

January 25, 2016

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

**Re: PCB Wipe Sampling Report  
P.S. 90X  
ATC Project: No. Z214AA-1263  
Work Order No. 00600964 04**

Dear Mr. Orlan:

ATC Group Services, LLC (ATC) was retained by NYC-DOE to perform a limited PCB wipe sampling inspection at X090 located at 1116 Sheridan Avenue, Bronx, NY 10456. The inspection was performed by Mr. Ricardo Vilchez on January 22, 2016 and it was limited to wipe samples collection and analysis within Room #464 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 (cm<sup>2</sup>) of PCBs. Examples of this in the classroom are the surfaces of floors, desks, and bookcases.

**PCB WIPE SAMPLES**

ATC collected a total of three (3) samples (two surface samples and one blank) within Room #464 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 cm<sup>2</sup> 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 <sup>2</sup> ) | Result (ug/cm <sup>2</sup> ) |
|----------------|-----------|--------------------------------------|--|---------------------------------------|------------------------------|
| 01             | Blank     | Blank                                | Gauze Pad w/ hexane or reagent acetone | 3                                     | <3                           |
| 02             | Room #464 | Wood conference table top (x=7, y=6) | Gauze Pad w/ hexane or reagent acetone | 0.03                                  | <0.03                        |
| 03             | Room #464 | Floor- 9x9 green VFT (x=4, y=3)      | Gauze Pad w/ deionized water           | 0.03                                  | <0.03                        |

**CONCLUSIONS**

Wipe samples obtained from table and floor within Room #464 show PCB concentrations to be below the detection limit.

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.

**ATC Group Services, LLC**



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**

44676

## PCB WIPE SAMPLING COC

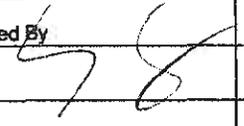
### PROJECT INFORMATION

|                                   |                   |  |   |  |
|-----------------------------------|-------------------|--|---|--|
| 1. Client:<br><br><b>NYC-DOE</b>  |                   | 2. Project Name:<br><b>X090</b>                                      | 3a. ATC Project No.:<br><del>42872</del> <b>ZZ14AA 1263</b> | 4a. Project Manager:<br><b>Dragos Balota</b>                 |
|                                   |                   | 2a. Project Address:<br><b>1176 SHERIDAN AVE<br/>BRONX, NY 10456</b> | 3b. Task No.:<br>0001                                       | 4b. Inspector:<br><b>Ricardo Vilchez</b>                     |
| 5. Date:<br><b>01-22-16</b>       | 6. Building Name: | 8. Turnaround Time:<br><b>RUSH (6 hours or less)</b>                 |   | 9. Comment s (Field)<br>Analyze all samples via 8082 Method. |
| 7. Location: Room #<br><b>464</b> |                   |  |   |  |

### WIPE SAMPLE LOCATION (PRINCIPAL'S ASSISTANT OFFICE)

| 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 <sup>2</sup> ) | 16. MDL (ug/cm <sup>2</sup> ) | 16A. RESULT (ug/cm <sup>2</sup> ) |
|---|----------------|--------------|----------------------------------|-----------------------------------|-------------------------|-------------------------------------|-------------------------------|-----------------------------------|
| 464-01  |                | 464          | BLANK                            | -                                 | Gauze Pad w/ Hexane     | -                                   | 3.00                          | < 3.00                            |
| 464-02  |                | 464          | TOP OF CONFERENCE WOOD TABLE.    | X → 7'<br>Y → 6'                  | GAUZE PAD W/HEXANE      | 100                                 | 0.03                          | < 0.03                            |
| 464-03  |                | 464          | 9" x 9", GREEN, VINYL FLOOR TILE | X → 4'<br>Y → 3'                  | GAUZE PAD W/DIION WATER | 100                                 | 0.03                          | < 0.03                            |
| <div style="font-size: 1.5em; font-weight: bold;">2160247</div>  <p style="font-size: 0.8em;">C 7 4 6 8</p> |                |              |                                  |                                   |                         |                                     |                               |                                   |

### CHAIN OF CUSTODY

| 17. Relinquished By       | 18. Date        | 19. Time     | 20. Received By  | 21. Date       | 22. Time     | 23. Method of Submittal                           |
|---------------------------|-----------------|--------------|--|----------------|--------------|---|
| I. <b>RICARDO VILCHEZ</b> | <b>01-22-16</b> | <b>18:25</b> |  | <b>1-22-16</b> | <b>18:25</b> | 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:<br>Please email results to <a href="mailto:dragos.balota@cardno.com">dragos.balota@cardno.com</a> |
| 24a. Analyzed By:       |          |          |   |
| 24b. Analyzed By:       |          |          |   |
| 24c. QC By:             |          |          |   |

**APPENDIX B**

**PCB ANALYTICAL RESULTS**

**Client:** Cardno-ATC  
104 E 25<sup>th</sup> St.  
New York, NY 10010

**Report No.:** 2160247  
**Project No.:** 44676

**Project:** Z214AA.1263  
1116 Sheridan Ave.  
Bronx, NY 10456

**Sampled:** 1/22/16  
**Received:** 1/22/16  
**Analyzed:** 1/22/16  
**Reported:** 1/25/16

**Analytical Report for  
Total PCBs by GC/ECD**  
EPA Method 3550C (prep) 8082A (analysis)

Composite Sample ID 464-01  
Matrix: Wipe  
Sample Location: BLANK

Lab Batch No. C7468-1

| 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        |

  
Li Tsang  
Chemist

  
Li Tsang  
Laboratory Director

The analytical results 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  
38 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-1010

EPA

PCB-1221

EPA

PCB-1232

EPA

PCB-1242

EPA

PCB-1248

EPA 8052A

PCB-1254

EPA 8052A

PCB-1260

EPA 8052A

Sample Preparation Methods

EPA 8210C

Serial No.: 50669

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on security paper. Certificate accreditation depends on successful ongoing participation in the Program. Organizations are urged to call (516) 415-5520 to verify the laboratory's accreditation status.

Page 1 of 1

**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 : 75/09X090/ INSPECT/REMOVE FAILED T-1  
 W/O Task Title: 75/09X090/PERFORM PCB WIPE TEST OF F  
 Written To : P.S. 90 - BRONX  
 Completed By:



1263

**Work Order Package**

00600964 04

Rpt : TIPMC11  
 Date: 01/22/2016



NEW YORK CITY  
 DEPT. OF EDUCATION

Page: 1

**Work Order Task Written To**

|  |                          |                     |
|--|--------------------------|---------------------|
| Facility : DSF   | Unit : X                 | Op Sys : GEO-09     |
| Division :   | Area : ISC1              | Sys/Cls: X090       |
| Equipment : ABLDG X090   | Component:               |                     |
| Work Item :  | Eqt. List:               | Ops Review Req'd: N |
| Equip. Tag:  | Alt:                     |                     |
| UTC :  | Tbl/Brkdwn: (Past 12 mo) |                     |
| Catalog ID:  | Job Type : CO UCR: LB16  |                     |
| Client/Act: KBUR5275   | KEVIN BURKE              |                     |
| Location : X02 45600100 000001 1116 SHERIDAN AV, BRONX, NY 10456 |                          |                     |
| Cost Centr: G839   | Activity :               | User Def:           |
| Percentage: 100.000  | Acct No. : GL            |                     |

**Work Order Task Instructions**

75/09X090/PERFORM PCB WIPE TEST OF FAILED T-12 BALLAST SMOKE, NO LEAK  
 LOCATION; ROOM# 464, 8FT FIXTURES REPLACED  
 Custodian EDUARDO MEJIA 718-992-2232

**Completion Comments on Work Performed**

Completion Comments Required : N

Comments:

Comments:

Comments:

Continued on Additional Sheets? : \_\_\_\_\_