

**Perimeter Air Monitoring Results**  
**Aerovox Excavation 2008**  
**New Bedford, MA**  
**July 14-18 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.

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>
<b>Southern Fenceline</b>	7/14/2008	1104	ND	ND	NA	NA	NA	Pending results
	7/15/2008	1140	ND	ND	NA	NA	NA	
	7/16/2008	1500	ND	ND	NA	NA	NA	
	7/17/2008	1630	ND	ND	NA	NA	NA	
<b>Southwest Fence</b>	7/14/2008	1101	ND	ND	NA	NA	NA	
	7/15/2008	1128	ND	ND	NA	NA	1,2-DCA=0.45 cis-1,2-DCE=0.549 PCE=0.504 TCE=3.22	
	7/16/2008	1510	ND	2.3	TCE < 50 VC < 0.5	NA	NA	
	7/17/2008	1605	ND	ND	NA	NA	1,2-DCA=0.375 PCE=0.459 TCE=1.46	
<b>Belleville Avenue</b>	7/14/2008	1115	ND	ND	NA	NA	NA	Pending results
	7/15/2008	1113	ND	ND	NA	NA	1,2-DCA=0.444 cis-1,2-DCE=0.589 PCE=0.711 TCE=6.03	
	7/16/2008	1600	ND	ND	NA	NA	NA	
	7/17/2008	1530	ND	ND	NA	NA	1,2-DCA=0.678 cis-1,2-DCE=0.380 PCE=0.908 TCE=5.89	
<b>Northern Fenceline</b> adjacent to Precix	7/14/2008	1120	ND	ND	NA	0.011	NA	
	7/15/2008	1056	ND	ND	NA	0.019	1,2-DCA=0.42 cis-1,2-DCE=2.34 PCE=0.783	

	7/16/2008	1605	ND	ND	NA	NA	TCE=8.29	
	7/17/2008	1445	ND	ND	NA	0.034	1,2-DCA=0.445 cis-1,2-DCE=1.44 PCE=0.937 TCE=9.16	
<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>
<b>Ropeworks Building</b>	No measurements taken							
Southeast corner of building			ppmv	ppmv	ppmv	mg/m <sup>3</sup>	ppbv	mg/m <sup>3</sup>
<b>North Perimeter Fence</b>								
North of Cell #1 at perimeter fence	7/14/2008	1150	ND	ND	NA	NA	NA	
<b>South Perimeter Fence</b>								
Between Cell #1 and Sawyer Street	7/14/2008	1145	ND	ND	NA	NA	NA	

**Notes:**

- (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