

May 29, 2014

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
I.S. 151X
Cardno ATC Project: No. 42672.4872
Work Order No. 00538609 04**

Dear Mr. Orlan:

Cardno ATC was retained by NYC-DOE to perform a limited PCB wipe sampling inspection at X151 located at 250 East 156th Street, Bronx, NY 10451. The inspection was performed by Mr. Sydney Williams on May 28, 2014 and it was limited to wipe samples collection and analysis within Room #317 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 #317 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 #317	Floor-9x9 green VFT (x=11.0, y=11.0)	Gauze Pad w/ deionized water	0.03	<0.03
03	Room #317	Student's Desk Top (x=12.0, y=11.0)	Gauze Pad w/ hexane or reagent acetone	0.03	<0.03

CONCLUSIONS

Wipe samples obtained from desk and floor in Room #317 show PCB concentrations to be below 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

#40430

PCB WIPE SAMPLING COC

PROJECT INFORMATION

1. Client: NYC-DOE		2. Project Name: X 151	3a. ATC Project No.: 42672. 4872	4a. Project Manager: Dragos Balota
5. Date: 5/28/14		6. Building Name: X151	3b. Task No.: 0001	4b. Inspector: Sydney Williams
7. Location: Room # 317		8. Turnaround 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)
1		317	BLANK	—	Gauze Pad w/ Hexane		3.9	ND < 3.09
2		317	GRAY 9'x9" VINYL TILE FLOOR	X - 11'0" Y - 11'0"	GAUZE PAD WITH DECON WATER	100	0.03	ND < 0.03
3		317	STUDENTS DESK TOP	X - 12'0" Y - 11'0"	GAUZE PAD WITH HEXANE	100	0.03	ND < 0.03
				2142063				
				 C 3 9 5 9				

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal
i. Sydney Williams	5/28/14		Wai S. Cheung	5/28/14	1300	Field Walk In <input checked="" type="checkbox"/>
ii.						US Mail <input type="checkbox"/>
iii.						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

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

REPORT NO. 2142063
PROJECT NO. 40430

PROJECT: X151
 250 East 156th Street, Bronx, NY
 42672.4872

SAMPLED: 05/28/14
RECEIVED: 05/28/14
ANALYZED: 05/28/14
REPORTED: 05/28/14

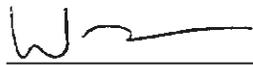
ANALYTICAL REPORT

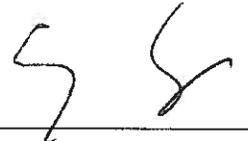
PCB WIPE
GC/ECD (EPA METHOD 8082A/3550C)

COMPOSITED SAMPLE ID: 1
MATRIX: SURFACE WIPE (Room 317)
SAMPLE LOCATION: BLANK

BATCH NO.: C3959-1

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. 2142063
PROJECT NO. 40430

PROJECT: X151
 250 East 156th Street, Bronx, NY
 42672.4872

SAMPLED: 05/28/14
RECEIVED: 05/28/14
ANALYZED: 05/28/14
REPORTED: 05/28/14

ANALYTICAL REPORT

PCB WIPE
 GC/ECD (EPA METHOD 8082A/3550C)

COMPOSITED SAMPLE ID: 2

BATCH NO.: C3959-2

MATRIX: SURFACE WIPE

SAMPLE LOCATION: Room 317, Gray 9x9 vinyl floor tile

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


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PROJECT: X151
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 42672.4872

SAMPLED: 05/28/14
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ANALYZED: 05/28/14
REPORTED: 05/28/14

ANALYTICAL REPORT

PCB WIPE
GC/ECD (EPA METHOD 8082A/3550C)

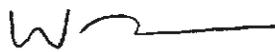
COMPOSITED SAMPLE ID: 3

BATCH NO.: C3959-3

MATRIX: SURFACE WIPE

SAMPLE LOCATION: Room 317, students desk top

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


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 CHEMIST


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APPENDIX C

LABOARTORY CERTIFICATIONS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 04, 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
88 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

Polychlorinated Biphenyls

- PCB-1016 EPA
- PCB-1221 EPA
- PCB-1230 EPA
- PCB-1242 EPA
- PCB-1246 EPA 8062A
- PCB-1254 EPA 8062A
- PCB-1260 EPA 8062A

Sample Preparation Methods

EPA 8060C



Serial No. 50689

Printed by the New York State Department of Health. Certificates are valid only if the address above is conspicuously posted, and are placed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 485-6570 to verify the laboratory's accreditation status.

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 : MDELMON2 DELMONICO
W/O Title : 75/07X151/ ABATE WIRES T-12 BALLAST
W/O Task Title: 75/07X151/ PERFORM PCB WIPE TEST SMO
Written To : I.S. 151 - BRONX

Completed By:

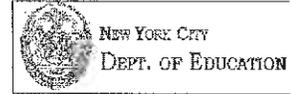


4872

Work Order Package

00538609 04

Rpt : TIPMC11
Date: 05/28/2014



Page: 1

Work Order Task Written To

Facility : DSF Unit : X Op Sys : GEO-07
Division : Area : ISC1 Sys/Cls: X151
Equipment : ABLDG X151 Component:
Work Item : Eqt. List: Ops Review Reqd: N
Equip. Tag: Alt:
UTC : Tbl/Brkdwn: (Past 12 mo)
Catalog ID: Job Type : ET UCR: LB14
Client/Act: JMAR7554 JOSEPH MARCELIN
Location : X02 44300190 000001 250 EAST 156 ST, BRONX, NY 10451
Cost Centr: G839 Activity : User Def:
Percentage: 100.000 Acct No. : GL

Work Order Task Instructions

PERFORM PCB WIPE TEST SMOKE
LOC: CLASSROOM 317. 1- 4FT FIXTURE SMOKE NO LEAKAGE.
Custodian LOUIS JACOBY 718-585-4593
.....
PCB WIPES BY ATC 5/28/14.

Completion Comments on Work Performed

Completion Comments Required : N

Comments:

Comments:

Comments:

Continued on Additional Sheets? : _____