Soil Staging Area Cell
Receiving taditity	Receiving tadility
10/13/93	10/18/95
Date received	Date received
1443	1447
Time received	Time received
10/18/95	10/18/95
Dire of shipment	Does of stripment
Time of shipment	Time of shipment
MA C34867	MA E24095
Inucl/Inuctor registration	Inact/Tractor registration
MA 10207	MA 61631
Trailer majoritation	Trailor moistration
66280 Us / 33,14 tons	50040 lbs/ 25,02 tons
Load star (cuck: yards/ors)	Load star (cubic partishors)

Log Sheet Volume Information

Total carried boward and this page (cubic partis/ord)

Page 7 of 35



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2-0662

Material Shipping Record & Log

Tracking Number Bldc 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information LOAD #: 160 LOAD Receiving backly Receiving Ladity Time of styloment Time of shipment E40038 Truck/Tractor registration Inuct/Iracitor registration MA 12363 27020 Trailer moistration Trailer registration 30.05 Load size (audic yards/lors) Load size (autic parts/fors) 0 Time received Date of stripmer Date of shipment Time of shipment Time of shipment D30699 22685 MA Truck/Tractor moistration Tract/Tractor registration MA MA 2367 Trailer registration Trafler registration

K Log Sheet Volume Information

Load stat (cubic yards/lons)

226390 lbs/	113.2 tons
Total volume this page (qubic vents/fors)	
1731590 lbs/	865. 81 Tons
Tabl carried boyant and this pane (quark entity form)	11101 1012

Paga 8 of 35

Load stat (audic particulous)



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2-0662

Material Shipping Record & Log

Tracking Number

3/dg 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

1/1/	1//-
LOAD 0: 164 4	LOAD #: 168
x/1/22 //23cm	v si som (molis
Signatura di transponer	Storature of transporter
Bldg 202 - Soil Staging Area, Cell A	
Receiving laciety	Bldg 202-Soil Staging Area, Cell A
10/18/95	10/18/195
Date received	Dear received
1514	1519
Time masked	Time received
10/18/95	10/18/95
Date of shipment	Date of stripment
Dime of snigment	Time of phymeni
MA C34867	MA E24095
Inuat/Incator majoration	Inact/Inactor most station
MA 10267	MA 61631
rathe mostration	Trailer modification
62740 lbs/31.37 tons	56920 Us/28.46 tons
and size (audic yeroshoro)	Load size (cubic parts/tons)
17.6-	1/ ¬
LOAD 1: 1500	LOAD 0: 167
1/2 /2/25	x Mal Doorte
Sprange of transporter	Storature di transporter
	Bldg 202- Soil Staging Area, Cell
Bldg 202- Soil Staging Area, Cella	Amost solly
10/19/01	10/19/95
Date received	Date received
0813	0818
10/19/95	Time received 10/19/95
	20/11/15
Date of stripment	Ove a styrman
MA E40038	_MA = C34867
Time of shipment	Time of shipment
MA 12363	MA 22685
Truck/Tractor registration	Haracon alexande
Trailer moistration	Trailer registration MM
6/240 lbs/30.62 tens	64920 lls/3276 tons
Load star (cubic yards/fors)	Loud the (cubic vertebook)
Andrew College Ass.	60620 lbs/30.31 tons
	00000 / 2001 000

H	Log Sheet Volume Information
241520	245820 lbs/ 122.91 tons 20.76 Page 9 01 35
-	195 7980 lbs/ 979, 01 tons
219500	2203800 Ups/ 1401.92 tons 1699,77
	Total carried lorward unitying page (cubic parciafors)



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Load size (cubic parasitors)

Z - O 6 6 Z

Material Shipping Record & Log

Bldg 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information LOAD 0: 168 Bld, 202-501 booking Ladilly Pacatring belli 0847 084 Time received Time received Dee of striams Date of shipme Time of shipment Time of shipment E40038 C34867 MA Truck/Tractor mais tracon Truct/Tractor registration 22685 MA MA 12363 Trailer registration Trailer moistration Tons Load size (audic yards/lons) Load size (cubic pross/lons) 30.8 61600 LOAD 4: 170 LOAD #: 1 Receiving tacking Date received Date received Time received 10 Dave of stripment Time of shipment Time of shipment C34867 MA 540038 Truck/Tractor registration Incl/Inch nostaton MA 1236 Trailer registration () Tons

Lord da (audic parts Aons)

59580

246240 254840 Wa / 127.42 tons 123.12 page 10 of 35

2199500 2203800 Ws / 972 1101.92 tons 1099.77

2445740 2458640 Wa / 1229.34 tons 1222.89

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Tracking Number

Bldg 2290

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information LOAD #: 172 LOAD 4: 1,7 Signature of transporter Staging Asea, Pacetting Littly Receiving Ladding 10/19 Date received 0940 095 Time received Time worked Date of STHOTHAN Date of stylen Time of shipment Time of shipment C34867 MA E40038 MA Truck/Tractor mais area Fruct/Fractor registration 22685 MA 12363 Trailer registration frame mostrator Tons (362) ED Load size (cubic parasitons) 31,31 LOAD #: Signature of transporter Bldg 202- Soil Stasing 008 101 Time received One of stypmen Date of stylpmen Time of shipment Time of shipment 22485 MA 32588 fruct/fractor majoration Invot/Inactor registration MA 47499 MA 27020 Trailer moistration Trailer registration 28.30 tons 59900

Load star (outic parostons)

243890	248 19 0		121.95	Page 11 of 35
2445740	I volume my proce lavoc po	1000)	1772.59	1494 <u>11</u> 01 <u>33</u>
Tog	al arried broad (aubic para	(01)	1000101	
2689630 =	2706830	Us/ 1353:44 tons	1344.84	
Toc	of carried bread and one pa	ox (and humana)		

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2 -0662

Material Shipping Record & Log

Tracking Number

Bb/9 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information	
LOAD 176	LOAD 0: 177/
× h don Cordio	x MM
Signature of transporter	Signature of transporter
Bldg 202 - Soil Staging Area, Cell A	Bidg 202 - Soil Staging Area, Cell A
Рисання факт 	Auce-Ming badley 10/19/95
	Date received
1025	1035
Time received	Pres received
_ 10/19/95	10/19/93
Date of strictment "	Date of stripment
Pine of shlomeni	Time of shipment
MA B44609	MA 32588
Indi/India nostrea	Incollector mostration
MA 21421	MA 27020
57420 lbs/28,71 tons	57290 lbs/28.65 tens
Load size (audic partishors)	Load size (cubic parts/forts)
Signature of transporter Signature of transporter Bldg 202- Soil Staging Area, Cell A Receiving textures 10/19/95 Date received 10/19/95	Signature of transference Staging Area, Cell Resolving tection 10/19/95 Date received 10/19/95
Time of stripment MA C34867 Inuck/Inuckr registration MA D2685 Inular registration MA D3685	Time of shamen MA E40038 Tinact/Tractor reportation MA 12363 Trailer reportation
5.660 lba/ 28.33 tons 1000 das (2004 parastors) 52360 26.18	59820 Mbs/29,9/ tens

K	Log Sheet Volume Information	
226890	23/190 lbs/ 1/3,6 tens 113,45	Page /2 of 35
2689630	2766830 Us/ 1353.44 tons 1344.84	
2916520	2733020 Us/ 1469.04 tons 1458,29	
	Total conted bygged and this book (autor perturbed)	

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aterial Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Com Conduction Blog 202-Scil Staging Afrea Blog 202-Scil Staging Afrea Both 10/19/95 But most of 10/55 The most of MA B44 609 MA 21421 The most and The properties of MA 21421 The most and The properties of Th
Bldg 202 - Scil Staging Area Gentling Island In 10/19/95 10/19/95 10/19/93
I D / 19/95 TO 55 THE RESTRICT IC/19/93 THE OF STRICT THE OF
I C J 9 / 93 The distribution of the property of the distribution of the property of the prop
1055 The activation of IC/19/93 The of shipment of the properties of MA B44609 THE OFFICE OF ACCUSTORS MA 21421 THE OFFICE OFFI
The received IC/19/93 We of shipment Ime of s
ine of shipment MA B44609 ACCUTACION POSTERION MA 21421 THE INTERIOR POSTERION 56080 Us/28.04 Tons
MA B44609 MA 21421 56080 Us/28.04 tons
MA B44609 MA 21421 56080 Us/28.04 tons
MA 21421 56080 Us/28.04 tons
56080 Us/ 28.04 tons
56080 Us/ 28.04 tons
144
.OAO 1: 183
X M. Poleton
Constant of transporter
Bldg 202-Soil Staging Area,
10/19/95
Date received
1110
Time received 10/19/95
Diet of sNipment
Time of shipment
MA E40038
MA 12363
Trailer registration
5 1160 lbs/ 28.58 tons
Load star (quote particulors)
1



2-0662

Material Shipping Record & Log Tracking Number

B169 229(

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Note: Make additional copies of this page as necessary.

Load Information	
LOAD 0: 184 /	LOAD 4: 185
x Na Mas	× 18 See
Signature of transporter	Stormany of Tamaporter
Blda 202-Soil Staging Area CellA	BUG 202 - Soil Staging Area, CellA
10/19/95	Ascerting badility J
Date received	Delta received
1112	1117
10/19/95	10/19/95
Date of shipment	Diese of shamen
Fine of shiomeni	Time of shipment
MA C34867	MA 22685
MA 22685	MA 47499
Intel mostato)	Trailer mostration
635 de Ms/ 31.74, Tons	55040 Ms/27.52
1000 star (0x00c partis/oris) 29.61	Load site (cubic parts/lors)
LOAD 1: 1860	LOAD 1: 183 N 1
· to Dan Condis	x Tillante
Soprature of transports	Storage of transporer
Bldg 202-Scil Staging Area, CellA	Bldg 202- Soil Staging Area, Cell A
10/19/95 Date received	Allocations and the second sec
Date received	Date received
1190	
10/19/95	Time received 10/19/95
One of shipment	Due of stranger
Time of shipment	Time of shipment
MA B44 609	MA 32588
MA 21421	MA 27020
Traffer registration	Trailer registration
61200 Ms/ 30,6 tons	59470 lbs/29,74 tens
Load stal (cubic yardsAons)	Load star (cubic pards/tons)

Log Sheet Volume Information

Total volume this page (arox parts fors) 3142130 lla Total carried broad (auto partitions) 3377060 Total carried brivard and this page (cubic parts fors)

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Material Shipping Record & Log

Tracking Number

Oldg 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

Note:			
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Load information	
LOAD #: 1585	LOAD 0: 189 /1 9
	11/1/ //858-
x ph what	x 1/2/10/
Storature of transporter	Storanua di transporter
Bldg 202- Soil Staying Area, CellA	Bldg 202 - Sail Staging Area Cell A
Receiving Ledity J J	residently activity
10/19/95	10/19/95
Use ricarrot	Date received
1136	1142
Time received	Time received
10/19/95	10/19/95
Dale of stitutheni	Date of stripment
Time of shipmeni	Time of shipment
MA E40038	MA CO4867
Fruct/Fractor moustaneon	Truck/Tractor reportmenton
MA 12363	MA 22685
Trailer moretration	Too by marketing
58600 lbs/29.3 tons	LOND ELE (CADIC PRISADOS)
Load stre (audic varishors)	Lord size (cubic contribute)
The second of the second of	Paragraph Paragraph (Control of
10.5	144
LOAD 1: 190 V	LOAD 0: 19th
	× 6 den Condis
X James	
Sprange Thispare	Signature of transporter
Area Cella Receiving today	Bidg 202 - Soil Staging Area, Cell A
Receiving tacking	Alcoholog bally S
10/19/95)c/19/95
One received	Dee mosked
1144	1149
Time received 1 - h	Time received
10/19/95	10/19/95
Dee of stripmers	Diese of striament
Time of shipment	Time of shipment
MA 22685	MA 1344669
Inuct/Inuctor registration	Indultrator registrator
MA 47499	MA 21421
Trailer registration /	Trailer registration /
53400 Us/ 26.7 tons	60320 Us/30,16 tens
Load da (cubic yards/ors)	Load stat (cubic particulars)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

K Log Sheet Volume Information

232 680 lbs/	116,34 tons
3377060 lbs	688,57 tons
3609740 lbs	1804.91 tos

Paga 15 of 35

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page as neces-

Bureau of Waste Prevention

2-0662

Material Shipping Record & Log

Tracking Number

Bldg 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information LOAD 4: 193 Signature of transporter According Lacific Receiving tadility 10/19 DOE N' COLOTTA Dave of stylamen Time of shipment Time of shipment E40038 MA Incollector maistration Fruct/Tractor registration MA 12363 27020 Trailer registration Trailer registration 26.09 56710 Load size (audic partis/lons) Loud size (cubic parts/fors) LOAD 1: 194 Signature of Fart pone B.202 Blda 202-Soil Receiving tack Receiving badling 10/19/9 Our received Date received 1302 1303 Time received 0 Date of stylamen Time of shipment Time of shipment MA 22685 MAB44609 Inut/Inch reparation Inct/Incorreportation mp 47499 MA 21421 Trailer registration Trailer registration 23.76 ton 340 47,520 Lb Lord star (cubic particulors) Load das (cuok yards/lons) Log Sheet Volume Information 20 5750 lbs 102.87 ton Page 16 of 35 Total volume this page (arbic process)

1804.91 tons

907,78 tons

3669740 Us TOOL COLOR DISTRICTION TO NO. 1005/ 3815490 No.

Total carried boneard and this page (autor phreshors)

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Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under

section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 2290 Load Information DAD 0: 196 Spranure of transporter Soil Storage Area Cell A B 202 B. 202 Soil Storage Area, Cel Receiving Ladilly Perceiving tedity 10/19/ 10 119195 Date received Date received 1315 1315 Time received Time received 195 10/19 10 Date of shipment Date of stripment Time of shipment Time of phomeni MA C34867 MA 32588 Inuct/Incor maistration Incol/rector reportation MA 22685 MA32588 MAZ7020 Trailer registration 52,280 Lb. ATT 58030 Lb. / 29.01 ton 26.14 ton Load size (audic partis/lons) Load size (cubic parcelons) LOAD 1:198 Soil Storage B. 202 Soil Storage Area, Cell A Awarding badley Receiving taditity 10/19 10/19 Date received 13.80 132 Time received Time received 10/19/95 10/19 Does of stripment Date of stripment Time of shipment MA 226 85 MAE40038 Fruct/Fractor registration Truck/Tractor registration MA 47499

MA 12363 Traffer mois traffon 58,220 Lb. 29.11 ton Load day (outle partis/lors)

K Log Sheet Volume Information

218,690 Lb. 109.34 ton Total volume this page (cubic participats)

Page 17 of 35

Traffer mostration

Load stat (audic parastors)

50,160 Lb

3815490 lbs

1907.78 ton

Total carried boward (autic parts/bos) 4034,180 06

2017.12 ton

Total carried boward and this page (quoic parcialors)

Rev. 3/94

25.08 ton

sary.

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page as neces-

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Tracking Number

Material Shipping Record & Log

ials not subject to management and

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information LOAD 1: 200 10AD 1:20 Signature of transporter Storage Area, CellA B 202 13.202 Receiving Ladilly Receiving tadilly 10/19/95 10/19/95 Date received Date received 1340 1336 Time receive 195 119195 Date of stripment Dee of stypment Time of stylament Time of shipment MA B 44609 MA C34867 Truck/Tractor registration Inca/Inch reported on MA 21421 MA 10207 Trailer mossration frater mostration 28,23 ton 25,94 tor 56,460 lbs. 51880 16. Load size (Quoic partis/loris) Lord are (audic parts fors) LOAD 1: 20 LOAD 1: 2472 Sloverum of transporter Soil Storage Area Cell A B. 202 So.1 Storage Area, Cell A Receiving bodily Receiving facility 10/19 10 Date received Date mostved 1340 1352 Time received Time received 10/19 10/19 Date of stripment One of strament Time of shipment Time of shipment MA 32588 MAE40038 Iruct/Iractor registration Inct/Inctr reportation MA27020 MA 12363 Trailer registration Trailer registration 29.21 ton 28.72 ton 57,450 lb 58,420 Lb Load stal (Quok parasitors) Lord star (audic partitions) K Log Sheet Volume Information 224,210 Lb 112.10 ton Page 18 of 35 Total volume this page (avoic paras/lors) 4,034,180 2017.12 ton Total carried broad (autoc parts/lors)

2129,22 ton

1001 carried broard and this pace (asice processors)

Material Shipping Record & Log

Tracking Number

B. 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J	Load	Informat	tion
	2000	minu	1011

Note: Make additional copies of this page as necessary.

1205 and
Lan Cordis
A Shorten of bareagons
AB. 202 Soil Storage Arca, Coll A
Receiving backly
10/19/95
Date received
1400
10 19 19 5
Date of structural
Filme of shipment
MA B44609
Truck/Trucky registration
MAZ1421
Frank mostation
45,060 Lb. / 22,53 ton
Last site (askit prositions)
Source of transport B. 202 Soil Storage Aron, Cell A Receiving boilty 10 [19 95 Date noured 1407 Time received 10 [19 95 Date of shipment
Time of shipment MA32588 Fract/Tractor inpostration MA27020 Trailler inpostration 55,770 hb. 27-88 ton

K Log Sheet Volume Information

211,010 lb. / 105,50	Paga 19 of 35
1001 roture in is pase (asix partitions) 4, 034, 4258, 390 lbs. / 2129.	. 22 ton
4,469,400 lbs / 2234.72	ton

sary.

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page as neces-

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Material Shipping Record & Log

Tracking Number

2-1662

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information LOAD 1: THE LOAD #: B. 262 Soil Receiving Laddly Ascerving bad lity & 10/19/95 10/19/9 Date received 1428 1421 Time received 119 195 10 10 Date of stroment Does of stripment Time of solument Time of shipment MAE40038 MA22685 Incol/ractor maistration Inct/Incor registration MA 12363 MA 47499 Fra let registration Frailer modistration 28.99 ton 57,980 Do Load size (audic parasitors) Lord size (audic parts/fors) 115, DAO, LOAD LO Signature of transporter B. 202 Soil Storage Storage Area Cell A B. 202 Receiving tadilly Receiving taditity 10/19 10 Date received Dome received 1434 1430 Time received Time received 95 10/19 10 Dare of stylpment Owe of phinment Time of stripment Time of shipment MA 32588 MA B44609 Inuct/Inuctor mastration Inct/Incor registration MA 27020 MA 21421 Traffer moistration Trailer registration 28.87 6 27.41 54,830 Load star (cubic yards/lors) Load star (audic parastons)

Log Sheet Volume Information

230,790 lb.	115.39 ton
Total volume this page (cubic partitions)	
1 coll OOP, POP, N	2234,72 ton
Total carried bread (autoc parts/ors)	
4,700,190 lb	12350,11 ton
Total carried boward and this pape (quote rents/lors)	-

Page 20 of 35

Tracking Number

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

I nad Information

Note: Make additional copies of this page as necessary.

LOAD 0: 212/	2.2
Val home	LOAD 0: 213
Signature of transporter	Sponkrum of transporter
B. 202 Soit Storage Arec	4. Cell B. 202 Soil Storage Area, Cell
Receiving Lacility	Parceloting badility
10/19/95	. 10/19/95
Date received	Deter received
1436	1448
Time movined	Time received
10/19/95	10/19/95
Dale of stripment	Date of shipmani
Time of shipment	Time of shipment
MA C 34867	MA E40038
Inucl/ractor majstration	Inuci/Inuci/ reportation
MA 10207	MA 12363
(00 020 lb. 30.01 to	on 58,520 lbs. / 29.26 ton
(00, 020 lb. 30.01 to	on 58,520 lbs. / 29.26 ton
Spranse of DAN Recording today 10/20/95	Sprange of glaspores B 202 Soil Storage CellA Recarding badily 10 20 195
Date received	Date moshed
0815	0816
Time received	Time received
10/20/95	10/19/95
Date of shipment	Dute of shipment
Time of shipment	Time of shipment
MA B44609	MA 22685
Truck/Tractor inglistration	Inst/Instar registration
MA21421	MA 47499
-Traffer majistration	Traffer registration
60,400 eb 30.20 ton	57,180 Sb. / 28,59 ton
Load star (cubic yards/fors)	Load stat (cubic yards/fors)

K Log Sheet Volume Information

236,120 lb 118,06 ton

4700 190 lbs/ 2350.11 tens Total carried boward (cubic parts/lons)

1001 carried boward and this pape (cubic forces, post)

Page 21 of 35



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Tracking Number

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 B. 2290

oad Information B. 202 Sul Storage B 202 Receiving tacility Receiving ladily 10/19 10/20/ Date received Date received 0820 0818 Dame received 120 195 10/19 10 Time of phipment Time of styloment MA 32588 MA C34867 Incl/Inclor malstration Truck/Tractor registration MA 27020 MA 10207 Trailer registration Trailer moistration 30.25 ton 60,500 lb. 28.13 ton 56270 Load size (quoic yeros/lors) Load size (cubic yests/lons) LOAD 1:218 LOAD 0: 219 Soil Storage Area, CellA Soil B 202 Receiving badility Receiving taditity 10/20/95 10/20 195 Date received Date received 0822 OPRO Time received Time received 10/19/95 10 120 195 Date of shipment Dave of striament Time of stripment Time of shipment MA 1344609 MA E40038 Inuct/Iractor registration Truck/Tractor registration MA 12363 MA 21421 Trailer moustation 55, 74016. Trailer registration 27.87 ton 58,520 lb 29.26 ton Load star (outic yards/tons) 12,240 26

K Log Sheet Volume Information

231,030 lbs	1115.51 tons
Total volume this page (cubic partis/tons)	
4936,310 lbs.	1 2468,17 Jon
Total moveled bound (outer work boar)	
5,167,340 lbs	2583.68 ton
Total carried boward and this page (cubic pents/lor	

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Bureau of Waste Prevention

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Tracking Number

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 B 2290

Load Information

Note: Make additional copies of this page as necessary.

Spenner of transporter
Signature of transporter
Signature of transporter
0 7-5 5 1 Show A
B 202 Soil Storage Arren Cell
Receiving tacility
10 20 95 Det reshed
Que received
0852
Films received
10 120 195
Diese of shipment
Time of shipment
m A 22685
Fruct/Fractor registration
MA47499
Trailer registration
65,680 lbs. / 32.84 ton
Load size (cubic yards/fors)
Spring of the port Storage Area, Cell A Recording tacility 10 20 95 Date received 10 20 95
Date of shipment
Time of shipment
MA E40038
Inactification reported on
MA-12363
Trailer registration
63,420 Ils 31,71 ton
1 1 1 1

K Log Sheet Volume Information

241,470 lbs 120.73 Total volume this page (cubic yards/fors)

2583.68 5, 167, 340 lbs

Total carried boward (cubic parts/fors)

2704.41 ton 5,408,810 lbs

Total carried lorward and this page (cubic jerushors)

Paga 23 of 35



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Tracking Number

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 \bigcirc . \bigcirc . \bigcirc .

Load Information

/ - 2 -	N. C.
KOAD 1: 224	WOAD 0: 2-25
DAN	V The City
Storature of transporter	Signature of transporter
B. 202 Soil Storage Area Coll A	
Receiving Lacility	Receiving tacility
10/20/95	10.20.95
Date received	Date received
0902	0935
Time received	Time received
10-10-95	10 20 95
Date of snipment	Date of sNigment
Time of snigment	Time of shipment
MA B44609	MA =40038
Truck/Tractor implistment	Truck/Tractor repostation
MA 21421	MA 12363
Trailer negatiation	Trailer registration
58,180 lbs. 1 29.09 for	58,480 Lb/ 29,24
Load size (cubic yerts/fors)	Load size (cubic pards/tons)
Sommute at transporter B 202 Soil Storage Area Callet Receiving tadily 10.20.95 Othe received 10.20.95 Date at stypment	Supranum alerisapper B ELOZ 55:1 Storacze Arrean, Cell At Accepting tecliny 10.20.95 Date incerted 1005 Time incerted 10.20.95 Date of stigment
Plant of obligation	Time of shipment
MA 32588	MA 22685
Truck/Trucks registration	Truck/Tracks repistration
MA27020	MA 47499
Trailer registration	Trafler registration
59,690 lb 29.84 ton	56,420 lb. 28.21 ton
Load size (cubic yerds/lors)	Load star (cubic parts/fors)

K	Loa Sheet	Volume	Information

233,040 lb.	/116.52	
Total volume this page (cubic yards/fors)		
5,408,810 lb/	2704.41	ton
Total carried boward (cubic parts/bors)	The same was the	
5,641,850 lbs	2820.93+	on
Total cracked bound and the constitute come to	well .	

Paga 24 of 35

Tracking Number

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 8. 23-90

Load Information 10AD 1: 229 LOAD 1:5228 Storage B. 202 Storage Area, Cell A . 202 Receiving tadility Receiving Laciety 10.4920.95 10.20.95 Date received Date received 1007 1010 Time received to Time received 10.20-95 Date of striament Date of shipment Time of shipment Time of stripment MAC 34867 MA B44609 Truck/Tractor registration Indi/Inclox registration MA10207 MA 21421 Trailer registration Trailer registration 25.59 ter 59,000 29.20 tor 51,180 Load size (audic yests/lons) Load size (cubic parts/lons) LOAD 1:23 ionaure of transporer Signature of transporter B. 202 Soil Storage Area, CellA Soil Storage, Cell A B. 202 Receiving tadity Receiving ladilly 10.20.95 10 20-95 Date received Date received 1026 1075 Time received Time received 10.20.95 10.20-95 Doe of stripment Date of shipment Time of shipment Time of shipment MA32588 MAF40038 Truck/Tractor maistration Truct/Tractor registration MA27020 MA 12363 Trailer registration Traffer registration

Mote: Make additional copies of this page as necessary.

Log Sheet Volume Information

55440 lb

Load stat (cubic yards/lons)

227,430 lbs/113.71 ten

Total solume this page (asist partitions)

5,641,850 lbs. / 2820.93. fun

Total carried toward (asist partitions)

5,869,280 lbs / 2934-65 ton

Total carried toward and this page (asist partitions)

27.72 ton

Paga 2501 35

61,810 lb

Load star (cubic yards/fors)

30.90 ton



Bureau of Waste Prevention

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Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 \(\frac{1}{3} \), 2290

J Load Information

Note: Make additional copies of this page as necessary.

232	222
LOAD 4: 232	LOVE 1: 233
11-178	X TIAN
Signature of transporter	Sonature of transcorer
B 202 Soil Storage Area, Cell A	B. 202 So. 1 Storage Area, Cell
Receiving Ladilly	Parashing badily
10-20.95	10-20-95
Date received	Date received
1037	1041
Time received	Time received
10.20.95	10.20-95
Date of stripment	Date of shipman
Time of striloment	Time of shipment
MAC 34867	MA B44609
Truck/Tractor registration	Truck/Tractor registration
MA 10207	MA 21421
Trailer registration	Trailer moistration
62,300 lbs. 31.15 ton	54,840 lbs / 27.42 ton
Load star (cubic yards/fons)	Load size (cubic parts/lons)
Signature of transporer Signature of transporer B 202 Soil Storage Area, CCULA Receiving tadity 10.20.95 Date neceived 10.50 Time received 10.20.95 Date of strigment	Signature of transporter Area, Cell A Present included [0.20.95] Dies of shipmann
Time of shipment	Time of shipment
MAE40038	WY 370 82
Inuct/Iractor registration	Inct/Tractir registration
MA 12363	MP47499
. Trailer modistration	Trailer registration
61,400 lb / 30.70 ton	55,240 lb. 27.62 ton
Load star (cubic yards/lons)	Load size (cubic yards/lors)

K Log Sheet Volume Information

Total carried boward and this page (quoic partis/lons)

233,780 lb. / 116.89 ton

1001 roturne this pass (arose partitions)

5,869,786 lbs. / 2934.65 for

1001 carried privatel (arose partitions)

6,103,040 lbs. / 3051.54 ton

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Bureau of Waste Prevention

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Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Note: Make additional copies of this page as necessary.

Load Information	
(0AD 0: 236_	10AD 1: 237 .
ntn	X
Signature of transporter	Signature of transporter
B. 202 Soil Storage Area, Cell A	B-202 Soil Storage Aray (cl)
Receiving ladity	Aucumny tadily
10.20-95	10.20.95
Date received	Date received
1100	1105
Time received	Pene received
10.20.95	10-20-95
Date of shipment	Deet of shipment
Time of striament	Time of shipment
MA C34867	MA 32588
nucul ractor mais tration	Inuct/Tractor registration
MA 10207	MA 27020
Frailer registration	Trailer mystanon
53,240 lb. 26.62 ton	53,790 lb 26.89 ten
Load size (curoic yerds/lons)	Load size (cubic yards/tors)
,	
LOXO 1:238	LØAD 4: 239
LONG	LUAU V: 227
1 14	X JAME
Sprawe of transports	Sommer di trasponer
3.202 Soil Storage Area, CellA	B. 2002 Soil Storage Area, Cell
Receiving tacility	Receiving tacility
10.20.95	10.20.95
Date received	Date received
_11.13	1120
Time received	Time received
10.20.95	10-20-95
Date of shipment	Date of shipment
Time of shipment	Time of shipment
MAB44609	MA 22685
Truck/Tractor registration	Inact/Tractor registration
MA21421	MA47499
Traffer registration	Trailer registration
63,600 lb. 31.80 ton	58,390 lb. 29.20 ton
Load stat (cubic varis/lors)	Load stat (cubic yards/fors)

K Log Sheet Volume Information

229, 020 lbs 114,51 ton 6,103,060 lbs

3051.54 ton

Total carried boward (cubic parts/tons) 6,332,080 16.

3166.05 ton

Total carried boward and this page (cubic pents/lons)

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Make additional copies of this page as neces-

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Material Shipping Record & Log

Tracking Number

Load Information	
LOAD 1: 240	LOAD 0:241/ 2
THE N	
M. West	11/1020
Signature of transporter	Signature of transporter
B. 202 Soil Staging Ara, Cell A	B. 202 So. 1 Storage Array (cl) A
Ascelling ladility	Receiving facility
10-20.95	10-20-95
Date received	Date received
1121	1126
Time received	Person received
10.20.95	10.20.95
Date of shipment	Date of shipment
Time of shipment	Time of shipment
MAE40038	MAC34867
Truck/Tractor ingistration	Truct/Tractor reportation
MA 12363	MA 10207
Trailer registration	Trailler registration
67,380 lb. (33.69 ton	56,020 lb. / 28.01 ton
Load stat (cutoic partis/foris)	Load size (autic yents/hors)
Springer of transporer S. 202 Soil Storage Area, Cell A Receiving Incitive 10.20.95 Date received 1137 Time received 10.20.95	LOAD 1:243 Separation of transporter B. 202 SDIL Storage Area, Cell: Aucording teelity 10.20.95 Date received 1143 Time received 10.20.95
Diet of shipment	Date of shipment
Time of shipment	Time of shipment
MA 32588	MA B44609
Truck/Tractor registration	Truck/Tractor repistration
MA 27020	MA 21421
Traffer mobitation	Trailer registration
65,910 Us. / 32.95 ton	58,220 lb/ 29.11 ton
Load star (cubic yards/lors)	Load stat (cubic partis/fors)

Log Sheet Volume	Information
247,530 lbs.	1123.76
Total volume this page (outic yards/fons)	
6,332,080 es	3166.05 ton
Total carried broad (cubic parts/brs)	MA.
6,579,610 lbs.	439.81 to
Total carried boward and this pape (cubic partis)	000) 3289.81

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2-0662

Tracking Number

Material Shipping Record & Log

9

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 B. 22.90

Load Information	
1900 1:244	LOAD 1:245/1/d / 200
X = ARC	NONAN
Signature of transporter	Signature of transporter
B. 202 Soil Storage Avea, Cell A	B 202 Soil Storage Area, Cel
Assorbing lacifly	Receiving lacility
10-20-95	10 20 95
Date received	Date received
1147	1150
Time received	Time marked
10.20.95	10-20-95
Date of shipment	Date of shipmani
Time of shipment	Time of shipment
MA 22685	MAC 34867
Truck/Tractor registration	Truck/Tractor registration
MA 47499	MA10207
Trailer nigistration	Trailer registration
57,620 lb 28.81 ton	65,460 Slo. 32.73 ton
Sinangh trasporer	LOAD O: 219 F
B. 202 So. 1 Storage Area, Cell A	B. 201 Soil Storage Area, Cell A
Receiving facility	Receiving tacility
10.20.95	10 20 95
Date received	Determinatived
1152	1204
Time received	Time received
10.20.95	10.20.95
Date of stripment	Date of strument
Time of shipment	Time of shipment
MA E40038	MA 32588
Truck/Tractor registration	Track/Tracks registration
MA12363	MA 27020
Traffer registration	Trafler registration
50,060 lb: 25.03 ton	55,450 lb 27.73 ton
Load star (cubic yards/lons)	Load star (cubic yards/tons)

K Log Sheet Volume Information

228,590 16.1	114.29
Total volume this page (autic particulors) (4,579,610 lbs.	3289.81
Total carried borrard (cubic parts/fors)	
6 808, 200 lbs.	3404.10 ton

Papa 29 of 35



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Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc

Load Information

LOAD 1: 24 9 200 Receiving Ladilly 10-20-95 1256 Time received 10-20-95 Date of stylpment Time of shipment B44609 Inuct/Incor registration MA 21421 Trailer registration Load size (cubic yards/lons) LOAD 1: 250 Date received 1304 Time received Date of stripmen Time of shipment E40038 Truck/Tractor registration Trailer registration 31.81 tons 630 Load stall (cubic yards/lons)

LOAD 1: <u>249</u>
x - JAR/
~
Bldg 202- Soil Staging Area, CellA
10-26-95
Date received
1258
10/20/95
Date of shipment
Time of shipment
MA 23682
Truck/Incitor importation
MA 47499
66940 lbs 33.47 tons
Load size (cubic parts/fors)
LOAD 0: 251/ / 47
WILL THE
X IVA ZIOG
Bldg 202 - Soil Staging Area, Cell A
10/20/95
Date received 13/4
Time received .
10/20/95
Det of stramen
Time of shipment
MA C34867
Truck/Tractor registration MA 10207
Trailer mototration
56880 Us /28.44 Tons
Load star (cubic pards/fors)

Log Sheet Volume Information

245 600 lbs/ 122.8 tons

Total volume this page (article pertishors)

6,808, 200 lbs. 3404.10 from

Total article beviard (article pertishors)

7,053,800 lbs/ 3526.9 tons

Total carried beviard and this page (article pertishors)

Paga 30 of 35



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Material Shipping Record & Log

Tracking Number

2-0662

Bldg 2298

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information	
LOAD 1: 252	LDAD 0:253 . L
1)nol	V M / m. Ana
Storature of transporter	Signature of transporer
Bldg 202- Soil Staging Area, Cell A	Bldg 202- Soil Staging Area Cell.
Perceiving Lacility	Recalifing tacility
10/20/95	10/20/95
Date received	Date received
1318	1321
Three received	10/20/95
10/20/95	10/00/15
Date of softomens '	Date of shipmant
Time of shipment	Time of shipment
MA B44609	MA 32588
Truct/Tractor registration	Truck/Tractor registration
MA 21421	MA 27020
Frailer registration	Free last manifestration
62280 lbs/31.14 tons	58790 lbs/29,39 tons
Load stat (quotic yards/tors)	Load size (cubic yards/kors)
264	Tr.
LOAD 1: 254	LOAD #: 255/ ()
X MA Collect	X // Drawn
Signature of transporter	Storature of trapetors
Bldg 202-Soil Staging Area, Cell A	Bly 202-8011 Staging Area, Co
Recalking Facility	Receiving body
10/20/93	10/20/95
Date racialized	Date received 133 K
1332	1335
10/20/95	10/20/95
Date of stripment	Diet of stripment

Time of shipment

Trailer registration

MA 22685

MA 47499

58880

Lord da (autic prostors)

K Log Sheet Volume Information

E46038

12363

Time of shipment

Trailer registration

MA

Truck/Tractor registration

MA

Load day (cubic yards/lons)

67600

247 550 lbs/	123.77 tons
7,053,800 Ws/-	3526.9 MA 3464 + tony
7 30 1350 Us/	3527.87 tons
Total carried boward and this page (autic) parts/for	3650.67

Paga 31 at 35



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Material Shipping Record & Log

Tracking Number

Bldg 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

LOAD 1: 256 Bldg 202-50: Pecariting Lacilly 10/20/95 Date of shipment Time of styloment Inuct/Incor maistration MA Trailer registration 65720 Load size (audic partis/lons) LOAD 1: 25 Time received Time of shipment 32588 MA Truck/Tractor registration MA 27020 Traffer registration

LOAD 1: 2	57
× ·	NAV
Stonarum of transp	OD - Soil Staging Area, Cell A
Pacatring tackly	10/95
Date received 134	1.5
6/0/	0/95
Date of shipment	
Time of shipment	B44609
Incortractor most	21421
Trailer materian	
Load stat (cubic y	ards/fors)
LOAD 1:2	59
×	he College
Sprann a splet	202- Seil Staging Area, Cell A
Perceiving tadily	10/20/95
Date received	59
Time received	0/20/95
Date of shipman	
Time of shipment	A E40038
Inuct/Iractor regit	4 12363

Log Sheet Volume Information

Load size (cubic yards/lons)

251590 lbs/ 125.8

Total control to prosecutors) 3450.67 HA

7361350 lbs/ 3527.87 Tons

Total carried broad (auto: prosecutors)

7,552,940 lbs/ 3653.67 tons

Total carried broad and this page (auto: prosecutors)

3776.47

Paga 32 of 35

Load star (cubic parts/lons)



sary.

Make additional copies of this

page as neces-

Bureau of Waste Prevention

Material Shipping Record & Log

Z - UG6 Z Tracking Number

B129 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

Receiving Laciety Time received 10/20 Date of shipment Time of shipment MA 22685 Truck/Tractor majis tration MA 47499 Load size (audic yards/lons) LOAD 1: 262 Signature of transporter Blda 202 - Soil Receiving badking Time received Date of stypmen Time of shipment C34867 MA Truck/Tractor registration 10207

LOAD 0: <u>261</u>
x DIGN
Bldg 202- Soil Staying Area, Cell A
Receiving tability
16/20/95
16/2c/95
1408
10/20/95
Date of shipman
Time of shipment
MA B44609
Truck/Tractor registration
MA 21421
LONG SER (CADIC PROTECTIONS)
Load size (cubic yards/fons)
TOYOU SOS
Signature of transporter
Bldg 202 Soil Staging Area, Cell A
Receiving tagility),
10/20/95
Date received
1416
Time received 10/20/95 Date of striament
Date of stripment
Time of shipment
MA 32588
Truct/Tractor registration
MA 27020
Traffic mountains
75710 Us / 37.86 tons
Load size (cubic parts/fors)

K Log Sheet Volume Information

Traffer registration

Load sta (autic yards/lors)

263570 Us/ 131.79 tons

Total correct piris pace (articles) 3776.47, Mil

7552940 Us/ 3653.67 tons

Total carried beneard (articles)

7,816,510 Us/ 3785.46 tons

Total carried beneard and this pace (articles)

308.26

Page 33 of 35



Bureau of Waste Prevention

Material Shipping Record & Log

Tracking Number

Alla 2290

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Load Information

Note: Make additional copies of this page as necessary.

Luau minumatium	2.70 (0.70
LOAD 0: 264 /	LOAD 1:265
7	1/2/
X Jack	X Robert A Eaton
Signature of traplationer	Signature of transporter
B. 202 Soil Storage Area, CellA	B.202 Soil Storage Arca, CellA
Receiving lacifly	Receiving facility
CS 10.23.95	10.23.95
Date received	Onte montred
0807	0809
Time received	Time received
10.23.95	10.23.95
Date of shipment	Date of shipment
Time of shipmeni	Time of shipment
MA 22685	MA 32588
Inact/I ractor registration	Truck/Tractor registration
MA 47499	MA 27020
Trailer moistration	Initer mostration
51,100 lbs 25.55 ton	50,290 lb. / 25.14 ton
51,100 lbs 25.55 ton	Load size (cubic perts/fors)
LOAD 1: 266 Springer of transporer	Some of Dissore
B. 202 Soil Storage Area	B. 202 Soil Storage Area, Coll A
Receiving tacitity	Parceteling tacility
10.23.95	10.23.95
Date received	Date monthed
266	0814
Time received	Time received
	10.23.95
10.23.95	
Date of shipment	Date of stripment
Time of shipment	Time of shipment
MAC34867	MAE40038
Truck/Tractor registration	Inuct/Tractor registration
MA 10207	MA12363
Trailer registration	Traffer registration
57,780 lbs. / 28.89 ton	48,020 lbs. / 24.01 ton
Load star (cubic yards/lons)	Load stat (cubic yards/fors)

K Log Sheet Volume Information

207.190 Uss.	110353 hon
Total volume this page (cubic yards/fors)	3908.25
7.816,510 /	3785-46 Tons
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8,023,700 lbs/-	38,88 99 tons
Total carried boward and this page (cubic partitions)	

Paga 34 of 35



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Make additional

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Bureau of Waste Prevention

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000 B. 2290

Load Information LOAD 0: 26 8 LOAD #: ___ Signature of transporter B. 202 Receiving Ladilly Receiving tacility 10.23.95 Does received 0828 Time received 10.23.95 Date of shipment Date of shipment Time of shipment Time of shipment MA B44609 Inuct/Tractor majoration Truck/Inc.br reportation MA 2142 Trailer registration Trailer registration 23.88 ton Load size (cubic yards/lons) Load size (ouble parts/lons) LOAD #: LOAD #: Signature of transporter Signature of transporter Receiving taditiy Receiving badility Date received Date received Time more land Time received Date of shipment Date of shipment Time of shipment Time of shipment Truck/Tractor registration Track/Tracky registration Trailer moistration Trailer registration

K Log Sheet Volume Information

Load stat (cubic yards/lons)

47.760 lbs. /	23.88 ton
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8,023,700 lbs	
8,023,700 lbs	4,035.73 ton
80.71.460 /	3,912.84 tons
Total contest bound and this more lower process	or l

Paga 35 of 35

Load star (cubic yards/tons)

Appendix I

Chemical Quality Assurance Report

RECORD OF TRANSMITTAL

CENED-ED-GL

10 April 1995

FOR Project Engineer, Mr. Mark Applebee
U.S. Army Corps of Engineer,
New England Division
424 Trapelo Rd.
Waltham, MA 02254-9149

SUBJECT: Fort Devens - Area 63BE, Chemical Quality Assurance Report (CQAR)

1. References:

- a. Project No. E0251
- b. Contractor Data Report, Dated January 13, 1995.
- c. Memorandum, CEMRD-ED-GC, 16 Aug 1989, Subject: Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects.
- 2. Two QA samples were analyzed, resulting in a total of 105 target analyte determinations. Results from analysis of QA samples were compared with results from analysis of the corresponding primary samples (ref 1b). Results of the comparison are as follows:
- a. The contractor's laboratory was Analytical Services Corporation, Findlay, OH, (ASC).
- b. Results from the primary and QA samples agreed overall in 97 (92%) of the comparisons.
- c. Results from the primary and QA samples agreed quantitatively in 23 (74%) of the comparisons.
- d. There were 4 (4%) major discrepancies between results from the primary and QA laboratory samples.
- e. There were 4 (4%) minor discrepancies between results from the primary and QA laboratory samples.

- 3. QA analyses were mostly performed in-house at the Environmental Laboratory. QA analyses were also performed at E3I, Sommerville, MA.
- 4. The CENED-ED-GL POC is Gary S. Rogowski, 508-928-4238.

Encl

CF (w/encl): CEMP-RT Larry Becker CEMRD-ED-EC Anand Mudambi

QA Findings

(Ft. Devens AREA 63BE)

1. QA sample shipping and chain-of-custody deficiencies.

One sample shipment of QA samples was received on December 21, 1994. Proper sample handling protocols were followed. The chain-of-custody documents and cooler receipt form are appended to this report for reference. All shipment information was faxed to Mr. Tim Coleman or Mr. Mark Applebee within 24 hours of receipt.

2. Data comparison for PAH.

There were 16 determinations. In 15 of these determinations PAH's were detected by the QA lab or contractor's lab. There was an overall agreement in 12 (75%) and 11 (77%) quantitative agreement of the cases. There was 1 (6%) major discrepancy and 3 (19%) minor discrepancies between the QA and contractor's laboratory.

In sample number 28781 a major discrepancy occurred where the contractor's lab reported 2870 ug/kg anthracene, while the QA lab reported J 36 ug/kg anthracene.

3. Data comparison for TPH.

There was 1 determination. In this determination TPH was detected by both the QA lab and contractor's lab. There was 100% agreement. No major or minor discrepancies were noted.

Data comparison for VOA.

There were 29 determinations. In 3 of these determinations VOA's were detected by the QA lab or contractor's laboratory. There was 100% agreement. No major or minor discrepancies were noted. The QA lab did not report the pH of the VOA samples for the verification of preservation.

5. Data comparison for Pesticides/PCB.

There were 21 determinations. In 7 of these determinations pest/PCB's were detected by the QA lab or contractor's laboratory. There was 100% agreement. No major or minor discrepancies were noted.

Data comparison for TCLP BNA.

There were 11 determinations. In 0 of these determinations BNA's were detected by the QA lab or contractor's laboratory.

There was 100% agreement. No major or minor discrepancies were noted.

7. Data comparison for TCLP Metals.

There were 8 determinations. In 5 of these determinations metals were detected by the QA lab or contractor's laboratory. There was an overall agreement in 4 (50%) and 1 (20%) quantitative agreement. There was 1 (12.5%) minor discrepancy and 3 (37.5%) major discrepancies between the QA lab and the contractor's laboratory.

In sample number 28783 three major discrepancies occurred where the contractor's lab reported 14.9 mg/l arsenic, 14.5 mg/l barium and 11.9 mg/l chromium, while the QA lab reproted <0.004 mg/l arsenic, 0.56 mg/l barium and <0.011 mg/l chromium.

8. Data comparison for TCLP Pesticides.

There were 7 determinations. In 0 of these determinations pesticides were detected by the QA lab or contractor's laboratory. There was 100% agreement. There were no major or minor discrepancies noted.

9. Data comparison for TCLP VOA.

There were 10 determinations. In 0 of these determinations VOA's were detected by the QA lab or contractor's laboratory. There was 100% agreement. There were no major or minor discrepancies noted.

10. Data comparison for TCLP Herbicides.

There were 2 determinations. In these determinations no herbicides were detected by the QA lab or contractor's laboratory. There was 100% agreement. No major or minor discrepancies were noted.

10. Comments.

Contractor's data package was not in full compliance with Minimum Chemistry Data Reporting Requirements as sample receiving information, method numbers and surrogate recoveries for the organics were not provided. No trace metal results were provided by the QA lab thus, no data comparison was generated.

Quality Assurance Split Sample Data Comparison Summary

Project: Ft. Devens - AREA 63BE

Overall		Quantitativ	e
Agreemen	t (1)	Agreement	(2)
			distance of
Number	Percent	Number	Percent
12/16	75	11/15	73
4/8	50	1/5	20
7/7	100	0/0	N/A
2/2	100	0/0	N/A
10/10	100	0/0	N/A
11/11	100	0/0	N/A
1/1	100	1/1	100
21/21	100	7/7	100
29/29	100	3/3	100
97/105	92	23/31	74
	Agreemen Number 12/16 4/8 7/7 2/2 10/10 11/11 1/1 21/21 29/29	Agreement (1) Number Percent 12/16 75 4/8 50 7/7 100 2/2 100 10/10 100 11/11 100 1/1 100 21/21 100 29/29 100	Number Percent Number 12/16 75 11/15 4/8 50 1/5 7/7 100 0/0 2/2 100 0/0 10/10 100 0/0 11/11 100 0/0 1/1 100 1/1 21/21 100 7/7 29/29 100 3/3

NOTES:

- (1) Represents the number and percentage agreement of all determinations including analytes not detected by either laboratory.
- (2) Represents the number and percentage agreement of only those determinations where an analyte was detected by at least one laboratory.

APPENDIX B KEY TO COMMENTS ON DATA COMPARISON TABLES

0 - Data agrees if any one of the following apply:

- both values are less than respective detection limit (N<MDL)

- N, <MDL, and N, >MDL, but <MDL,

 both values are above respective detection limit (N>MDL) and difference between two values satisfies conditions below

Metals <2x difference for waters, TCLP extracts

<3x difference for airs

<10x difference for solids and oils

Semivolatiles <5x difference for all matrices

Volatiles TPH, BTEX

Pesticides <5x difference for liquids Herbicides <10x difference for solids

PCB's

Alkalinity <2x difference for all matrices Hardness, Ammonia (water quality, etc.)

1 - Minor contamination by laboratory contaminant

2 - Not tested by both laboratories

3 - Minor data discrepancy, disagreement not serious, if any one of the following apply:

N₁<MDL₁ and N₂>MDL₂ and the difference between values N₂ and MDL₁ does not exceed the upper limit (described below) defining a minor data discrepancy

- both values are above respective detection limit (N>MDL) and conditions described below apply to the difference between

the two values

Metals 2x<difference<5x for waters,TCLP extracts

10x<difference<20x for solids, oils

3x<difference<5x for airs

Semivolatiles, 5x<difference<10x for all matrices

VOA, TPH, BTEX

Pesticide/PCB 5x<difference<10x for liquids Herbicides 10x<difference<20x for solids

Alkalinity 2x<difference<5x for all matrices

Hardness, Ammonia

(water quality, etc.)

- 4 Major data discrepancy, disagreement serious, if any one of the following apply:
 - N₁<MDL₁ and N₂>MDL₂ and the difference between values N₂ and MDL₁ exceeds the limit (described below) defining a major data discrepancy

 both values are above respective detection limit (N>MDL) and conditions described below apply to the difference between the two values

Metals >5x difference for waters, TCLP extracts, airs >20x difference for solids, oils

Semivolatiles, >10x difference for all matrices VOA, TPH, BTEX

Pesticide/PCB >10x difference for liquids Herbicides >20x difference for solids

Alkalinity >5x difference for all matrices Hardness, Ammonia (water quality, etc.)

MDL = Method Detection Limit
N = Analytical result

Key to data qualifiers:

B - detected in method blank

J - estimated value, above MDL but below practical quantitation limit

NR - Not reported

QA SAMPLE NO.: 28781

CONTRACTOR'S SAMPLE NO.: JN6449

QA FIELD ID: EX63BETRP

CONTRACTOR'S FIELD ID: EX63BEDP5A

QA ANALYSIS DATE: 1/19/95

CONTRACTOR'S ANALYSIS DATE: NR

MATERIAL DESCRIPTION: Soil

DATE SAMPLED: 12/20/94

UNITS: UG/KG

		RESULTS		RESULTS	
PARAMETER	QA LAB	QA LAB	CONTRACTOR	CONTRACTOR	COMPARISO
	MDL		MDL		CODE
Naphthalene	< 360		NR	509	3
Acenaphthylene	< 360		NR	356	0
Acenaphthene	NR	J 46	NR	236	3
Fluorene	NR	J 120	NR	672	3
Phenanthrene	NR	J 320	NR	1050	0
Anthracene	NR	J 36	NR	2870	4
Fluoranthene	NR	J 93	NR	182	0
Pyrene	· NR	J 71	NR	84	0
Benzo(a)anthracene	NR	J 45	<71		0
Chrysene	NR	J 55	<71		0
Benzo(b)fluoranthene	NR	J 62	<71		0
Benzo(k)fluoranthene	NR	J 55	<71		0
Benzo(a)pyrene	NR	J 47	<71		0
Indeno(1,2,3-cd)pyrene	NR	J 31	NR	NA	2
Dibenz(a,h)anthracene	< 360		<71		0
Benzo(g,h,i)perylene	NR	J 25	<71		0

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
Nitrobenzene-d5	69	NR
2-Fluorobiphenyl	92	NR
Terphenyl-d14	52	NR

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

COMPARISON OF QA AND CONTRACTOR RESULTS

PROJECT: FORT DEVENS

ANALYSIS PERFORMED: TOTAL PETROLEUM HYDRCARBONS

UNITS: mg/kg SOIL, mg/L WATER

***	******	*****	********	*****	*****	****	*******	*******	****	**
*	SAMPLE	SAMPLE	CONTRACTOR	CONTRACTOR	QA LAB	QA FIELD	CONTRACTOR	QA LAB	C	*
*	DATE	MATRIX	SAMPLE NO.	FIELD ID	NO.	ID	RESULTS	RESULTS		*
***	*****	******	******	******	*****	*****	******	******	****	**
*	2/20/94	soil	JN6449	EX63BEDP5A	28781	SBAR63BETRP	348	550	0	*
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QA SAMPLE NO.: 28781 QA FIELD ID: EX63BETRP QA ANALYSIS DATE: 2/15/95

CONTRACTOR'S SAMPLE NO .: JN6449 CONTRACTOR'S FIELD ID: EX63BEDP5A CONTRACTOR'S ANALYSIS DATE: NR

MATERIAL DESCRIPTION: Soil DATE SAMPLED: 12/20/94

UNITS: UG/KG

		RESULTS		RESULTS	
PARAMETER	QA LAB	QA LAB	CONTRACTOR	CONTRACTOR	COMPARISO
	MDL		MDL		CODE
Alpha-BHC	< 3.60		< 18		0
Gamma - BHC	< 3.60		< 18		0
Beta-BHC	< 3.60		< 18		0
Heptachlor	< 3.60		< 18		0
Delta-BHC	< 3.60		< 18		0
Aldrin	< 3.60		< 18		0
Heptachlor epoxide	< 0.05	J 1.8	< 18		0
Endosulfan I	< 3.60		< 18		0
4,4'-DDE	< 0.10	J 5.8	< 18		0
Dieldrin	< 0.10	J 1.2	< 18		0
Endrin	< 0.10	J 3.1	< 18		0
4,4'-DDD	< 0.10	15	< 18		0
Endosulfan II	< 0.10	J 3.4	< 18		0
4,4'-DDT	< 0.10	120	< 18	130	0
Endrin aldehyde	< 7.20		< 18		0
Endosulfan sulfate	< 7.20		< 18		0
Methoxychlor	< 36.00		< 18		0
Endrin ketone	< 7.20		< 18		0
Toxaphene	< 360.0		< 361		0
Chlordane	< 3.60		< 181		0
Total PCBs	< 82.0		< 181		0

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
TCMX (60-150)	54	NR
DCB (60-150)	100	NR

* = SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

QA SAMPLE NO.: 28782
QA FIELD ID: EX63BETRPG
QA ANALYSIS DATE: 12/28/94

CONTRACTOR'S SAMPLE NO.: JN6710
CONTRACTOR'S FIELD ID: EX63BED5AG

CONTRACTOR'S ANALYSIS DATE: NR

MATERIAL DESCRIPTION: Soil DATE SAMPLED: 12/20/94 UNITS: UG/KG

			RESULTS		RESULTS	
PARAMETER		MDL MDL	QA LAB	CONTRACTOR MDL	CONTRACTOR	COMPAR I SO
Chloromethane	<	25.0		NR		2
Vinyl chloride	<	37		< 13		0
Bromomethane	<	42		NR		2
Chloroethane	<	39		< 13		0
1.1-Dichloroethene	<	1.5		< 13		0
Acetone	<	5.5	B 170	< 13	57	0
Carbon disulfide	<	1.6		< 13		0
Methylene chloride	<	1.3	в 130	NR		2
1,2-Dichloroethene (total)	<	1.5		< 13		0
1,1-Dichloroethane	<	1.4		< 13		0
2-Butanone	<	4.2	J 9.7	< 13		0
Chloroform	<	1.5		< 13		0
1,1,1-Trichloroethane	<	1.0		< 13		0
Carbon tetrachloride	<	0.9		< 13		0
Benzene	<	1.7		< 13		0
1,2-Dichloroethane	<	1.1		< 13		0
Trichloroethene	<	1.5		< 13		0
1,2-Dichloropropane	<	1.2		< 13		0
Bromodichloromethane	<	1.0		< 13		0
4-Methyl-2-pentanone	<	3.9		< 26		0
cis-1,3-Dichloropropene	<	1.3		< 13		0
Toluene	<	1.5		< 13		0
trans-1,3-Dichloropropene	<	1.6		< 13		0
1,1,2-Trichloroethane	<	1.6		< 13		0
Tetrachloroethene	<	1.2		< 13		0
2-Hexanone	<	3.1		< 13		0
Dibromochloromethane	<	1.5		< 13		0
Chlorobenzene	<	2.0		< 13		0
Ethylbenzene	<	1.5	11	< 13	27	0
o/m/p-Xylenes	<	1.9	J 4.7	NR		2
Styrene	<	0.9		< 13		0
Bromoform	<	2.6		< 13		0
1,1,2,2-Tetrachloroethane	<	2.3		< 13		0

SURROGATE RECOVERIES (%)

*	QA	CONTRACTOR
1,2-Dichloroethane D4 (76-114)	95	NR
Toluene D8 (88-110)	84	NR
4-Bromofluorobenzene (86-115)	*74	NR
* = SURROGATE RECOVERY OUTSIDE	ACCEPTABLE	RANGE

QA SAMPLE NO.: 28783

CONTRACTOR'S SAMPLE NO .: JN6449

QA FIELD ID: EX63BETRP

CONTRACTOR'S FIELD ID: EX63BEDP5A

QA ANALYSIS DATE: 1/18/95

CONTRACTOR'S ANALYSIS DATE: NR

MATERIAL DESCRIPTION: TCLP EXTRACT DATE SAMPLED: 12/20/94

UNITS: ug/L

		RESULTS		RESULTS	
PARAMETER	QA LAB MDL	QA LAB	CONTRACTOR MDL	CONTRACTOR	COMPARISO CODE
1,4-Dichlorobenzene	< 0.08		<100		0
2-Methylphenol	< 1.4		<100		0
4-Methylphenol	< 0.97		<100		0
Hexachloroethane	< 0.15		<100		0
Nitrobenzene	< 0.33		<100		0
Hexachlorobutadiene	< 0.11		<100		0
2,4,6-Trichlorophenol	< 1.5		<100		0
2,4,5-Trichlorophenol	< 1.4		<100		0
2,4-Dinitrotoluene	< 0.78		<100		0
Hexchlorobenzene	< 0.13		<100		0
Pentachlorophenol	< 31		<100		0
3-Methylphenol (m-cresol)	< 2.5		NR	NA	2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
2-Fluorophenol (10-94)	77	NR:
Phenol (21-100)	60	NR
Nitrobenzene-d5 (35-114)	*120	NR
2-Fluorobiphenyl (43-116)	105	NR
2,4,6-Tribromophenol (10-123)	89	NR
4-Terphenyl-d4 (33-141)	128	NR

QA SAMPLE NO .:

28783

CONTRACTOR'S SAMPLE NO .: JN6449

CONTRACTOR'S FIELD ID: EX63BEDP5A

QA ANALYSIS DATE:

QA FIELD ID: EX63BETRP 3/23/95

CONTRACTOR'S ANALYSIS DATE: NR

MATERIAL DESCRIPTION: TCLP EXTRACT

DATE SAMPLED: 12/20/94

UNITS: MG/L

				RESULT	S	RESULTS	
	PARAMETER		QA LAB MDL	QA LA	B CONTRACTOR MDL	CONTRACTOR	COMPARISON CODE
Silver		<	0.010		<1.08		0
Arsenic		<	0.004		NR	14.9	4
Barium		<	0.006	0.56	NR	14.5	4
Cadmium		<	0.003		<1.08		0
Chromium		<	0.011		NR	11.9	4
Mercury		<	0.0002	0.003	4 <0.050		0
Lead		<	0.840		NR	12.1	3
Selenium		<	0.260		<5.41		0

QA SAMPLE NO .: 28783 QA FIELD ID: EX63BETRP QA ANALYSIS DATE: 1/18/95

CONTRACTOR'S SAMPLE NO.: JN6449 CONTRACTOR'S FIELD ID: RX63BEDP5A

CONTRACTOR'S ANALYSIS DATE: NR

MATERIAL DESCRIPTION: TCLP EXTRACT

DATE SAMPLED: 12/20/94

UNITS: MG/L

		RESULTS		RESULTS	
PARAMETER	QA LAB	QA LAB	CONTRACTOR	CONTRACTOR	COMPARISON
	MDL		MOL		CODE
Gamma-BHC (Lindane)	< 0.01		< 0.002		0
Heptachlor	< 0.01		< 0.002		0
Heptachlor epoxide	< 0.01		< 0.002		0
Endrin	< 0.02		< 0.002		0
Methoxychlor	< 0.10		< 0.002		0
Chlordane	< 0.10		< 0.020		0
Toxaphene	< 1.0		< 0.040		0

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
TCMX (60-150)	86	NR
DCB (60-150)	115	NR

^{* =} SURROGATE RECOVERY OUTSIDE ACCEPTABLE RANGE

QA SAMPLE NO.: 38783 QA FIELD ID: EX63BETRP

CONTRACTOR'S SAMPLE NO .: JN6710 CONTRACTOR'S FIELD ID: EX6 CONTRACTOR'S ANALYSIS DATE: NR CONTRACTOR'S FIELD ID: EX63BED5AG

QA ANALYSIS DATE: 1/25/95

MATERIAL DESCRIPTION: TCLP EXTRACT DATE SAMPLED: 12/20/94

UNITS: MG/L

			RESULTS		RESULTS	
PARAMETER		QA LAB MDL	QA LAB	CONTRACTOR MDL	CONTRACTOR	COMPARISON CODE
Vinyl chloride	<	10.0		<0.125		0
1,1-Dichloroethene	<	5		<0.125		0
Chloroform	<	5		<0.125		0
1,2-Dichloroethane	<	5		<0.125		0
2-Butanone	<	10.0		<0.125		0
Carbon tetrachloride	<	5.0		<0.125		0
Benzene	<	5.0		<0.125		0
Trichloroethene	<	5.0		<0.125		0
Tetrachloroethene	<	5.0		<0.125		0
Chlorobenzene	<	5.0		<0.125		0
Pyridine	<	1.6	NR	<0.100		2

SURROGATE RECOVERIES (%)

	QA	CONTRACTOR
1,2-Dichloroethane D4 (76-114)	101	NR
Toluene D8 (88-110)	100	NR
4-Bromofluorobenzene (86-115)	102	NR
* = SUPPOGATE PEROVERY OUTSINE	ACCEPTABLE	PANCE

QA SAMPLE NO.: 28783 QA FIELD ID: EX63BETRP QA ANALYSIS DATE: 1/25/95

CONTRACTOR'S SAMPLE NO .: JN6449 CONTRACTOR'S FIELD ID: EX63BEDP5A

CONTRACTOR'S ANALYSIS DATE: NR

MATERIAL DESCRIPTION: TCLP EXTRACT DATE SAMPLED: 12/20/94 UNITS: UG/L

			RESULTS		RESULTS	
	PARAMETER	QA LAB MDL	QA LAB	CONTRACTOR MDL	CONTRACTOR	COMPARISON CODE
2,4-D		< 15.0		<250		0
2,4,5-TP		< 3.10		<250		0



CHAIN-OF-CU'TODY RECORD

Form 0019 Field Technical Services Rev. 08/89

-																		141	J. LU	0 0 0 0	
þ	.H. MATERIALS	CORF	ο,		P.0	D. BOX 551	• FINDLAY, O	H 45839-0551		41	9-423	3-352	26								*
PRO.	J. NO. PROJE 208 PROJE	2.10	ACT C	کا سز	in	PROJECT MA	PROJECT TELEPHONE	o 2-2019	NUMBER	SEP	ALYSI DIGATE PARATE NTAINE		SIRE	0	10/2	1	33.50		//		
TEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)		OFO		5	×4	3	3	S.	(J)		, A	EMARKS		
18	EX63BETER	12:	0958	V		Grey Sz	tive lots of	brown	5×407	Z	J	1	1	1	1		Tri	FXG	3 DE	EX 630	SEPPS
1842	X63PETR46	ĺ	080		1	Grey cl	ture, lots of 2x 2 D rellow of s of cobole,	ISH ISTORY	7 X YO	11/					0		J. rib	LEX!	EX EX	BE DUY	SAG PG
3										4	H					4					
4										1											
5										1						1					
6				1,5			· · · · · · · · · · · · · · · · · · ·	-													
7																					
8																					
9																					
10	-																				
THANSFER	ITEM TRANSFERS NUMBER RELINQUISHED BY		HED BY	THANSFE	BY	100000	TIME		MARKS	· Preserved at 4°C. · Temp blank included				0							
0	18/2		-2	5,	in	Blan	Chafan	11	123.	1700	×		•	1	Ch	~ -	012				
-	2		1	0	V-X	,	Chata	_ /2	2154	200											
3	3																				
4	1										SAMI	u.FR'S	SIGH	ATURE	a	//	3/2				
											1						1910	1			

CENED-ED-GL SAMPLE CONTAINER RECEIPT FORM

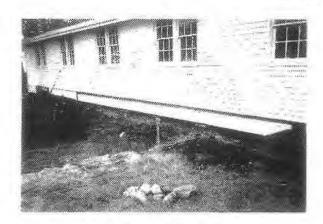
REVISE

DJECT: CONTIGUINATED SON FT DIVENS Project		-025	
Work Or	der #:	94.35	2
tainer received on /2-21-94 and inspected on 12-21-94 by: CAL	my_	=	-
Temperature $\frac{23}{2}$ °C. Temperature taken on $\frac{12-21-99}{2}$			
Shipper Shipper # Shipper # 98	9315	7925	
)	(
Container type (Cooler, box, envelope, etc.)			-
Were custody seals on outside of container? How many & where: (3/ AROVN), seal date: 12-2044, seal name		Yes	No
Were custody papers taped to lid inside container?	N/A(Yes	N
Custody papers properly filled out? (ink, signed, etc.)		Yes	N
Was project and project # identifiable from custody papers?		Yes	N
Did you sign custody papers in appropriate place?		Vas,	N
Did you attach shipper's packing form to this form?	N/A	Yes,	N
Packing material (peanuts, vermiculite, bubble wrap, paper	, cans	oth	è:
ere all samples sealed in separate plastic bags?	N/A	Yes	N
Did all samples arrive in good condition?		(Yes)	N
Sample labels complete? (#, date, analysis, preservation, s	ign.)	(Yes	N
Were correct sample containers used for tests indicated?	N/A	(es)	N
Were correct preservatives used? (TM pH, CN- pH) (TOC pH, NUTRIENT pH, TOX_pH, TPH pH, OTHER pH_	N/A·	Yes	N
Were VOA vials bubble-free (H2O) or no headspace (soil)?	N/A	Yes	N
Was sufficient amount of sample sent in each container?		Ves	N
. Did all sample labels agree with custody papers?		Yes	N
. Were air volumes noted for air samples?	N/A	Yes	N
. Were initial weights noted for pre-weighed filters?	N/A	Yes	N
screpancies:			

Appendix J

Site Photographs

AREE 63BE



Initial excavation



Contaminated soils located underneath building 2290



Demolition of building 2290



Screen sample locations



Water collection system

AREE 63BE



Frac tanks for water collection



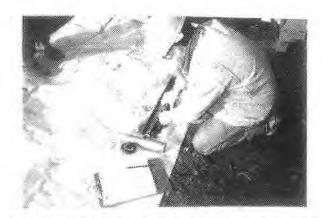
Removal of contaminated soil from excavation



Staging area for contaminated soil



Soil boring activities surrounding the excavation



Soil sample collection from split spoon sampler

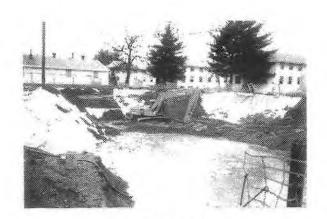
AREE 63BE



Confirmation sampling locations



Clean soil from North Post Barrow



Backfilling of excavation



Site restoration