

October 14, 2015

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. 119 Annex (X101)
Cardno ATC Project: No. Z214AA-0753
Work Order No. 00589803 03**

Dear Mr. Orlan:

Cardno ATC was retained by NYC-DOE to perform a limited PCB wipe sampling inspection at X101 located at 2750 Lafayette Avenue, Bronx, NY 10465. The inspection was performed by Mr. Diego Lopez on October 13, 2015 and it was limited to wipe samples collection and analysis within Room #107 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 #107 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 #107	Floor- 9x9 gray VFT (x=7.01, y=13.01)	Gauze Pad w/ deionized water	0.03	<0.03
03	Room #107	Floor- 9x9 gray VFT (x=7.03, y=16.03)	Gauze Pad w/ deionized water	0.03	<0.03

CONCLUSIONS

Wipe samples obtained from floor within Room #107 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



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

APPENDIX A

PCB DATA AND CHAIN OF CUSTODY FORMS

PCB WIPE SAMPLING COC

PROJECT INFORMATION

1. Client: NYC-DOE	2. Project Name: X101	3a. ATC Project No.: Z214AA.0750	4a. Project Manager: Dragos Balota
	2a. Project Address: 2750 Lafayette Ave	3b. Task No.: 0001	4b. Inspector: Diego Lopez
5. Date: 10/13/13	6. Building Name: 107	8. Turnaround Time: RUSH (6 hours or less)	
	7. Location: Room #	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	←	107	BLANK	→	Gauze Pad w/ Hexane		3	< 3
02		107	Ø x Ø VFT gr21	X=7'01 Y=13'01	DEION H ₂ O	100cm ²	0.03	< 0.03
03		↓	↓	X=7'02 Y=16'03	↓	↓	0.03	< 0.03
 C 7 0 4 0								

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal	
I. D. Lopez	10/13/13		Walter Cheung	10/13/13	16:46	Field	<input checked="" type="checkbox"/>
II.						Walk In	<input type="checkbox"/>
III.						US Mail	<input type="checkbox"/>
						Fed-Ex	<input type="checkbox"/>
						Other	<input type="checkbox"/>

LABORATORY INFORMATION

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

APPENDIX B

PCB ANALYTICAL RESULTS

ANALYTICAL REPORT for PCBs

Project Information	Batch Information	Client Information
NYE Project No.: 43990 Client Project No.: X101 / Z214AA.07 Street: 2750 Lafayette Avenue City: Bronx, NY	Batch No.: C7040 Field Tech: Client Total Samples: 3 Date Sampled: 10/13/2015 Date Received: 10/13/2015 Date Analyzed: 10/14/2015 Date Reported: 10/14/2015	Client No.: 18810 Name: Cardno ATC Street: 104 E. 25th Street, 10th Floor City/State/Zip: New York NY 10010 Phone/Fax: (212) 353-8280 (212) 353-8306 Contact: M Bonezzi

SAMPLE INFORMATION

Field Sample ID: 1	Sample Batch No. C7040-1
Sample Location: Blank	Matrix: Wipe

ANALYTICAL RESULTS

PCB ID	CAS No.	Result (µg)	MDL (µg)
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

Comment:

Lab. Certification

ELAP #: 11510

Testing Method

GC/ECD

EPA 3550C (prep) & 8082A (analysis)



W. Cheung
 Chemist



Li Tsang
 Laboratory Director

The analytical results contained within this report relate only to the samples tested in the condition received by the laboratory. This report must not be reproduced except in its entirety unless with the laboratory's written approval.



ANALYTICAL REPORT for PCBs

Project Information	Batch Information	Client Information
NYE Project No.: 43990 Client Project No.: X101 / Z214AA.07 Street: 2750 Lafayette Avenue City: Bronx, NY	Batch No.: C7040 Field Tech: Client Total Samples: 3 Date Sampled: 10/13/2015 Date Received: 10/13/2015 Date Analyzed: 10/14/2015 Date Reported: 10/14/2015	Client No.: 18810 Name: Cardno ATC Street: 104 E. 25th Street, 10th Floor City/State/Zip: New York NY 10010 Phone/Fax: (212) 353-8280 (212) 353-8306 Contact: M Bonezzi

SAMPLE INFORMATION

Field Sample ID: 2	Sample Batch No. C7040-2
Sample Location: Room 107, 9x9 Gray Vinyl Floor Tile	Matrix: Wipe

ANALYTICAL RESULTS

PCB ID	CAS No.	Result (µg/cm³)	MDL (µg/cm³)
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

Comment:

Lab. Certification

ELAP #: 11510

Testing Method

GC/ECD

EPA 3550C (prep) & 8082A (analysis)



W. Cheung
 Chemist



Li Tsang
 Laboratory Director

The analytical results contained within this report relate only to the samples tested in the condition received by the laboratory. This report must not be reproduced except in its entirety unless with the laboratory's written approval.



ANALYTICAL REPORT for PCBs

Project Information	Batch Information	Client Information
NYE Project No.: 43990 Client Project No.: X101 / Z214AA.07 Street: 2750 Lafayette Avenue City: Bronx, NY	Batch No.: C7040 Field Tech: Client Total Samples: 3 Date Sampled: 10/13/2015 Date Received: 10/13/2015 Date Analyzed: 10/14/2015 Date Reported: 10/14/2015	Client No.: 18810 Name: Cardno ATC Street: 104 E. 25th Street, 10th Floor City/State/Zip: New York NY 10010 Phone/Fax: (212) 353-8280 (212) 353-8306 Contact: M Bonezzi

SAMPLE INFORMATION

Field Sample ID: 3	Sample Batch No. C7040-3
Sample Location: Room 107, 9x9 Gray Vinyl Floor Tile	Matrix: Wipe

ANALYTICAL RESULTS

PCB ID	CAS No.	Result (µg/cm³)	MDL (µg/cm³)
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

Comment:

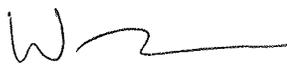
Lab. Certification

ELAP #: 11510

Testing Method

GC/ECD

EPA 3550C (prep) & 8082A (analysis)



W. Cheung
 Chemist



Li Tsang
 Laboratory Director

The analytical results contained within this report relate only to the samples tested in the condition received by the laboratory. This report must not be reproduced except in its entirety unless with the laboratory's written approval



APPENDIX C

LABOARTORY CERTIFICATIONS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires: 12:01 AM April 01, 2015
Issued: April 01, 2014



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. LI TSANG
NY ENVIRONMENTAL AND ANALYTICAL LABS INC
30 HARBOR ROAD
PORT WASHINGTON, NY 11050

NY Lab ID No: 11510

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

TCLP

EPA 1311

Speciated Hexachlorocyclopentadiene

PCB-1016

EPA

PCB-1221

EPA

PCB-1252

EPA

PCB-1242

EPA

PCB-1248

EPA 1002A

PCB-1254

EPA 1001A

PCB-1260

EPA 1001A

Sample Preparation Methods

EPA 8000



Serial No: 50669

Property of the New York State Department of Health. Certificates are valid only at the address shown. They are non-transferable and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Complaints are urged to call (518) 485-4577 or visit the laboratory's accreditation office.

APPENDIX D

NYC DOE WORK ORDER REQUEST

Facility: DSF DIVISION OF SCHOOL FACILITIES
 Unit : X Project :
 W/O Type: CO Task Pri: 04 Tsk Dspln: H
 Planner : EMUSZYN MUSZYNSKI
 W/O Title : 75/08X101/ INSPECT/REMOVE FAILED T-1
 W/O Task Title: 75/08X101/PERFORM PCM AIR TEST OF FA
 Written To : P.S. 119 ANNEX (J 101) - BRONX
 Completed By:



Work Order Package

00589803 03

 Rpt : TIPMC11
 Date: 10/13/2015



NEW YORK CITY
 DEPT. OF EDUCATION

Page: 1

Work Order Task Written To

Facility : DSF	Unit : X	Op Sys : GEO-08
Division : ABLDG X101	Area : ISC1	Sys/Cls: X119
Equipment : ABLDG X101	Component:	
Work Item :	Eqt. List:	Ops Review Reqd: N
Equip. Tag:	Alt:	
UTC :	Tbl/Brkdwn: (Past 12 mo)	
Catalog ID:	Job Type : CO UCR: LB16	
Client/Act: ESCH8965	ERIC SCHAUER	
Location : X05 54700001 000001 2750 LAFAYETTE AV, BRONX, NY 10465		
Cost Centr: G839	Activity :	User Def:
Percentage: 100.000	Acct No. : GL	

Work Order Task Instructions

75/08X101/PERFORM PCM AIR TEST OF FAILED T-12 BALLAST/SMOKE ONLY
 LOC: CLASSROOM 107 ONE(1) EIGHT FT FIXTURE
 CUST PH# 718 823-9392

Completion Comments on Work Performed

Completion Comments Required : N

Comments:

Comments:

Comments:

Continued on Additional Sheets? : _____