Thomas Prince School
170 Sterling Road
Princeton, Massachusetts

Table 1
INDOOR AIR SAMPLING RESULTS
USEPA Method TO-10A

Indoor Air
USEPA Method TO-10A/8082/680
Polychlorinated Biphenyls

Sample Location	Sampling Date	Method		Notes	Sample Designation	Total Aroclor	Total Homolog's	Aroclor (EPA Method 8082)				Homolog's (EPA Method 680)									
		Aroclor (8082)	Homolog's (680)					1221	1242	1248	1254	Monochlorobiphenyl	Dichlorobiphenyl	Trichlorobiphenyl	Tetrachlorobiphenyl	Pentachlorobiphenyl	Hexachlorobiphenyl	Heptachlorobiphenyl	Octachlorobiphenyl	Nonachlorobiphenyl	Decachlorobiphenyl
Classroom 100	**8/20/2011**	x	x	4,6,11	**RM 100**	**288**	**54.2**	174	114	< 47.8	< 47.8	< 12	39.2	15	< 23.9	< 23.9	< 23.9	< 35.9	< 35.9	< 59.8	< 59.8
	3/22/2012		x				**21.83**					<2.47	17.5	4.33	<4.94	<4.94	<4.94	<7.40	<7.40	<12.3	<12.3
Classroom 102	**8/20/2011**	x		4,6	**RM 102**	**102.7**		60.3	42.4	< 48	< 48										
Classroom 104	**8/20/2011**	x		4,6	**RM 104**	**254**		123	131	< 48	< 48										
Classroom 106	**8/20/2011**	x		4,6	**RM 106**	**534**		317	217	< 47.9	< 47.9										
	9/22/2011		x	4,6	**RM 106**		**72.52**					< 2.46	5.52	24.6	25.6	16.8	< 4.93	< 7.39	< 7.39	< 12.3	< 12.3
	3/22/2012		x		**RM 106**		**55.4**					<2.47	26.7	28.7	<4.94	<4.94	<4.94	<7.41	<7.41	<12.4	<12.4
Classroom 108	**8/20/2011**	x		4,6	**RM 108**	**360**		196	164	< 48.7	< 48.7										
Classroom 108A	**8/20/2011**	x		4,6	**RM 108A**	**171.6**		82	89.6	< 49.9	< 49.9										
Classroom 108	**11/8/2011**		x		**RM 108**		**25.6**					<2.5	13.7	11.9	<5	<5	<5	<7.5	<7.5	<12.5	<12.5
Classroom 110	**8/20/2011**	x		4,6	**RM 110**	**191.9**		104	87.9	< 49.2	< 49.2										
Computer Lab 111	**8/20/2011**	x		4,6	**RM 111**	**155.7**		94.8	60.9	< 49.6	< 49.6										
	9/22/2011		x		**RM 111**		**23.29**					8.69	4.17	3.91	6.52	< 4.97	< 4.97	< 7.45	< 7.45	< 12.4	< 12.4
Home Economics 112	**8/20/2011**	x	x	4,5,11,12	**RM 112**	**24.8**	**ND**	24.8	<48.9	< 48.9	< 48.9	< 12.2	< 12.2	< 12.2	< 24.4	< 24.4	< 24.4	< 36.7	< 36.7	< 61.1	< 61.1
	8/20/2011	x			**RM 112 (DUP)**	**ND**		<66.9	<66.9	< 66.9	< 66.9										
Off Library 113	**8/20/2011**	x		4,6	**RM 113**	**140.3**		87.4	52.9	< 50.3	< 50.3										
	9/22/2011		x		**RM 113**		**14.74**					< 2.46	2.92	6.72	5.1	< 4.93	< 4.93	< 7.39	< 7.39	< 12.3	< 12.3
Office Common Area 13	**8/20/2011**	x	x	4,6,11	**RM 13**	**148.6**	**13.3**	95.7	52.9	< 49.3	< 49.3	< 12.3	13.3	< 12.3	< 24.6	< 24.6	< 24.6	< 37	< 37	< 61.6	< 61.6
	9/22/2011		x		**RM 13**		**4.98**					< 2.45	< 2.45	4.98	< 4.91	< 4.91	< 4.91	< 7.36	< 7.36	< 12.3	< 12.3
Cafeteria	**8/20/2011**	x		4,6	**CAF/AUD A**	**169.1**		104	65.1	< 44.3	< 44.3										
	8/20/2011	x		4,6	**CAF/AUD B**	**197.3**		119	78.3	< 48.4	< 48.4										
	8/20/2011	x		4,6	**CAF/AUD DUP**	**197.7**		121	76.7	< 48.4	< 48.4										
	9/22/2011		x		**CAF/AUD**		**6.28**					< 2.51	< 2.51	6.28	< 5.01	< 5.01	< 5.01	< 7.52	< 7.52	< 12.5	< 12.5
	9/22/2011		x		**CAF/AUD DUP**		**11.8**					< 2.4	< 2.4	5.98	5.82	< 4.81	< 4.81	< 7.21	< 7.21	< 12	< 12
	3/22/2012		x		**Cafeteria**		**ND**					<2.48	<2.48	<2.48	<4.95	<4.95	<4.95	<7.43	<7.43	<12.4	<12.4
Kitchen	**8/20/2011**	x		4,6	**KITCHEN**	**146.9**		88.7	58.2	< 47.9	< 47.9										
	9/22/2011		x		**KITCHEN**		**12.07**					3.27	< 2.47	2.58	6.22	< 4.95	< 4.95	< 7.42	< 7.42	< 12.3	< 12.3
	3/22/2012		x		**KITCHEN**		**5.39**					<2.41	5.39	<2.41	<4.82	<4.82	<4.82	<7.23	<7.23	<12.0	<12.0
Stage Area	**8/20/2011**	x		4,6	**STAGE**	**144.3**		75.5	68.8	< 48.8	< 48.8										
Staff Lounge -- Off Kitchen	**8/20/2011**	x			**T LOUNGE**	**109.5**		66.6	42.9	< 48.4	< 48.4										
Electrical Room	**8/20/2011**	x		4,5,6	**ELEC ROOM**	**93.5**		48.4	45.1	< 48.1	< 48.1										
100 Corridor North	**8/20/2011**	x		4,6	**100 COR A**	**289**		170	119	< 47.7	< 47.7										
	9/22/2011		x		**100 COR N**		**64.33**					4.53	17.9	18	10.9	13	< 4.93	< 7.4	< 7.4	< 12.3	< 12.3

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Polychlorinated Biphenyls

Sample Location	Sampling Date	Method		Notes	Sample Designation	Total Aroclor	Total Homolog's	Aroclor (EPA Method 8082)				Homolog's (EPA Method 680)									
		Aroclor (8082)	Homolog's (680)					1221	1242	1248	1254	Monochlorobiphenyl	Dichlorobiphenyl	Trichlorobiphenyl	Tetrachlorobiphenyl	Pentachlorobiphenyl	Hexachlorobiphenyl	Heptachlorobiphenyl	Octachlorobiphenyl	Nonachlorobiphenyl	Decachlorobiphenyl
100 Corridor South	8/20/2011	x			100 COR B	155.5		94.2	61.3	< 49.6	< 49.6										
	9/22/2011		x		100 COR S		29.31					< 2.48	11.8	10.1	7.41	< 4.96	< 4.96	< 7.44	< 7.44	< 12.4	< 12.4
Central Corridor West	8/20/2011	x			MID COR A	ND		< 49	< 49	< 49	< 49										
	9/22/2011		x		CENTRAL COR MID		41.8					6.24	3.71	7.22	5.13	19.5	< 4.93	< 7.4	< 7.4	< 12.3	< 12.3
Central Corridor East	8/20/2011	x		4,6	MID COR B	170.5		103	67.5	< 49.9	< 49.9										
	9/22/2011		x		CENTRAL COR E		10.6					3.95	< 2.52	6.65	< 5.03	< 5.03	< 5.03	< 7.55	< 7.55	< 12.6	< 12.6
200 Corridor North	8/20/2011	x			200 COR A	123		70.8	52.2	< 50.1	< 50.1										
	9/22/2011		x		200 COR N		16.34					4.25	2.65	3.01	6.43	< 4.9	< 4.9	< 7.36	< 7.36	< 12.3	< 12.3
200 Corridor South	8/20/2011	x		4,5,6,7,8	200 COR B	199		94.9	60.8	< 48.4	43.3										
	9/22/2011		x		200 COR S		34.1					5.59	3.85	6.36	7.8	10.5	< 4.9	< 7.34	< 7.34	< 12.2	< 12.2
Classroom 201	8/1/2011	x		4,9,10	201	322		110	<48.7	92	120										
	3/22/2012		x				171.47					<2.46	7.07	19.8	65.6	79	<4.92	<7.38	<7.38	<12.3	<12.3
Classroom 203	8/1/2011	x		4,9,10	203	318.9		131	<48.9	72.9	115										
	3/22/2012		x				131.9					<2.50	26.1	20.7	48.5	36.6	<4.99	<7.49	<7.49	<12.5	<12.5
Classroom 205	8/1/2011		x	4,9,10	205	661.2		84.2	<46.9	224	353										
	3/22/2012		x				220.59					<2.44	5.59	<2.44	102	113	<4.88	<7.31	<7.31	<12.2	<12.2
Classroom 207	8/1/2011	x		4,9,10	207	591		218	<46.8	149	224										
	3/22/2012		x				134.11					<2.49	6.71	15.4	71.3	40.7	<4.98	<7.47	<7.47	<12.4	<12.4
Classroom 209	8/1/2011	x		4,9,10	209	1021		249	<41.7	266	506										
	9/22/2011		x		RM 209		900.87					5.87	12	77.1	250	487	68.9	< 7.45	< 7.45	< 12.4	< 12.4
	11/8/2011		x		RM 209		179.01					3.3	6.55	20.8	48.2	94.6	5.56	<7.5	<7.5	<12.5	<12.5
	3/22/2012		x		RM 209		311.8					<2.44	15.6	23.2	88.6	168	16.4	<7.31	<7.31	<12.2	<12.2
	3/22/2012		x		RM 209 DUP		248.73					<2.45	11.0	7.23	84.5	146	<4.9	<7.35	<7.35	<12.2	<12.2
	3/22/2012		x		RM 209 AVERAGE		272.07						13.3	15.2	86.55	157					
Classroom 211	8/1/2011	x		4,9,10	211	396.3		187	<50.2	74.3	135										
	3/22/2012		x				78.35					<2.43	21.3	8.25	25.0	23.8	<4.86	<7.29	<7.29	<12.2	<12.2
Library East	8/20/2011	x		4,6	LIBRARY A	144.2		80.8	63.4	< 47.5	< 47.5										
Library West	8/20/2011	x		4,6	LIBRARY B	158.5		88.2	70.3	< 49.7	< 49.7										
Library	9/22/2011		x		LIBRARY		18.64					< 2.44	3.04	15.6	< 4.88	< 4.88	< 4.88	< 7.32	< 7.32	< 12.2	< 12.2
Library	3/22/2012		x		LIBRARY		3.86					<2.48	<2.48	3.86	<4.96	<4.96	<4.96	<7.44	<7.44	<12.4	<12.4
Storage Room Opposite 211	8/20/2011	x		4,6,7,8	RM 21	274.4		121	99.2	< 48.5	54.2										
South Corridor West	8/20/2011	x			SOUTH COR A	38.9		38.9	< 49.2	< 49.2	< 49.2										
South Corridor East	8/20/2011	x		4,5	SOUTH COR B	35.2		35.2	< 49.4	< 49.4	< 49.4										
Kindergarten 300	8/20/2011	x	x		RM 300	ND	ND	< 50.1	< 50.1	< 50.1	< 50.1	< 12.5	< 12.5	< 12.5	< 25.1	< 25.1	< 25.1	< 37.6	< 37.6	< 62.6	< 62.6
Kindergarten 302	8/20/2011	x	x	4,5,11	RM 302	20.1	ND	20.1	< 49.5	< 49.5	< 49.5	< 12.4	< 12.4	< 12.4	< 24.8	< 24.8	< 24.8	< 37.1	< 37.1	< 61.9	< 61.9
		x		4,5,11	RM 302 DUP	33.9		33.9	< 48.5	< 48.5	< 48.5										
300 Corridor North	8/20/2011	x			300 COR A	ND		< 49.7	< 49.7	< 49.7	< 49.7										
300 Corridor South	8/20/2011	x			300 COR B	ND		<49.9	< 49.9	< 49.9	< 49.9										
North Corridor West	8/20/2011	x		4	ENT COR B	22.3		22.3	< 50.1	< 50.1	< 50.1										
North Corridor East	8/20/2011	x			ENT COR A	ND		<50.3	< 50.3	< 50.3	< 50.3										

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		Aroclor (8082)	Homolog's (680)					1221	1242	1248	1254	Monochlorobiphenyl	Dichlorobiphenyl	Trichlorobiphenyl	Tetrachlorobiphenyl	Pentachlorobiphenyl	Hexachlorobiphenyl	Heptachlorobiphenyl	Octachlorobiphenyl	Nonachlorobiphenyl	Decachlorobiphenyl
Classroom 303	**8/20/2011**	x	x	4,5,11	**RM 303**	**20.8**	**ND**	20.8	< 49.8	< 49.8	< 49.8	< 12.4	< 12.4	< 12.4	< 24.9	< 24.9	< 24.9	< 37.3	< 37.3	< 62.2	< 62.2
Classroom 308	**8/20/2011**	x	x		**RM 308**	**ND**	**ND**	< 49	< 49	< 49	< 49	< 12.3	< 12.3	< 12.3	< 24.5	< 24.5	< 24.5	< 36.8	< 36.8	< 61.3	< 61.3
Gymnasium West	**8/20/2011**	x		4,5,11	**GYM A**	**30.5**		30.5	< 48.4	< 48.4	< 48.4										
Gymnasium East	**8/20/2011**	x	x	4,5,11	**GYM B**	**37.1**	**ND**	37.1	< 48.9	< 48.9	< 48.9	< 12.2	< 12.2	< 12.2	< 24.5	< 24.5	< 24.5	< 36.7	< 36.7	< 61.2	< 61.2
Science Room	**8/20/2011**	x	x	11	**RM 402**	**ND**	**ND**	< 50.5	< 50.5	< 50.5	< 50.5	< 12.6	< 12.6	< 12.6	< 25.2	< 25.2	< 25.2	< 37.8	< 37.8	< 63.1	< 63.1
Art & Industry Room	**8/20/2011**	x	x	11	**RM 404**	**ND**	**ND**	< 48.7	< 48.7	< 48.7	< 48.7	< 12.2	< 12.2	< 12.2	< 24.4	< 24.4	< 24.4	< 36.5	< 36.5	< 60.9	< 60.9
Outside (NW Cnr. of Bldg.)	**8/20/2011**	x			**OUTSIDE A**	**ND**		< 51.7	< 51.7	< 51.7	< 51.7										
Outside (S. Courtyard)	**8/20/2011**	x			**OUTSIDE B**	**ND**		< 48.6	< 48.6	< 48.6	< 48.6										
	9/22/2011		x		**OUTSIDE S COURTYARD**		**ND**					< 2.42	< 2.42	< 2.42	< 4.84	< 4.84	< 4.84	< 7.26	< 7.26	< 12.1	< 12.1

Notes:

Concentrations in nanograms (billionth of a gram) per cubic meter (ng/m3).

"<" or "ND" denotes = Not Detected at laboratory reporting limit.

Yellow shading denotes = Post Abatement Indoor Air Sampling

1. Total School dose includes inhalation (indoors and outdoors, and exposure to dust and soil.
2. Total Dose includes school and non-school doses: non-school dose includes inhalation of indoor and outdoor air, and exposures to soil, dust, and via diet.
3. RfD (Reference Dose) = 20 ng/kg-day (USEPA).
4. Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present
5. Estimated concentration. The concentration is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL)
6. Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits and altered PCB pattern.
7. Aroclor 1248 is being reported as the best Aroclor match. The sample exhibits and altered PCB pattern.
8. The laboratory note indicates that this concentration is being reported as Aroclor 1248 as the best match: the result, however, is indicated as 1254.
9. Aroclor 1248 is being used to report an altered PCB exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in
10. Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits altered PCB pattern.
11. Decachlorobiphenyl (DCBP) used as a surrogate in original Method 8082. The C13-labeled DCBP surrogate normally used to differentiate the surrogate from the DCBP PCB homolog was
12. Percent recovery of tetrachloro-meta-xylene (TCMX) and decachlorobiphenyl (DCBP) surrogates above laboratory-established limits.

08/01/11 - Initial IAS round - limited to 200-wing classrooms

08/20/11 - 2nd IAS round - comprehensive round throughout building

09/22/11 - 3rd IAS round - targeted to show effects of initial "cleaning".

11/08/11 - 4th IAS round - Limited to classrooms 209 & 108.

3/22/12 - 5th IAS Round - Post Abatement 200-Wing, Cafeteria & Kitchen

Public Health Levels of PCBs in School Indoor Air - Guidance

Age (years)	ng/m^3	
1-<2	70	
2-<3	70	
3-<6	100	
6-<12	300	Elementary School
12-<15	450	Middle School
15-<19	600	High School
19+	450	Adult