

PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT
PROPOSED EAST NEW YORK FAMILY ACADEMY (P.S. 819K) ADDITION
2057 LINDEN BOULEVARD, BROOKLYN, NY 11207
TAX BLOCK 4328, LOT 15

APPENDIX A
SITE INVESTIGATION PHOTOGRAPHS

PHASE II ENVIRONMENTAL SITE INVESTIGATION
EAST NEW YORK FAMILY ACADEMY ADDITION (K819)
2057 LINDEN BOULEVARD
BROOKLYN, NEW YORK 11207

PHOTOGRAPHS TAKEN MAY 4 & 7, 2016



Photograph 1: View of the geophysical survey in progress using ground penetrating radar.



Photograph 2: View of the construction of a soil vapor sampling point.

PHASE II ENVIRONMENTAL SITE INVESTIGATION
EAST NEW YORK FAMILY ACADEMY ADDITION (K819)
2057 LINDEN BOULEVARD
BROOKLYN, NEW YORK 11207

PHOTOGRAPHS TAKEN MAY 4 & 7, 2016



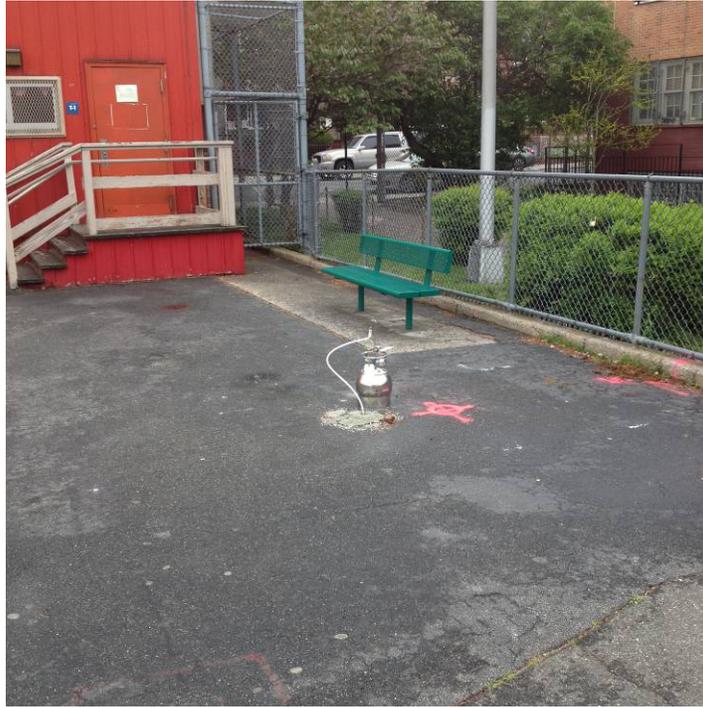
Photograph 3: View of soil vapor sample location SV-1.



Photograph 4: View of soil vapor sample location SV-2.

PHASE II ENVIRONMENTAL SITE INVESTIGATION
EAST NEW YORK FAMILY ACADEMY ADDITION (K819)
2057 LINDEN BOULEVARD
BROOKLYN, NEW YORK 11207

PHOTOGRAPHS TAKEN MAY 4 & 7, 2016



Photograph 5: View of soil vapor sampling location SV-4.



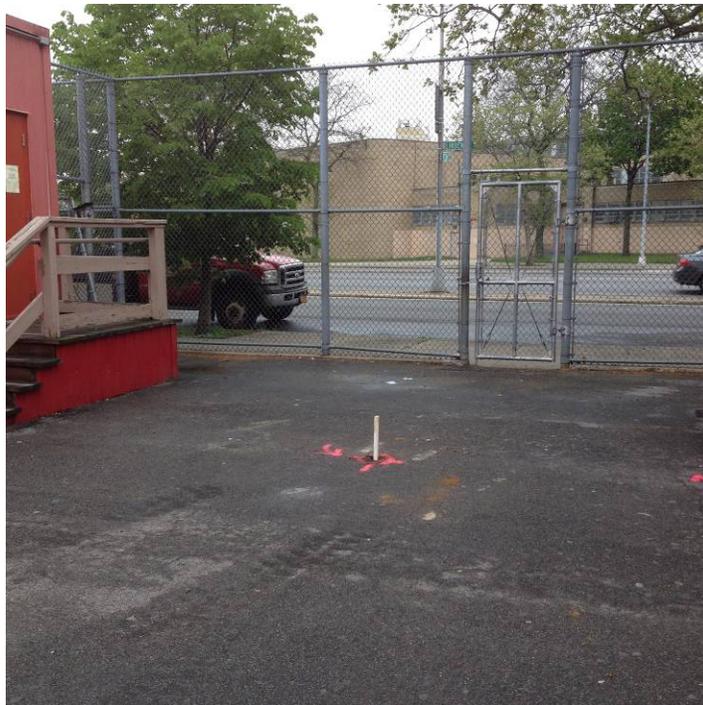
Photograph 6: View of soil vapor sampling location SV-5.

PHASE II ENVIRONMENTAL SITE INVESTIGATION
EAST NEW YORK FAMILY ACADEMY ADDITION (K819)
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BROOKLYN, NEW YORK 11207

PHOTOGRAPHS TAKEN MAY 4 & 7, 2016



Photograph 7: View of the ambient air sample location.



Photograph 8: View of temporary groundwater monitoring well SB-2(GW) installed at boring location SB-2.

PHASE II ENVIRONMENTAL SITE INVESTIGATION
EAST NEW YORK FAMILY ACADEMY ADDITION (K819)
2057 LINDEN BOULEVARD
BROOKLYN, NEW YORK 11207

PHOTOGRAPHS TAKEN MAY 4 & 7, 2016



Photograph 9: View of field parameters being collected from temporary groundwater monitoring well SB-3(GW) installed at boring location SB-3.



Photograph 10: View of surface repair at boring location SB-3.

APPENDIX B
GEOPHYSICAL SURVEY REPORT

01 June 2016

Mr. Doane E. Cafferty, LEED AP BD+C
Environmental Science Manager
STV Incorporated
25 Park Avenue South
New York, NY 10003

Re: **Site Geophysics –Public School 819**

Via Email

Dear Mr. Cafferty:

On Wednesday, May 4th, 2016 Aquifer Drilling & Testing, Inc. (ADT) performed a geophysical investigation on the property known as Public School 819K, located at 2057 Linden Boulevard, in Brooklyn, New York, NY 11207. Aquifer personnel met with you at the site, and followed your directives throughout the course of the investigation.

The area of investigation (AOI) included all exposed surfaces of the asphalt-paved schoolyard not covered by the temporary classroom units (TCU's).

The purpose of the investigation was to locate, trace, map and identify any subsurface utilities, obstructions or structures that may have impact upon the subsequent drilling operations. In addition, five (5) proposed boring locations were investigated and selected, based upon their proximity to a cited underground storage tank (UST) and associated plumbing located at the north end of the schoolyard, and the lack of utilities, structures or obstructions within a 100 square foot radius of the selected location.

The geophysical investigation was comprised of a series of Ground Penetrating Radar (GPR) traverses and a site-wide radio frequency (RF) scan. GPR scans collected anomaly data which was interpreted in real-time. The geometry of the anomalies located can assist in determining the type of subsurface object producing the anomaly. Linear anomalies can be interpreted to be buried utilities, conduits, trolley tracks, UST's etc., if the return data has the appropriate signature. RF scans are made by using instrumentation that has a transmitter and receiver. The transmitter can be used to send electromagnetic waves of known frequencies along buried metallic conduits housing utilities, or through the utilities themselves. The receiver is used to trace the signal (audibly and/or graphically) and locate the direction of travel, in some cases, the depth of the utility below the surface. Receivers can also be used in stand-alone mode to detect frequencies in the range of 60Hz, often emitted by active electrical services in the United States. In addition, some RF instruments can detect frequencies emitted by gas and water services. These utilities absorb and radiate VLF radio waves. Both technologies, GPR and RF complement one another to provide the most useful data set necessary for the locating, tracing and characterization of subsurface anomalies.

Ground Penetrating Radar data was collected with a Sensors and Software 250 MHz NogginPlus[®] unit (penetration depth set to ten (10) feet below grade). In addition, radio frequency instrumentation in the form of a Ridgid[®] SeekTech ST-33Q / SR-60 Pipe & Cable Locator, a Pipehorn[®] 800H Pipe and Cable Locator and a 3M[®] Dynatel 2250M-iD Cable/Pipe Locator were employed in an effort to locate utilities using RF and electromagnetic (EM) technology.

An initial site reconnoiter was made with the school facilities manager, and any current or recent information about the utility network and utilities entering or exiting from the school into the AOI was discussed.

During this investigation, single-line NogginPlus[®] GPR traverses were advanced in directions both parallel and perpendicular to the footprint of the proposed boring locations (north/south and east/west) using a two (2) foot spacing between traverses. GPR traverse lines were advanced with a four (4) to eight (8) foot spacing in all other areas of the AOI.

All subsurface utilities located and traced were photographed by the client after their surface expressions were painted upon the surface of the asphalt.

Results:

The initial scope of work (SOW) was to clear five (5) proposed boring locations in preparation for drilling, after clearing these discrete locations of utilities, structures or obstructions. This SOW was completed thoroughly prior to exiting the site.

Please contact me with any questions.

Respectfully yours,



Andrew D. Silver
General Manager / Engineering Geologist

APPENDIX C
ASBESTOS INSPECTION REPORT



GROUP SERVICES LLC

104 East 25th Street
New York, NY 10010
Telephone: 212-353-8280
Fax: 212-353-8306

May 3, 2016

Ms. Kristin Kordes

New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

**Re: Pre-Probe Asbestos Inspection for Proposed borings
EAST NY FAMILY ACADEMY (K819)
2057 Linden BLVD, Brooklyn, NY 11207
Work Authorization #: 792728
SCA Service ID/Service: 64522
LLW : 104773
ATC Project #: Z214NY0021**

Dear Ms. Kordes,

ATC Group Services LLC (ATC) performed an asbestos investigation of the suspect materials at the above referenced school associated with the proposed BORINGS. All suspect materials were investigated on May 3, 2016 by NYC Asbestos Investigator Roman Fishman for the locations as defined in the borings Location Plan provided to ATC by the New York City School Construction Authority (SCA). A total of three (3) asbestos bulk samples were collected from suspect ACM during this investigation.

The following table shows the inspection results:

Location	Material Description	No. of Samples	Results	Comments
Probe Location as per Google map				
School yard at TCU units location	Asphalt paving	3	Non-ACM	-
	Compacted soil below asphalt paving	0	Non-suspect ACM	
	Concrete pad at benches location along chain link fence	0	Non-suspect ACM	-
	Two storm drain inlet at middle of asphalt paved area	0	Non-suspect ACM	
	Storm drain underground pipes	0	Non-suspect ACM	Should be not disturbed during boring.

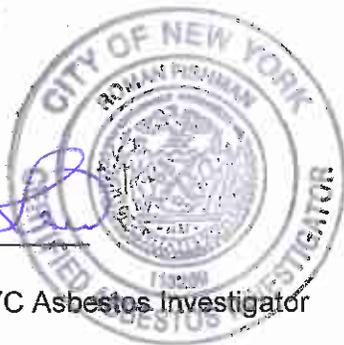
Any suspect materials not listed in the above table must be Assumed ACM.

If you have any questions regarding this inspection or require further information, please do not hesitate to contact me. I can be reached at (212) 353-8280, extension 532.

Sincerely,
ATC Group Services LLC



Roman Fishman
Project Manager / NYC Asbestos Investigator



APPENDIX A

Analytical Results, Chain-of-Custody Forms and Certificates of
Laboratory Analysis

ASBESTOS ANALYTICAL RESULTS IN TABULAR FORM
for

EAST NY FAMILY ACADEMY (K819)
2057 Linden BLVD, Brooklyn, NY 11207

HA No.	Sample No.	Floor	Location	Material	PLM Result	NOB-PLM Result	NOB-TEM Result
Inspection Date: May 3, 2016				Cardno ATC batch 16=1721			
1	1	Exterior	Court yard paved area at borings location	Asphalt pavement	NAD	NAD	NAD
1	2	Exterior	Court yard paved area at borings location	Asphalt pavement	NAD	NAD	NAD
1	3	Exterior	Court yard paved area at borings location	Asphalt pavement	NAD	NAD	NAD



ATC Group Services LLC

104 E. 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

Client: ATC - NEW YORK
104 EAST 25TH STREET
NEW YORK, NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280
Project: NYC SCA / EAST NY FAMILY ACADEMY

Sample Date: 5/3/2016
Date Received : 5/3/2016
Date Analyzed : 5/3/2016
ATC Batch # 16-1721

Methods: EPA 600/M4-82-020
ELAP 198.1, 198.6 and 198.4

Location: PUBLIC SCHOOL EXTER-PQVERM
Project # Z214NY0021

Bulk Asbestos Analysis Results

Sample #	Location	Type of Material	Method	<u>Non-Asbestos</u>		<u>NOB</u>	<u>Asbestos</u>
				% Fibrous	% Non-Fibrous	% Type	% Type
1	Ground court paved area	Asphalt pavement	NOB-TEM			11.2% Organic 53.2% Residue 35.6% Carbonate	NONE DETECTED
16-1721 -1					0.0% Vermiculite		
Analyzed By: Mei Wang		Color: Black Second Analyst: Roman Peysakhov	Comments: PLM inconclusive, NOB-PLM inconclusive				
2	Ground court paved area	Asphalt pavement	NOB-TEM			10.6% Organic 58.3% Residue 31.1% Carbonate	NONE DETECTED
16-1721 -2					0.0% Vermiculite		
Analyzed By: Mei Wang		Color: Black Second Analyst: Roman Peysakhov	Comments: PLM inconclusive, NOB-PLM inconclusive				
3	Ground court paved area	Asphalt pavement	NOB-TEM			10.9% Organic 56.9% Residue 32.2% Carbonate	NONE DETECTED
16-1721 -3					0.0% Vermiculite		
Analyzed By: Mei Wang		Color: Black Second Analyst: Roman Peysakhov	Comments: PLM inconclusive, NOB-PLM inconclusive				



ATC Group Services LLC

104 E. 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

Sample #	Location	Type of Material	Method	<u>Non-Asbestos</u>		<u>NOB</u>	<u>Asbestos</u>
				% Fibrous	% Non-Fibrous	% Type	% Type

NOTES:

- 1) The Limit of Detection is the same as the Reporting Limit for these results.
- 2) The Reporting Limit (RL) is the Limit of Quantitation. For point counts the limit of quantitation of 0.25%; based on one asbestos point counter over 400 non-empty points.
- 3) Asbestos Containing Material (ACM) Definition: > 1% asbestos by weight is considered an ACM
- 4) Disclaimer: The laboratory is not responsible for sample collection. Please refer to enclosed letter. This report may not be reproduced, except in full, without written approval by ATC Group Services. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above as described in the chain of custody. Quality control data is available upon request.
- 5) Accredited by NVLAP #101187-0 and by NY State ELAP #10879
- 6) Confidentiality Notice: The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.
- 7) Liability Notice: ATC Group Services and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples. This report relates only to samples submitted and anal
- 8) Asbestos results are reliable to 2 significant figures.
- 9) The condition of all samples was acceptable upon receipt.
- 10) The laboratory certifies that the test results meet all requirements of NELAC.
- 11) Supplement to test report batch # _____, Amendments: _____, Amendment Dates: _____, Amended by: _____
- 12) PLM Letter is attached on this report.
- 13) TRACE: The result is reported as Trace when No points are counted and asbestos is identified. For ELAP Trace is < 1%.
- 14) ATC Group Services certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis
- 15) The uncertainty for these test results is available upon request.
- 16) ELAP requires method ELAP 198.1 for the analysis of samples containing ≤ 10% vermiculite. For samples containing > 10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. "This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite."

Mei Wang

Analyst:

Mei Wang

Approved by
Quality Manager:

Michael Gittings

Analyst:

Roman Peysakhov

Analyst:



BULK ASBESTOS ANALYSIS RESULTS

PLM Analysis Methodology

The samples were analyzed by industry accepted methods in accordance with EPA and ELAP methods using Polarized Light Microscopy (PLM) with dispersion staining in conjunction with stereoscopy analysis. Point counts are performed on samples regulated by these agencies. The Environmental Laboratory Approval Program (ELAP) has determined that analysis of non-friable organically bound materials (i.e. floor tile, roofing, etc.) and ceiling tiles with cellulose is not reliable when performed by Polarized Light Microscopy (PLM) method. Therefore, if this analysis included that of non-friable materials or ceiling tiles with cellulose under PLM and the results were negative, ATC must add this disclaimer to maintain our ELAP accreditation:

"Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing".

Non-friable samples that contained Trace or No PLM detectable asbestos are classified as Inconclusive. Samples that are layered and analyzed by the gravimetric method as composites (NESHAP, AHERA) should be considered positive if results are between trace and 1%, unless every layer is analyzed separately.

ELAP requires method ELAP 198.1 for the analysis of samples containing $\leq 10\%$ vermiculite with the exception of sprayed-on fireproofing containing vermiculite (SOF-V). For samples containing $>10\%$ vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. This method has limitations for identification and quantification of vermiculite. "This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite."

ELAP requires method ELAP 198.8 for the analysis of sprayed-on fireproofing containing vermiculite (SOF-V). Sample results for SOF-V tested by other methods upon client requests are inconclusive.

EPA does not regulate mixed mineral assemblage like the anthophyllite-talc intergrowth that is found in paint and caulking unless these materials contain asbestos in an amount greater than 1%. Anthophyllite detected in paint and caulking samples might be a talc intergrowth.

ATC has the capability of performing TEM confirmation if so desired.

Bulk sample reports are checked and reviewed two times. Unused portions of samples are archived for two months unless client requests special handling. This report must not be used by the client to claim product endorsement by NIST or any agency of the U.S. government.

ATC is not responsible for sample collection and analytical procedures not performed by our laboratory. This report may not be reproduced in part without the laboratory permission.

ATC will not be liable for analytical results from samples that are not prepared according to the standard methods (EPA, ELAP, etc.) used by the laboratory (e.g. composite samples from different locations, samples with insufficient volumes, straight TEM samples without gravimetric procedures, dust samples, non-friable samples by PLM only).

Laboratory Equipment

Laboratory analysis was accomplished utilizing Olympus BH-2 Microscopes.

Quality Control

ATC is accredited by NVLAP (Lab Code 101187-0) and NY State DOH ELAP (Lab ID 10879) for bulk and air fiber analyses. ATC participates in the Bulk Asbestos Sample Quality Assurance Programs for NVLAP and ELAP and maintains an in-house QC/QA program for bulk samples whereby 10% of all submitted samples are reanalyzed and documented in a Quality Control Manual. ATC also participates in a quarterly round robin QC/QA program for bulk samples with several accredited laboratories throughout the United States. Current and past QC/QA program results are available in the laboratory for inspection.

Accuracy and Precision

The phase abundances provided by point count may be considered within the limits of variability inherent in the method employed. For point counts the detection limit of 0.25% is based on one asbestos point counted over 400 non-empty points. If no points are counted and asbestos is identified, the result will be reported as trace. For ELAP trace is $< 1\%$.

The analyses were supervised by Milena Bonezzi, Director of Laboratory Services, who has extensive experience in asbestos analysis by PLM and other methods. Please contact me regarding any questions relating to these materials at 212-353-8280 Ext. 247.

1. EPA Methods: 600/M4-82-020
2. ELAP Method: 4088 Items 198.1 and 198.4 and 198.6 and 198.8

Sincerely,

Milena Bonezzi
ATC Group Services LLC
Director of Laboratory Services



ATC - New York
 104 East 25th Street, 10th Floor, New York, NY 10010
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:
 NVLAP 101187-0
 ELAP: 10070

Microscopes:
 OLYMPUS BH-2T
 NIKON OPTIPHOT

BULK ASBESTOS ANALYSIS SHEET

Client / Project WCCSIA / E. NY F. Adams

Project Number 16-1721

Analysis Date 8/3/16

Analyst WMS

Batch Number 16-1721

TEMPERATURE °C 21

1 Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SOF-V Results	Gravimetric (NOB) Results
1	Color <u>BR</u> Texture <u>af</u> Homogeneity <u>X</u> Vermiculite <input type="checkbox"/> <input type="checkbox"/> # of Layers _____ Asbestos <input type="checkbox"/> <input type="checkbox"/> Color of Layer _____ Detected Yes No	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity	Chrysotile _____ Amosite _____ Other _____	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>60</u> Organic Binders <u>40</u> Vermiculite * <u>1</u> Other _____	<input type="checkbox"/> See SOF-V (ELAP 198.8) Analysis Sheet for Results	<input checked="" type="checkbox"/> See Gravimetric (NOB) Analysis Sheet for Results
Gravimetric Required <input type="checkbox"/> Recommended <input checked="" type="checkbox"/>		Comments: _____		Method: <input checked="" type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA		Q.C. <input type="checkbox"/>	
SOF-V Required <input type="checkbox"/>		POINT COUNT RESULTS ON THE BACK		See Note # 1 or Note # 2		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	

2 Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SOF-V Results	Gravimetric (NOB) Results
2	Color <u>BR</u> Texture <u>af</u> Homogeneity <u>X</u> Vermiculite <input type="checkbox"/> <input type="checkbox"/> # of Layers _____ Asbestos <input type="checkbox"/> <input type="checkbox"/> Color of Layer _____ Detected Yes No	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity	Chrysotile _____ Amosite _____ Other _____	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>65</u> Organic Binders <u>35</u> Vermiculite * <u>0</u> Other _____	<input type="checkbox"/> See SOF-V (ELAP 198.8) Analysis Sheet for Results	<input checked="" type="checkbox"/> See Gravimetric (NOB) Analysis Sheet for Results
Gravimetric Required <input checked="" type="checkbox"/> Recommended <input type="checkbox"/>		Comments: _____		Method: <input checked="" type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA		Q.C. <input type="checkbox"/>	
SOF-V Required <input type="checkbox"/>		POINT COUNT RESULTS ON THE BACK		See Note # 1 or Note # 2		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	

3 Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SOF-V Results	Gravimetric (NOB) Results
3	Color <u>BR</u> Texture <u>af</u> Homogeneity <u>X</u> Vermiculite <input type="checkbox"/> <input type="checkbox"/> # of Layers _____ Asbestos <input type="checkbox"/> <input type="checkbox"/> Color of Layer _____ Detected Yes No	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity	Chrysotile _____ Amosite _____ Other _____	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>65</u> Organic Binders <u>35</u> Vermiculite * <u>0</u> Other _____	<input type="checkbox"/> See SOF-V (ELAP 198.8) Analysis Sheet for Results	<input checked="" type="checkbox"/> See Gravimetric (NOB) Analysis Sheet for Results
Gravimetric Required <input checked="" type="checkbox"/> Recommended <input type="checkbox"/>		Comments: _____		Method: <input checked="" type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA		Q.C. <input type="checkbox"/>	
SOF-V Required <input type="checkbox"/>		POINT COUNT RESULTS ON THE BACK		See Note # 1 or Note # 2		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	

4 Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %	SOF-V Results	Gravimetric (NOB) Results
4	Color _____ Texture _____ Homogeneity _____ Vermiculite <input type="checkbox"/> <input type="checkbox"/> # of Layers _____ Asbestos <input type="checkbox"/> <input type="checkbox"/> Color of Layer _____ Detected Yes No	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity	Chrysotile _____ Amosite _____ Other _____	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler _____ Organic Binders _____ Vermiculite * _____ Other _____	<input type="checkbox"/> See SOF-V (ELAP 198.8) Analysis Sheet for Results	<input type="checkbox"/> See Gravimetric (NOB) Analysis Sheet for Results
Gravimetric Required <input type="checkbox"/> Recommended <input type="checkbox"/>		Comments: _____		Method: <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA		Q.C. <input type="checkbox"/>	
SOF-V Required <input type="checkbox"/>		POINT COUNT RESULTS ON THE BACK		See Note # 1 or Note # 2		* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #3.	



**ATC Group Services LLC
GRAVIMETRIC (NOB) ANALYSIS SHEET**

Client/Project: NYC SCA EAST NY FAMILY ACADEMY RUSH PLM Batch # 16-1721 TEM Batch # 85813 Start Date: 05/03/16
 NOB PLM PREP: MG NOB PLM Analyst: MJG NOB TEM PREP: MJG NOB TEM Analyst: RP Date Completed: 05/03/16

Field #	5	11	12	9	13	Notes	Methods		
	% Organic	Non Asb Residue %	% Carbonate	Asbestos Types or Vermiculite	% Total Asbestos or Vermiculite		NOB		
		NFr					PREP	PLM	TEM
1	11.2	53.2	35.6	ND			✓	✓	✓
2	10.6	58.3	31.1	ND			✓	✓	✓
3	10.9	56.9	32.2	ND			✓	✓	✓

Note 1: Methods: ELAP as per items 198.6 and 198.4.
 Note 2: Vermiculite not reported = not detected.
 Client Copy



Bulk
SAMPLES
LOCATION



PRESUMED
GROUNDWATER
FLOW DIRECTION



#2



LEGEND

 SOIL, GROUNDWATER AND VAPOR SAMPLE LOCATION

SOURCE: OASIS MAP

ATC ASSOCIATES

2057 LINDEN BOULEVARD BROOKLYN, NY 11207 BLOCK 4328, LOT 15	DATE: APRIL 2016
	SCALE: NTS
SCHOOL CONSTRUCTION AUTHORITY	SHEET NO: 1 OF 1

FIGURE 2
SITE PLAN WITH SAMPLE LOCATIONS

APPENDIX B

Work Authorization and Roof Cuts / Exterior Probes Request



**New York City
School Construction Authority
Industrial and Environmental Hygiene**

**CONSULTANT
WORK AUTHORIZATION**

WA #: 792728 Initial
Date Issued: 04/28/2016
Final WA: No

Initiation Date: 04/28/2016

ATC GROUP SERVICES, INC.
104 EAST 25th STREET
10th Floor
NEW YORK, NY, 10010
nancy.quigley@atcassociates.com

Total Amount: \$3,700.00
Contract Number: C000014029
Service ID/Service: 64522, ACM Services for IEH HMT
SCA Project ID: 104773 CAPACITY
SCA Project Description: FEASIBILITY STUDY
DOE Auth Const Amt: \$21,660,649.00

DOE Work Order No(s):
Comments :pre-probe survey for the borings,

This document shall serve as notice that ATC GROUP SERVICES, INC. is directed immediately to:

Building ID: K819 Building Name: EAST NY FAMILY ACADEMY - K
Address: 2057 LINDEN BLVD, Brooklyn NY 11207 Boro: Brooklyn Geo District: 19
Custodian: TOMAS RIVERA (718)-927-0012 CK819@schools.nyc.gov

and perform all necessary environmental-related work in accordance with SCA specifications, all applicable health and safety codes, and as directed by the Industrial and Environmental Hygiene Division. See the attachment to this document for detailed instructions.

Payment requests for work performed shall be prepared and submitted in accordance with the requirements specified within contract documents for contract C000014029 by and between New York City School Construction Authority and ATC GROUP SERVICES, INC.. Payments will be approved only after receipt of a completed Request for Payment form and all appropriate documentation.

NOTE: NO WORK SHALL BE PERFORMED WHILE SCHOOL IS OCCUPIED, UNLESS OTHERWISE AUTHORIZED.
No work shall commence without prior notification to the SCA representative and the school custodian.

Additional Instructions: 4/28/16- Drawings will be e-mailed shortly.

Submitted by: Kristin, Kordes
Telephone: (718) 472-8513

Approved by: Fosu, Kwame
(718) 472-8512



**New York City
School Construction Authority
Industrial and Environmental Hygiene**

**CONSULTANT
WORK AUTHORIZATION SCOPE**

WA #: 792728 Initial
Date Issued: 04/28/2016
Final WA: No

Initiation Date: 04/28/2016

Contract Number: C000014029 Contractor: ATC GROUP SERVICES, INC.

Consultant shall furnish the services described in the areas identified below in accordance with the items of the contract, and will follow all legal requirements.

SCA Project ID: 104773 CAPACITY FEASIBILITY STUDY
Expedited: No Sampling Required: No
Project Level:

Work Type	Description	Amount
LAMP01	ACM Probe Survey*	\$1,200.00
Project-Level Total:		\$1,200.00
Grand Total:		\$3,700.00

Building ID: K819 Building Name: EAST NY FAMILY ACADEMY - K
Address: 2057 LINDEN BLVD, Brooklyn NY 11207 Boro: Brooklyn Geo District: 19

Building Level:

Work Type	Description	MOC	Location	Amount
LAMP31	ACM Field Labor - Bulk Sample Collection	NTE	*	\$1,000.00
LAMP30	ACM Lab Reimbursables	NTE	*	\$1,500.00
LAMP01	ACM Probe Survey*	FS		\$0.00
Deliverable: Pre-Probe Sampling Survey and Clearance Report				
Deliverable: Post-Probe Sampling Survey and Clearance Report				
Building-Level Total:				\$2,500.00

APPENDIX C

Personnel Certificates

New York State – Department of Labor

Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

ATC Group Services, Inc.
10th Floor
104 East 25th Street
New York, NY 10010

FILE NUMBER: 99-0121
LICENSE NUMBER: 29902
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 03/03/2016
EXPIRATION DATE: 03/31/2017

Duly Authorized Representative – Mark Terjesen:

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.



Eileen M. Franko, Director
For the Commissioner of Labor

ROMAN FISHMAN

STATE OF NEW YORK DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



ROMAN FISHMAN
CLASS (EXPIRES)
C ATEC (03/17) D INSP (03/17)
H PM (03/17) I PD (03/17)

113269

MUST BE CARRIED ON ASBESTOS PROJECTS

NYC DEP ASBESTOS CONTROL PROGRAM
ASBESTOS CERTIFICATE



**FISHMAN,
ROMAN**
INVESTIGATOR
113269
EXPIRES: 3/21/2017

MUST BE CARRIED ON ALL ASBESTOS PROJECTS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MS. MILENA BONEZZI
ATC GROUP SERVICES LLC
104 EAST 25TH STREET 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 10879

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Metals I

Lead, Total EPA 7000B

Miscellaneous

Asbestos in Friable Material Item 198.1 of Manual

Asbestos in Non-Friable Material-PLM Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material-TEM Item 198.4 of Manual

Asbestos-Vermiculite-Containing Material Item 198.8 of Manual

Lead in Dust Wipes EPA 7000B

Lead in Paint EPA 7000B

Sample Preparation Methods

EPA 3050B

Serial No.: 54063

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) 485-5570 to verify the laboratory's accreditation status.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ATC Group Services LLC
104 E. 25th Street 10th Floor
New York, NY 10010
Ms. Milena Bonezzi
Phone: 212-353-8280 x247 Fax: 212-353-8306
Email: milena.bonezzi@cardno.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101187-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

David F. Alderman

For the National Voluntary Laboratory Accreditation Program