Chembox Legend

Sample Location

Sample Depth (Top of Sample Interval)

		Location	SB08L1-7		
		Sample Date	12/7/1998		
		Matrix	SOIL		
		Start Depth (ft.bgs)	0.83		
		Units	MG/KG		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value
PCBs	PCB 1260	RES DEC	1.3	J	1

Chemical Class

Parameter

CTDEP RSR Criteria Type

Chemical Result (In parts per million)

Result Qualifier (As Applicable)

RSR Criteria Value

RES DEC	Residential Direct Exposure Criteria
I/C DEC	Industrial/Commercial Direct Exposure Criteria
GB PMC	Pollutant Mobility Criteria for Soils in a GB-classified Aquifer
GW RES VC	Groundwater Residential Volatilization Criteria
GW I/C VC	Groundwater Industrial/Commerical Volatilization Criteria
GW GAx10	Groundwater Protection Criteria for a GA-classified Aquifer (x10)
SV RES VC	Soil Vapor Residential Volatilization Criteria
SV I/C VC	Soil Vapor Industrial/Commercial Volatilization Criteria
AWQC	Ambient Water Quality Criteria
SWPC	Surface Water Protection Criteria

AOC 1 - Waste Oil Tanks in Oil Tank Farm
AOC 2 - Haz. Waste Accumulation Tanks

		Location	EBS01-1			EBS01-2			HA-99-08			D-4		
		Sample Date	5/2/2002			5/2/2002			9/23/1999			4/23/2002		
		Matrix	SOIL			SOIL			SOIL			GROUNDWATER		
		Start Depth (ft.bgs)	1			1			0			1.5		
		Units	MG/L			MG/L			MG/KG			MG/L		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
VOA	cis-1,2-Dichloroethene	GW RES VC										46		0.83
VOA	cis-1,2-Dichloroethene	GW I/C VC										46		11
VOA	Vinyl chloride	GW RES VC										3		0.0016
VOA	Vinyl chloride	GW I/C VC										3		0.052
SPLP VOA	Dichloromethane	GW GAx10	37		0.005	0.052		0.005						
Inorganics	Arsenic	I/C DEC							15.7		10			
Inorganics	Arsenic	RES DEC							15.7		10			

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: D-3, D-4-1, BR-6 and WC2-1S.

AOC 12 - Container Accumulation Area and Associated Drains

		Location	WC-5S			WC-5S			WC-5S		
		Sample Date	6/12/1992			6/12/1992			5/1/2002		
		Matrix	SOIL			SOIL			GROUNDWATER		
		Start Depth (ft.bgs)	0.8			2.8			3		
		Units	MG/KG			MG/KG			MG/L		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
VOA	Dichloromethane	GB PMC	1.3		1	6.6		1			
VOA	Trichloroethene	GW I/C VC							0.29	J	0.067
VOA	Trichloroethene	GW RES VC							0.29	J	0.027

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: EBS12-1 and EBS12-2.

AOC 3 - Hazardous Waste and Waste Oil Transfer Systems Between B-13 and B-15

		Location	BR-4			SB08L1-7			SB09C1-1			SB09C2-1			SB09C2-1			SG-99-47			WC-5S			WC-5S			WC-5S		
		Sample Date	6/3/1992			12/7/1998			12/7/1998			12/7/1998			12/7/1998			8/10/1999			6/12/1992			6/12/1992			5/1/2002		
		Matrix	SOIL			SOIL			SOIL			SOIL			SOIL			VAPOR			SOIL			SOIL			GROUNDWATER		
		Start Depth (ft.bgs)	1			0.83			3			0.83			2.83			3			0.8			2.8			3		
		Units	MG/KG			MG/KG			MG/KG			MG/KG			MG/KG			PPMV			MG/KG			MG/KG			MG/L		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
Inorganics	Antimony	RES DEC	69		27																								
Inorganics	Arsenic	I/C DEC	22.9		10																								
Inorganics	Arsenic	RES DEC	22.9		10																								
PCBs	PCB 1254	I/C DEC										10.7	J	10															
PCBs	PCB 1254	RES DEC										10.7	J	1															
PCBs	PCB 1260	I/C DEC										13.7	J	10															
PCBs	PCB 1260	RES DEC				1.3	J	1				13.7	J	1															
TPH	TPHC	I/C DEC										5420		2500															
TPH	TPHC	RES DEC										5420		500															
TPH	TPHC	GB PMC										5420		2500															
VOA	Benzene	GB PMC													0.24	J	0.2												
VOA	cis-1,2-Dichloroethene	GB PMC							20		14																		
VOA	Dichloromethane	GB PMC																			1.3		1	6.6		1			
VOA	Ethylbenzene	GB PMC													11		10.1												
VOA	Trichloroethene	GW I/C VC																									0.29	J	0.067
VOA	Trichloroethene	GW RES VC																									0.29	J	0.027
VOA	Trichloroethene	SV I/C VC																16		0.26									
VOA	Trichloroethene	SV RES VC																16		0.14									
VOA	Xylenes	GB PMC							60		19.5				64		19.5												

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: SB09B6-1.

AOC 53 - Drum Staging Area Between Oil Tank Farm and B-37

		Location	SB09C1-1			WC-5S			WC-5S			WC-5S		
		Sample Date	12/7/1998			6/12/1992			6/12/1992			5/1/2002		
		Matrix	SOIL			SOIL			SOIL			GROUNDWATER		
		Start Depth (ft.bgs)	3			0.8			2.8			3		
		Units	MG/KG			MG/KG			MG/KG			MG/L		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
VOA	cis-1,2-Dichloroethene	GB PMC	20		14									
VOA	Dichloromethane	GB PMC				1.3		1	6.6		1			
VOA	Trichloroethene	GW I/C VC										0.29	J	0.067
VOA	Trichloroethene	GW RES VC										0.29	J	0.027
VOA	Xylenes	GB PMC	60		19.5									

AOC 28 - Building B-15 and Satellite Accumulation Areas

		Location	BR-3			SB09B8-1			SB09B8-1			SB09B8-1			SB09B8-1			SG-99-30			SG-99-47		
		Sample Date	6/3/1992			12/7/1998			12/7/1998			4/16/2002			4/16/2002			8/9/1999			8/10/1999		
		Matrix	SOIL			SOIL			SOIL			SOIL			SOIL			VAPOR			VAPOR		
		Start Depth (ft.bgs)	3			0.5			2.25			0.5			2.5			3			3		
		Units	MG/KG			MG/KG			MG/KG			MG/L			MG/L			PPMV			PPMV		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
Inorganics	Lead	I/C DEC	19700		1000																		
Inorganics	Lead	RES DEC	19700		500																		
SPLP VOA	Trichloroethene	GW GAx10										0.31		0.005	0.14		0.005						
VOA	Trichloroethene	RES DEC						95		56													
VOA	Trichloroethene	GB PMC	1.1		1	95		1	29		1												
VOA	Trichloroethene	SV I/C VC																0.51063		0.26	16		0.26
VOA	Trichloroethene	SV RES VC																0.51063		0.14	16		0.14

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: BR-5, SB09B6-1 and SB09B7-1.

AOC 13 - Original Container Storage Area

		Location	SB08L1-7		
		Sample Date	12/7/1998		
		Matrix	SOIL		
		Start Depth (ft.bgs)	0.83		
		Units	MG/KG		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value
PCBs	PCB 1260	RES DEC	1.3	J	1

AOC 7
Oil/Alum Tank

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: SB09B10-1.

Building B-13
Former Chemical Storage and Scrap Metal Reclamation

		Location	SB09B3-1			SB09B3-1			SG-99-33		
		Sample Date	12/29/1998			12/29/1998			8/10/1999		
		Matrix	SOIL			SOIL			VAPOR		
		Start Depth (ft.bgs)	0.75			2.75			3		
		Units	MG/KG			MG/KG			PPMV		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
SVOA	Benzo[a]anthracene	I/C DEC				20	D	7.8			
SVOA	Benzo[a]anthracene	RES DEC				20	D	1			
SVOA	Benzo[a]anthracene	GB PMC				20	D	1			
SVOA	Benzo[a]pyrene	I/C DEC				16	D	1			
SVOA	Benzo[a]pyrene	RES DEC				16	D	1			
SVOA	Benzo[a]pyrene	GB PMC				16	D	1			
SVOA	Benzo[b]fluoranthene	I/C DEC				15	D	7.8			
SVOA	Benzo[b]fluoranthene	RES DEC				15	D	1			
SVOA	Benzo[b]fluoranthene	GB PMC				15	D	1			
SVOA	Benzo[k]fluoranthene	RES DEC				12	D	8.4			
SVOA	Benzo[k]fluoranthene	GB PMC				12	D	1			
SVOA	Chrysene	GB PMC	1.1		1	22	D	1			
SVOA	Dibenz[ah]anthracene	I/C DEC				1.4		1			
SVOA	Dibenz[ah]anthracene	RES DEC				1.4		1			
SVOA	Dibenz[ah]anthracene	GB PMC				1.4		1			
SVOA	Indeno[1,2,3-c,d]pyrene	RES DEC				3.2		1			
SVOA	Indeno[1,2,3-c,d]pyrene	GB PMC				3.2		1			
SVOA	Pyrene	GB PMC				58	D	40			
TPH	TPHC	RES DEC	804		500						
VOA	Tetrachloroethene	SV I/C VC							1.12637		1
VOA	Trichloroethene	SV I/C VC							2.25		0.26
VOA	Trichloroethene	SV RES VC							2.25		0.14

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: SB09B9-1 and SG-99-14.

AOC 16
Metal Chips Oily Sump

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: SB09B11-1.

Titanium and Aluminum Chips Collection

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: SB09B2-1.

Magnesium-Thorium Scrap Yard Between Buildings B-13 and B-44

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: SB09B2-1 and SB08L-8.

Container Storage Pad and Collection Trench Northeast of Building B-13

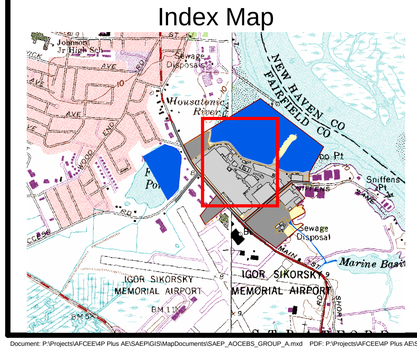
		Location	BR-2			SB09B4-1			SB09B4-1		
		Sample Date	6/3/1992			12/7/1998			12/7/1998		
		Matrix	SOIL			SOIL			SOIL		
		Start Depth (ft.bgs)	1			0.5			2.5		
		Units	MG/KG			MG/KG			MG/KG		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
Inorganics	Antimony	RES DEC							35.2		27
Inorganics	Arsenic	I/C DEC				19.7		10			
Inorganics	Arsenic	RES DEC				19.7		10			
Inorganics	Beryllium	I/C DEC							3.19		2
Inorganics	Beryllium	RES DEC							3.19		2
Inorganics	Lead	RES DEC							527		500
PAH	Benzo[a]anthracene	I/C DEC	8.3		7.8						
PAH	Benzo[a]anthracene	RES DEC	8.3		1						
PAH	Benzo[a]anthracene	GB PMC	8.3		1						
PAH	Benzo[a]pyrene	I/C DEC	7.2		1						
PAH	Benzo[a]pyrene	RES DEC	7.2		1						
PAH	Benzo[a]pyrene	GB PMC	7.2		1						
PAH	Benzo[b]fluoranthene	RES DEC	5.2		1						
PAH	Benzo[b]fluoranthene	GB PMC	5.2		1						
PAH	Benzo[k]fluoranthene	GB PMC	5.5		1						
PAH	Chrysene	GB PMC	11		1						
PAH	Dibenz[ah]anthracene	I/C DEC	1.2	J	1						
PAH	Dibenz[ah]anthracene	RES DEC	1.2	J	1						
PAH	Dibenz[ah]anthracene	GB PMC	1.2	J	1						
PAH	Indeno[1,2,3-c,d]pyrene	RES DEC	4.8		1						
PAH	Indeno[1,2,3-c,d]pyrene	GB PMC	4.8		1						
TPH	TPHC	I/C DEC				8500		2500			
TPH	TPHC	RES DEC				8500		500			
TPH	TPHC	GB PMC				8500		2500			
VOA	Trichloroethene	GB PMC				1.4		1			

Open Storage Between Buildings B-16 and B-74

		Location	HA-99-07			SB09A1-1			SB09A1-1			SB09A1-2			SB09A1-2			SB09A1-3			SB09A1-3			SB09A1-4			SB09A1-4			SB09A1-4			SB09A2-1			SB09A2-1			SB09A2-1			SB09A2-1			SB09C2-1			SB09C2-1			SB14A2-2			SG-99-15			WC-5S			WC-5S			WC-5S		
		Sample Date	9/23/1999			12/7/1998			12/7/1998			12/7/1998			12/7/1998			12/7/1998			12/7/1998			12/7/1998			4/17/2002			4/17/2002			12/7/1998			12/7/1998			4/17/2002			4/17/2002			12/7/1998			12/7/1998			12/7/1998			8/5/1999			6/12/1992			6/12/1992			5/1/2002		
		Matrix	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			VAPOR			SOIL			SOIL			GROUNDWATER		
		Start Depth (ft.bgs)	0			0.5			2.5			0.5			2.5			0.67			2.67			0.67			2.67			2.5			0.5			1			5			1			3			0.83			2.83			0.25			3			0.8			2.8			3		
		Units	MG/KG			MG/KG			MG/KG			MG/KG			MG/KG			MG/KG			MG/KG			MG/KG			MG/KG			MG/L			MG/L			MG/KG			MG/KG			MG/L			MG/L			MG/KG			MG/KG			MG/KG			PPMV			MG/KG			MG/KG			MG/L		
Chemical Class	Parameter	CTDEP RSR Criteria Type	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value	Results	Qual	Criteria Value
Inorganics	Arsenic	I/C DEC																																																																				
Inorganics	Arsenic	RES DEC																																																																			
Inorganics	Lead	I/C DEC																						7870		1000																																										
Inorganics	Lead	RES DEC																						7870		500	745		500																																					
PCBs	PCB 1254	I/C DEC																																																																		
PCBs	PCB 1254	RES DEC																																																																		
PCBs	PCB 1260	I/C DEC																						74	J	10																																									
PCBs	PCB 1260	RES DEC																						74	J	1																																									
SPLP VOA	Benzene	GW GAx10																												0.013	J	0.001																																			
SPLP VOA	cis-1,2-Dichloroethene	GW GAx10																												3.7	J	0.07																																			
SPLP VOA	Dichloromethane	GW GAx10																															0.4		0.005							0.24		0.005	1.6		0.005																			
SPLP VOA	Vinyl Chloride	GW GAx10																												0.27	J	0.002																																			
SVOA	2-Methylnaphthalene	GB PMC	25	J	9.8																																																																
SVOA	Bis(2-ethylhexyl) phthalate	RES DEC	96		44																																																																
SVOA	Bis(2-ethylhexyl) phthalate	GB PMC	96		11																																																																
TPH	TPHC	I/C DEC																																																																		
TPH	TPHC	RES DEC						2080			500																																																									
TPH	TPHC	GB PMC																																																																		
VOA	1,1,1-Trichloroethane	GB PMC	340		40																																																																
VOA	1,1-Dichloroethane	GB PMC	120	J	14																																																																
VOA	1,1-Dichloroethene	I/C DEC	12	J	9.5																																																																
VOA	1,1-Dichloroethene	RES DEC	12	J	1																1.2	J	1																																													
VOA	1,1-Dichloroethene	GB PMC	12	J	1.4																																																																
VOA	Benzene	GB PMC	3.8	J	0.2																2.3	J	0.2	0.74	J	0.2																0.38	J	0.2										0.24	J	0.2													
VOA	cis-1,2-Dichloroethene	I/C DEC	3300		1000																																																															
VOA	cis-1,2-Dichloroethene	RES DEC	3300		500																																																																
VOA	cis-1,2-Dichloroethene	GB PMC	3300		14																86		14				16		14							46		14	32		14																											
VOA	Dichloromethane	GB PMC																																		3	J	1																			1.3		1	6.6		1						
VOA	Ethylbenzene	GB PMC																			12		10.1																												11		10.1													
VOA	Tetrachloroethene	I/C DEC	1200		110																																																															
VOA	Tetrachloroethene	RES DEC	1200		12				21		12																									16		12																																
VOA	Tetrachloroethene	GB PMC	1200		1				21		1	2.8		1																						16		1																																
VOA	Toluene	GB PMC	180	J	67																																																														
VOA	Trichloroethene	I/C DEC	560		520																																																																
VOA	Trichloroethene	RES DEC	560		56																																																																
VOA	Trichloroethene	GW I/C VC																																																																0.29	J	0.067	
VOA	Trichloroethene	GW RES VC																																																																0.29	J	0.027	
VOA	Trichloroethene	GB PMC	560		1				25		1	1.4		1	1.3	E	1																			18		1																																
VOA	Trichloroethene	SV RES VC																																																									0.23613		0.14									
VOA	Vinyl Chloride	I/C DEC	36	J	3																7.7		3																																													
VOA	Vinyl Chloride	RES DEC	36	J	0.32													2.3		0.32	7.7		0.32				2	J	0.32																																										
VOA	Vinyl Chloride	GB PMC	36	J	0.4													2.3		0.4	7.7		0.4				2	J	0.4																																										
VOA	Vinyl Chloride	SV I/C VC																																																								1.03262		1									
VOA	Vinyl Chloride	SV RES VC																																																								1.03262		0.42									
VOA	Xylenes	GB PMC	26	J	19.5													22		19.5	76		19.5	91	J	19.5	27		19.5													78		19.5										64		19.5														

Note: Concentrations of constituents for the following LOC_IDs do not exceed applicable RSR criteria: SB14A2-1 and SB17A4-1.

Index Map



N

0 50 100 Feet

Prepared by JJW | Checked by DRP

Legend

- Stormwater Drainage System
- Chemical Waste Lines
- Demolished/Former Buildings
- Building
- Open Paved/Concrete Area
- Open Grassed Area
- Road/Parking Lot
- Water
- Soil Sample Locations
- Soil Vapor Sample Locations
- Groundwater Sample Locations

AOC Boundary:

Figure 7-2
Analytes with Concentrations > RSR Criteria
Hazardous Waste and Waste Oil Area

Remedial Investigation Report
Stratford Army Engine Plant
Stratford, Connecticut
MACTEC Engineering and Consulting

Document: P:\Projects\AFCEE\4P Plus AE\SAEP\GIS\MapDocuments\SAEP_AOCEBS_GROUP_A.mxd PDF: P:\Projects\AFCEE\4P Plus AE\SAEP\RI Report\FINAL RI Report\Final\Figures\Section 7\Figure 7-2 Hazwaste Area.pdf 09/24/2004 8:52 AM jjwherren