

Perimeter Air Monitoring Results
Aerovox Excavation 2008
New Bedford, MA
June 23-27 2008

Action Levels								
Air Contaminant	8-hour TLV	Perimeter Assessment Value			Perimeter Action Limit			
Vinyl Chloride (VC)	1 ppmv	0.1 ppmv			0.2 ppmv			
Perchloroethene (PCE)	25 ppmv	2.5 ppmv			5 ppmv			
Trichloroethene (TCE)	10 ppmv	1 ppmv			2 ppmv			
1,2-Dichloroethene (1,2-DCE)	200 ppmv	20 ppmv			40 ppmv			
Hydrogen Sulfide (H2S)	10 ppmv	1 ppmv			2 ppmv			
Particulates	0.3 mg/m ³	0.3 mg/m ³			0.3 mg/m ³			
PCBs	0.5 mg/m ³	0.05 mg/m ³			0.1 mg/m ³			
TLV - threshold limit value, exposure level for 8-hour occupational exposure per ACGIH (American Conference of Governmental Industrial Hygienists)								
Perimeter Assessment Value - 1/10th of TLV for VOCs; TLV for particulates								
Perimeter Action Limit - 2/10th of TLV for 15 minutes; TLV for particulates. Exceedance will prompt correctiveaction.								
Aerovox Site Location	Date	Time	H ₂ S ⁽¹⁾ ppmv	VOCs ⁽²⁾ ppmv	Draeger Tube ⁽³⁾ ppmv	Particulates ⁽⁴⁾ mg/m ³	Lab Sample Results ⁽⁵⁾ ppbv	Total PCBs mg/m ³
Southern Fenceline	6/23/2008	1625	ND	ND	NA	NA	NA	
		1630	ND	ND	NA	NA	NA	
	6/24/2008	1105	ND	ND	NA	NA	PCE=0.228	
		1115	ND	ND	NA	NA		
	6/25/2008	1330	ND	ND	NA	NA	NA	
	6/26/2008	1410	ND	ND	NA	NA	ND	
6/27/2008	NR	ND	ND	NA	NA	NA		
Southwest Fence by Aerovox gate	6/23/2008	1615	ND	ND	NA	NA	NA	
		1620	ND	ND	NA	NA	NA	
	6/24/2008	1048	ND	ND	NA	NA	PCE=0.223	
		1100	ND	ND	NA	NA		
	6/25/2008	1310	ND	ND	NA	NA	NA	
	6/26/2008	1340	ND	ND	NA	NA	ND	
6/27/2008	NR	ND	ND	NA	NA	NA		
Belleville Avenue	6/23/2008	1605	ND	ND	NA	NA	NA	
		1610	ND	ND	NA	NA	Na	
	6/24/2008	1035	ND	ND	NA	NA	PCE=0.253	
		1042	ND	ND	NA	NA		
	6/25/2008	1255	ND	ND	NA	NA	NA	
	6/26/2008	1325	ND	ND	NA	NA	ND	
6/27/2008	NR	ND	ND	NA	NA	NA		
Northern Fenceline adjacent to Precix	6/23/2008	1600	ND	ND	NA	0.029	NA	
	6/24/2008	1015	ND	ND	NA	0.048	PCE=0.275	
		1027	ND	ND	NA			
6/25/2008	1240	ND	ND	NA	NA	NA		

		6/26/2008	709	ND	ND	NA	0.027	cis-1,2-DCE=0.25 TCE=0.322	
		6/27/2008	NR	ND	ND	NA	0.17	NA	
	Sawyer Street Location	Date	Time	H ₂ S ⁽¹⁾ ppmv	VOCs ⁽²⁾ ppmv	Draeger Tube ⁽³⁾ ppmv	Particulates ⁽⁴⁾ mg/m ³	Lab Sample Results ⁽⁵⁾ ppbv	Total PCBs mg/m ³
ARCRope	Ropeworks Building Southeast corner of building	6/26/2008	725	ND	ND	NA	NA	NA	
ARCLiteP	North Perimeter Fence North of Cell #1 at perimeter fence	6/23/2008	1655	ND	ND	NA	NA	NA	
		6/26/2008	735	ND	ND	NA	NA	NA	
ARCFencS	South Perimeter Fence Between Cell #1 and Sawyer Street	6/26/2008	740	ND	ND	NA	NA	NA	
Notes: (1) H ₂ S - hydrogen sulfide (2) PID - photoionization detector, real-time screening instrument for total volatile organic compounds (VOCs) in parts per million by volume (ppmv). (3) Draeger Tube - real-time screening device that is used to identify and measure concentrations of individual compounds in ppmv. (4) Particulates measured as total respirable dust in air at Aerovox only (for Portland cement); not measured if raining. (5) Laboratory samples are collected in Tedlar bags using a pump, and analyzed for nine individual VOCs. Only detected VOCs are reported here. (6) Draeger tubes readings taken in Contaminant Reduction Zone and Exclusion Zone were ND for all contaminants PCE - perchloroethene (also called tetrachloroethene) TCE - trichloroethene VC - vinyl chloride 1,2-DCA=1,2-dichloroethane 1,2-DCE=cis-1,2-dichloroethene ND = nondetect NA = not analyzed NR = not recorded TWA = time weighted average; readings collected continuously over a 10 to 12-hour period to measure exposure for one day. mg/m ³ - milligrams of respirable dust per cubic meter of air ppmv=parts per million by volume									