

February 29, 2016

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. 219Q
ATC Project: No. Z214AA-1495
Work Order No. 00605086 04**

Dear Mr. Orlan:

ATC Group Services, LLC (ATC) was retained by NYC-DOE to perform a limited PCB wipe sampling inspection at Q219 located at 144-39 Gravett Road, Flushing, NY 11367. The inspection was performed by Mr. Mike Balota on February 27, 2016 and it was limited to wipe samples collection and analysis within Room #162 to determine if cleaning up PCB oil spill associated with unit ventilator was done effectively.

Triumvirate Environmental, a hazardous waste management contractor was retained by NYC-DOE to provide 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

ATC collected a total of three (3) samples (two surface samples and one blank) within Room #219B 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 Post Clean-up PCB Wipe Sample Results

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 #162- inside unit ventilator case	Floor- metal frame (x=13.6, y=28.0)	Gauze Pad w/ hexane or reagent acetone	0.03	<0.03
03	Room #162- inside unit ventilator case	Floor- 12x12 brown VFT (x=14.0, y=28.5)	Gauze Pad w/ deionized water	0.03	<0.03

CONCLUSIONS

Wipe samples obtained from inside unit ventilator case located in Room #162 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



PCB WIPE SAMPLING COC

PROJECT INFORMATION

1. Client: NYC-DOE	2. Project Name: Q219	3a. ATC Project No.: Z214AA. 1495	4a. Project Manager: Dragos Balota
5. Date: 2/27/16	6. Building Name: Q219	3b. Task No.: 0001	4b. Inspector: D. Balota
	7. Location: Room # 162	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)
01		# 162	Blank	→	Gauze Pad w/ Hexane	→	3 mg	< 3 mg
02		# 162	Inside left side of unit ventilator case (metal frame)	X=13.6 Y=28.0	↓	100	0.03	< 0.03
03		# 162	Inside left side of unit ventilator case (12X12 VFF)	X=14.0 Y=28.5	Gauze pad w/ deion water	100	0.03	< 0.03

CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By	21. Date	22. Time	23. Method of Submittal
I. <i>Dragos Balota</i>	2/27/16	10:30	<i>[Signature]</i>	2/27/16	10:30	Field
II.						Walk In
III.						US Mail
						Fed-Ex
						Other

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: ATC
 104 E 25th St.
 New York, NY 10010

Report No.: 2160616
Project No.: 44882

Project: Z214AA.1495
 Q219 - 144-39 Gravett Road
 Queens, NY

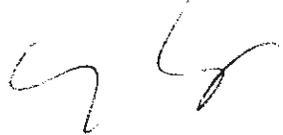
Sampled: 2/27/16
Received: 2/27/16
Analyzed: 2/27/16
Reported: 2/29/16

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

Composite Sample ID 01
 Matrix: Wipe
 Sample Location: BLANK

Lab Batch No. C7604-1

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, 2018
Issued April 01, 2015



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 8082A
PCB-1221 EPA 8082A
PCB-1232 EPA 8082A
PCB-1242 EPA 8082A
PCB-1249 EPA 8082A
PCB-1254 EPA 8082A
PCB-1260 EPA 8082A

Sample Preparation Methods

EPA 3550C

Serial No.: 52405

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 secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-6570 to verify the laboratory's accreditation status.



APPENDIX D

NYC DOE WORK ORDER REQUEST

Facility: DSF DIVISION OF SCHOOL FACILITIES
 Unit : Q Project :
 W/O Type: CO Priority: 04 W/O Dspln: H
 Planner : JSCALI SCALI
 W/O Title : 21/25Q219/UNIVENT
 W/O Task Title: 75/25Q219 PCB WIPE SAMPLING
 Written To : P.S. 219 - QUEENS
 Task Dspln : Completed By:



1495

Work Order Package

00605086 04

Rpt : TIPMC11
 Date: 02/26/2016



NEW YORK CITY
 DEPT. OF EDUCATION

Page: 1

Work Order Task Written To

Facility : DSF	Unit : Q	Op Sys : GEO-25
Division : ABLDG Q219	Area : ISC2	Sys/Cls: Q219
Equipment : ABLDG Q219	Component:	
Work Item :	Eqt. List:	Ops Review Req'd: N
Equip. Tag:	Alt:	
UTC :	Tbl/Brkdwn: (Past 12 mo)	
Catalog ID:	Job Type : EA UCR:GN16	
Client/Act: NKOD1204	NICOS KODJAPASHIS	
Location : Q06 50700001 000001 144 -39 GRAVETT RD, FLUSHING, NY 11367		
Cost Centr: G839	Activity :	User Def:
Percentage: 100.000	Acct No. : GL	

Work Order Task Instructions

Smell of leaking oil onto hot motor has cause for possible testing. Uninvent in classroom #162 has an odor. Test for possible PCB

Completion Comments on Work Performed

Completion Comments Required : N

Comments:

Comments:

Comments:

Continued on Additional Sheets? : _____