

Perimeter Air Monitoring Results
Aerovox Excavation 2008
New Bedford, MA
June 30 - July 4 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 (H ₂ S)	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.									
ID	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
FencSou	Southern Fenceline No field activities this week so no sampling	June 30 - July 4	Not Sampled						
FencSou1	Southwest Fence by Aerovox gate No field activities this week so no sampling	June 30 - July 4	Not Sampled						
BellSt	Belleville Avenue No field activities this week so no sampling	June 30 - July 4	Not Sampled						
Precix	Northern Fenceline adjacent to Precix No field activities this week so no sampling	June 30 - July 4	Not Sampled						
ARC	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
ARC	Ropeworks Building Southeast corner of building	June 30 - July 4			No Sampling or Monitoring at this location during subject time period.				
ARCLiteP	North Perimeter Fence North of Cell #1 at perimeter fence	June 30 - July 4			No Sampling or Monitoring at this location during subject time period.				
ARCFencS	South Perimeter Fence Between Cell #1 and Sawyer Street	June 30 - July 4			No Sampling or Monitoring at this location during subject time period.				
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

TWA = time weighted average; readings collected continuously over a 10 to 12-hour period to measure exposure for one day.

mg/m³ - milligrams of respirable dust per cubic meter of air

ppmv=parts per million by volume

ppbv=parts per billion by volume