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Memorandum

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Subject: Summary of June 2011 New Bedford High School Dioxin and PCB Congener Soil Sampling Results and Explanation of Dioxin Toxic Equivalents (TEQs)

Date: September 22, 2011

The purpose of the memorandum is to provide a summary of the June 2011 dioxin and PCB congener soil sampling results from the New Bedford High School campus, and to provide an explanation for the Toxic Equivalent or TEQ approach for expressing environmental data for polychlorinated dioxins (dioxins), polychlorinated dibenzofurans (furans), and dioxin-like polychlorinated biphenyls (PCBs), sometimes collectively referred to as dioxin-like compounds or congeners. These data may be used in toxicological studies or risk assessments.

On June 7-10, 2011, soil investigative sampling was conducted for polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) (collectively referred to as dioxin compounds), as well as PCB congeners. A total of eighteen samples were collected from nine sample locations and analyzed for chlorinated dioxins by SW-846 Method 8290A, and PCB congeners by SW-846 Method 1668A.

The sampling locations included previous sample locations estimated as worst case scenarios based on a review of all soil data collected, and locations that provide data that are representative of potential exposures across the New Bedford High School campus. At each sample location, a sample was taken of the top one foot soil interval, and the one to three foot soil interval. Sample locations are identified on Figure 1.

A summary of Dioxins TEQs, PCB Congeners, and TEQ Summation results is included in Table 1. A summary of Dioxin compound results is included in Table 2, and a summary of PCB congener results is included in Table 3.

One compound of the dioxin-class of compounds is 2,3,7,8-tetrachlorodibenzo-*p*-dioxin, also sometimes simply called dioxin. Because this compound has undergone extensive study, its toxicity is fairly well characterized and it appears to be one of the most toxic of the dioxin-like compounds, its toxicity is used as the reference point for this entire class of compounds. The toxicity of the other dioxin-like compounds is less well characterized, but there have been numerous published studies that determined the relative toxicity of many of the dioxin-like compounds, compared to dioxin. To provide a way to measure the relative concern for dioxin-like compounds as compared to dioxin, dioxin has been assigned a toxicity equivalence factor (TEF) of 1. Other dioxin-like compounds are

given equal or lower TEFs, with the TEF assigned approximately proportional to a compound's toxicity relative to that of dioxin (e.g., a TEF of 0.1 means that the compound is 10-times less toxic than dioxin).

The individual TEF values have been set by scientific consensus through organizations such as the United Nations World Health Organization (WHO) and the United States National Oceanic and Atmospheric Administration (NOAA).

The TEQ method of dioxin reporting is more meaningful than simply reporting the total concentration of a mixture of variously toxic compounds because the TEQ method offers toxicity information about the mixture. TEQs are determined by summing the products of concentrations and TEFs for each dioxin-like compound as follows:

$$TEQ = \sum (Dioxin_i \; x TEF_i) + \sum (Furan_i \; x TEF_i) + \sum (PCB_i x TEF_i)$$

where:

TEQ	=	Toxic equivalent concentration
$Dioxin_i$	=	Polychlorinated dioxin congener
$Furan_i$	=	Polychlorinated dibenzofuran congener
PCB_i	=	Dioxin-like PCB congener
TEF_i	=	Toxic equivalency factor

MassDEP has not established standards or background concentrations for individual dioxin-like compounds, most likely because it has adopted the TEQ approach. Toxicologist, risk assessors, and environmental regulators use TEQ estimates instead of individual congener concentrations to assess the toxicity of dioxin-like compounds. For this reason, the dioxin-like compound concentration data are presented somewhat differently from other tabulations of concentration data for this project.

Note that data summaries include only TEQs calculated using the WHO TEFs. The prior data summaries included dioxin TEQs calculated using the Massachusetts Department of Environmental Protection (MassDEP) established TEFs, which differ from the WHO TEFs. MassDEP, as part of their re-evaluation of their 1991 dioxin TEFs, is in the process of adopting the WHO TEFs as the most current set of TEFs available. In addition, the United States Environmental Protection Agency (EPA) formally adopted the WHO TEFs in December 2010.

References

MassDEP, 1991 Re-evaluation of the Toxicity Equivalency Factors for Dioxins and Dibenzofurans. Office of Research and Standards. Massachusetts Department of Environmental Protection. October 1991.

Van den Berg, M. et al., 2006. The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicol. Sci. 93(2):223-241. October 2006.

TABLE 1
Summary of Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						HA-43/44		HB-22		PG-6		SB-359		SB-362		SB-365	
		Sample Depth (ft.):						0-1	1-2	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:						06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/10/2011	06/10/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/07/2011	06/07/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA												
Dioxins																			
(mg/kg)	TEQs (WHO2005, ND=0, EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**7.9E-06**	**9.2E-06**	**1.5E-05**	**1.5E-03**	**7.0E-08**	**1.7E-07**	**4.8E-06**	**9.6E-07**	**4.0E-06**	**3.6E-06**	**1.5E-06**	**3.7E-07**
	TEQs (WHO2005, ND=DL/2, EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**8.4E-06**	**9.7E-06**	**2.1E-05**	**1.5E-03**	**6.1E-06**	**5.8E-06**	**5.8E-06**	**2.2E-06**	**4.5E-06**	**4.5E-06**	**2.0E-06**	**4.7E-06**
PCB Congeners																			
(mg/kg)	***Total PCB Congeners***	2	2	3	3	2	1	**2.6E-01**	**1.8E-01**	**8.7E-01**	**1.4E+00**	**1.7E-03**	**5.9E-03**	**5.9E-02**	**5.6E-03**	**7.8E-01**	**2.8E-01**	**2.4E-02**	**3.9E-01**
	Dioxin-like PCB TEQs (ND=0 EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**4.4E-07**	**2.7E-07**	**2.9E-06**	**2.9E-05**	**4.0E-09**	**2.2E-08**	**1.2E-07**	**1.0E-08**	**2.6E-06**	**7.8E-07**	**3.0E-08**	**1.5E-06**
	Dioxin-like PCB TEQs (ND=DL/2; EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**1.4E-05**	**1.4E-05**	**1.6E-05**	**3.3E-05**	**1.2E-06**	**1.3E-06**	**1.8E-06**	**1.7E-06**	**1.4E-05**	**1.6E-05**	**1.2E-05**	**1.4E-05**
TEQ Summation**																			
(mg/kg)	***TEQs (ND=0; EMPC=EMPC)***	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**8.3E-06**	**9.4E-06**	**1.8E-05**	**1.6E-03**	**7.4E-08**	**1.9E-07**	**4.9E-06**	**9.7E-07**	**6.6E-06**	**4.4E-06**	**1.5E-06**	**1.9E-06**
	TEQs (ND=DL/2; EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**2.2E-05**	**2.4E-05**	**3.7E-05**	**1.6E-03**	**7.3E-06**	**7.1E-06**	**7.6E-06**	**3.9E-06**	**1.9E-05**	**2.1E-05**	**1.4E-05**	**1.9E-05**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

ND - Not detected.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards.

Values shown in Bold and shaded type exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

** - Sum of Dioxin-like PCB Congeners TEQ and Dioxins TEQ.

TABLE 1
Summary of Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SS-28		SS-38		SS-52	
		Sample Depth (ft.):						0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:						06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA						
Dioxins													
(mg/kg)	TEQs (WHO2005, ND=0, EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**8.4E-06**	**8.0E-07**	**3.0E-05**	**3.5E-06**	**4.5E-06**	**9.3E-06**
	TEQs (WHO2005, ND=DL/2, EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**8.9E-06**	**2.6E-06**	**3.6E-05**	**4.5E-06**	**5.0E-06**	**9.8E-06**
PCB Congeners													
(mg/kg)	***Total PCB Congeners***	2	2	3	3	2	1	**5.4E-01**	**2.3E-02**	**1.1E+00**	**6.3E-02**	**1.0E+00**	**1.4E+00**
	Dioxin-like PCB TEQs (ND=0 EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**2.3E-06**	**5.4E-08**	**4.4E-06**	**2.8E-07**	**3.4E-06**	**4.0E-06**
	Dioxin-like PCB TEQs (ND=DL/2; EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**1.5E-05**	**1.5E-06**	**1.9E-05**	**1.9E-06**	**1.6E-05**	**1.9E-05**
TEQ Summation**													
(mg/kg)	***TEQs (ND=0; EMPC=EMPC)***	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**1.1E-05**	**8.6E-07**	**3.5E-05**	**3.7E-06**	**7.9E-06**	**1.3E-05**
	TEQs (ND=DL/2; EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**2.4E-05**	**4.1E-06**	**5.5E-05**	**6.3E-06**	**2.1E-05**	**2.9E-05**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

ND - Not detected.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards.

Values shown in Bold and shaded type exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

** - Sum of Dioxin-like PCB Congeners TEQ and Dioxins TEQ.

TABLE 2
Summary of Dioxin Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA	HA-43/44		HB-22		PG-6		SB-359		SB-362		SB-365	
		Sample Depth (ft.):							0-1	1-2	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:							06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/10/2011	06/10/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/07/2011	06/07/2011
Dioxins																				
(mg/kg)	2,3,7,8-TCDD								1.0E-06 U	1.1E-06 U	1.0E-05 U	**2.3E-05 J**	1.1E-06 U	1.2E-06 U	1.3E-06 U	1.3E-06 U	1.1E-06 U	1.2E-06 U	1.1E-06 U	1.1E-06 U
	1,2,3,7,8-PeCDD								**1.0E-06 JK**	**8.4E-07 J**	**4.4E-06 JK**	**3.3E-04 J**	5.4E-06 U	6.2E-06 U	**9.9E-07 JK**	**2.2E-07 J**	**6.6E-07 JK**	**1.0E-06 JK**	**4.0E-07 JK**	5.4E-06 U
	1,2,3,4,7,8-HxCDD								**6.0E-07 J**	**4.2E-07 J**	**3.9E-06 J**	**7.5E-04**	5.4E-06 U	6.2E-06 U	**1.0E-06 J**	6.4E-06 U	**3.2E-07 J**	**3.6E-07 J**	**2.6E-07 J**	5.4E-06 U
	1,2,3,6,7,8-HxCDD								**1.6E-06 J**	**1.6E-06 J**	**8.8E-06 J**	**1.9E-03**	5.4E-06 U	6.2E-06 U	**2.1E-06 J**	**3.0E-07 J**	**1.2E-06 J**	**1.2E-06 J**	**3.2E-07 J**	5.4E-06 U
	1,2,3,7,8,9-HxCDD								**1.4E-06 J**	**8.6E-07 J**	**7.4E-06 J**	**1.3E-03**	5.4E-06 U	6.2E-06 U	**2.5E-06 J**	**2.5E-07 J**	**8.6E-07 J**	**9.3E-07 J**	**3.9E-07 J**	5.4E-06 U
	1,2,3,4,6,7,8-HpCDD								**2.8E-05**	**1.7E-05**	**1.9E-04**	**4.7E-02**	**7.1E-07 J**	**3.8E-07 JK**	**5.1E-05**	**5.4E-06 J**	**2.2E-05**	**1.9E-05**	**8.2E-06**	**1.3E-06 J**
	1,2,3,4,6,7,8,9-OCDD								**8.6E-04**	**1.1E-03**	**1.7E-03**	**3.8E-01**	**6.9E-05**	**4.3E-05**	**1.5E-03**	**6.0E-05**	**7.3E-04**	**8.5E-04**	**2.4E-04**	**5.4E-05**
	2,3,7,8-TCDF								**4.3E-06**	**5.1E-06**	**7.4E-06 JK**	**2.3E-04**	**4.1E-07 J**	**4.9E-07 J**	**1.2E-06 J**	**9.9E-07 J**	**3.6E-06**	**5.3E-06**	**1.0E-06 J**	**5.0E-07 JK**
	1,2,3,7,8-PeCDF								**6.3E-06**	**5.0E-06 J**	**1.1E-05 J**	**4.7E-05 J**	5.4E-06 U	**1.9E-07 J**	**3.9E-06 J**	**7.2E-07 J**	**9.5E-06**	**8.7E-06**	**1.8E-06 J**	**2.2E-06 J**
	2,3,4,7,8-PeCDF								**1.2E-05**	**1.6E-05**	**9.2E-06 J**	**1.1E-04 J**	5.4E-06 U	**3.0E-07 J**	**4.5E-06 J**	**9.5E-07 J**	**3.8E-06 J**	**1.2E-06 J**	**6.9E-07 J**	**3.5E-07 J**
	1,2,3,4,7,8-HxCDF								**3.3E-06 J**	**3.0E-06 J**	**7.2E-06 J**	**3.0E-04 J**	5.4E-06 U	6.2E-06 U	**3.6E-06 J**	**5.6E-07 J**	**3.1E-06 J**	**3.4E-06 J**	**1.2E-06 J**	**5.3E-07 J**
	1,2,3,6,7,8-HxCDF								**3.1E-06 J**	**4.1E-06 J**	**3.8E-06 J**	**1.6E-04 J**	5.4E-06 U	6.2E-06 U	**1.4E-06 J**	**5.4E-07 J**	**2.0E-06 J**	**1.9E-06 J**	**4.2E-07 J**	**3.1E-07 JK**
	2,3,4,6,7,8-HxCDF								**7.6E-06**	**1.2E-05**	**6.2E-06 J**	**1.7E-04 J**	5.4E-06 U	**8.9E-08 JK**	6.5E-06 U	**6.9E-07 J**	**1.5E-06 J**	**1.3E-06 J**	**7.8E-07 J**	**2.7E-07 JK**
	1,2,3,7,8,9-HxCDF								**4.6E-07 JQ**	**8.2E-07 JQ**	**3.6E-06 J**	**4.1E-05 JQ**	5.4E-06 U	6.2E-06 U	**3.9E-07 JKQ**	6.4E-06 U	**3.4E-07 JQ**	5.8E-06 QU	**2.4E-07 J**	5.4E-06 U
	1,2,3,4,6,7,8-HpCDF								**1.6E-05**	**1.4E-05**	**6.6E-05**	**7.7E-03**	**1.0E-07 JK**	**1.2E-07 J**	**1.5E-05**	**2.7E-06 J**	**1.3E-05**	**8.4E-06**	**1.9E-05**	**1.0E-06 J**
	1,2,3,4,7,8,9-HpCDF								**1.2E-06 J**	**1.1E-06 J**	**4.4E-06 J**	**8.4E-04**	5.4E-06 U	6.2E-06 U	**7.8E-07 J**	**1.9E-07 JK**	**1.3E-06 J**	**1.1E-06 J**	**2.5E-07 J**	**1.3E-07 J**
	1,2,3,4,6,7,8,9-OCDF								**1.7E-05**	**1.0E-05 J**	**1.7E-04**	**4.3E-02**	**2.2E-07 J**	**2.3E-07 J**	**2.9E-05**	**3.6E-06 J**	**1.9E-05**	**9.9E-06 J**	**8.2E-06 J**	**9.8E-07 JK**
	Total Tetrachlorodibenzo-p-dioxin								**1.2E-06 J**	**4.6E-07 J**	1.0E-05 U	**4.9E-04**	1.1E-06 U	1.2E-06 U	**5.4E-07 J**	**2.0E-06 J**	**4.6E-07 J**	**2.5E-06**	**3.9E-07 J**	1.1E-06 U
	Total Pentachlorodibenzo-p-dioxin								**7.0E-06 JQ**	**4.8E-06 JQ**	**2.6E-05 J**	**2.4E-03 Q**	5.4E-06 U	6.2E-06 U	**5.3E-06 JQ**	**1.9E-06 J**	**5.7E-06 JQ**	**6.7E-06 JQ**	**2.5E-06 J**	5.4E-06 U
	Total Hexachlorodibenzo-p-dioxin								**1.9E-05**	**1.4E-05**	**9.4E-05**	**1.5E-02**	5.4E-06 U	6.2E-06 U	**1.9E-05**	**2.3E-06 J**	**1.5E-05**	**1.4E-05**	**4.8E-06 J**	**6.7E-07 J**
	Total Heptachlorodibenzo-p-dioxin								**5.9E-05**	**3.3E-05**	**3.6E-04**	**9.2E-02**	**1.4E-06 J**	**7.7E-07 J**	**8.8E-05**	**9.0E-06**	**4.9E-05**	**3.9E-05**	**1.7E-05**	**2.5E-06 J**
	Total Tetrachlorodibenzofuran								**9.2E-05**	**9.8E-05 Q**	**2.5E-04**	**9.4E-04**	**1.2E-06 J**	**1.5E-06**	**2.6E-05**	**9.7E-06**	**1.6E-04**	**8.9E-05 Q**	**1.6E-05**	**6.2E-05**
	Total Pentachlorodibenzofuran								**1.6E-04 Q**	**8.3E-05 Q**	**1.9E-04**	**1.4E-03 Q**	**3.2E-07 J**	**1.2E-06 J**	**3.5E-05 Q**	**7.7E-06**	**8.3E-05 Q**	**5.3E-05 Q**	**1.7E-05**	**2.8E-05**
	Total Hexachlorodibenzofuran								**9.8E-05**	**1.4E-04 Q**	**1.1E-04**	**8.6E-03**	5.4E-06 U	**1.1E-06 J**	**3.8E-05**	**5.2E-06 J**	**3.5E-05**	**3.4E-05**	**1.3E-05**	**3.3E-06 J**
	Total Heptachlorodibenzofuran								**3.5E-05**	**2.8E-05**	**1.9E-04**	**4.0E-02**	**2.9E-07 J**	**3.0E-07 J**	**3.3E-05**	**4.9E-06 J**	**2.8E-05**	**1.8E-05**	**2.9E-05**	**2.2E-06 J**
	TEQs (WHO2005, ND=0, EMPC=EMPC)		2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**7.9E-06**	**9.2E-06**	**1.5E-05**	**1.5E-03**	**7.0E-08**	**1.7E-07**	**4.8E-06**	**9.6E-07**	**4.0E-06**	**3.6E-06**	**1.5E-06**	**3.7E-07**
	TEQs (WHO2005, ND=DL/2, EMPC=EMPC)		2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**8.4E-06**	**9.7E-06**	**2.1E-05**	**1.5E-03**	**6.1E-06**	**5.8E-06**	**5.8E-06**	**2.2E-06**	**4.5E-06**	**4.5E-06**	**2.0E-06**	**4.7E-06**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

K - Estimated Maximum Possible Concentration.

ND - Not detected.

Q - Quantitative interference.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards.

Values shown in Bold and shaded type exceed TSCA but are less than the listed Method 1 standards.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

TABLE 2
Summary of Dioxin Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SS-28				SS-38				SS-52			
		Sample Depth (ft.):						0-1		1-3		0-1		1-3		0-1		1-3	
		Sample Date:						06/08/2011		06/08/2011		06/08/2011		06/08/2011		06/08/2011		06/08/2011	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA												
Dioxins																			
(mg/kg)	2,3,7,8-TCDD							1.1E-06	U	1.2E-06	U	1.2E-05	U	1.3E-06	U	1.1E-06	U	1.1E-06	U
	1,2,3,7,8-PeCDD							**1.3E-06**	**J**	**1.3E-07**	**JK**	**4.1E-06**	**JK**	**9.4E-07**	**J**	**7.1E-07**	**JK**	**9.7E-07**	**JK**
	1,2,3,4,7,8-HxCDD							**5.9E-07**	**JK**	6.1E-06	U	**2.1E-06**	**J**	**5.9E-07**	**J**	**3.8E-07**	**J**	**7.8E-07**	**J**
	1,2,3,6,7,8-HxCDD							**1.5E-06**	**J**	6.1E-06	U	**4.3E-06**	**J**	**1.2E-06**	**JK**	**1.4E-06**	**J**	**5.5E-06**	**J**
	1,2,3,7,8,9-HxCDD							**9.8E-07**	**J**	6.1E-06	U	**4.4E-06**	**J**	**7.8E-07**	**JK**	**8.3E-07**	**J**	**1.7E-06**	**J**
	1,2,3,4,6,7,8-HpCDD							**1.9E-05**		**1.7E-06**	**J**	**4.6E-05**	**J**	**4.8E-06**	**J**	**4.0E-05**		**1.9E-04**	
	1,2,3,4,6,7,8,9-OCDD							**2.6E-04**		**4.1E-05**		**5.5E-04**		**3.4E-05**		**1.1E-03**		**4.2E-03**	
	2,3,7,8-TCDF							**3.0E-06**		**9.2E-07**	**J**	**5.0E-05**		**5.9E-06**		**2.6E-06**		**5.5E-06**	
	1,2,3,7,8-PeCDF							**1.4E-05**		**8.0E-07**	**J**	**7.4E-05**		**3.7E-06**	**J**	**8.9E-06**		**3.7E-06**	**J**
	2,3,4,7,8-PeCDF							**7.3E-06**		**1.1E-06**	**J**	**3.6E-05**	**J**	**2.9E-06**	**J**	**3.6E-06**	**J**	**5.1E-06**	**J**
	1,2,3,4,7,8-HxCDF							**1.6E-05**		**5.4E-07**	**J**	**2.9E-05**	**J**	**2.6E-06**	**J**	**5.5E-06**		**9.0E-06**	
	1,2,3,6,7,8-HxCDF							**9.2E-06**		**3.9E-07**	**J**	**1.4E-05**	**J**	**1.6E-06**	**J**	**2.6E-06**	**J**	**3.6E-06**	**J**
	2,3,4,6,7,8-HxCDF							**4.7E-06**	**J**	**8.0E-07**	**J**	**1.1E-05**	**J**	**1.6E-06**	**J**	**1.7E-06**	**J**	**1.8E-06**	**J**
	1,2,3,7,8,9-HxCDF							**1.6E-06**	**JQ**	6.1E-06	U	**6.4E-06**	**J**	6.6E-06	U	**4.7E-07**	**JQ**	**8.9E-07**	**JQ**
	1,2,3,4,6,7,8-HpCDF							**3.7E-05**		**1.5E-06**	**J**	**5.1E-05**	**J**	**5.5E-06**	**J**	**1.5E-05**		**5.4E-05**	
	1,2,3,4,7,8,9-HpCDF							**1.1E-05**		**1.4E-07**	**JK**	**4.0E-06**	**J**	**3.9E-07**	**J**	**2.1E-06**	**J**	**4.9E-06**	**J**
	1,2,3,4,6,7,8,9-OCDF							**2.5E-05**		**1.0E-06**	**J**	**3.0E-05**	**J**	**2.4E-06**	**J**	**3.1E-05**		**1.1E-04**	
	Total Tetrachlorodibenzo-p-dioxin							**7.5E-06**		**2.6E-07**	**J**	**3.6E-06**	**J**	**1.9E-05**		**5.1E-07**	**J**	**1.1E-06**	**J**
	Total Pentachlorodibenzo-p-dioxin							**1.1E-05**	**Q**	**1.4E-06**	**J**	5.7E-05	U	**2.3E-05**		**4.2E-06**	**JQ**	**8.7E-06**	**JQ**
	Total Hexachlorodibenzo-p-dioxin							**2.2E-05**		**1.8E-06**	**J**	**4.2E-05**	**J**	**1.8E-05**		**1.4E-05**		**3.5E-05**	
	Total Heptachlorodibenzo-p-dioxin							**4.3E-05**		**3.3E-06**	**J**	**8.3E-05**		**9.7E-06**		**7.9E-05**		**4.2E-04**	
	Total Tetrachlorodibenzofuran							**2.6E-04**		**1.4E-05**		**8.5E-04**		**7.1E-05**		**1.4E-04**	**Q**	**6.3E-05**	
	Total Pentachlorodibenzofuran							**1.1E-04**	**Q**	**1.3E-05**	**Q**	**5.3E-04**		**3.9E-05**		**6.1E-05**	**Q**	**6.1E-05**	**Q**
	Total Hexachlorodibenzofuran							**1.1E-04**	**Q**	**6.7E-06**		**1.7E-04**		**1.7E-05**		**4.2E-05**		**1.0E-04**	
	Total Heptachlorodibenzofuran							**8.1E-05**		**2.7E-06**	**J**	**8.4E-05**		**8.1E-06**		**4.3E-05**		**2.1E-04**	
	TEQs (WHO2005, ND=0, EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**8.4E-06**		**8.0E-07**		**3.0E-05**		**3.5E-06**		**4.5E-06**		**9.3E-06**	
	TEQs (WHO2005, ND=DL/2, EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**8.9E-06**		**2.6E-06**		**3.6E-05**		**4.5E-06**		**5.0E-06**		**9.8E-06**	

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

J - Estimated value.

K - Estimated Maximum Possible Concentration.

ND - Not detected.

Q - Quantitative interference.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards.

Values shown in Bold and shaded type exceed TSCA but are less than the listed Method 1 standards.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA	HA-43/44		HB-22		PG-6		SB-359		SB-362	
		Sample Depth (ft.):							0-1	1-2	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:							06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/10/2011	06/10/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011
PCB Congeners																		
(mg/kg)	1-MoCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	2-MoCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	3-MoCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	4-DiCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	5-DiCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	6-DiCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	7-DiCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	8-DiCB								2.0E-03 U	2.1E-03 U	2.0E-03 U	2.5E-03 U	1.8E-04 U	1.9E-04 U	2.7E-04 U	2.6E-04 U	1.8E-03 U	2.4E-03 U
	9-DiCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	10-DiCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	11-DiCB								5.1E-03 U	5.2E-03 U	5.1E-03 U	6.1E-03 U	4.6E-04 U	4.8E-04 U	6.6E-04 U	6.5E-04 U	4.4E-03 U	5.9E-03 U
	12-DiCB								4.1E-04 CU	4.2E-04 CU	4.1E-04 CU	4.9E-04 CU	3.7E-05 CU	3.9E-05 CU	5.3E-05 CU	5.2E-05 CU	3.5E-04 CU	4.8E-04 CU
	13-DiCB								C12	C12	C12	C12	C12	C12	C12	C12	C12	C12
	14-DiCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	15-DiCB								1.0E-03 U	1.0E-03 U	1.0E-03 U	1.2E-03 U	9.1E-05 U	9.6E-05 U	1.3E-04 U	1.3E-04 U	8.8E-04 U	1.2E-03 U
	16-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	17-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	18-TrCB								4.1E-04 CU	4.2E-04 CU	4.1E-04 CU	4.9E-04 CU	3.7E-05 CU	3.9E-05 CU	5.3E-05 CU	5.2E-05 CU	3.5E-04 CU	4.8E-04 CU
	19-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	20-TrCB								2.0E-03 CU	2.1E-03 CU	2.0E-03 CU	2.5E-03 CU	1.8E-04 CU	1.9E-04 CU	2.7E-04 CU	2.6E-04 CU	1.8E-03 CU	2.4E-03 CU
	21-TrCB								2.0E-03 CU	2.1E-03 CU	2.0E-03 CU	2.5E-03 CU	1.8E-04 CU	1.9E-04 CU	2.7E-04 CU	2.6E-04 CU	1.8E-03 CU	2.4E-03 CU
	22-TrCB								1.0E-03 U	1.0E-03 U	1.0E-03 U	1.2E-03 U	9.1E-05 U	9.6E-05 U	1.3E-04 U	1.3E-04 U	8.8E-04 U	1.2E-03 U
	23-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	24-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	25-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	26-TrCB								4.1E-04 CU	4.2E-04 CU	4.1E-04 CU	4.9E-04 CU	3.7E-05 CU	3.9E-05 CU	5.3E-05 CU	5.2E-05 CU	3.5E-04 CU	4.8E-04 CU
	27-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	28-TrCB								C20	C20	C20	C20	C20	C20	C20	C20	C20	C20
	29-TrCB								C26	C26	C26	C26	C26	C26	C26	C26	C26	C26
	30-TrCB								C18	C18	C18	C18	C18	C18	C18	C18	C18	C18
	31-TrCB								1.0E-03 U	1.0E-03 U	1.0E-03 U	1.2E-03 U	9.1E-05 U	9.6E-05 U	1.3E-04 U	1.3E-04 U	8.8E-04 U	1.2E-03 U
	32-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	33-TrCB								C21	C21	C21	C21	C21	C21	C21	C21	C21	C21
	34-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	35-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	36-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	37-TrCB								1.0E-03 U	1.0E-03 U	1.0E-03 U	1.2E-03 U	9.1E-05 U	9.6E-05 U	1.3E-04 U	1.3E-04 U	8.8E-04 U	1.2E-03 U
	38-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	39-TrCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	40-TeCB								4.1E-04 CU	4.2E-04 CU	**5.4E-04 C**	**9.0E-04 C**	3.7E-05 CU	3.9E-05 CU	**6.7E-05 C**	5.2E-05 CU	3.5E-04 CU	4.8E-04 CU
	41-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	42-TeCB								2.0E-04 U	2.1E-04 U	**4.0E-04**	**4.6E-04**	1.8E-05 U	1.9E-05 U	**4.5E-05**	2.6E-05 U	1.8E-04 U	**3.0E-04**
	43-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	44-TeCB								6.1E-04 CU	6.3E-04 CU	**4.9E-03 C**	**4.2E-03 C**	**6.1E-05 C**	**7.1E-05 C**	**4.6E-04 C**	**1.2E-04 C**	**2.4E-03 C**	**1.9E-03 C**
	45-TeCB								4.1E-04 CU	4.2E-04 CU	4.1E-04 CU	4.9E-04 CU	3.7E-05 CU	3.9E-05 CU	5.3E-05 CU	5.2E-05 CU	3.5E-04 CU	4.8E-04 CU
	46-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	47-TeCB								C44	C44	C44	C44	C44	C44	C44	C44	C44	C44
	48-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	49-TeCB								4.1E-04 CU	4.2E-04 CU	**4.6E-03 C**	**2.3E-03 C**	**4.4E-05 C**	**5.7E-05 C**	**3.1E-04 C**	**9.8E-05 C**	**2.6E-03 C**	**1.3E-03 C**
	50-TeCB								4.1E-04 CU	4.2E-04 CU	4.1E-04 CU	4.9E-04 CU	3.7E-05 CU	3.9E-05 CU	5.3E-05 CU	5.2E-05 CU	3.5E-04 CU	4.8E-04 CU
	51-TeCB								C45	C45	C45	C45	C45	C45	C45	C45	C45	C45
	52-TeCB								**7.9E-04**	**7.7E-04**	**1.5E-02**	**1.4E-02**	**9.6E-05 B**	**1.4E-04 B**	**1.0E-03**	**2.2E-04 B**	**1.0E-02**	**4.1E-03**
	53-TeCB								C50	C50	C50	C50	C50	C50	C50	C50	C50	C50
	54-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	55-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	56-TeCB								**2.3E-04**	**3.5E-04**	**1.6E-03**	**2.1E-03**	**2.2E-05**	**2.8E-05**	**1.2E-04**	**4.7E-05**	**1.1E-03**	**1.1E-03**
	57-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	58-TeCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	59-TeCB								6.1E-04 CU	6.3E-04 CU	6.1E-04 CU	7.4E-04 CU	5.5E-05 CU	5.8E-05 CU	7.9E-05 CU	7.8E-05 CU	5.3E-04 CU	7.1E-04 CU
	60-TeCB								1.0E-03 U	1.0E-03 U	1.0E-03 U	1.2E-03 U	9.1E-05 U	9.6E-05 U	1.3E-04 U	1.3E-04 U	8.8E-04 U	1.2E-03 U
	61-TeCB								**1.2E-03 C**	**1.5E-03 C**	**1.5E-02 C**	**1.5E-02 C**	**9.0E-05 C**	**1.7E-04 C**	**9.0E-04 C**	**2.0E-04 C**	**1.3E-02 C**	**5.0E-03 C**

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						HA-43/44			HB-22			PG-6			SB-359			SB-362		
		Sample Depth (ft.):						0-1	1-2		0-1	1-3		0-1	1-3		0-1	1-3		0-1	1-3	
		Sample Date:						06/07/2011	06/07/2011		06/07/2011	06/07/2011		06/10/2011	06/10/2011		06/08/2011	06/08/2011		06/08/2011	06/08/2011	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA															
	62-TeCB							C59	C59		C59	C59		C59	C59		C59	C59		C59	C59	
	63-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	64-TeCB							2.0E-04 U	**2.6E-04**		**1.4E-03**	**3.7E-03**		1.8E-05 U	**2.1E-05**		**1.4E-04**	**2.9E-05**		**1.2E-03**	**7.3E-04**	
	65-TeCB							C44	C44		C44	C44		C44	C44		C44	C44		C44	C44	
	66-TeCB							**3.8E-04**	**6.6E-04**		**4.2E-03**	**4.9E-03**		**4.3E-05**	**6.0E-05**		**2.9E-04**	**9.9E-05**		**2.4E-03**	**2.5E-03**	
	67-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	68-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	69-TeCB							C49	C49		C49	C49		C49	C49		C49	C49		C49	C49	
	70-TeCB							C61	C61		C61	C61		C61	C61		C61	C61		C61	C61	
	71-TeCB							C40	C40		C40	C40		C40	C40		C40	C40		C40	C40	
	72-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	73-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	74-TeCB							C61	C61		C61	C61		C61	C61		C61	C61		C61	C61	
	75-TeCB							C59	C59		C59	C59		C59	C59		C59	C59		C59	C59	
	76-TeCB							C61	C61		C61	C61		C61	C61		C61	C61		C61	C61	
	77-TeCB							2.0E-04 U	2.1E-04 U		**3.1E-04**	**1.1E-03**		1.8E-05 U	1.9E-05 U		**3.6E-05**	2.6E-05 U		**1.9E-04**	**4.5E-04**	
	78-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	79-TeCB							2.0E-04 U	2.1E-04 U		**2.8E-04**	**4.6E-04**		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		**2.6E-04**	2.4E-04 U	
	80-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	81-TeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	82-PeCB							**1.0E-03**	**4.4E-04**		**4.5E-03**	**6.8E-03**		1.8E-05 U	**2.8E-05**		**1.7E-04**	2.6E-05 U		**4.3E-03**	**1.2E-03**	
	83-PeCB							**5.3E-04**	**2.3E-04**		**2.2E-03**	**3.3E-03**		1.8E-05 U	1.9E-05 U		**8.8E-05**	2.6E-05 U		**1.6E-03**	**5.5E-04**	
	84-PeCB							**2.4E-03**	**8.1E-04**		**8.0E-03**	**1.8E-02**		**3.1E-05**	**5.9E-05**		**4.3E-04**	**7.9E-05**		**6.9E-03**	**2.8E-03**	
	85-PeCB							**2.3E-03 C**	**1.7E-03 C**		**1.3E-02 C**	**1.3E-02 C**		5.5E-05 CU	**8.4E-05 C**		**6.3E-04 C**	7.8E-05 CU		**1.1E-02 C**	**3.1E-03 C**	
	86-PeCB							**6.0E-03 C**	**3.0E-03 C**		**3.7E-02 C**	**4.2E-02 C**		1.1E-04 CU	**2.5E-04 C**		**1.4E-03 C**	**2.2E-04 C**		**3.5E-02 C**	**8.8E-03 C**	
	87-PeCB							C86	C86		C86	C86		C86	C86		C86	C86		C86	C86	
	88-PeCB							**1.6E-03 C**	**8.7E-04 C**		**6.8E-03 C**	**9.1E-03 C**		3.7E-05 CU	**4.6E-05 C**		**2.9E-04 C**	5.2E-05 CU		**5.9E-03 C**	**1.7E-03 C**	
	89-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	**2.5E-04**		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	90-PeCB							**7.3E-03 C**	**4.1E-03 C**		**6.0E-02 C**	**6.3E-02 C**		**1.5E-04 C**	**3.9E-04 C**		**2.1E-03 C**	**3.6E-04 C**		**5.1E-02 C**	**1.2E-02 C**	
	91-PeCB							C88	C88		C88	C88		C88	C88		C88	C88		C88	C88	
	92-PeCB							**1.9E-03**	**1.1E-03**		**1.2E-02**	**1.3E-02**		**3.0E-05**	**7.4E-05**		**4.2E-04**	**7.4E-05**		**9.1E-03**	**2.4E-03**	
	93-PeCB							4.1E-04 CU	4.2E-04 CU		4.1E-04 CU	4.9E-04 CU		3.7E-05 CU	3.9E-05 CU		5.3E-05 CU	5.2E-05 CU		**3.7E-04 C**	4.8E-04 CU	
	94-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	95-PeCB							**7.9E-03**	**3.3E-03**		**3.3E-02**	**5.1E-02**		**1.1E-04 B**	**2.1E-04 B**		**1.3E-03**	**2.5E-04 B**		**2.9E-02**	**8.5E-03**	
	96-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	97-PeCB							C86	C86		C86	C86		C86	C86		C86	C86		C86	C86	
	98-PeCB							4.1E-04 CU	4.2E-04 CU		**5.8E-04 C**	**1.4E-03 C**		3.7E-05 CU	3.9E-05 CU		5.3E-05 CU	5.2E-05 CU		**5.5E-04 C**	4.8E-04 CU	
	99-PeCB							**4.7E-03**	**3.1E-03**		**2.9E-02**	**2.8E-02**		**6.6E-05**	**1.8E-04**		**1.2E-03**	**1.6E-04**		**2.3E-02**	**6.8E-03**	
	100-PeCB							C93	C93		C93	C93		C93	C93		C93	C93		C93	C93	
	101-PeCB							C90	C90		C90	C90		C90	C90		C90	C90		C90	C90	
	102-PeCB							C98	C98		C98	C98		C98	C98		C98	C98		C98	C98	
	103-PeCB							2.0E-04 U	2.1E-04 U		**2.6E-04**	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	104-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	105-PeCB							**3.3E-03**	**1.9E-03**		**2.1E-02**	**2.7E-02**		**2.9E-05**	**1.7E-04**		**9.0E-04**	**7.8E-05**		**2.1E-02**	**5.8E-03**	
	106-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	107-PeCB							**8.4E-04**	**5.5E-04**		**4.9E-03**	**5.3E-03**		1.8E-05 U	**3.5E-05**		**2.2E-04**	2.6E-05 U		**3.9E-03**	**1.1E-03**	
	108-PeCB							**4.6E-04 C**	**4.3E-04 C**		**3.1E-03 C**	**2.4E-03 C**		3.7E-05 CU	3.9E-05 CU		**1.1E-04 C**	5.2E-05 CU		**2.5E-03 C**	**6.9E-04 C**	
	109-PeCB							C86	C86		C86	C86		C86	C86		C86	C86		C86	C86	
	110-PeCB							**2.4E-02 C**	**1.4E-02 C**		**8.7E-02 C**	**1.2E-01 C**		**1.8E-04 C**	**5.8E-04 C**		**3.9E-03 C**	**4.3E-04 C**		**7.4E-02 C**	**2.0E-02 C**	
	111-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	112-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	113-PeCB							C90	C90		C90	C90		C90	C90		C90	C90		C90	C90	
	114-PeCB							2.0E-04 U	2.1E-04 U		**4.9E-04**	**1.0E-03**		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		**7.5E-04**	2.4E-04 U	
	115-PeCB							C110	C110		C110	C110		C110	C110		C110	C110		C110	C110	
	116-PeCB							C85	C85		C85	C85		C85	C85		C85	C85		C85	C85	
	117-PeCB							C85	C85		C85	C85		C85	C85		C85	C85		C85	C85	
	118-PeCB							**7.2E-03**	**4.2E-03**		**5.6E-02**	**5.9E-02**		**1.1E-04 B**	**4.7E-04**		**2.2E-03**	**2.7E-04**		**5.0E-02**	**1.4E-02**	
	119-PeCB							C86	C86		C86	C86		C86	C86		C86	C86		C86	C86	
	120-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	121-PeCB							2.0E-04 U	2.1E-04 U		2.0E-04 U	2.5E-04 U		1.8E-05 U	1.9E-05 U		2.7E-05 U	2.6E-05 U		1.8E-04 U	2.4E-04 U	
	122-PeCB							2.0E-04 U	2.1E-04 U		**7.1E-04**	**7.7E-04**		1.8E-05 U	1.9E-05 U		**3.6E-05**	2.6E-05 U		**5.6E-04**	2.4E-04 U	
	123-PeCB							**2.2E-04**	2.1E-04 U		**1.1E-03**	**1.0E-03**		1.8E-05 U	1.9E-05 U		**4.8E-05**	2.6E-05 U		**9.5E-04**	**3.2E-04**	

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						HA-43/44				HB-22				PG-6				SB-359				SB-362			
		Sample Depth (ft.):						0-1		1-2		0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3	
		Sample Date:						06/07/2011		06/07/2011		06/07/2011		06/07/2011		06/10/2011		06/10/2011		06/08/2011		06/08/2011		06/08/2011		06/08/2011	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA																				
	124-PeCB								C108		C108		C108		C108		C108		C108		C108		C108		C108		C108
	125-PeCB								C86		C86		C86		C86		C86		C86		C86		C86		C86		C86
	126-PeCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	**2.6E-04**		1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	127-PeCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	128-HxCB							**5.2E-03**	**C**	**3.9E-03**	**C**	**1.7E-02**	**C**	**1.9E-02**	**C**	3.7E-05	CU	**1.1E-04**	**C**	**9.0E-04**	**C**	**5.6E-05**	**C**	**1.4E-02**	**C**	**3.9E-03**	**C**
	129-HxCB							**3.1E-02**	**C**	**2.3E-02**	**C**	**9.8E-02**	**C**	**1.3E-01**	**C**	**1.9E-04**	**C**	**6.4E-04**	**C**	**6.0E-03**	**C**	**5.1E-04**	**C**	**8.1E-02**	**C**	**2.4E-02**	**C**
	130-HxCB							**1.9E-03**		**1.3E-03**		**6.0E-03**		**6.8E-03**		1.8E-05	U	**3.8E-05**		**3.4E-04**		2.6E-05	U	**4.7E-03**		**1.4E-03**	
	131-HxCB							**3.5E-04**		2.1E-04	U	**1.0E-03**		**1.4E-03**		1.8E-05	U	1.9E-05	U	**4.2E-05**		2.6E-05	U	**1.0E-03**		**2.5E-04**	
	132-HxCB							**8.6E-03**		**5.4E-03**		**2.5E-02**		**3.5E-02**		**4.1E-05**		**1.6E-04**		**1.2E-03**		**9.6E-05**		**2.3E-02**		**6.2E-03**	
	133-HxCB							**3.2E-04**		2.1E-04	U	**9.9E-04**		**1.2E-03**		1.8E-05	U	1.9E-05	U	**7.0E-05**		2.6E-05	U	**7.5E-04**		**2.4E-04**	
	134-HxCB							**8.5E-04**		**7.1E-04**		**2.6E-03**		**4.8E-03**		1.8E-05	U	**2.4E-05**		**1.8E-04**		2.6E-05	U	**3.7E-03**		**9.9E-04**	
	135-HxCB							**5.9E-03**	**C**	**4.4E-03**	**C**	**1.5E-02**	**C**	**3.1E-02**	**C**	**3.9E-05**	**C**	**1.1E-04**	**C**	**1.2E-03**	**C**	**9.0E-05**	**C**	**1.5E-02**	**C**	**4.7E-03**	**C**
	136-HxCB							**2.1E-03**		**1.4E-03**		**5.5E-03**		**1.2E-02**		1.8E-05	U	**4.0E-05**		**3.0E-04**		**3.5E-05**		**5.8E-03**		**1.8E-03**	
	137-HxCB							**1.7E-03**		**1.1E-03**		**5.6E-03**		**6.3E-03**		1.8E-05	U	**3.7E-05**		**2.7E-04**		2.6E-05	U	**4.5E-03**		**1.3E-03**	
	138-HxCB								C129		C129		C129		C129		C129		C129		C129		C129		C129		C129
	139-HxCB							**5.3E-04**	**C**	4.2E-04	CU	**1.8E-03**	**C**	**2.1E-03**	**C**	3.7E-05	CU	3.9E-05	CU	**8.6E-05**	**C**	5.2E-05	CU	**1.5E-03**	**C**	4.8E-04	CU
	140-HxCB								C139		C139		C139		C139		C139		C139		C139		C139		C139		C139
	141-HxCB							**4.4E-03**		**3.5E-03**		**1.4E-02**		**2.3E-02**		**2.8E-05**		**9.4E-05**		**8.5E-04**		**8.4E-05**		**1.3E-02**		**3.9E-03**	
	142-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	143-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	144-HxCB							**7.7E-04**		**5.2E-04**		**2.3E-03**		**4.8E-03**		1.8E-05	U	1.9E-05	U	**1.3E-04**		2.6E-05	U	**2.3E-03**		**7.2E-04**	
	145-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	146-HxCB							**3.7E-03**		**2.7E-03**		**1.2E-02**		**1.5E-02**		**2.9E-05**		**7.6E-05**		**7.7E-04**		**7.7E-05**		**9.2E-03**		**3.0E-03**	
	147-HxCB							**1.8E-02**	**C**	**1.3E-02**	**C**	**5.0E-02**	**C**	**8.4E-02**	**C**	**1.0E-04**	**C**	**3.3E-04**	**C**	**3.3E-03**	**C**	**2.5E-04**	**C**	**4.6E-02**	**C**	**1.4E-02**	**C**
	148-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	149-HxCB								C147		C147		C147		C147		C147		C147		C147		C147		C147		C147
	150-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	151-HxCB								C135		C135		C135		C135		C135		C135		C135		C135		C135		C135
	152-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	153-HxCB							**1.9E-02**	**C**	**1.5E-02**	**C**	**6.0E-02**	**C**	**8.6E-02**	**C**	**1.4E-04**	**C**	**3.9E-04**	**C**	**4.1E-03**	**C**	**6.4E-04**	**C**	**5.0E-02**	**C**	**1.7E-02**	**C**
	154-HxCB							**2.0E-04**		2.1E-04	U	**6.3E-04**		**6.8E-04**		1.8E-05	U	1.9E-05	U	**3.9E-05**		2.6E-05	U	**4.9E-04**		2.4E-04	U
	155-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	156-HxCB							**2.7E-03**	**C**	**2.1E-03**	**C**	**1.1E-02**	**C**	**1.5E-02**	**C**	3.7E-05	CU	**8.2E-05**	**C**	**5.8E-04**	**C**	5.2E-05	CU	**9.5E-03**	**C**	**2.8E-03**	**C**
	157-HxCB								C156		C156		C156		C156		C156		C156		C156		C156		C156		C156
	158-HxCB							**3.3E-03**		**2.5E-03**		**1.1E-02**		**1.4E-02**		1.8E-05	U	**6.6E-05**		**6.1E-04**		**4.3E-05**		**9.3E-03**		**2.7E-03**	
	159-HxCB							2.0E-04	U	2.1E-04	U	**2.6E-04**		**9.9E-04**		1.8E-05	U	1.9E-05	U	**4.9E-05**		2.6E-05	U	**3.2E-04**		2.4E-04	U
	160-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	161-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	162-HxCB							2.0E-04	U	2.1E-04	U	**2.9E-04**		**4.5E-04**		1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	**2.7E-04**		2.4E-04	U
	163-HxCB								C129		C129		C129		C129		C129		C129		C129		C129		C129		C129
	164-HxCB							**2.2E-03**		**1.7E-03**		**6.5E-03**		**8.6E-03**		1.8E-05	U	**4.6E-05**		**4.4E-04**		**2.9E-05**		**5.4E-03**		**1.7E-03**	
	165-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	166-HxCB								C128		C128		C128		C128		C128		C128		C128		C128		C128		C128
	167-HxCB							**1.1E-03**		**8.5E-04**		**4.0E-03**		**4.7E-03**		1.8E-05	U	**2.9E-05**		**2.1E-04**		2.6E-05	U	**3.1E-03**		**1.0E-03**	
	168-HxCB								C153		C153		C153		C153		C153		C153		C153		C153		C153		C153
	169-HxCB							2.0E-04	U	2.1E-04	U	2.0E-04	U	2.5E-04	U	1.8E-05	U	1.9E-05	U	2.7E-05	U	2.6E-05	U	1.8E-04	U	2.4E-04	U
	170-HpCB							**4.4E-03**		**4.6E-03**		**9.9E-03**		**2.5E-02**		**1.9E-05**		**7.1E-05**		**1.4E-03**		**7.3E-05**		**9.4E-03**		**5.5E-03**	
	171-HpCB							**1.4E-03**	**C**	**1.4E-03**	**C**	**3.1E-03**	**C**	**8.8E-03**	**C**	3.7E-05	CU	3.9E-05	CU	**4.0E-04**	**C**	5.2E-05	CU	**3.1E-03**	**C**	**1.5E-03**	**C**
	172-HpCB							**7.6E-04**		**7.6E-04**		**1.5E-03**		**4.6E-03**		1.8E-05	U	1.9E-05	U	**2.8E-04**		2.6E-05	U	**1.5E-03**		**9.4E-04**	
	173-HpCB								C171		C171		C171		C171		C171		C171		C171		C171		C171		C171
	174-HpCB							**5.4E-03**		**5.7E-03**		**9.0E-03**		**3.7E-02**		**2.0E-05**		**6.6E-05**		**1.9E-03**		**7.8E-05**		**1.2E-02**		**5.5E-03**	
	175-HpCB							2.0E-04	U	2.1E-04	U	**2.9E-04**		**1.2E-03**		1.8E-05	U	1.9E-05	U	**4.9E-05**		2.6E-05	U	**3.8E-04**		2.4E-04	U
	176-HpCB							**4.9E-04**		**5.4E-04**		**8.5E-04**		**3.8E-03**		1.8E-05	U	1.9E-05	U	**1.3E-04**		2.6E-05	U	**1.1E-03**		**4.9E-04**	
	177-HpCB							**2.5E-03**		**2.6E-03**		**4.7E-03**		**1.6E-02**		1.8E-05	U	**3.5E-05**		**9.7E-04**		**4.4E-05**		**5.4E-03**		**2.8E-03**	
	178-HpCB							**8.5E-04**		**8.8E-04**		**1.4E-03**		**5.5E-03**		1.8E-05	U	1.9E-05	U	**4.1E-04**		2.6E-05	U	**1.8E-03**		**9.0E-04**	
	179-HpCB							**1.7E-03**		**1.9E-03**		**2.6E-03**		**1.3E-02**		1.8E-05	U	**2.3E-05**		**6.2E-04**		**3.0E-05**		**3.7E-03**		**1.7E-03**	

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:	S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA	HA-43/44		HB-22		PG-6		SB-359		SB-362	
		Sample Depth (ft.):							0-1	1-2	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:							06/07/2011	06/07/2011	06/07/2011	06/07/2011	06/10/2011	06/10/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011
	180-HpCB								**1.1E-02 C**	**1.2E-02 C**	**1.8E-02 C**	**7.5E-02 C**	**4.2E-05 C**	**1.4E-04 C**	**3.4E-03 C**	**4.2E-04 C**	**2.2E-02 C**	**1.4E-02 C**
	181-HpCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	182-HpCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	183-HpCB								**3.1E-03 C**	**3.3E-03 C**	**4.9E-03 C**	**2.2E-02 C**	3.7E-05 CU	3.9E-05 CU	**9.1E-04 C**	5.2E-05 CU	**6.3E-03 C**	**2.3E-03 C**
	184-HpCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	185-HpCB								C183	C183	C183	C183	C183	C183	C183	C183	C183	C183
	186-HpCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	187-HpCB								**5.5E-03**	**5.7E-03**	**8.1E-03**	**3.5E-02**	**2.4E-05**	**6.4E-05**	**2.4E-03**	**1.1E-04**	**1.1E-02**	**5.5E-03**
	188-HpCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	189-HpCB								2.0E-04 U	2.1E-04 U	**4.1E-04**	**9.3E-04**	1.8E-05 U	1.9E-05 U	**5.5E-05**	2.6E-05 U	**3.9E-04**	**2.5E-04**
	190-HpCB								**9.3E-04**	**1.0E-03**	**1.9E-03**	**5.7E-03**	1.8E-05 U	1.9E-05 U	**3.3E-04**	2.6E-05 U	**1.9E-03**	**1.2E-03**
	191-HpCB								2.0E-04 U	2.1E-04 U	**3.3E-04**	**1.0E-03**	1.8E-05 U	1.9E-05 U	**4.5E-05**	2.6E-05 U	**3.5E-04**	2.4E-04 U
	192-HpCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	193-HpCB								C180	C180	C180	C180	C180	C180	C180	C180	C180	C180
	194-OcCB								**2.5E-03**	**2.8E-03**	**3.0E-03**	**1.6E-02**	1.8E-05 U	**2.6E-05**	**1.0E-03**	**5.0E-05**	**4.7E-03**	**4.2E-03**
	195-OcCB								**9.5E-04**	**1.1E-03**	**1.2E-03**	**6.4E-03**	1.8E-05 U	1.9E-05 U	**4.3E-04**	2.6E-05 U	**1.9E-03**	**1.5E-03**
	196-OcCB								**1.3E-03**	**1.4E-03**	**1.5E-03**	**9.1E-03**	1.8E-05 U	1.9E-05 U	**4.4E-04**	2.6E-05 U	**2.3E-03**	**1.8E-03**
	197-OcCB								4.1E-04 CU	**4.4E-04 C**	**4.7E-04 C**	**3.0E-03 C**	3.7E-05 CU	3.9E-05 CU	**1.6E-04 C**	5.2E-05 CU	**8.0E-04 C**	**5.0E-04 C**
	198-OcCB								**3.5E-03 C**	**3.1E-03 C**	**3.8E-03 C**	**1.9E-02 C**	3.7E-05 CU	3.9E-05 CU	**1.4E-03 C**	**5.5E-05 C**	**5.6E-03 C**	**4.7E-03 C**
	199-OcCB								C198	C198	C198	C198	C198	C198	C198	C198	C198	C198
	200-OcCB								C197	C197	C197	C197	C197	C197	C197	C197	C197	C197
	201-OcCB								**3.2E-04**	**3.5E-04**	**3.6E-04**	**2.4E-03**	1.8E-05 U	1.9E-05 U	**1.2E-04**	2.6E-05 U	**5.9E-04**	**3.9E-04**
	202-OcCB								**6.2E-04**	**5.2E-04**	**6.5E-04**	**3.7E-03**	1.8E-05 U	1.9E-05 U	**2.6E-04**	2.6E-05 U	**1.1E-03**	**8.2E-04**
	203-OcCB								**1.9E-03**	**1.9E-03**	**2.3E-03**	**1.2E-02**	1.8E-05 U	1.9E-05 U	**7.3E-04**	**3.4E-05**	**3.2E-03**	**2.4E-03**
	204-OcCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	2.5E-04 U	1.8E-05 U	1.9E-05 U	2.7E-05 U	2.6E-05 U	1.8E-04 U	2.4E-04 U
	205-OcCB								2.0E-04 U	2.1E-04 U	2.0E-04 U	**8.0E-04**	1.8E-05 U	1.9E-05 U	**5.8E-05**	2.6E-05 U	**2.6E-04**	2.4E-04 U
	206-NoCB								**6.9E-03**	**1.1E-03**	**3.6E-03**	**1.2E-02**	1.8E-05 U	**2.8E-05**	**5.8E-04**	2.6E-05 U	**3.2E-03**	**7.3E-03**
	207-NoCB								**5.4E-04**	2.1E-04 U	**4.6E-04**	**1.5E-03**	1.8E-05 U	1.9E-05 U	**5.6E-05**	2.6E-05 U	**3.2E-04**	**4.4E-04**
	208-NoCB								**2.7E-03**	**3.4E-04**	**1.5E-03**	**4.4E-03**	1.8E-05 U	1.9E-05 U	**1.6E-04**	2.6E-05 U	**1.1E-03**	**3.0E-03**
	209-DeCB								**1.4E-02**	**1.1E-03**	**9.8E-03**	**1.9E-02**	1.8E-05 U	**3.8E-05**	**2.6E-04**	2.6E-05 U	**2.8E-03**	**7.7E-03**
	Total PCB Congeners		2	2	3	3	2	1	**2.6E-01**	**1.8E-01**	**8.7E-01**	**1.4E+00**	**1.7E-03**	**5.9E-03**	**5.9E-02**	**5.6E-03**	**7.8E-01**	**2.8E-01**
	Dioxin-like PCB TEQs (ND=0 EMPC=EMPC)		2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**4.4E-07**	**2.7E-07**	**2.9E-06**	**2.9E-05**	**4.0E-09**	**2.2E-08**	**1.2E-07**	**1.0E-08**	**2.6E-06**	**7.8E-07**
	Dioxin-like PCB TEQs (ND=DL/2; EMPC=EMPC)		2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**1.4E-05**	**1.4E-05**	**1.6E-05**	**3.3E-05**	**1.2E-06**	**1.3E-06**	**1.8E-06**	**1.7E-06**	**1.4E-05**	**1.6E-05**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

C - Congener has coeluters. When Cxxx, refer to congener number xxx for data.

K - Estimated Maximum Possible Concentration.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards.

Values shown in Bold and shaded type exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SB-365		SS-28		SS-38		SS-52	
		Sample Depth (ft.):						0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:						06/07/2011	06/07/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA								
PCB Congeners															
(mg/kg)	1-MoCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	2-MoCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	3-MoCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	4-DiCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	5-DiCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	6-DiCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	7-DiCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	8-DiCB							1.9E-03 U	1.9E-03 U	2.0E-03 U	2.2E-04 U	2.2E-03 U	2.5E-04 U	1.9E-03 U	2.3E-03 U
	9-DiCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	10-DiCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	11-DiCB							4.7E-03 U	4.9E-03 U	5.0E-03 U	5.6E-04 U	5.5E-03 U	6.2E-04 U	4.8E-03 U	5.6E-03 U
	12-DiCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	4.4E-04 CU	4.9E-05 CU	3.8E-04 CU	4.5E-04 CU
	13-DiCB							C12	C12	C12	C12	C12	C12	C12	C12
	14-DiCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	15-DiCB							9.4E-04 U	9.7E-04 U	1.0E-03 U	1.1E-04 U	1.1E-03 U	1.2E-04 U	9.6E-04 U	1.1E-03 U
	16-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**2.5E-04**
	17-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**4.0E-04**
	18-TrCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	4.4E-04 CU	4.9E-05 CU	3.8E-04 CU	**6.1E-04 C**
	19-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	20-TrCB							1.9E-03 CU	1.9E-03 CU	2.0E-03 CU	2.2E-04 CU	2.2E-03 CU	2.5E-04 CU	1.9E-03 CU	2.3E-03 CU
	21-TrCB							1.9E-03 CU	1.9E-03 CU	2.0E-03 CU	2.2E-04 CU	2.2E-03 CU	2.5E-04 CU	1.9E-03 CU	2.3E-03 CU
	22-TrCB							9.4E-04 U	9.7E-04 U	1.0E-03 U	1.1E-04 U	1.1E-03 U	1.2E-04 U	9.6E-04 U	1.1E-03 U
	23-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	24-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	25-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	26-TrCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	4.4E-04 CU	4.9E-05 CU	3.8E-04 CU	4.5E-04 CU
	27-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	28-TrCB							C20	C20	C20	C20	C20	C20	C20	C20
	29-TrCB							C26	C26	C26	C26	C26	C26	C26	C26
	30-TrCB							C18	C18	C18	C18	C18	C18	C18	C18
	31-TrCB							9.4E-04 U	9.7E-04 U	1.0E-03 U	1.1E-04 U	1.1E-03 U	1.2E-04 U	9.6E-04 U	**1.4E-03**
	32-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**3.4E-04**
	33-TrCB							C21	C21	C21	C21	C21	C21	C21	C21
	34-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	35-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	36-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	37-TrCB							9.4E-04 U	9.7E-04 U	1.0E-03 U	1.1E-04 U	1.1E-03 U	1.2E-04 U	9.6E-04 U	1.1E-03 U
	38-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	39-TrCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	40-TeCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	**9.2E-04 C**	**6.6E-05 C**	**5.9E-04 C**	**3.2E-03 C**
	41-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**4.4E-04**
	42-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	**6.3E-04**	**3.2E-05**	**3.6E-04**	**3.2E-03**
	43-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**5.2E-04**
	44-TeCB							5.6E-04 CU	**2.1E-03 C**	**1.8E-03 C**	**1.0E-04 C**	**8.3E-03 C**	**4.8E-04 C**	**4.6E-03 C**	**2.8E-02 C**
	45-TeCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	4.4E-04 CU	4.9E-05 CU	3.8E-04 CU	**7.1E-04 C**
	46-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**2.6E-04**
	47-TeCB							C44	C44	C44	C44	C44	C44	C44	C44
	48-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**4.8E-04**
	49-TeCB							3.8E-04 CU	**1.8E-03 C**	**2.3E-03 C**	**8.9E-05 C**	**8.0E-03 C**	**3.3E-04 C**	**4.4E-03 C**	**2.0E-02 C**
	50-TeCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	4.4E-04 CU	4.9E-05 CU	3.8E-04 CU	**1.2E-03 C**
	51-TeCB							C45	C45	C45	C45	C45	C45	C45	C45
	52-TeCB							**3.0E-04**	**8.8E-03**	**8.4E-03**	**2.1E-04 B**	**3.3E-02**	**1.5E-03**	**1.9E-02**	**5.8E-02**
	53-TeCB							C50	C50	C50	C50	C50	C50	C50	C50
	54-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	55-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**3.0E-04**
	56-TeCB							1.9E-04 U	**9.8E-04**	**8.1E-04**	**5.6E-05**	**3.1E-03**	**2.0E-04**	**1.7E-03**	**4.8E-03**
	57-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	58-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**3.6E-04**
	59-TeCB							5.6E-04 CU	5.8E-04 CU	6.0E-04 CU	6.7E-05 CU	6.6E-04 CU	7.4E-05 CU	5.8E-04 CU	**1.1E-03 C**
	60-TeCB							9.4E-04 U	9.7E-04 U	1.0E-03 U	1.1E-04 U	1.1E-03 U	1.2E-04 U	9.6E-04 U	1.1E-03 U
	61-TeCB							7.5E-04 CU	**1.3E-02 C**	**8.9E-03 C**	**2.9E-04 C**	**3.1E-02 C**	**1.9E-03 C**	**1.4E-02 C**	**4.9E-02 C**

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SB-365		SS-28		SS-38		SS-52	
		Sample Depth (ft.):						0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:						06/07/2011	06/07/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA								
	62-TeCB							C59	C59	C59	C59	C59	C59	C59	C59
	63-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**7.9E-04**
	64-TeCB							1.9E-04 U	**1.2E-03**	**7.8E-04**	**6.4E-05**	**2.9E-03**	**1.5E-04**	**2.5E-03**	**6.2E-03**
	65-TeCB							C44	C44	C44	C44	C44	C44	C44	C44
	66-TeCB							1.9E-04 U	**3.1E-03**	**1.6E-03**	**1.1E-04**	**5.9E-03**	**4.3E-04**	**4.3E-03**	**2.1E-02**
	67-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	68-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**6.2E-04**
	69-TeCB							C49	C49	C49	C49	C49	C49	C49	C49
	70-TeCB							C61	C61	C61	C61	C61	C61	C61	C61
	71-TeCB							C40	C40	C40	C40	C40	C40	C40	C40
	72-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**9.2E-04**
	73-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**4.9E-04**
	74-TeCB							C61	C61	C61	C61	C61	C61	C61	C61
	75-TeCB							C59	C59	C59	C59	C59	C59	C59	C59
	76-TeCB							C61	C61	C61	C61	C61	C61	C61	C61
	77-TeCB							1.9E-04 U	**5.8E-04**	2.0E-04 U	2.2E-05 U	**7.5E-04**	**3.9E-05**	**3.1E-04**	**6.9E-04**
	78-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	79-TeCB							1.9E-04 U	1.9E-04 U	**2.3E-04**	2.2E-05 U	**7.4E-04**	**3.1E-05**	**3.7E-04**	**6.8E-04**
	80-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	81-TeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	82-PeCB							1.9E-04 U	**2.9E-03**	**3.2E-03**	**6.2E-05**	**7.9E-03**	**4.7E-04**	**6.7E-03**	**9.6E-03**
	83-PeCB							1.9E-04 U	**1.4E-03**	**1.2E-03**	**2.5E-05**	**2.9E-03**	**1.8E-04**	**3.0E-03**	**6.1E-03**
	84-PeCB							1.9E-04 U	**7.0E-03**	**5.7E-03**	**8.5E-05**	**1.3E-02**	**8.2E-04**	**1.4E-02**	**3.5E-02**
	85-PeCB							5.6E-04 CU	**5.6E-03 C**	**6.9E-03 C**	**3.8E-04 C**	**1.8E-02 C**	**9.3E-04 C**	**1.5E-02 C**	**1.6E-02 C**
	86-PeCB							1.1E-03 CU	**2.4E-02 C**	**2.5E-02 C**	**6.5E-04 C**	**6.0E-02 C**	**3.2E-03 C**	**5.2E-02 C**	**6.9E-02 C**
	87-PeCB							C86	C86	C86	C86	C86	C86	C86	C86
	88-PeCB							3.8E-04 CU	**3.8E-03 C**	**3.7E-03 C**	**1.3E-04 C**	**1.0E-02 C**	**4.3E-04 C**	**9.0E-03 C**	**1.4E-02 C**
	89-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	**2.2E-04**	**7.1E-04**
	90-PeCB							**1.2E-03 C**	**3.3E-02 C**	**3.7E-02 C**	**1.0E-03 C**	**9.0E-02 C**	**4.3E-03 C**	**7.7E-02 C**	**1.1E-01 C**
	91-PeCB							C88	C88	C88	C88	C88	C88	C88	C88
	92-PeCB							**2.5E-04**	**6.0E-03**	**6.4E-03**	**1.8E-04**	**1.5E-02**	**6.8E-04**	**1.4E-02**	**2.1E-02**
	93-PeCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	**4.9E-04 C**	4.9E-05 CU	**4.9E-04 C**	**1.1E-03 C**
	94-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**3.5E-04**
	95-PeCB							**6.2E-04**	**2.3E-02**	**2.0E-02**	**4.2E-04**	**5.1E-02**	**2.3E-03**	**5.1E-02**	**8.5E-02**
	96-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**4.4E-04**
	97-PeCB							C86	C86	C86	C86	C86	C86	C86	C86
	98-PeCB							3.8E-04 CU	3.9E-04 CU	**4.1E-04 C**	4.5E-05 CU	**1.1E-03 C**	**5.9E-05 C**	**1.1E-03 C**	**2.7E-03 C**
	99-PeCB							**6.2E-04**	**1.3E-02**	**1.6E-02**	**7.9E-04**	**4.3E-02**	**2.0E-03**	**3.3E-02**	**4.9E-02**
	100-PeCB							C93	C93	C93	C93	C93	C93	C93	C93
	101-PeCB							C90	C90	C90	C90	C90	C90	C90	C90
	102-PeCB							C98	C98	C98	C98	C98	C98	C98	C98
	103-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	**3.2E-04**	2.5E-05 U	**2.5E-04**	**9.7E-04**
	104-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	105-PeCB							**2.7E-04 B**	**1.1E-02**	**1.8E-02**	**3.2E-04**	**3.6E-02**	**2.2E-03**	**2.7E-02**	**2.6E-02**
	106-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	107-PeCB							1.9E-04 U	**2.2E-03**	**3.0E-03**	**1.1E-04**	**6.5E-03**	**3.8E-04**	**4.9E-03**	**7.7E-03**
	108-PeCB							3.8E-04 CU	**1.4E-03 C**	**1.9E-03 C**	**9.0E-05 C**	**3.9E-03 C**	**2.5E-04 C**	**3.3E-03 C**	**2.7E-03 C**
	109-PeCB							C86	C86	C86	C86	C86	C86	C86	C86
	110-PeCB							**1.7E-03 C**	**4.3E-02 C**	**5.1E-02 C**	**1.7E-03 C**	**1.1E-01 C**	**5.9E-03 C**	**1.0E-01 C**	**1.2E-01 C**
	111-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	112-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	113-PeCB							C90	C90	C90	C90	C90	C90	C90	C90
	114-PeCB							1.9E-04 U	**4.1E-04**	**6.5E-04**	2.2E-05 U	**9.9E-04**	**8.9E-05**	**5.3E-04**	**1.1E-03**
	115-PeCB							C110	C110	C110	C110	C110	C110	C110	C110
	116-PeCB							C85	C85	C85	C85	C85	C85	C85	C85
	117-PeCB							C85	C85	C85	C85	C85	C85	C85	C85
	118-PeCB							**7.4E-04 B**	**3.0E-02**	**4.3E-02**	**9.8E-04**	**8.7E-02**	**5.5E-03**	**7.0E-02**	**8.7E-02**
	119-PeCB							C86	C86	C86	C86	C86	C86	C86	C86
	120-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	**4.9E-04**
	121-PeCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	122-PeCB							1.9E-04 U	**3.1E-04**	**4.1E-04**	2.2E-05 U	**9.3E-04**	**5.1E-05**	**7.9E-04**	**6.5E-04**
	123-PeCB							1.9E-04 U	**4.6E-04**	**6.7E-04**	**3.1E-05**	**1.5E-03**	**8.2E-05**	**1.2E-03**	**8.9E-04**

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SB-365				SS-28				SS-38				SS-52			
		Sample Depth (ft.):						0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3	
		Sample Date:						06/07/2011		06/07/2011		06/08/2011		06/08/2011		06/08/2011		06/08/2011		06/08/2011		06/08/2011	
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA																
	124-PeCB								C108		C108		C108		C108		C108		C108		C108		C108
	125-PeCB								C86		C86		C86		C86		C86		C86		C86		C86
	126-PeCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	127-PeCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	128-HxCB							**3.9E-04**	**BC**	**6.2E-03**	**C**	**1.1E-02**	**C**	**4.6E-04**	**C**	**1.9E-02**	**C**	**1.2E-03**	**C**	**1.7E-02**	**C**	**1.6E-02**	**C**
	129-HxCB							**3.0E-03**	**C**	**3.5E-02**	**C**	**5.9E-02**	**C**	**2.8E-03**	**C**	**1.1E-01**	**C**	**7.2E-03**	**C**	**9.9E-02**	**C**	**9.7E-02**	**C**
	130-HxCB							1.9E-04	U	**2.1E-03**		**3.5E-03**		**1.5E-04**		**6.3E-03**		**4.0E-04**		**5.8E-03**		**6.3E-03**	
	131-HxCB							1.9E-04	U	**5.0E-04**		**6.6E-04**		2.2E-05	U	**1.3E-03**		**7.3E-05**		**1.3E-03**		**1.5E-03**	
	132-HxCB							**5.5E-04**	**B**	**1.1E-02**		**1.6E-02**		**5.7E-04**		**2.9E-02**		**1.8E-03**		**2.9E-02**		**3.3E-02**	
	133-HxCB							1.9E-04	U	**3.3E-04**		**5.0E-04**		**2.6E-05**		**1.0E-03**		**6.1E-05**		**9.4E-04**		**1.2E-03**	
	134-HxCB							1.9E-04	U	**1.8E-03**		**2.6E-03**		**7.6E-05**		**4.7E-03**		**2.7E-04**		**4.7E-03**		**5.3E-03**	
	135-HxCB							**6.2E-04**	**C**	**6.0E-03**	**C**	**8.6E-03**	**C**	**4.1E-04**	**C**	**1.7E-02**	**C**	**8.5E-04**	**C**	**1.9E-02**	**C**	**2.2E-02**	**C**
	136-HxCB							1.9E-04	U	**3.0E-03**		**3.6E-03**		**1.3E-04**		**7.3E-03**		**3.6E-04**		**7.9E-03**		**1.1E-02**	
	137-HxCB							1.9E-04	U	**2.2E-03**		**3.2E-03**		**1.6E-04**		**6.4E-03**		**3.9E-04**		**5.6E-03**		**5.1E-03**	
	138-HxCB								C129		C129		C129		C129		C129		C129		C129		C129
	139-HxCB							3.8E-04	CU	**7.3E-04**	**C**	**9.3E-04**	**C**	**4.8E-05**	**C**	**2.3E-03**	**C**	**1.2E-04**	**C**	**1.9E-03**	**C**	**2.1E-03**	**C**
	140-HxCB								C139		C139		C139		C139		C139		C139		C139		C139
	141-HxCB							**4.8E-04**		**5.2E-03**		**8.8E-03**		**3.9E-04**		**1.3E-02**		**8.4E-04**		**1.5E-02**		**1.4E-02**	
	142-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	143-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	**2.5E-04**		2.5E-05	U	1.9E-04	U	**5.7E-04**	
	144-HxCB							1.9E-04	U	**1.0E-03**		**1.4E-03**		**5.2E-05**		**2.7E-03**		**1.4E-04**		**3.0E-03**		**3.1E-03**	
	145-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	146-HxCB							**4.2E-04**		**3.8E-03**		**5.9E-03**		**3.2E-04**		**1.2E-02**		**7.5E-04**		**1.1E-02**		**1.4E-02**	
	147-HxCB							**1.7E-03**	**C**	**2.0E-02**	**C**	**2.8E-02**	**C**	**1.3E-03**	**C**	**5.8E-02**	**C**	**3.2E-03**	**C**	**5.7E-02**	**C**	**6.5E-02**	**C**
	148-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	149-HxCB								C147		C147		C147		C147		C147		C147		C147		C147
	150-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	151-HxCB								C135		C135		C135		C135		C135		C135		C135		C135
	152-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	153-HxCB							**2.4E-03**	**C**	**2.0E-02**	**C**	**3.3E-02**	**C**	**1.8E-03**	**C**	**6.3E-02**	**C**	**4.5E-03**	**C**	**6.0E-02**	**C**	**6.4E-02**	**C**
	154-HxCB							1.9E-04	U	**2.5E-04**		**3.3E-04**		2.2E-05	U	**8.2E-04**		**3.6E-05**		**6.1E-04**		**1.1E-03**	
	155-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	156-HxCB							3.8E-04	CU	**4.7E-03**	**C**	**1.0E-02**	**C**	**3.4E-04**	**C**	**1.3E-02**	**C**	**8.3E-04**	**C**	**1.1E-02**	**C**	**1.2E-02**	**C**
	157-HxCB								C156		C156		C156		C156		C156		C156		C156		C156
	158-HxCB							**2.6E-04**	**B**	**4.2E-03**		**6.9E-03**		**2.9E-04**		**1.2E-02**		**7.8E-04**		**1.1E-02**		**1.1E-02**	
	159-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	**3.2E-04**		**3.9E-04**	
	160-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	161-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	162-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	**4.6E-04**		**2.6E-05**		**2.9E-04**		**2.5E-04**	
	163-HxCB								C129		C129		C129		C129		C129		C129		C129		C129
	164-HxCB							**2.0E-04**		**2.3E-03**		**4.4E-03**		**1.8E-04**		**6.7E-03**		**4.4E-04**		**6.7E-03**		**7.0E-03**	
	165-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	166-HxCB								C128		C128		C128		C128		C128		C128		C128		C128
	167-HxCB							1.9E-04	U	**1.5E-03**		**2.8E-03**		**1.2E-04**		**4.2E-03**		**3.0E-04**		**3.9E-03**		**3.7E-03**	
	168-HxCB								C153		C153		C153		C153		C153		C153		C153		C153
	169-HxCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	2.2E-04	U	2.5E-05	U	1.9E-04	U	2.3E-04	U
	170-HpCB							**7.4E-04**		**2.8E-03**		**6.5E-03**		**3.9E-04**		**8.0E-03**		**4.3E-04**		**1.1E-02**		**1.3E-02**	
	171-HpCB							3.8E-04	CU	**9.5E-04**	**C**	**2.0E-03**	**C**	**1.1E-04**	**C**	**2.7E-03**	**C**	**1.6E-04**	**C**	**3.6E-03**	**C**	**4.2E-03**	**C**
	172-HpCB							1.9E-04	U	**3.7E-04**		**8.8E-04**		**6.0E-05**		**1.2E-03**		**6.6E-05**		**1.8E-03**		**2.0E-03**	
	173-HpCB								C171		C171		C171		C171		C171		C171		C171		C171
	174-HpCB							**9.3E-04**		**2.1E-03**		**5.2E-03**		**3.5E-04**		**7.6E-03**		**3.8E-04**		**1.2E-02**		**1.5E-02**	
	175-HpCB							1.9E-04	U	1.9E-04	U	2.0E-04	U	2.2E-05	U	**2.5E-04**		2.5E-05	U	**3.9E-04**		**4.8E-04**	
	176-HpCB							1.9E-04	U	**2.4E-04**		**4.8E-04**		**3.3E-05**		**7.3E-04**		**4.0E-05**		**1.2E-03**		**1.6E-03**	
	177-HpCB							**4.7E-04**		**1.1E-03**		**2.7E-03**		**1.8E-04**		**4.0E-03**		**2.2E-04**		**5.7E-03**		**7.0E-03**	
	178-HpCB							**1.9E-04**		**2.6E-04**		**7.3E-04**		**6.0E-05**		**1.2E-03**		**5.8E-05**		**1.8E-03**		**2.2E-03**	
	179-HpCB							**3.1E-04**		**5.5E-04**		**1.4E-03**		**1.1E-04**		**2.3E-03**		**1.1E-04**		**3.6E-03**		**5.0E-03**	

TABLE 3
Summary of PCB Congener Analytical Results for Soil Samples -- June 2011
New Bedford High School
New Bedford, Massachusetts

Analysis	Analyte	Sample ID:						SB-365		SS-28		SS-38		SS-52	
		Sample Depth (ft.):						0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
		Sample Date:						06/07/2011	06/07/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011	06/08/2011
		S-1/GW-2	S-1/GW-3	S-2/GW-2	S-2/GW-3	RC S-1*	TSCA								
	180-HpCB							**1.9E-03 C**	**4.2E-03 C**	**1.2E-02 C**	**8.4E-04 C**	**1.5E-02 C**	**9.1E-04 C**	**2.4E-02 C**	**2.8E-02 C**
	181-HpCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	182-HpCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	183-HpCB							**4.7E-04 C**	**1.2E-03 C**	**2.6E-03 C**	**1.9E-04 C**	**4.0E-03 C**	**2.2E-04 C**	**6.4E-03 C**	**7.6E-03 C**
	184-HpCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	185-HpCB							C183	C183	C183	C183	C183	C183	C183	C183
	186-HpCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	187-HpCB							**1.2E-03**	**1.4E-03**	**4.4E-03**	**3.5E-04**	**6.7E-03**	**3.5E-04**	**1.0E-02**	**1.3E-02**
	188-HpCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	189-HpCB							1.9E-04 U	1.9E-04 U	**3.4E-04**	2.2E-05 U	**3.9E-04**	2.5E-05 U	**4.7E-04**	**5.5E-04**
	190-HpCB							1.9E-04 U	**5.0E-04**	**1.2E-03**	**8.0E-05**	**1.5E-03**	**7.1E-05**	**2.2E-03**	**2.4E-03**
	191-HpCB							1.9E-04 U	1.9E-04 U	**2.2E-04**	2.2E-05 U	**2.9E-04**	2.5E-05 U	**4.0E-04**	**4.5E-04**
	192-HpCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	193-HpCB							C180	C180	C180	C180	C180	C180	C180	C180
	194-OcCB							**5.1E-04**	**3.4E-04**	**1.7E-03**	**1.9E-04**	**2.2E-03**	**9.5E-05**	**4.9E-03**	**6.1E-03**
	195-OcCB							**2.3E-04**	1.9E-04 U	**6.9E-04**	**6.9E-05**	**9.3E-04**	**3.0E-05**	**2.0E-03**	**2.4E-03**
	196-OcCB							**2.1E-04**	1.9E-04 U	**9.3E-04**	**9.4E-05**	**1.0E-03**	**3.8E-05**	**2.3E-03**	**3.0E-03**
	197-OcCB							3.8E-04 CU	3.9E-04 CU	4.0E-04 CU	4.5E-05 CU	4.4E-04 CU	4.9E-05 CU	**7.3E-04 C**	**9.9E-04 C**
	198-OcCB							**6.7E-04 C**	3.9E-04 CU	**2.9E-03 C**	**3.0E-04 C**	**2.8E-03 C**	**1.1E-04 C**	**5.3E-03 C**	**6.7E-03 C**
	199-OcCB							C198	C198	C198	C198	C198	C198	C198	C198
	200-OcCB							C197	C197	C197	C197	C197	C197	C197	C197
	201-OcCB							1.9E-04 U	1.9E-04 U	**2.5E-04**	**2.5E-05**	**2.8E-04**	2.5E-05 U	**5.4E-04**	**8.0E-04**
	202-OcCB							1.9E-04 U	1.9E-04 U	**7.0E-04**	**6.7E-05**	**5.7E-04**	2.5E-05 U	**9.2E-04**	**1.2E-03**
	203-OcCB							**4.0E-04**	**2.3E-04**	**1.6E-03**	**1.5E-04**	**1.7E-03**	**6.4E-05**	**3.1E-03**	**3.9E-03**
	204-OcCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	1.9E-04 U	2.3E-04 U
	205-OcCB							1.9E-04 U	1.9E-04 U	2.0E-04 U	2.2E-05 U	2.2E-04 U	2.5E-05 U	**2.6E-04**	**3.4E-04**
	206-NoCB							**2.6E-04**	**2.0E-04**	**5.8E-03**	**7.7E-04**	**1.9E-03**	**7.4E-05**	**2.4E-03**	**2.7E-03**
	207-NoCB							1.9E-04 U	1.9E-04 U	**3.4E-04**	**5.0E-05**	2.2E-04 U	2.5E-05 U	**2.8E-04**	**3.4E-04**
	208-NoCB							1.9E-04 U	1.9E-04 U	**2.4E-03**	**3.4E-04**	**6.9E-04**	**3.0E-05**	**6.9E-04**	**8.1E-04**
	209-DeCB							**2.5E-04**	**2.5E-04**	**6.1E-03**	**9.9E-04**	**2.0E-03**	**7.6E-05**	**2.3E-03**	**3.6E-03**
	Total PCB Congeners	2	2	3	3	2	1	**2.4E-02**	**3.9E-01**	**5.4E-01**	**2.3E-02**	**1.1E+00**	**6.3E-02**	**1.0E+00**	**1.4E+00**
	Dioxin-like PCB TEQs (ND=0 EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**3.0E-08**	**1.5E-06**	**2.3E-06**	**5.4E-08**	**4.4E-06**	**2.8E-07**	**3.4E-06**	**4.0E-06**
	Dioxin-like PCB TEQs (ND=DL/2; EMPC=EMPC)	2.0E-05	2.0E-05	5.0E-05	5.0E-05	5.0E-05	N/A	**1.2E-05**	**1.4E-05**	**1.5E-05**	**1.5E-06**	**1.9E-05**	**1.9E-06**	**1.6E-05**	**1.9E-05**

Notes:

mg/kg - milligrams per kilogram (dry weight) or parts per million (ppm).

C - Congener has coeluters. When Cxxx, refer to congener number xxx for data.

K - Estimated Maximum Possible Concentration.

U - Compound was not detected at specified quantitation limit.

Values in **Bold** indicate the compound was detected.

Values shown in Bold and shaded type exceed one or more of the listed MassDEP Method 1 standards.

Values shown in Bold and shaded type exceed TSCA but are less than the listed Method 1 standards.

PCBs - Polychlorinated Biphenyls.

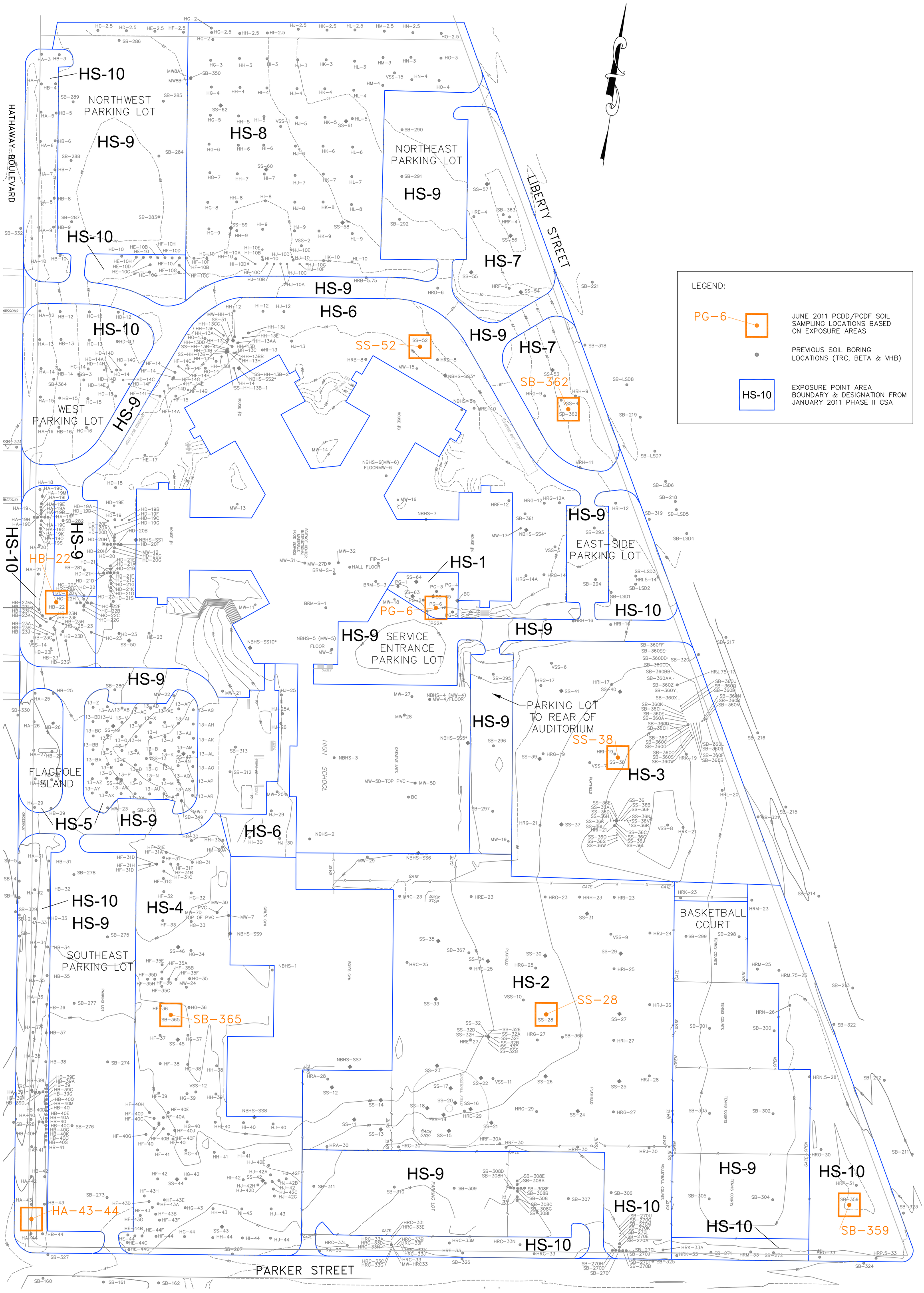
EMPCs - Estimated Maximum Possible Concentrations.

TEQ - Toxicity Equivalent; calculated using 2005 WHO Toxicity Equivalent Factors.

RC - Reportable Concentration.

TSCA - Toxic Substances Control Act criteria.

* - For reference purposes only.



NOTES:

1. MAP PREPARED BASED ON DRAWINGS AND SURVEY DATA PROVIDED BY LAND PLANNING, INC. OF HANSON, MASSACHUSETTS.

2. ALL TRC SAMPLING LOCATIONS SURVEYED BY LAND PLANNING, INC. OF HANSON, MASSACHUSETTS.

3. BETA SAMPLE LOCATIONS ARE APPROXIMATE AND BASED ON THE FIGURE PROVIDED IN THE JUNE 9, 2006 "SUMMARY OF ANALYTICAL DATA, NEW BEDFORD HIGH SCHOOL, NEW BEDFORD, MASSACHUSETTS" BY BETA GROUP, INC. OF NORWOOD, MASSACHUSETTS.

NEW BEDFORD HIGH SCHOOL

NEW BEDFORD, MASSACHUSETTS

JUNE 2011 PCDD/PCDF SOIL SAMPLING LOCATIONS

TRC
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854
(978) 970-5600

FIGURE 1

DRAWN BY: HWB

CHECKED BY: DNP

DATE: SEPT 2011

FILE: T:\E_CAD\115058\NBHS PCDD PCDF SAMPS - JUNE 2011.dwg