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BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Aerovox
2.2
253203

Transmitted Via Facsimile/Federal Express

September 14, 1998

Ms. Kimberly N. Tisa
Environmental Scientist
USEPA - Region 1
JFK Federal Building (CPT)
Boston, MA 02203-0001

Re: Aerovox, Inc. Facility
New Bedford, Massachusetts
Supplement to the Engineering Evaluation/Cost Analysis (EE/CA) Report
Project #: 1638.03855 #2

Dear Ms. Tisa:

Pursuant to your request during our September 11, 1998 telephone conversation, this letter and the corresponding attachments have been prepared as a supplement to the final *Engineering Evaluation/Cost Analysis (EE/CA) Report* that was submitted to the United States Environmental Protection Agency-New England (EPA-New England) on August 27, 1998. To supplement the *EE/CA Report* (August 1998), Blasland, Bouck & Lee, Inc. (BBL) has developed the two additional geologic cross-sections that you requested during our telephone conversation. The locations of these cross-sections are depicted on Figure 1 and the cross-sections are shown on Figures 2 and 3.

As requested, a new cross section (Y-Y') has been developed by revising cross-section X-X' presented in the *EE/CA Report* so that the western end of the new cross-section starts at boring SB-2 (see Figure 2). This new cross section (Y-Y') therefore includes information from soil boring SB-10 which was projected northward on to the section line. Unlike cross-section X-X' presented in the *EE/CA Report*, the subsurface log information for monitoring well MW-4B has not been included on cross-section Y-Y'. The subsurface log for monitoring well MW-4B indicates a drop in the bedrock surface to the north (bedrock at 21 feet below grade), as further documented by the log for monitoring well MW-6, located toward the northern side of the building (bedrock at greater than 45 feet below grade) and log for monitoring well MW-4, located at the northeastern corner of the building, (bedrock at greater than 20 feet below grade) in contrast to the depths to bedrock along cross-section Y-Y' in the vicinity of soil boring SB-11 (possible top of bedrock at 2 feet below grade) and soil boring SB-12 (possible top of bedrock at 6 feet below grade). Addition of the subsurface data for monitoring well MW-4B to the cross section Y-Y' would therefore not likely be reflective of the conditions along this line of section. The logs for each of the aforementioned soil borings and monitoring wells are provided for ease of reference as Attachment 1.

The second cross-section requested (Z-Z') begins at soil boring SB-1 (located near the northwestern corner of the manufacturing building) and extends southward to soil boring SB-8. This cross-section is shown

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on Figure 3. The aforementioned drop in the bedrock surface to the north is also illustrated in cross-section Z-Z', as indicated by the depth to bedrock at soil boring SB-1 and monitoring well MW-5, both located at the northwestern corner of the building. The depth to bedrock at soil boring SB-1 and monitoring well MW-5 is greater than 12 feet below grade and greater than 20 feet below grade, respectively. Copies of the boring/monitoring well logs for SB-1, SB-8, and MW-5 are also provided in Attachment 1 for ease of reference.

In addition to requesting the preparation of two new cross sections, you inquired about including the depths of the sheet pile wall on appropriate cross-sections. This sheet pile wall serves as a vertical barrier to ground water and tidal flow into and out of impacted soils located at the eastern end of the site. This sheet pile wall was installed as part of the remedial action completed in 1984. As discussed during our September 11, 1998 telephone conversation, Aerovox does not have an "as-built" construction drawing for the sheet pile wall. Although specific depths of the sheet pile wall for inclusion on cross-sections are not currently available, known information regarding the depth of the sheet pile wall was included in the report. For example, on page 2-14 of the *EE/CA Report* the following information regarding the depth of the sheet pile wall is presented:

> "The sheet piling cutoff wall is from 9 to 13 feet in depth, the actual depth is dictated by the depth to the peat layer into which the wall is keyed."

You also inquired about the disposition of the existing asphalt parking area for each of the alternatives described in the *EE/CA Report*. The proposed capping system described in the *EE/CA Report* would be constructed over the entire facility, including the area where the building is located (after demolition of the building) and the asphalt parking area. As detailed in the *EE/CA Report*, the details of the final capping system for the Aerovox facility will be selected during the design phase based, in part, on site conditions and future reuse of the property.

If you have any questions or require additional information, please do not hesitate to contact me at (315)446-9120.

Sincerely,

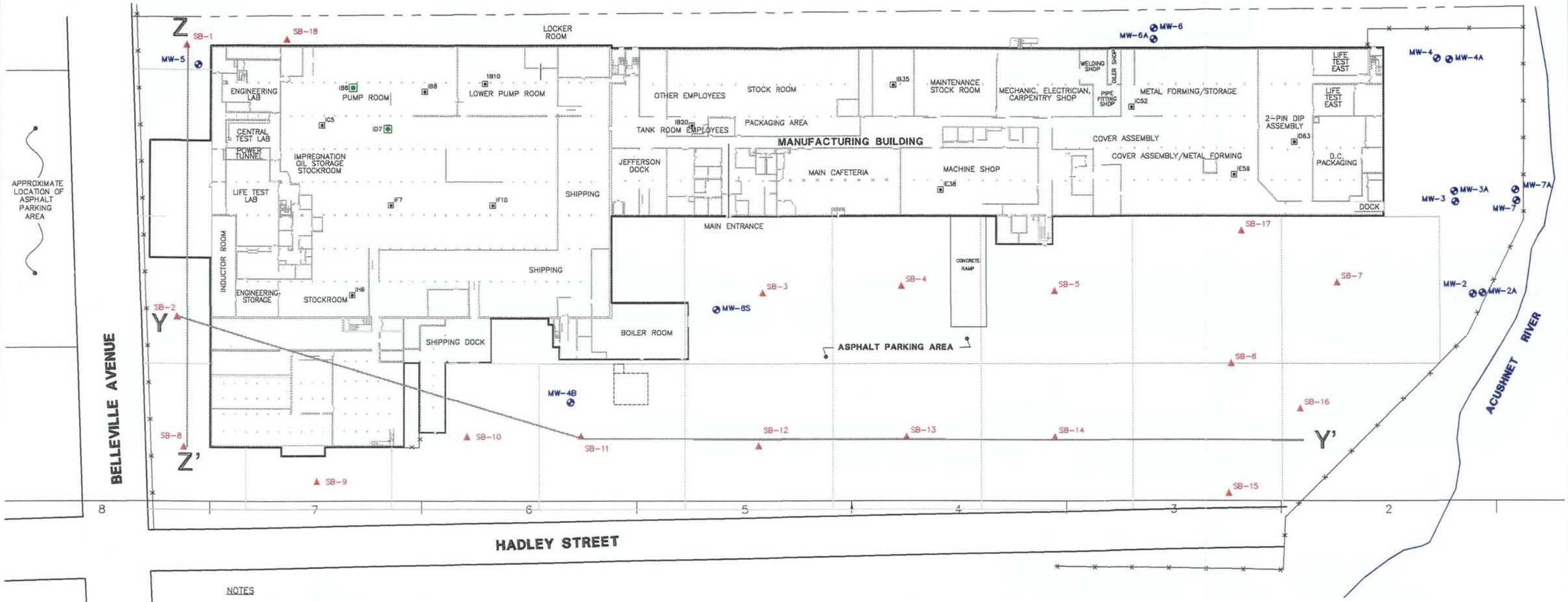
BLASLAND, BOUCK & LEE, INC.

David J. Ulm/MGC

David J. Ulm
Vice President

MGC/mbl
85780842.WPD

cc: Mr. Jonathan E. Hobill, Massachusetts Department of Environmental Protection
Mr. Robert D. Elliott, Aerovox, Inc.
Colburn T. Cherney, Esq., Ropes & Gray



NOTES

1. EXTERIOR AND INTERIOR BUILDING WALL LOCATIONS WERE OBTAINED FROM AN ELECTRONIC FILE (DRAWING NO. PAVXX-AG-0002, REVISION A, DRAWN BY D. JENKINS, DATED NOVEMBER 18, 1997) PROVIDED BY AEROVOX, INC.
2. SITE FEATURES OUTSIDE THE BUILDING (INCLUDING FENCE, PROPERTY LINE, PARKING LOT, AND ROADWAYS) WERE DIGITIZED FROM A SITE PLAN AT A SCALE OF 1"=50' PREPARED BY INDUSTRIAL RISK INSURERS, DATED MAY 8, 1992.
3. THE LIMIT OF THE FORMER SOIL EXCAVATION AT AND IN THE VICINITY OF THE CONCRETE OIL CONTAINMENT BUNKER FOUNDATION (WHICH FORMERLY SUPPORTED TWO 10,000 GALLON OIL STORAGE TANKS) WAS DIGITIZED FROM A DRAWING ENTITLED, "CONSTRUCTION SITE PLAN, SHORT TERM MEASURE, AEROVOX, INC.," PREPARED BY SAIC ENGINEERING, INC. AT A SCALE OF 1"=10', DATED JUNE 4, 1991.
4. MONITORING WELL LOCATIONS FROM "SITE PLAN SHOWING MONITORING WELL LOCATIONS", AEROVOX, INC., DRAWING SP-1, PREPARED BY GHR ENGINEERING CORPORATION, DATED 9/17/82.
5. SOIL BORING LOCATIONS ARE BASED ON FIELD MEASUREMENTS TO FIXED PROPERTY FEATURES.
6. LOCATION OF FENCE ALONG EAST PROPERTY LINE DETERMINED FROM FIELD OBSERVATIONS.
7. SOIL BORING SB-9 WAS A PROPOSED SOIL BORING LOCATION; HOWEVER IT WAS ELIMINATED BASED ON THE PRESENCE OF UNDERGROUND ELECTRICAL LINES.
8. MONITORING WELL LOGS FOR WELLS MW-1 AND MW-2S WERE ALSO USED FOR CROSS SECTION Y-Y'. THESE WELLS ARE NO LONGER EXISTING AND NOT SHOWN ON THIS FIGURE. THE WELL LOG FOR MW-1 WAS PRESENTED IN THE GHR REPORT OF SAMPLING AND ANALYSIS PROGRAM AT THE AEROVOX PROPERTY, NEW BEDFORD, MASSACHUSETTS, OCTOBER 7, 1982. THE WELL LOG FOR MW-2S WAS PRESENTED IN THE GHR SITE ASESSMENT OF SOILS AND GROUNDWATER IN THE VICINITY OF A CONCRETE OIL CONTAINMENT BUNKER, AEROVOX PROPERTY, NEW BEDFORD, MASSACHUSETTS, AUGUST 23, 1988.

LEGEND

- MW-1 EXISTING GROUND-WATER MONITORING WELL LOCATION
- ID83 PREVIOUS SOIL SAMPLING LOCATION BENEATH FLOOR SLAB (FEBRUARY, 1998)
- SB-6 SOIL BORING LOCATION OUTSIDE BUILDING
- SOIL BORING LOCATION BENEATH FLOOR SLAB (MAY, 1998)
- EXISTING FENCE
- EXISTING PROPERTY LINE
- 120' X 120' SAMPLE GRID
- GEOLOGIC CROSS-SECTION

0 80' 160'

APPROXIMATE GRAPHIC SCALE

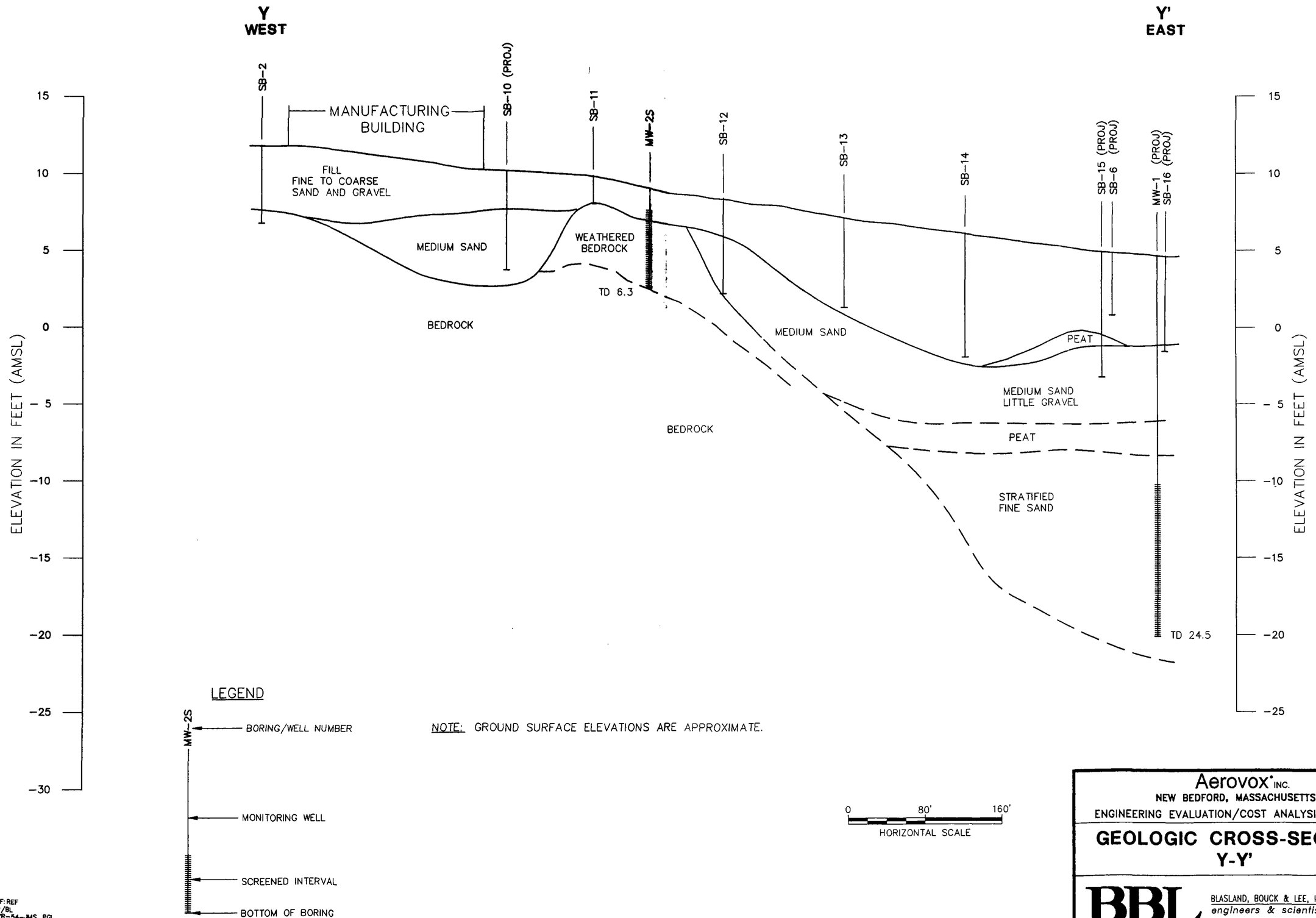
Aerovox INC.
NEW BEDFORD, MASSACHUSETTS
ENGINEERING EVALUATION/COST ANALYSIS (EE/CA)

GEOLOGIC CROSS-SECTION LOCATIONS

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 1

X (XREF)
L: OFF 0, CONCRETE FLOOR,GRID,GW*,FIG3,FILL-EX,REF,SAMPLELOCATION,SCRAPES,SEALED AREAS,SOILSAMPLERESULTS,WIPES,WOODFLOOR
P: AERO.PCP
9/14/98 DIV54-RCB, PGL, RCB, PGL JMS, PGL
03855005/03855SM5.DWG



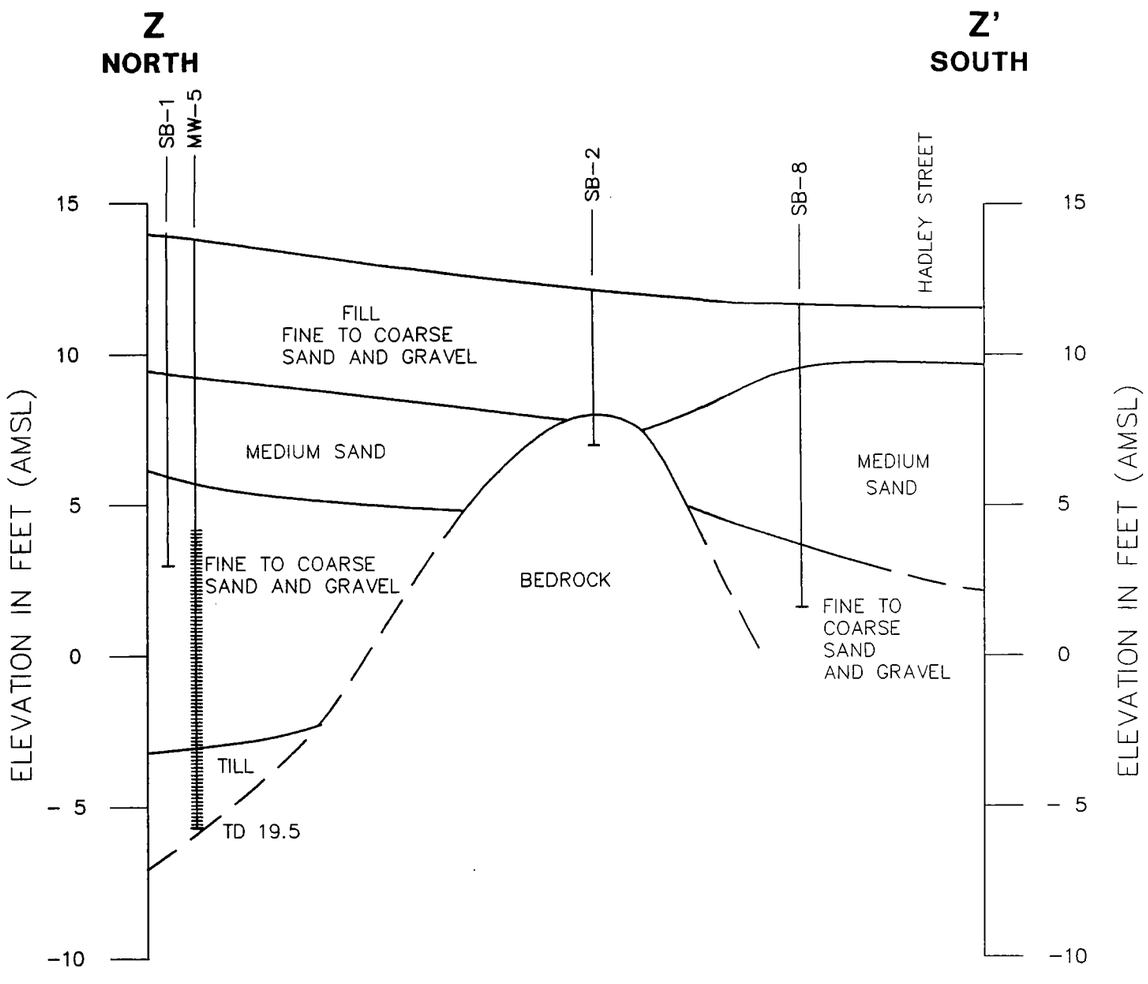
L: ON:*; OFF:REF
P: STD-PCP/BL
9/14/98-SYR-54-JMS, PGL
03855005/03855CSA.DWG

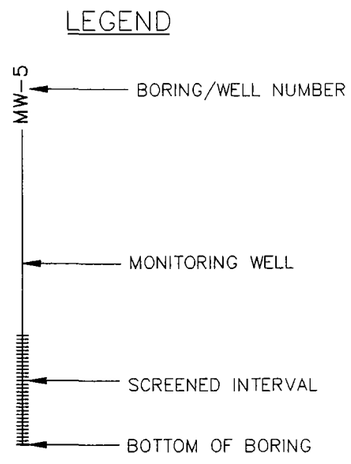
Aerovox INC.
NEW BEDFORD, MASSACHUSETTS
ENGINEERING EVALUATION/COST ANALYSIS (EE/CA)

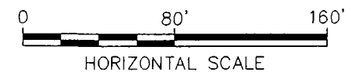
GEOLOGIC CROSS-SECTION Y-Y'

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 2







NOTE: GROUND SURFACE ELEVATIONS ARE APPROXIMATE.

Aerovox INC.
NEW BEDFORD, MASSACHUSETTS
ENGINEERING EVALUATION/COST ANALYSIS (EE/CA)

GEOLOGIC CROSS-SECTION Z-Z'

BBL BLASLAND, BOUCK & LEE, INC. *engineers & scientists*

FIGURE **3**

L: ON:*; OFF:REF
P: AERO
9/14/98-SYR-54-PGL
03855005/03855CSZ.DWG

Attachment 1

Boring/Monitoring Well Logs (provided in the order in which they are referenced in BBL's attached September 14, 1998 letter to the EPA-New England)

Date Start/Finish: 05-21-98 / 05-21-98
Drilling Company: Environmental Drilling Inc.
Driller's Name:
Drilling Method: Hollow Stem Auger

Auger Size: ID 4.25 in.
Rig Type: Acker AD II
Spoon Size: 2 in.

Borehole Depth: 5 ft.

Geologist: Doug Ruszczyk

Soil Boring No: SB-2

Client:
Aerovox Incorporated

Location:
New Bedford, MA.

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
									GROUND SURFACE	
	(1)		4 6 6 3	12	1.0	0.0			Asphalt Medium, orange-brown fine to coarse SAND, little fine Gravel, trace Silt, dry.	
	(2)		5 8 15 23	13	0.5	0.0			Medium, orange-brown, fine to coarse SAND, some fine to coarse Gravel, dry to damp. Refusal. Advanced augers to 5 ft. cutting through gneissic schist.	
5										
0										
5										

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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 05-21-98 / 05-21-98
Drilling Company: Environmental Drilling Inc.
Driller's Name:
Drilling Method: Hollow Stem Auger

Auger Size: ID 4.25 in.
Rig Type: Acker AD II
Spoon Size: 2 in.

Borehole Depth: 6 ft.

Geologist: Doug Ruszczyk

Soil Boring No: SB-10

Client:
Aerovox Incorporated

Location:
New Bedford, MA.

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
									GROUND SURFACE	
	(1)		25 35 40 18	75	0.9	0.0			Asphalt Very dense, brown/black/tan fine to coarse SAND, some fine to medium Gravel, dry.	
	(2)		11 7 5 5	12	1.0	0.0			Medium, orange-brown/tan fine to medium SAND, little Gravel, dry to moist.	
5	(3)		6 7 8 7	15	0.2	NA			Medium, orange-brown/tan fine to medium SAND, little Gravel, wet	
10										
15										

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Remarks:

NA: No headspace measurement was obtained based on the presence of saturated soil.

Saturated Zones

Date / Time	Elevation	Depth

BORING / MONITORING WELL LOG

PROJECT Aerovox Site Assessment
ADDRESS 740 Belleville Avenue, New Bedford, MA
CLIENT Aerovox, Inc.
GHR FIELD GEOLOGIST Michael J. Girioni
BORING CONTRACTOR Geo-Logic, Inc.
FOREMAN Tom Paquette

BORING No. MW-4B
LOCATION Refer to Figure 2
SHEET No. 1 OF 3
JOB No. 3232019
DATE (S) 2/16/89 - 2/17/89

GROUND ELEV. = 10.0'
TOP OF CASING ELEV. = 9.92'

CASING
SIZE: 4" ID HW
HAMMER: 300 lbs.
FALL: 24"

SAMPLER
TYPE: Split Spoon
HAMMER: 140 lbs.
FALL: 30"

GROUNDWATER LEVEL READINGS *
DATE 3/14/89 DEPTH 6.95'

* Depths relative to top of casing

DEPTH	CAS. BL. /FT.	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE BLOWS/6"	GEN. STRATA DESC.	SAMPLE DESCRIPTION	FIELD TESTING	INSTALLATION LOG	NOTES
							ASPHALT (3")		Steel Curb Box Protector	1.
		S-1	24"/18"	0.5'-2.5'	35/25/20/30	FILL	Tan/Brn F/M SAND, some C Sand, F/C Gravel, little Brick Fragments, Silt	BDL		
		S-2	24"/15"	2.5'-4.5'	20/20/40/40	FILL	Tan/Brn F/C SAND and F/C GRAVEL, little Silt, Brick Fragments	BDL		
5		S-3	24"/13"	4.5'-6.5'	48/124/46/62	FILL	Tan/Brn F/C SAND and F/C GRAVEL, occasional Cobbles, little Silt	BDL	Cement/ Bentonite Slurry (20:1)	
		S-4	24"/12"	6.5'-8.5'	17/24/25/24	FILL	Tan F/M SAND, some C Sand, little F/C Gravel, Silt	BDL		
10		S-5	24"/0"	8.5'-10.5'	24/21/16/18		No Sample Recovered		2.0" ID PVC Riser	
		S-6	24"/12"	10.5'-12.5'	16/15/14/17	GLACIAL OUTWASH	Tan M/C SAND and F/C GRAVEL, little Silt	BDL		
		S-7	24"/6"	12.5'-14.5'	50/40/25/25	GLACIAL OUTWASH	Tan F/C SAND, some F/C Gravel, little Silt (2") overlying GREY COBBLE (4")	BDL		
15		S-8	24"/13"	14.5'-16.5'	34/56/17/18	GLACIAL OUTWASH	Tan VF/C SAND and F/C GRAVEL, little Silt	BDL		
		S-9	24"/6"	16.5'-18.5'	16/14/9/12	GLACIAL OUTWASH	Tan VF/C SAND, some F/M Gravel, little Silt	BDL		
20		S-10	12"/6"	18.5'-19.5'	15/120	GLACIAL OUTWASH	Tan/Red C SAND and F/C GRAVEL, little F/M Sand	BDL		
							Bedrock at 21'. Refer to Rock Core Log for description.			
25									Bentonite Seal	
30									Filter Sand	
35									2.0" ID PVC Well Screen (.010 Slot)	
40										

NOTES:

1. Refer to Note 1, Boring/Monitoring Well Log B-8.

GHR

BORING/MONITORING WELL LOG

BORING No. MW-48

SHEET No. 2 OF 3

JOB No. 3232019

DEPTH	CAS. BL. /FT.	SAMPLE No.	SAMPLE PEN./REC.	SAMPLE DEPTH	SAMPLE BLOWS/6"	GEN. STRATA DESC.	SAMPLE DESCRIPTION	FIELD TESTING	INSTALLATION LOG	NOTES
										
45							Bottom of Core Hole at 43'.			

NOTES:

ROCK CORE LOG

PROJECT Aerovox Site Assessment
ADDRESS 740 Belleville Avenue, New Bedford, MA
CLIENT Aerovox, Inc.
GHR FIELD GEOLOGIST Michael J. Girioni
BORING CONTRACTOR Geo-Logic, Inc.
FOREMAN Tom Paquette

BORING No. MW-4B
LOCATION Refer to Figure 2
SHEET No. 3 OF 3
JOB No. 3232019
DATE(S) 2/16/89 - 2/17/89

GHR

GROUND ELEV. = 10.0'
TOP OF CASING ELEV. = 9.92'

CORE SIZE 2" ID
CORE TYPE NVD
INCLINATION
BEARING

GROUNDWATER LEVEL READINGS
DATE 3/14/89 DEPTH 6.95'

SAMPLE DEPTH	SAMPLE TYPE AND No.	SAMPLE IN. OF REC.	CORE TIME MIN/FT	R.Q.D. %	R.Q.D. GRAPHIC	PACKER TEST gpm/psi	PACKER TEST K ft/day	STRIKE/DIP TYPE OF FRACTURE	GRAPHIC LOG	GRAPHIC AND DESCRIPTIVE LOG (FRACTURE DESCRIPTION) (ROCK DESCRIPTION)	NOTES
25	C-1	55	2.5 3 3 3.5 3	94				D F F		Grey/Green CHLORITE GNEISSIC SCHIST with K-Feldspar and Quartz (compositionally appears to be a metamorphosed granite), little medium to high angled fractures along foliation. CHLORITE GNEISSIC SCHIST	
30	C-2	60	3 3.5 3.5 3 3	100				F F F		Grey/Green CHLORITE GNEISSIC SCHIST with K-Feldspar and Quartz (compositionally appears to be a metamorphosed granite), little medium to high angled fractures along foliation. CHLORITE GNEISSIC SCHIST	
35	C-3	60	3 3.5 3.5 3 3	86				D F F F D		Grey/Green CHLORITE GNEISSIC SCHIST with K-Feldspar and Quartz (compositionally appears to be a metamorphosed granite), some medium to high angled fractures with Iron/Manganese staining and Silt along fractures. CHLORITE GNEISSIC SCHIST	
40	C-4	60	3 3 3 3.5 3.5	90				F F F		Grey/Green CHLORITE GNEISSIC SCHIST with K-Feldspar and Quartz (compositionally appears to be a metamorphosed granite), some medium to high angled fractures with Iron/Manganese staining and Silt along fractures. CHLORITE GNEISSIC SCHIST	

LEGEND:

J-JOINT
T-FAULT
F-FOLIATION
B-BEDDING
C-CONTACT
S-SLICKENSIDE
D-DRILLING BREAK
M-MINERALIZATION ZONE
WX-WEATHERED ZONE
K-PERMEABILITY

TYPE OF SAMPLE:
C-CORE
S-SPLIT SPOON

NOTES:

MW-6 & MW-6A

BORING / OBSERVATION WELL SUMMARY LOG

BORING No. 6

PROJECT Aerovox SHEET 1 OF 1

LOCATION New Bedford, MA CONTRACTOR D.L. Maher

CLIENT Aerovox DATE INSTALLED July 28, 1982

GHR FIELD ENGR. G. Hartley, G. Keegan

DEPTH	STRATA DESCRIPTIONS	INSTALLATION LOG	FIELD SAMPLING I.D. No.	DEPTH	SAMPLE DESCRIPTIONS	NOTES
	Black topsoil (0.2') over medium-coarse sand 5.5'	Well #6A 2" PVC	AV 93	0-2'	Soil	
			AV 94	2-4'	Soil: PCB = 23	1
			AV 95	4-6'	Soil	
			AV 96	6-8'	Soil	
10	Stratified fine-medium sand & medium-coarse sand, with gravel & silty lenses	10.0'	AV 97	8-10'	Soil	
			AV 98	12-14'	Soil: PCB = < 2	
			AV 99	14-16'	Soil	
20			AV 100	18-20'	Soil	
			AV 101	23-25'	Soil	
30		Well #6, 2" PVC	AV 102	28-30'	Soil	
			AV 103	33-35'	Soil	
			AV 104	36-38'	Soil	
40	40.0'					
	Dense sand & gravel with micacious silt 45.5'	45.0'	AV 105	44-45'	Soil	
	Refusal @ 45.5'					
50		Bentonite seals installed: #6 30-32' #6A 3-4'				

NOTES:

1. PCB levels reported are totals for Arochlor 1242 and 1254 in parts per million (dry weight basis).

GHR

ACCT. No. 2463

MW-4 & MW-4A

BORING / OBSERVATION WELL SUMMARY LOG

BORING No. 4

PROJECT Aerovox SHEET 1 OF 1

LOCATION New Bedford, MA CONTRACTOR D.L. Maher

CLIENT Aerovox DATE INSTALLED July 27, 1982

GHR FIELD ENGR. G. Hartley, G. Keegan

DEPTH	STRATA DESCRIPTIONS	INSTALLATION LOG	FIELD SAMPLING I.D. No.	DEPTH	SAMPLE DESCRIPTIONS
0	Mixed fill containing cinders, pieces of peat & brick, & tar-like material	Well #4A 2" PVC	AV 78	0-2'	Soil
			AV 79	2-4'	Soil
5			AV 80	4-6'	Soil: PCB = 72
	5.5'	6.5'	AV 81	6-8'	Soil
	Peat		AV 82	8-10'	Soil
	8.7'				
10	Medium-coarse sand & gravel	Well #4, 2" PVC	AV 83	10-12'	Soil: PCB = 23
15					
			AV 84	18-20'	Soil: PCB = Trace
20	20.3'	20.0'			
	Bottom of boring @ 20.3'	Bentonite seals installed: #4 8-10' #4A 1-1.5'			

NOTES:
1. PCB levels reported are totals for Arochlor 1242 and 1254 in parts per million (dry weight basis).
2. Trace = less than 1.0 ppm.

GHR

ACCT No. 2463

Date Start/Finish: 05-21-98 / 05-21-98
Drilling Company: Environmental Drilling Inc.
Driller's Name:
Drilling Method: Hollow Stem Auger

Auger Size: ID 4.25 in.
Rig Type: Acker AD II
Spoon Size: 2 in.

Borehole Depth: 3 ft.

Geologist: Doug Ruszczyk

Soil Boring No: SB-11

Client:
Aerovox Incorporated

Location:
New Bedford, MA.

DEPTH / ELEVATION	Sample / Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID / Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
									GROUND SURFACE	
	1B		5 8 10 50/ 0.1'	18	1.0	112			Asphalt and Cobbles Medium, brown/black/tan, fine to coarse SAND, some fine to medium Gravel, Rock at tip of spoon, dry. Refusal, possible top of rock. Augers advanced to 3 feet returning fragments of gneissic schist.	
5										
0										
-5										

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Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 05-20-98 / 05-20-98
Drilling Company: Environmental Drilling Inc.
Driller's Name:
Drilling Method: Hollow Stem Auger

Auger Size: ID 4.25 in.
Rig Type: Acker AD II
Spoon Size: 2 in.

Borehole Depth: 8 ft.

Geologist: Doug Ruszczyk

Soil Boring No: SB-12

Client:
Aerovox Incorporated

Location:
New Bedford, MA.

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
									GROUND SURFACE	
	(1)		4 9 13 5	22	1.5	1.1			Asphalt Medium, dark brown/black to orange-brown fine to coarse SAND, little Gravel, trace Silt, dry. (Black discoloration in 0' to 1' interval)	
	(2)		12 18 18 20	36	1.4	0.0			Medium, orange-brown to tan fine to medium SAND, trace Silt, dry to damp.	
5	(3)		20 21 14 17	35	1.4	0.0			Medium, orange-brown to tan fine to medium SAND, trace Silt, Rock at tip of spoon, damp to moist.	
									Refusal, with gneissic schist rock fragments in spoon, wet.	
10										
15										

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks:

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 05-20-98 / 05-20-98 **Drilling Company:** Environmental Drilling Inc. **Driller's Name:** **Drilling Method:** Hollow Stem Auger **Auger Size:** ID 4.25 in. **Rig Type:** Acker AD II **Spoon Size:** 2 in.	**Borehole Depth:** 12 ft. **Geologist:** Doug Ruszczyk	**Soil Boring No:** SB-1 **Client:** Aerovox Incorporated **Location:** New Bedford, MA.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
										GROUND SURFACE	
		(1)		1 3 7 2	10	0.8	0.5			Loose, Dark brown to black fine to coarse SAND, trace Silt and Gravel, dry. (Black discolbration in 1'-2' interval).	
		(2)		2 3 5 2	8	1.2	0.0			Loose, orange-brown, fine to coarse SAND, trace Silt and Gravel, dry.	
5		(3)		2 3 3 3	6	1.0	0.1			Loose, tan fine to coarse SAND, trace Silt and fine Gravel, dry to damp.	
		(4)		4 18 22 18	40	1.0	1.1			Dense, tan fine to coarse SAND, some fine to medium Gravel, trace Silt, damp.	
		(5)		17 20 18 19	38	0.7	0.1			Dense, tan fine to coarse SAND, some fine to medium Gravel, trace Silt, damp to moist.	
10		(6)		14 18 18 17	35	1.0	NA			Dense, tan medium to coarse SAND, some fine to medium Gravel, little fine Sand and Silt, wet.	
15											

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engineers & scientists

Remarks:

NA: No headspace measurement was obtained based on the presence of saturated soil.

Saturated Zones

Date / Time	Elevation	Depth

Date Start/Finish: 05-21-98 / 05-21-98
Drilling Company: Environmental Drilling Inc.
Driller's Name:
Drilling Method: Hollow Stem Auger

Auger Size: ID 4.25 in.
Rig Type: Acker AD II
Spoon Size: 2 in.

Borehole Depth: 10 ft.

Geologist: Doug Ruszczyk

Soil Boring No: SB-8

Client:
Aerovox Incorporated

Location:
New Bedford, MA.

DEPTH / ELEVATION	Sample / Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Soil Boring Construction
									GROUND SURFACE	
	(1)		4 6 8 7	14	L3	3.1			Asphalt Medium, orange-brown to tan, fine to coarse SAND, little fine to medium Gravel, trace Silt, dry.	
	(2)		11 13 15 12	28	0.8	0.0			Medium, orange-brown, fine to medium SAND, some fine to medium Gravel, dry.	
5	(3)		15 20 25 18	45	L1	0.9			Dense, orange-brown, fine to medium SAND, some fine to medium Gravel, dry.	
	(4)		18 25 32 28	57	L2	0.1			Very dense, orange-brown, fine to medium SAND, some fine to medium Gravel, dry to damp.	
0	(5)		10 21 48 34	69	0.4	NA			Very dense, tan medium to coarse SAND and medium to coarse GRAVEL, wet.	
-5										

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engineers & scientists

Remarks:
NA: No headspace measurement was obtained based on the presence of saturated soil.

Saturated Zones

Date / Time	Elevation	Depth

MW-5

BORING / OBSERVATION WELL SUMMARY LOG

BORING No. 5

PROJECT Aerovox SHEET 1 OF 1

LOCATION New Bedford, MA CONTRACTOR D.L. Maher

CLIENT Aerovox DATE INSTALLED July 28, 1982

GHR FIELD ENGR. G. Hartley, G. Keegan

DEPTH	STRATA DESCRIPTIONS	INSTALLATION LOG	FIELD SAMPLING I.D. No.	DEPTH	SAMPLE DESCRIPTIONS
	Mixed sandy fill with pieces of brick		AV 85	0-2'	Soil
			AV 86	2-4'	Soil: PCB = < 2
		Bentonite seal 3-6'			
			AV 87	4-6'	Soil
5					
	Yellow medium sand		AV 88	6-8'	Soil
			AV 89	8-10'	Soil
	Stratified sand & gravel	Well #5, 2" PVC	AV 90	10-12'	Soil: PCB = Trace
10					
15			AV 91	15-17'	Soil
	Glacial till with clay fines		AV 92	17-19'	Soil
		19.5'			
20					
	Refusal @ 20.0' (No peat layer encountered)				

4.4'

8.8'

17.0'

20.0'

NOTES:

1. PCB levels reported are totals for Arochlor 1242 and 1254 in parts per million (dry weight basis).
2. Trace = less than 1.0 ppm.

GHR

ACCT No. 2463