

**Perimeter Baseline Air Monitoring Results  
Aerovox Excavation 2008  
New Bedford, MA  
May 29 - June 2 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 (H <sub>2</sub> S)	10 ppmv	1 ppmv	2 ppmv
PCBs	0.5 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Particulates	0.3 mg/m <sup>3</sup>	0.3 mg/m <sup>3</sup>	0.3 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 ppmv <sup>(1)</sup>	VOC ppmv <sup>(2)</sup>	Draeger Tube ppmv <sup>(3)</sup>	Particulates mg/m <sup>3</sup> <sup>(4)</sup>	Lab Sample Results ppbv <sup>(5)</sup>
6472	<b>SE Corner of trailer Deck at Area C</b>	5/29/2008	1600	NA	NA	NA	NA	all NDs
2601	<b>Aerovox South gate</b>	5/29/2008	1620	NA	NA	NA	NA	all NDs
4503	<b>Aerovox perimeter fence at SE Building corner</b>	5/29/2008	1625	NA	NA	NA	NA	all NDs
1287	<b>Duplicate with Aerovox perimeter fence at SE Building corner</b>	5/29/2008	1625	NA	NA	NA	NA	all NDs
1212	<b>Aerovox perimeter fence at combined sewer outfall</b>	5/29/2008	1630	ND	NA	NA	NA	all NDs
	<b>Southern Fenceline</b>	6/2/2008	1400	ND	0.6	NA	NA	PCE=0.216
	<b>Southwest Fenceline</b>	6/2/2008	1420	ND	0.6	NA	NA	PCE=0.254

**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) The first five listed Laboratory samples were collected in Summa Cannisters over 4 hour collection time. The analytical method used was TO-14 for 37 compounds.

The last 2 listed samples were collected in tedlar bags using a pump. These were analyzed for 9 compounds. Only detected VOCs are listed.

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; readings were made during excavation operations; exact times were not recorded.

TWA = time weighted average; readings collected continuously over an 8-hour period to measure exposure for one day.

mg/m<sup>3</sup> - milligrams of respirable dust per cubic meter of air

**Perimeter Air Monitoring Results**

**Aerovox Excavation 2008**

**New Bedford MA**

**June 2-6 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 (H <sub>2</sub> S)	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>	0.25 mg/m <sup>3</sup>	0.25 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>	6/3/2008	1010	ND	1.4-3.2	VC < 0.5 PCE < 2	0.012	ND	
		6/4/2008	1655	ND	ND	NA	NA	NA	
		6/5/2008	1011	ND	ND	NA	0.034	ND	
		6/6/2008	1310	ND	ND	NA	NA	NA	
FencSou1	<b>Southwest Fence</b> by Aerovox gate	6/3/2008	1120	ND	1.1	NA	NA	ND	
		6/4/2008	1458	ND	ND	NA	NA	NA	
		6/5/2008	1127	ND	1.3	NA	NA	ND	
		6/6/2008	1319	ND	ND	NA	NA	NA	
BellSt	<b>Belleville Avenue</b>	6/2/2008	1522	NA	NA	NA	NA	ND	
		6/3/2008	1522	ND	ND	NA	NA	ND	
		6/4/2008	1720	ND	1.1	NA	NA	NA	
		6/5/2008	1325	ND	ND	NA	NA	ND	NA
		6/6/2008	1340	ND	ND	NA	NA	NA	NA
Precix	<b>Northern Fenceline</b> adjacent to Precix	6/2/2008	1600	NA	NA	NA	NA	PCE = 0.241	
		6/3/2008	1600	ND	ND	NA	NA	cis-1,2-DCE=0.664 TCE=0.68 VC=0.232	
		6/4/2008	1645	ND	ND	NA	NA	NA	NA
		6/5/2008	1400	ND	1.3	NA	0.024	ND	NA
		6/6/2008	1400	ND	ND	NA	NA	NA	NA
ARCRope	<b>Sawyer Street Location</b> <b>Ropeworks Building</b>	<b>Date</b>	<b>Time</b>	<b>H<sub>2</sub>S<sup>(1)</sup> ppmv</b>	<b>VOCs<sup>(2)</sup> ppmv</b>	<b>Draeger Tube<sup>(3)</sup> ppmv</b>	<b>Particulates<sup>(4)</sup> mg/m<sup>3</sup></b>	<b>Lab Sample Results<sup>(5)</sup> ppbv</b>	<b>Total PCBs mg/m<sup>3</sup></b>
	Southeast corner of building	6/4/2008	1020	0	0	NA	NA	ND	NA
ARCLiteP	<b>North Perimeter Fence</b> North of Cell #1 at perimeter fence	6/6/2008	940	0	0	NA	NA		NA
		6/4/2008	1120	ND	ND	NA	NA	cis-1,2-DCE=3.45 TCE=2.52 VC=1.13	NA
		6/6/2008	1127	ND	ND	NA	NA	NA	
		6/6/2008	1027	ND	ND	NA	NA	cis-1,2-DCE=14.2 PCE=0.262 TCE=9.38 VC=5.02	
Arcgate	<b>East Fence</b> East gate to office trailers	6/4/2008	1030	ND	ND	NA	NA		NA
		6/6/2008	1140	ND	ND	NA	NA	NA	NA
		6/6/2008	1008	ND	ND	NA	NA	TCE=0.210	NA
ArcFens	<b>South Perimeter Fence</b> Between Cell #1 and Sawyer Street	6/4/2008	1018	ND	ND	NA	NA		NA
		6/4/2008	1210	ND	ND	NA	NA	ND	NA
		6/6/2008	955	ND	ND	NA	NA	PCE=0.206	NA
		6/6/2008	1000	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

cis-1,2-DCE - cis-1,2-dichloroethene

ND = nondetect

NA = not analyzed

NR = not recorded; readings were made during excavation operations; exact times were 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

**Perimeter Air Monitoring Results  
Aerovox Excavation 2008  
New Bedford, MA  
June 9-13 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
PCBs	0.5 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Hydrogen Sulfide (H <sub>2</sub> S)	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>

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)	VOC (2) (ppmv)	Draeger Tube <sup>(3)</sup> (ppmv)	Particulates (mg/m <sup>3</sup> ) <sup>(4)</sup>	Lab Sample Results (ppbv) <sup>(5)</sup>
FencSou	<b>Southern Fenceline</b> Hadley Street, adjacent NE corner of Titleist	6/9/2008	1125	ND	2.5	VC < 0.5 TCE < 2	NA	PCE = 0.454
		6/10/2008	1030	ND	1.0	NA	0.087	PCE = 0.564 TCE = 0.684 VC = 0.309
		6/11/2008	1540	ND	ND	NA	NA	PCE = 0.219
		6/12/2008	1430	ND	ND	NA	NA	NA
		6/13/2008	1100	ND	ND	NA	NA	NA
FencSou1	<b>Southwest Fence</b> by Aerovox gate	6/9/2008	1140	ND	3.5	VC < 0.5 TCE < 2 PCE < 2	NA	PCE = 0.573
		6/10/2008	1046	ND	1.0	NA	NA	PCE = 0.302 TCE = 0.228 VC = 0.210
		6/11/2008	1527	ND	ND	NA	0.017	PCE = 0.220
		6/12/2008	1530	ND	ND	NA	NA	NA
		6/13/2008	1120	ND	ND	NA	NA	NA
BellSt	<b>Belleville Avenue</b> corner of Hadley and Belleville	6/9/2008	1100	ND	1.9	VC < 0.5	NA	PCE = 0.729
		6/10/2008	1105	ND	1.0	NA	NA	1,2-DCA = 0.252 PCE = 0.324 t-1,2-DCE = 0.202
		6/11/2008	1510	ND	ND	NA	NA	PCE = 0.225
		6/12/2008	1630	ND	ND	NA	NA	NA
		6/13/2008	1145	ND	ND	NA	NA	NA
		6/14/2008	900	ND	ND	NA	NA	cis-1,2-DCE=0.268

Precix	<b>Northern Fenceline</b> adjacent to Precix	6/9/2008	1110	ND	1.6	VC < 0.5	NA	PCE = 0.535
		6/10/2008	1425	ND	2.3	VC < 0.5 TCE < 2	NA	PCE = 0.264
		6/11/2008	1450	ND	1.1	NA	NA	PCE = 0.361 TCE = 0.366
		6/12/2008	1730	ND	ND	NA		NA
		6/13/2008	1230	ND	ND	NA	NA	NA
		6/14/2008	800	ND	ND	NA	0.017	cis-1,2-DCE=0.643 PCE=0.455 TCE=5.94
			1130	ND	ND	NA		cis-1,2-DCE=1.11 PCE=0.366 TCE=5.88
	1400	ND	ND	NA		cis-1,2-DCE=1.60 PCE=0.254 TCE=6.94 VC=1.40		
<b>Sawyer Street Location</b>		<b>Date</b>	<b>Time</b>	<b>H<sub>2</sub>S <sup>(1)</sup> ppmv</b>	<b>VOC <sup>(2)</sup> ppmv</b>	<b>Draeger Tube <sup>(3)</sup> ppmv</b>	<b>Particulates <sup>(4)</sup> mg/m<sup>3</sup></b>	<b>Lab Sample Results <sup>(5)</sup> ppbv</b>
ARCRope	<b>Ropeworks Building</b> Southeast corner of building	6/12/2008	1640	ND	ND	NA	NA	NA
ARCLiteP	<b>North Perimeter Fence</b> North of Cell #1 at perimeter fence	6/12/2008	1650	ND	ND	NA	NA	NA
ARCFencS	<b>South Perimeter Fence</b> between Cell #1 and Sawyer Street	6/12/2008	1640	ND	ND	NA	NA	NA
			TWA	ND	ND			
		6/13/2008	TWA	0.1	ND			
		6/14/2008	TWA	ND	ND			

**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. Units are ppbv.

PCE=perchloroethene (also called tetrachloroethene)

TCE=trichloroethene

VC=vinyl chloride

1,2-DCA = 1,2-dichloroethane

t-1,2-DCE = trans-1,2-dichloroethene

ND = nondetect

NA = not analyzed

NR = not recorded; readings were made during excavation operations; exact times were not recorded.

TWA = time weighted average; readings collected continuously over an 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

**Perimeter Air Monitoring Results  
Aerovox Excavation 2008  
New Bedford, MA  
June 14-20 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 correctiveaction.									
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>	6/14/2008	Not Sampled						
		6/16/2008	1349	ND	ND	NA	0.039	NA	
		6/17/2008	1438	ND	1.00	NA	NA	NA	NA
		6/17/2008	1420	ND	1.00	NA	NA	1,2-DCA=0.205 cis-1,2-DCE=0.641 TCE=0.674 VC=0.416	
		6/18/2008	1455	ND	1.5	NA	NA	NA	NA
		6/18/2008	1502	ND	1.8	VC<0.5 PCE<2	NA	NA	NA
		6/19/2008	1445	ND	ND	NA	NA	NA	NA
FencSou1	<b>Southwest Fence by Aerovox gate</b>	6/14/2008	Not Sampled						
		6/16/2008	1357	ND	ND	NA	NA	NA	
		6/16/2008	1458	ND	3.2 <sup>(6)</sup>	NA	NA	NA	NA
		6/17/2008	1400	ND	1.6	VC<0.5 PCE<2	NA	cis-1,2-DCE=0.247 TCE=0.361 VC=0.210	
		6/18/2008	1445	ND	1.1	NA	NA	NA	NA
		6/18/2008	1450	ND	1.4	NA	NA	NA	NA
		6/19/2008	1415	ND	ND	NA	NA	NA	NA
BellSt	<b>Belleville Avenue</b>	6/14/2008	900	ND	ND	NA	NA	PCE = 0.333 cis-1,2-DCE=0.268 TCE=2.30	
		6/16/2008	1405	ND	ND	NA	NA	NA	
		6/16/2008	1552	ND	ND	NA	NA	NA	
		6/17/2008	1344	ND	4.1	VC<0.5 PCE<2	NA	TCE=0.233	NA
		6/17/2008	1354	ND	4.8	NA	NA	NA	NA
		6/18/2008	1435	ND	ND	NA	NA	NA	NA
		6/18/2008	1440	ND	ND	NA	NA	NA	NA
6/19/2008	1400	ND	ND	NA	NA	NA	NA		
BellSt	<b>Belleville Avenue</b>	6/19/2008	1630	ND	ND	NA	NA	NA	NA
		6/19/2008	1145	ND	ND	NA	NA	NA	NA
		6/20/2008	1100	ND	ND	NA	NA	NA	NA
		6/20/2008	1715	ND	ND	NA	NA	Na	0.00002586

Precix	<b>Northern Fenceline</b> adjacent to Precix	6/14/2008	800	ND	ND	NA	0.017	PCE = 0.455 cis-1,2-DCE=0.643 TCE=5.94 cis-1,2-DCE=1.11 PCE=0.366 TCE=5.88 VC=2.12 cis-1,2-DCE=1.60 PCE=0.254 TCE=6.94 VC=1.40 NA NA NA	
			1130	ND	ND	NA	NA		
			1400	ND	ND	NA	NA		
		6/16/2008	1415	ND	ND	NA	NA		
			1559	ND	ND	NA	NA		
		6/17/2008	1300	ND	ND	NA	0.05	cis-1,2 DCE=1.02 TCE=1.42 VC=0.765 NA NA NA	
		6/18/2008	1415	ND	ND	NA	0.018		
			1429	ND	1.1	NA	NA		
		6/19/2008	1510	ND	ND	NA	NA		
			1715	ND	ND	NA	NA		
		6/20/2008	1110	ND	ND	NA	NA		
			1730	ND	ND	NA	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>
	Southeast corner of building	No Sampling or Monitoring at this location during subject time period.							
ARCLiteP	<b>North Perimeter Fence</b>								
	North of Cell #1 at perimeter fence	6/18/2008	1518	ND	1.4	NA	NA	NA	
			1520	ND	1.2	NA	NA	NA	
ARCFencS	<b>South Perimeter Fence</b>								
	Between Cell #1 and Sawyer Street	No Sampling or Monitoring at this location during subject time period.							
<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									
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									