

**Perimeter Air Monitoring Results**  
**Aerovox Excavation 2008**  
**New Bedford, MA**  
**July 7-11 2008**

<b>Action Levels</b>									
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 <sup>3</sup>	0.3 mg/m <sup>3</sup>			0.3 mg/m <sup>3</sup>				
PCBs	0.5 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>			0.1 mg/m <sup>3</sup>				
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 corrective action.									
ID	Aerovox Site Location	Date	Time	H <sub>2</sub> S <sup>(1)</sup> ppmv	VOCs <sup>(2)</sup> ppmv	Draeger Tube <sup>(3)</sup> ppmv	Particulates <sup>(4)</sup> mg/m <sup>3</sup>	Lab Sample Results <sup>(5)</sup> ppbv	Total PCBs mg/m <sup>3</sup>
FencSou	<b>Southern Fenceline</b>	7/7/2008	915	ND	ND	NA	NA	NA	Pending results
			1600	ND	ND	NA	NA	NA	
		7/8/2008	1200	ND	ND	NA	NA	1,2-DCA=0.436 PCE=0.473	
			1400	ND	ND	NA	NA	NA	
		7/10/2008	1045	ND	ND	NA	NA	1,2-DCA=0.288 PCE=0.753	
			1111	ND	ND	NA	NA	NA	
7/11/2008	945	ND	ND	NA	NA	NA			
FencSou1	<b>Southwest Fence</b> by Aerovox gate	7/7/2008	900	ND	ND	NA	NA	NA	
			1515	ND	ND	NA	NA	NA	
		7/8/2008	1115	ND	ND	NA	NA	PCE=0.504 1,2-DCA=0.422	
			1230	ND	ND	NA	NA	NA	
		7/10/2008	1000	ND	ND	NA	NA	1,2-DCA=0.363 PCE=0.708 TCE=0.205	
			1038	ND	ND	NA	NA	NA	
7/11/2008	1000	ND	ND	NA	NA	NA			
BellSt	<b>Belleville Avenue</b>	7/7/2008	826	ND	ND	NA	NA	NA	
			1500	ND	ND	NA	NA	Na	
		7/8/2008	1030	ND	0.5	NA	NA	1,2-DCA=0.687 PCE=0.667	
			1030	ND	ND	NA	NA	NA	
		7/10/2008	1415	ND	ND	NA	NA	1,2-DCA=0.254 PCE=0.378	
			1425	ND	ND	NA	NA	NA	
7/11/2008	NR	ND	ND	NA	NA	NA			

Precix	<b>Northern Fenceline</b> adjacent to Precix	7/7/2008	800 1445	ND ND	ND ND	NA NA	0.026	NA	
		7/8/2008	1243	ND	ND	NA	0.048	1,2-DCA=0.300 PCE=0.278	
		7/9/2008	830	ND	ND	NA	NA	NA	
		7/10/2008	1130 1151	ND ND	2.5 3.5	PCE < 2 VC < 0.5	NA	1,2-DCA=0.391 PCE=0.579	
		7/11/2008	NR	ND	ND	NA	0.000	NA	
	<b>Sawyer Street Location</b>	<b>Date</b>	<b>Time</b>	<b>H<sub>2</sub>S<sup>(1)</sup></b>	<b>VOCs<sup>(2)</sup></b>	<b>Draeger Tube<sup>(3)</sup></b>	<b>Particulates<sup>(4)</sup></b>	<b>Lab Sample Results<sup>(5)</sup></b>	<b>Total PCBs</b>
ARCRope	<b>Ropeworks Building</b>			ppmv	ppmv	ppmv	mg/m <sup>3</sup>	ppbv	mg/m <sup>3</sup>
ARCLiteP	Southwest corner of building <b>North Perimeter Fence</b>		No measurements taken						
	North of Cell #1 at perimeter fence		No measurements taken						
ARCFencS	<b>South Perimeter Fence</b> Between Cell #1 and Sawyer Street		No measurements taken						
<b>Notes:</b>									
(1) H <sub>2</sub> 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 <sup>3</sup> - milligrams of respirable dust per cubic meter of air									
ppmv=parts per million by volume									
ppbv=parts per billion by volume									