



Shaping the Future

October 4, 2013

Mr. Bernard P. Orlan
Director, Environmental Health & Safety
New York City Department of Education
44-36 Vernon Blvd, 3rd Floor
Long Island City, NY 11101

Re: **PCB Wipe Sampling Report**
P.S. 67X
Cardino ATC Project: No. 42672.3187
Work Order No. 00511837 04

Dear Mr. Orlan:

Cardino ATC was retained by NYC-DOE to perform a limited PCB wipe sampling inspection at X067 located at 2024 Mohegan Avenue, Bronx, NY 10460. The inspection was performed by Mr. Sydney Williams on October 3, 2013 and it was limited to wipe samples collection and analysis in Room #227 to determine if any surface was contaminated with PCB, following the removal of failed T-12 light fixture ballast. The light fixture ballast was removed by Triumvirate Environmental, a hazardous waste management contractor retained by NYC-DOE to provide removal and clean up services.

BACKGROUND

Polychlorinated biphenyls are a group of man-made chemicals that can cause a number of different harmful effects. PCB's are either oily liquids or solids and are colorless to light yellow. There are no known natural sources of PCB's in the environment. PCB's were used mainly in making electrical transformers, capacitors and other heat transfer devices but some were also used in building materials.

PCB's may be present in older fluorescent light fixtures in any school building that had fluorescent lights installed before 1979 and never had a lighting upgrade. The ballast is a transformer inside the light fixture that is not accessible unless the light is disassembled. PCB's are contained within the light ballasts' capacitors and in the ballasts' potting material (a black tar-like substance used to protect the capacitor). As the ballast ages, it can overheat causing a burning or smoky odor or in some cases, causing tar from the potting material or oil to drip from the fixture.

Indications of leaking PCB ballasts may include the presence of an oily film on the metal casing, a leaking putty-like compound (the potting material), or discoloration of the metal casing. Other leaking signs include drips, buzzing, and discoloration of the light ends. Almost all ballast casings are a single color (often black or white) with a contrasting label. Leaks, when present, are usually found around the metal seams of the casing. Indications of burning PCB ballast may include: an acrid and burning tar odor; melted tar oozing from the casing seams; and visible electrical lead bushings. It is very rare for PCB ballasts to actually catch on fire.

Evaluation Criteria for PCB Spills

PCB manufacture, use, storage and disposal are regulated by U.S. EPA under TSCA and Part 761, Title 40 of the Code of Federal Regulations (40 CFR Part 761). TSCA regulates any materials or wastes that contain PCBs at concentrations of 50 ppm (parts per million) or greater. Light ballasts containing PCB oil in the small capacitor or the potting compound are included in this regulation. Leaking PCB ballasts are regulated as hazardous wastes and toxic substances. Proper handling and cleanup of leaking PCB ballasts is necessary to protect public health and the environment. TSCA regulates disposal of PCB wastes with concentrations over 1 ppm. Leaking PCB light ballasts often generate wastes in excess of 1 ppm. In addition, PCBs are regulated under TSCA if an impervious surface shows 10 micrograms (ug) per 100 square centimeters (cm²) of PCBs. Examples of this in the classroom are the surfaces of floors, desks, and bookcases.

PCB WIPE SAMPLES

Cardno ATC collected a total of three (3) samples (two surface samples and one blank) within Room #507 and subsequently sent them to New York Environmental and Analytical Labs, Inc. for analysis via EPA 8082 Method. All samples were obtained in accordance with EPA 40CFR 761.123 and NYC-DOE "*PCB Light Ballasts Wipe Sampling Protocol*" and included using a 10x10 cm template to outline the sample area and a sterile gauze pad wetted with hexane or reagent grade acetone to collect the sample. The hexane or reagent grade acetone wetted pad was used to wipe the area outlined with the 100 cm² template or the measured area if the area is an irregular surface. The area was wiped completely twice, from left to right and then from top to bottom. For waxed surfaces such as floors the wetting agent used is de-ionized water or distilled water because solvents used on waxed surfaces will not give an accurate analysis for PCB's. The wipe media was then inserted into a 6 ounce sterilized glass vial and delivered to the laboratory.

The following table summarizes the inspection results:

Table 1.0 PCB Wipe Sample Results (after ballast removal)

Sample Id. No.	Location	Type of Surface Sampled	Sample Media	Detection Limit (ug/cm ²)	Result (ug/cm ²)
01	Blank	Blank	Gauze Pad w/ hexane or reagent acetone	3	<3
02	Room #507	Table Top (x=8, y=22)	Gauze Pad w/ hexane or reagent acetone	0.03	<0.03
03	Room #507	Floor- 12x12 blue VFT (X=9, Y=22)	Gauze Pad w/ deionized water	0.03	<0.03



Shaping the Future

CONCLUSIONS

Wipe samples obtained from table and floor within Room #507 show PCB concentrations to be below the detection limit.

Cardno ATC is pleased to be of service to the New York City Department of Education. Please feel free to contact us at (212) 353 8280 ext. 268 if you should have any questions or comments concerning this report.

Cardno ATC

A handwritten signature in blue ink, appearing to read 'Mike Balota', written over a faint printed name.

Mike Balota
Project Manager

Appendixes: A- PCB Data and Chain of Custody Forms
B- PCB Analytical Results
C- Laboratory Certifications
D- NYC DOE Work Order Request



Cardno
ATC

Shaping the Future

PCB Wipe Sampling Report @

P.S. 67X

October 4, 2013

APPENDIX A

PCB DATA AND CHAIN OF CUSTODY FORMS

PCB WIPE SAMPLING COC

29890

PROJECT INFORMATION

1. Client: NYC-DOE	2. Project Name: PS 67X	3a. ATC Project No.: 42672. 3187	4a. Project Manager: Dragos Balota
5. Date: 10-3-13	6. Building Name: PS 67X	3b. Task No.: 0001	4b. Inspector: Sydney Williams
7. Location: Room # 507	8. Surrounding Time: RUSH (6 hours or less)	9. Comments (Field) Analyze all samples via 8082 Method.	

WIPE SAMPLE LOCATION

10. Sample ID No.	11. LAB ID No.	12. Room No.	13A. Surface Sampled	13B. Sample Coordinates (x and y)	14. MEDIA	15. Area Sampled (cm ²)	16. MDL (ug/cm ²)	16A. RESULT (ug/cm ²)	
01	B	←	BLANK	---	Gauze Pad w/ Hexane	→	3ug	MD ≤ 309	
02	H	507	TABLE TOP	Y-22'	Gauze PAD WITH HEXANE	100	0.03	ND ≤ 0.03	
03	W	507	12" VINYL TILES-BLUE FLOOR	X-9' Y-22'	Gauze PAD WITH DILGON HD	100	0.03	ND ≤ 0.03	
				 2133177 C 2 9 6 7					

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal
SYDNEY WILLIAMS	10-3-13		[Signature]	10-9-13	0804	Field Walk In US Mail <input checked="" type="checkbox"/> Fed-Ex <input type="checkbox"/> Other <input type="checkbox"/>
II.						
III.						

LABORATORY INFORMATION

24. Name and Signature:	25. Date	26. Time	27. Comments:
24a. Analyzed By:			Please email results to dragos.balota@cardno.com
24b. Analyzed By:			
24c. QC By:			



Cardno
ATC

Shaping the Future

PCB Wipe Sampling Report @

P.S. 67X

October 4, 2013

APPENDIX B

PCB ANALYTICAL RESULTS

ATC project #15.42672.3187
DOE Work Order # 00511837 04

CLIENT: Cardano ATC
104 E. 25 St. 10th Fl.
New York, NY 10011

REPORT NO.: 2133177
PROJECT NO.: 39090

PROJECT: 42672.3187
PS 67X
2024 Mohegan Ave., Bnx

SAMPLED: 10/3/13
RECEIVED: 10/4/13
ANALYZED: 10/4/13
REPORTED: 10/4/13

ANALYTICAL REPORT

PCB WIPE
GC/ECD (EPA METHOD 8082)

COMPOSITED SAMPLE ID: 01
MATRIX: SURFACE WIPE
SAMPLE LOCATION: Blank

BATCH NO.: C2967-1

TYPE OF PCB	CAS NO.	RESULT (ug)	MINIMUM DETECTION LIMIT (ug)
PCB 1016	12674-11-2	<3	3
PCB 1221	11104-28-2	<3	3
PCB 1232	11141-16-5	<3	3
PCB 1242	53469-21-9	<3	3
PCB 1248	12672-29-6	<3	3
PCB 1254	11097-69-1	<3	3
PCB 1260	11096-82-5	<3	3


NICOLE CHEUNG
CHEMIST


LI TSANG
LABORATORY DIRECTOR

The report relates only to the items tested, as received by the laboratory. This report cannot be used in part and may only be used in full with this laboratory's approval. This report must not be used in any way to claim product endorsement by New York Environmental and ELAP of NYSDOH.

CLIENT: Cardno ATC
104 E. 25 St. 10th fl.
New York, NY 10011

REPORT NO. 2133177
PROJECT NO. 39090

PROJECT: 42672.3187
PS 67X
2024 Mohegan Ave., Bnx

SAMPLED: 10/3/13
RECEIVED: 10/4/13
ANALYZED: 10/4/13
REPORTED: 10/4/13

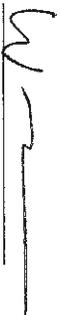
ANALYTICAL REPORT

PCB WIPE
GC/ECD (EPA METHOD 8082)

COMPOSITED SAMPLE ID: 02
MATRIX: SURFACE WIPE
SAMPLE LOCATION: Room 507 (Table Top)

BATCH NO. C2967-2

TYPE OF PCB	CAS NO.	RESULT (ug/cm ²)	MINIMUM DETECTION LIMIT (ug/cm ²)
PCB 1016	12674-11-2	<0.03	0.03
PCB 1221	11104-28-2	<0.03	0.03
PCB 1232	11141-16-5	<0.03	0.03
PCB 1242	53469-21-9	<0.03	0.03
PCB 1248	12672-29-6	<0.03	0.03
PCB 1254	11097-69-1	<0.03	0.03
PCB 1260	11096-82-5	<0.03	0.03


NICOLE CHEUNG
CHEMIST


LI TSANG
LABORATORY DIRECTOR

The report relates only to the items tested, as received by the laboratory. This report cannot be used in part and may only be used in full with this laboratory's approval. This report must not be used in any way to claim product endorsement by New York Environmental and ELAP of NYSDOH.

CLIENT: Cardno ATC
104 E. 25 St. 10th Fl.
New York, NY 10011

REPORT NO. 2133177
PROJECT NO. 39090

PROJECT: 42672.3187
PS 67X
2024 Mohegan Ave., Bnx

SAMPLED: 10/3/13
RECEIVED: 10/4/13
ANALYZED: 10/4/13
REPORTED: 10/4/13

ANALYTICAL REPORT

PCB WIPE
GC/ECD (EPA METHOD 8082)

COMPOSITED SAMPLE ID: 03
MATRIX: SURFACE WIPE
SAMPLE LOCATION: Room 507 (12" Vinyl Tiles, Blue, Floor)

BATCH NO. C2967-3

TYPE OF PCB	CAS NO.	RESULT (ug/cm ²)	MINIMUM DETECTION LIMIT (ug/cm ²)
PCB 1016	12674-11-2	<0.03	0.03
PCB 1221	11104-28-2	<0.03	0.03
PCB 1232	11141-16-5	<0.03	0.03
PCB 1242	53469-21-9	<0.03	0.03
PCB 1248	12672-29-6	<0.03	0.03
PCB 1254	11097-69-1	<0.03	0.03
PCB 1260	11096-82-5	<0.03	0.03


NICOLE CHEUNG
CHEMIST


LI TSANG
LABORATORY DIRECTOR

The report relates only to the items tested, as received by the laboratory. This report cannot be used in part and may only be used in full with this laboratory's approval. This report must not be used in any way to claim product endorsement by New York Environmental and ELAP of NYSDOH.



Cardno
ATC

Shaping the Future

PCB Wipe Sampling Report @

P.S. 67X

October 4, 2013

APPENDIX C

LABOARTORY CERTIFICATIONS

ATC project #15.42672.3187
DOE Work Order # 00511837 04

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014
Issued April 01, 2013

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

NY Lab ID No. 113710

MR. LIJIANG
NY ENVIRONMENTAL AND ANALYTICAL LABS INC.
88 HARBOR ROAD
PORT WASHINGTON, NY 11050

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE

All approved analytes are listed below:

- Characteristic Testing
EPA 1311
- TOPP
- Polychlorinated Biphenyls
EPA 8082
EPA 8002
- PCB-1018
EPA 8002
- PCB-1221
EPA 8082
- PCB-1222
EPA 8082
- PCB-1242
EPA 8082
- PCB-1248
EPA 8082
- PCB-1254
EPA 8082
- PCB-1269
EPA 8082
- Sample Preparation Methods
EPA 3550B

Serial No. 486933

Printing of the New York State Department of Health. Certificates are valid only at the address shown, must be continuously posted, and are printed on secure paper. Continued acceptance depends on successful ongoing participation in the TQM and Consumer Satisfaction programs. Contact the laboratory's accreditation status.





Cardno
ATC

Shaping the Future

PCB Wipe Sampling Report @

P.S. 67X

October 4, 2013

APPENDIX D

NYC DOE WORK ORDER REQUEST

ATC project #15.42672.3187
DOE Work Order # 00511837 04

2187

Work Order Package

00511837 04

Rpt : TIPMC11
Date: 10/03/2013



Page: 1

Facility: DSF DIVISION OF SCHOOL FACILITIES
 Unit : X Project :
 W/O Type: CO Priority: 04 W/O Dspln: H
 Planner : MDELMON2 DELMONICO
 W/O Title : 75/12X067/ INSPECT / REMOVE FAILED T
 W/O Task Title: 75/12X067/ PERFORM PCM AIR TEST - SM
 Written To : P.S. 67 - BRONX
 Task Dspln : Completed By:



Work Order Task Written To

Facility :	DSF	Unit :	X	Op Sys :	GEO-12
Division :		Area :	ISCI	Sys/Cls:	X067
Equipment :	ABLDG X067	Component:		Ops Review Reqd:	N
Work Item :		Eqt. List:			
Equip. Tag :		Alt:			
UTC :		Tbl/Brkdn:	(Past 12 mo)		
Catalog ID:	WMCG3977	Job Type :	ET	UCR:LB14	
Client/Act:			WILBERT MCGRAW JR		
Location :	X03 12300003 000001 2024 MOHEGAN AV, BRONX, NY 10460				
Cost Center:	G839	Activity :		User Def:	
Percentage:	100.000	Acct No. :	GL		

Work Order Task Instructions

PERFORM PCM AIR TEST - SMOKING T-12 BALLAST
 LOC: CLASSROOM 507. 1- FIXTURE. SMOKING T-12 BALLAST.
 Custodian WILBERT MCGRAW JR 718-328-4022

Completion Comments on Work Performed

Completion Comments Required : N

Comments:

Comments:

Comments:

Continued on Additional Sheets? : _____