Lycee Francais de New York

NEW YORK, NEW YORK

Periodic Review Report

NYSDEC VCA Index Number D2-0001-01-05
VCP Site ID Number: V00425

Prepared for:
Lycee Francais de New York
505 East 75th Street
New York, New York 10021

Prepared by:
HDR
Henningson, Durham, & Richardson Architecture and Engineering
in association with HDR Engineering, Inc.

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MARCH 2018

Periodic Review Report

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1.0 INTRODUCTION

The Denihan Company entered into a Voluntary Cleanup Agreement (VCA) (Index# D2-0001-01-05, Site ID number V00425) with the NYSDEC to develop a 0.64 acre property located in New York City, New York. This VCA required The Denihan Company to investigate and remediate contaminated media at the Site. Remedial Action work on the Site began in January 2001 and was completed in August 2002. After completion of the remedial work, some contamination was left in the subsurface at this Site. A Site Management Plan (SMP, dated March 2008) was prepared to manage residual contamination at the Site in accordance with 6 NYCRR Part 375.

As required by the approved SMP, an annual inspection has been conducted and this Periodic Review Report (PRR) has been prepared in accordance with NYSDEC Draft DER-10 *Technical Guidance for Site Investigation and Remediation* requirements. This is the sixth PRR prepared for the Site. The reporting period includes February 1, 2015 through February 1, 2018, in accordance with the DEC December 19, 2017 Reminder Notice. The report includes the following elements, as described in the March 2008 SMP.

- Identification of all required Engineering Controls (ECs) and pending Institutional Controls (ICs);
- An evaluation of the Engineering and Institutional Control Plan and the Monitoring Plan for adequacy in meeting remedial goals;
- Assessment of the continued effectiveness of all Institutional and Engineering Controls for the Site;
- Certification of the EC/ICs;
- Results of the required periodic Site Inspections; and
- All deliverables generated during the reporting period, as specified in *Section 2 - EC/IC Plan, Section 3 - Monitoring Plan* and *Section 4 - Operation and Maintenance Plan* of the approved SMP.

2.0 SITE OVERVIEW

Since residual on-site contamination may still be present at this Site, Engineering Controls and Institutional Controls have been and will continue to be implemented to protect public health and the environment. The Controlled Property has two primary Engineering Controls. These are a groundwater treatment system and an engineered vapor barrier system. The ICs will require notification of NYSDEC prior to any planned disturbance of the vapor barrier system.

As background it should be noted that as part of the indoor air quality program at Lycee Francais de New York (LFNY, the School), operation procedures for the building's air handling system are in place, implemented, reviewed, and maintained by the School maintenance staff and outside mechanical contractors. In addition, indoor air testing has been conducted and reported to NYSDEC / NYSDOH. No further indoor air testing is required at the property.

The deed restriction which formally documents IC/ECs at the School was filed in March 2010 (see Appendix A). The property remains in compliance with the requirements of the ICs:

- All Engineering Controls are being operated and maintained as specified in the SMP;
- All Engineering Controls are inspected and certified at a frequency and in a manner defined in the SMP;
- Groundwater and other environmental or public health monitoring is being performed as defined in the SMP; and
- Data and information pertinent to Site Management is reported at the frequency and in a manner defined in the SMP.

The remediation includes Institutional Controls in the form of Site restrictions. Adherence to these Institutional Controls are required under the Deed Restriction. Site restrictions include:

- *Use of groundwater underlying the Site is prohibited without treatment rendering it safe for the intended use;*
- *All future activities on the Site that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil/materials management provisions in the SMP; and*

- *The owner of the property shall prohibit the Site from ever being used for purposes other than residential, commercial (profit and not-for-profit) or industrial use provided the long term Engineering and Institutional Controls remain in full force and effect as set forth in the Site Management Plan without express written waiver of such prohibition by the Department, or the Relevant Agency.*

The Site has consistently been operated in conformance with these restrictions over each of the PRR reporting periods since 2008.

The EC/ICs should:

- Prevent ingestion of groundwater with contamination levels that exceed drinking water standards;
- Prevent contact with or inhalation of volatiles from contaminated groundwater;
- Pre-treat groundwater in accordance with New York City Department of Environmental Protection (NYCDEP) discharge limits;
- Restore groundwater to pre-disposal/pre-release conditions, to the extent practicable; and
- Prevent ingestion/direct contact with contaminated soil, fill material, or weathered bedrock.

As noted below and documented in this PRR, the ECs and ICs have remained in place and have functioned appropriately over this reporting period.

During 2015 and 2016, LFNY completed a major renovation of 1416 York Avenue, a lot adjacent to the Site, for purposes of enlarging existing classroom and administration space at the school. Two floors were added to the existing 1416 York Avenue building, and the front and rear facades were changed to match the design of the existing school building. It was confirmed via site observations and discussions with (and documentation from) the renovation contractor that the renovated space does not need active or passive dewatering, sumps, or other potential conduits to the subsurface.

Deep excavation was not necessary as part of the renovation work. Excavation for foundation work reached approximately 9 feet below the sidewalk grade in certain areas of the neighboring property, with a maximum excavation depth of about 14 feet below surface grade for a new elevator shaft. The existing 505 East 75th Street footprint (the Site) was not adversely affected by the renovation work, and existing ECs (i.e., the vapor barrier system around the Site's subsurface foundation and sidewalls) was not disturbed. There was a minor repair required for two small areas where part of the vapor barrier was temporarily exposed. It was documented that the membrane and hydroduct protection was folded back up and appropriately fastened to the foundation wall before the

renovation work was completed. Preprufe tape was used to secure the hydroduct. See Appendix H for vapor barrier repair documentation. The SMP continues to address residual contamination only at 505 East 75th Street (the Site), and ICs / ECs will remain in place for that property.

3.0 IC/EC COMPLIANCE REPORT

Based on the annual site inspection of February 13, 2018 and site information reviewed during the reporting period, the engineering controls described in the SMP appear to be in place and functional.

3.1 Vapor Barrier System

Direct contact exposure to residual subsurface contamination (i.e., on-site soil/fill/bedrock) is prevented by the School building, concrete driveway, and surrounding concrete sidewalks. Exposure to vapors is prevented by an engineered vapor barrier system built on-Site. The vapor barrier system is a "positive-side" application, i.e., the barrier products were installed on the exteriors of the building foundation slab and all subsurface walls. The membrane was installed to provide a continuous system with no gaps or penetrations. No current direct contact exposure pathways to possible residual subsurface contamination have been identified for School occupants. No maintenance of the vapor barrier system is required under normal conditions; however, procedures for repairing the vapor barrier in the unlikely event that it is disturbed in the future are noted in the SMP.

The performance of the vapor barrier system was further evaluated by conducting periodic air sampling at the Site in 2008 and 2009. A description of the air sampling results was provided in the 2009 PRR.

3.2 Groundwater Treatment System

The groundwater treatment system is comprised of two liquid phase granular activated carbon (GAC) vessels, bag filters, piping, pump, meters, and pressure gauges. The system equipment and operations is maintained under a NYCDEP discharge permit. Direct contact exposure to contaminated groundwater (i.e., residual contamination originating at the Site or from up-gradient locations) is prevented by the School's foundation underdrain system which drains to sump pits located in the LL2 mechanical rooms. Foundation water is pumped mechanically to the City sewer system and is first treated by the groundwater treatment system contained in the southwest mechanical room. The room also contains the School's sanitary sewer pumps and storm water ejector pumps.

Access to the mechanical room is restricted to the School's maintenance staff and contractors, and the room is equipped with a dedicated ventilation system that insures a net negative pressure as compared with the common hallway from where the room is accessed. The mechanical room is typically accessed during off-hours (e.g., before or after normal School hours or on weekends). The foundation sump remains covered except for periodic maintenance of the pumps associated with the groundwater treatment system.

The performance of the groundwater treatment system is evaluated periodically by LFNY, ILG Mechanical Services, and HDR staff via monitoring sediment build-up in bag filters, system flows, and pressure readings, and by conducting annual groundwater sampling at the Site. A description of the 2015, 2016 and 2017 groundwater sampling results is provided in Section 4.0 of the PRR.

3.3 IC/EC Certification

The annual Site inspection, Site monitoring data, and Site operations and maintenance records have been evaluated as part of the EC/IC certification and have confirmed that the Site remedies continue to be protective of public health and the environment and are performing as designed. A signed IC/EC Certification is provided as Appendix B.

4.0 MONITORING PLAN COMPLIANCE REPORT

4.1 Components of the Monitoring Plan

Components of the Monitoring Plan are outlined below.

1. Indoor air monitoring (Air) - conduct air sampling in 2008 / 2009 (3 events) **COMPLETED**
2. Groundwater discharge monitoring (Groundwater) - conduct water sampling, treatment system O&M
3. Assess underdrain system (Groundwater) - LL2 cleanout inspection, observe sump flows

4.2 Summary of Monitoring Completed

The following table outlines monitoring tasks completed and documented during the reporting period (February 1, 2015 through February 1, 2018). Table 1 was developed based on the following: review of groundwater treatment system operations, maintenance, and monitoring (OM&M) and discharge permit renewal activities; review of correspondences received from the School maintenance staff over the PRR reporting period; and an on-site records review conducted during the site inspection.

Table 1

Monitoring Tasks

Monitoring Task	Required Frequency	Date Completed	Comments
Groundwater Sampling	Annually (prior to NYCDEP discharge permit expiration). NOTE: carbon usage is evaluated by HDR based on flow of foundation water through the system and influent VOC concentrations.	07/28/2015 07/11/2016 07/12/2017	All analytes below the respective NYCDEP Limitations for Effluent to Sanitary or Combined Sewers.
Inspect Groundwater Treatment System (Form G, part 1)	Monthly	**Written documentation available for:** Feb-July 2015 Sept-Dec 2015 Feb-Dec 2016 Jan-Oct 2017	Inspection documentation was available on an approximate monthly basis. No issues were noted during the system inspections or OM&M activities, or during telephone / email correspondences with School staff.
Inspect Underdrain System (Form G, part 2)	Monthly	Feb-July 2015 Sept-Dec 2015 Jan-Apr 2016 Jun-Oct 2016 12/03/16 Feb-Dec 2017 Jan 2018	Inspection documentation was available on an approximate monthly basis. No issues have been noted over the reporting period.

4.3 Comparison with Remedial Objective

Effluent from the groundwater treatment system, which discharges to the combined sewer located below 75th Street (between York Avenue and the FDR Drive) was sampled on July 28, 2015, July 11, 2016, and July 12, 2017. All analytical results were non-detect and/or within the NYCDEP effluent limitations for discharges to Sanitary or Combined Sewers. Copies of the 2015, 2016 and 2017 Wastewater Quality Control application, sample data, and NYCDEP approval are provided in Appendix C. The discharge permit for the groundwater treatment system is currently renewed on an annual basis.

Inspections of the groundwater treatment system and underdrain system have been performed on a routine basis. No issues were noted during the inspections. Copies of completed inspection checklist (Form G) are provided in Appendix D.

4.4 Monitoring Deficiencies

During the 2018 PRR site inspection, no significant monitoring deficiencies were noted:

- Although written documentation was not always kept at the frequencies noted in the SMP, the School maintenance staff has remained diligent on the inspections of SMP components and has remained in contact with HDR with regard to site conditions. **No issues with the groundwater treatment system or underdrain system have been identified during the reporting period**.

- Inspections of the groundwater treatment system, the southwest foundation pit, the northeast foundation pit and flow meter readings were documented on an approximate monthly basis (Form G). A total of 31 written inspection reports were available on file at the School covering the reporting period. It should be noted that carbon change-out activities are performed typically on an annual basis, and School staff access the mechanical room that houses the groundwater treatment system approximately once per day.

- Inspections of the underdrain cleanouts was documented on an approximate monthly basis. A total of 31 inspection reports were available in the School files.

4.5 Monitoring Plan - Conclusions / Recommendations

All groundwater sampling was conducted as required during the reporting period. The sampling results demonstrate that the engineering controls are performing properly and continue to be effective.

5.0 OPERATIONS & MAINTENANCE PLAN COMPLIANCE REPORT

The results of the annual site inspection and the Site monitoring data were evaluated to confirm that the operation and maintenance (O&M) activities are being conducted properly. A summary of HDR's findings is provided herein.

5.1 O&M Plan Requirements

The following provides an outline of the approved O&M Plan components.

1.	Change-out of bag filters	annually (minimum)
2.	Replacement of granular activated carbon	annually
3.	Backwash of the two carbon vessels	two times per year
4.	Replacement/ reconditioning of the submersible pump	once every two years
5.	Other components (e.g., valves, piping, meters)	as needed
6.	Routine maintenance form (form L)	as needed
7.	Non-routine maintenance form (form M)	as needed

5.2 Summary of O&M Completed

The following table outlines all of the O&M tasks completed during the reporting period (February 1, 2015 – February 1, 2018). Table 2 was developed based on the following: review of correspondences received from the School maintenance staff and ILG Mechanical Services (plumbing contractor) over the PRR reporting period; review of carbon changeout information and waste disposal documentation as received from Brookside Environmental (carbon changeout contractor); and an on-site records review conducted during the site inspection.

Table 2

Operations & Maintenance Tasks

O&M Task	Required Frequency	Date Completed	Comments
Change-out of bag filters (Form L)	Annually, or more frequent as needed	Feb-July 2015 Sept-Nov 2015 7/11/2016	
Replacement of granular activated carbon	Annually	07/28/2015 07/28/2015 07/28/2015 07/11/2016 7/12/2017	Form L (Brookside) Form M (ILG) Form L (HDR, ILG, Brookside) Form L (HDR, ILG, Brookside) Form L (ILG, Brookside)
Backwash of the two carbon vessels	Two times per year (or as needed)	April 2017	Form L (ILG)
Replacement/ reconditioning of the submersible pump	Once every two years	4/6/15 4/5/17	Form M Form M
Other components (e.g., valves, piping, meters)	As needed	04/13&14/2015	Form M
Routine maintenance form (L)	As needed	See above	
Non-routine maintenance form (M)	As needed	8/26/2015 12/7/2015	Form M Form M

Documentation of completed O&M and site inspection tasks is provided in Appendix E. Copies of completed routine maintenance forms (Form L) are provided in Appendix F and copies of Non-routine maintenance forms (Form M) are provided in Appendix G.

5.3 Evaluation of Remedial System

All groundwater treatment system maintenance was performed as required. No downtime associated with the groundwater treatment system was reported during the reporting period. The treatment system continues to perform as designed and permitted.

5.4 O&M Deficiencies

During the 2018 PRR site inspection, no O&M deficiencies were noted.

- Form L was completed for bag filter change-outs and routine maintenance performed by outside contractors.

- Form L was completed for the 2015, 2016 and 2017 disconnect/re-connect of the groundwater treatment system for purposes of activated carbon replacement and replacement of activated carbon.

- Form M was completed for the following:

    - ejector pump replacement in 2015

    - defective valve replacement in 2015

    - 07/28/2015 disconnect/reconnect of the groundwater treatment system.

    - Conduit pipe installed and sealed (2015)

    - replaced broken connection at filter tower #2 (2015)

    - replaced defective pump float (2017)

Based on flow, pressure readings, and carbon replacement, carbon backwashing (separate from GAC replacement events) was conducted once during the reporting period.

5.5 O&M Plan - Conclusions / Recommendations

The groundwater treatment system was continuously operational during the reporting period as reported by the School maintenance staff; no downtime / significant downtime was reported other than for carbon backwashing and replacement. All operations and maintenance work required to allow for proper functioning of the groundwater treatment system was performed as required. No problems or issues in engineering controls were identified during the reporting period. It was noted that a back-up pump is maintained on site in the event of pump failure. Recordkeeping associated with O&M tasks is satisfactory.

6.0 CONCLUSIONS / RECOMMENDATIONS

The deed restriction, which formally documents IC/ECs at the School, was filed in March 2010.

The requirements of the IC/EC component of the SMP have been met during the reporting period. There was no downtime associated with the groundwater treatment system, and sampling data indicate no impact to human health or the environment. The requirements of the Monitoring Plan component of the SMP have been met. Site maintenance staff who are responsible for conducting inspections were reminded of SMP monitoring requirements after completion of the annual site inspection (and also during an HDR on-site training session held on April 2, 2014).

System monitoring (i.e., groundwater sampling) has demonstrated no impact to human health or the environment, and all ECs appear to be functioning properly. As outlined in the SMP, it is understood that no additional air sampling is required under the SMP program. Groundwater treatment and effluent sampling will continue to be conducted as required by the NYCDEP. Overall, the 2018 site inspection and review of pertinent site information from the past years has documented compliance with the approved SMP.

Appendix A

Deed Restriction

Revised

New York City Department of Finance • Division of Land Records • Tax Map Office

APPLICATION FOR MERGERS OR APPORTIONMENTS

SECTION A: PROPERTY INFORMATION

Borough: Manhattan Block: 1487 Present Lot(s): 5, 8 and 43

DO NOT WRITE IN THIS SPACE - FOR OFFICE USE ONLY

New Lot Number: 5

☒ Merger ☐ Apportionment Number of Lots Requested 1

New Lot(s) Usage (check one):
☐ *Residential* Building Gross Sq/Ft:
☒ *Commercial* Building Gross Sq/Ft: 148,565 SF.
☐ *Mix* (Residential & Commercial) Building Gross Sq/Ft:

1. Property Owner's Name: Lycee Francais De New York (LAST NAME / FIRST NAME)
2. Property Address: 506 East 76th Street (NUMBER AND STREET) New York (CITY) NY (STATE) 10021 (ZIP CODE)

SECTION B: APPLICANT INFORMATION

1. Architect/Engineer/Applicant's Name: Rodriguez (LAST NAME) Susan (FIRST NAME)
2. Address: 320 West 13th Street (NUMBER AND STREET) New York (CITY) NY (STATE) 10014 (ZIP CODE)
3. Telephone Number: 212.807.7171 4. Email Address: SRODRIGUEZ@ENNEAD.COM

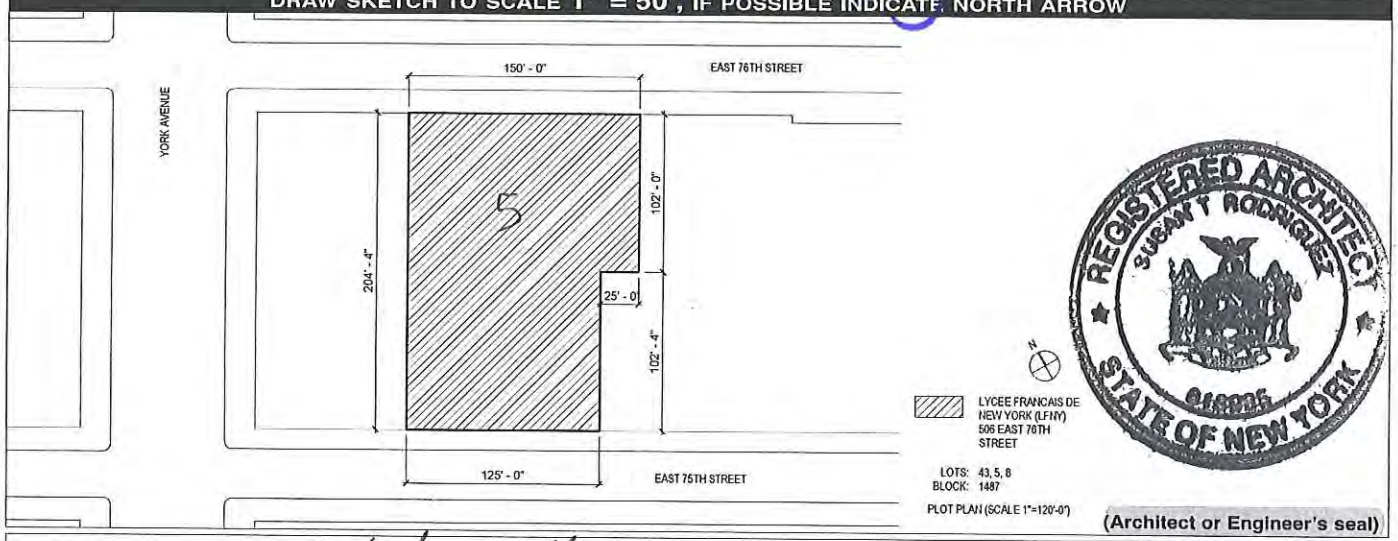
SECTION C: CERTIFICATION

The applicant hereby certifies that, in making this application for merger/apportionment, s/he is the owner, or acting under the direction of the owner.

Signature of Architect/ Engineer/Applicant: Susan T. Rodriguez **Date:** 9 / 6 / 2013

TAX MAP CHANGE WILL NOT BE MADE UNTIL PRESENTATION OF REQUIRED DOCUMENTS (see reverse for the required documents)

DRAW SKETCH TO SCALE 1" = 50', IF POSSIBLE INDICATE NORTH ARROW



(Architect or Engineer's seal)

Tax Map Office Staff: Outcalt callaps Date: 9.23.13

Lot(s) Dropped: 8, 43 Lot(s) Affected: 5, 8, 43 New Lot(s): 5

RP-602 Rev. 10.06.11

NYC DEPARTMENT OF FINANCE
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RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 9**

Document ID: 2010031701069001 Document Date: 03-02-2010 Preparation Date: 03-17-2010
Document Type: SUNDRY AGREEMENT
Document Page Count: 7

PRESENTER:
FIDELITY NATIONAL TITLE INS. COMPANY
PICK UP SOPHIA
ONE PARK AVENUE, SUITE 1402
NEW YORK, NY 10016
212-471-3764
william.mcnair@fnf.com/title no. 10-22304-AC-NYM

RETURN TO:
RICHARD DENNETT, ESQ.
DENNETT LAW OFFICES, P.C.
505 NORTHERN BOULEVARD
GREAT NECK, NY 11021

PROPERTY DATA

Borough	Block	Lot		Unit	Address
MANHATTAN	1487	5	Entire Lot		503 EAST 75TH STREET
Property Type: OTHER					
Borough	**Block**	**Lot**		**Unit**	**Address**
MANHATTAN	1487	8	Entire Lot		507 EAST 75TH STREET
Property Type: OTHER					

x Additional Properties on Continuation Page

CROSS REFERENCE DATA
CRFN_____ *or* Document ID_____ *or* _____ Year____ Reel ___ Page ____ *or* File Number_____

PARTIES

PARTY 1:
LYCEE FRANCAIS DE NEW YORK
505 EAST 75TH STREET
NEW YORK, NY 10021

FEES AND TAXES

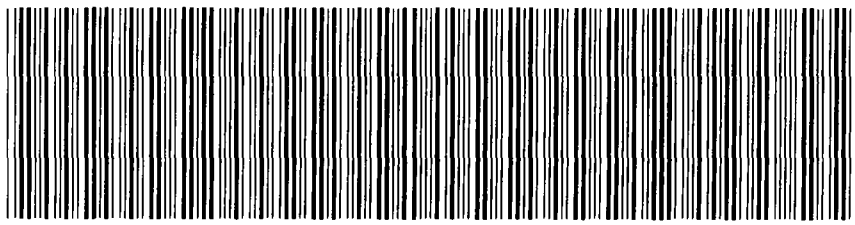
Mortgage		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	78.00
Affidavit Fee:	$	0.00

Filing Fee:		
	$	0.00
NYC Real Property Transfer Tax:		
	$	0.00
NYS Real Estate Transfer Tax:		
	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 03-23-2010 10:19
City Register File No.(CRFN):
2010000097180

City Register Official Signature

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER



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RECORDING AND ENDORSEMENT COVER PAGE (CONTINUATION) **PAGE 2 OF 9**

Document ID: 2010031701069001 Document Date: 03-02-2010 Preparation Date: 03-17-2010
Document Type: SUNDRY AGREEMENT

PROPERTY DATA

Borough	Block	Lot		Unit	Address
MANHATTAN	1487	43	Entire Lot		506 EAST 76TH STREET

Property Type: OTHER

DECLARATION of COVENANTS and RESTRICTIONS

THIS DECLARATION of Covenants and Restrictions is made as of the 2nd day of March, 2010, by Lycée Français de New York, a not-for-profit corporation organized and existing under the laws of the State of New York and located at 505 East 75th Street, New York, New York 10021.

WHEREAS, Lycée Français de New York is the owner of a parcel of property located at 503-509 East 75th Street and 502-512 East 76th Street (Block 1487, Lots 5 and 8 and Block 1487, Lot 43) in the City, County and State of New York, more particularly described in Exhibit "A" attached hereto and made part hereof (hereinafter referred to as the "Controlled Property"), which was conveyed by Albanese Partners, LLC to the Lycée Français de New York by deed dated January 4th, 2001 and recorded in the New York County Clerk's Office on February 8, 2001 in Reel 3235, pages 1681 and 1682; and

WHEREAS, the Controlled Property is the subject of a Voluntary Cleanup Agreement, dated May 10, 2001 as Site # V00425: Index # P2-0001-01-05 executed by The Denihan Company as part of the New York State Department of Environmental Conservation's (the "Department") Voluntary Cleanup Program; and

WHEREAS, subject to and in accordance with the Voluntary Cleanup Agreement, the Department approved the Work Plan, dated February, 2001, prepared by A.K.R.F., Inc.; and

WHEREAS, the Work Plan requires a site management plan for the Controlled Property, sets forth the selected remedy for the Controlled Property and requires that the Controlled Property be subject to restrictive covenants so that the selected remedy be protective of human health and the environment; and

WHEREAS, this Declaration of Covenants and Restrictions sets forth those required restrictive covenants and is made pursuant to Paragraph X of the Voluntary Cleanup Agreement.

NOW, THEREFORE, Lycée Français de New York, for itself and its successors and assigns, covenants and agrees as follows:

1. The Controlled Property is hereby made subject to this Declaration of Covenants and Restrictions.

2. Unless the prior written approval of the Department is first obtained or, if the Department shall no longer exist or no longer have jurisdiction with respect to the enforcement of this Declaration of Covenants and Restrictions, the prior written approval of any New York State (the "State") agency or agencies whose purpose shall be to protect the environment of the State and the health of the State's citizens (the "Relevant Agency") is first obtained:

   a. The owner of the Controlled Property shall prohibit the Site from ever being used for purposes other than residential, commercial (profit and not-for-profit) or industrial use provided the long term Engineering and Institutional Controls remain in full force and effect as set forth in the Site Management Plan without

express written waiver of such prohibition by the Department or the Relevant Agency.

b. The owner of the Controlled Property shall prohibit the use of groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission from the Relevant Agency.

c. The owner of the Controlled Property must continue in full force and effect any institutional and engineering controls required by the Department including but not limited to groundwater and indoor air monitoring as may be required and maintain such controls unless the owner first obtains permission to discontinue such controls from the Relevant Agency.

d. Any deed conveying all or a portion of the Site shall recite that the said conveyance is subject to this Declaration of Covenants and Restrictions.

e. The owner agrees to submit to the Department or Relevant Agency a written statement that will certify, under penalty of perjury that (1) controls employed at the Site are unchanged from previous certification or that any changes to the controls were approved by the Department or Relevant Agency; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitutes a violation or failure to comply with the Site Management Plan. The Department or Relevant Agency reserves and retains the right to access the Site at any time to insure compliance with the Site Management Plan and to evaluate the continuing maintenance of any and all controls. This certification shall be submitted annually or in an alternate period of time acceptable to the Department or Relevant Agency. The statement must be certified by an expert that the Department or Relevant Agency deems acceptable.

3. This Declaration of Covenants and Restrictions is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Controlled Property. The owner, its successors and assigns consent to the enforcement by the Department or Relevant Agency of the restrictive covenants set forth herein and hereby covenant not to contest the authority of the Department or Relevant Agency to seek such enforcement.

4. Pursuant to Section X of the Voluntary Cleanup Agreement, any owner of the Site or Volunteer may petition the Department or Relevant Agency to terminate this Declaration of Covenants and Restrictions when the Controlled Property is protective of human health and the environment for residential, commercial (profit and not-for-profit) or industrial uses without reliance upon the restrictions set forth herein.

5. Enforcement

a. This Declaration of Covenants and Restrictions is enforceable in law or equity in perpetuity by the Department or Relevant Agency against any owner of the Controlled Property and any ground lessee, by the Corporation or any subsequent

owner against any ground lessee or other owner, and by any ground lessee against any owner or other ground lessee. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Declaration of Covenants and Restrictions that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

b. In the event that the Department, Relevant Agency, any owner or any ground lessee becomes aware of a breach or suspected breach of the terms of this Declaration of Covenants (hereinafter the "Notifying Party"), it shall notify the parties in breach or suspected breach (collectively hereinafter, the "Breaching Parties") of the nature of the breach or suspected breach. Such notice shall be in writing and except in the case of notice by the Department or Relevant Agency shall set forth how the Breaching Parties can cure such breach or suspected breach and give the Breaching Parties a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by the Notifying Party, the Notifying Party shall notify the Breaching Parties of any failure to adequately cure the breach or suspected breach. The Breaching Parties shall then have a reasonable amount of time from receipt of such notice to cure. At the expiration of said second period, the Notifying Party may commence any proceedings and take any other appropriate action reasonably necessary to remedy any breach of this Declaration of Covenants and Restrictions in accordance with applicable law to require compliance with the terms of this Declaration of Covenants and Restrictions. With respect to any enforcement action brought by the Department or Relevant Agency, the cure provisions set forth herein shall not apply, and nothing contained herein shall limit or otherwise restrict enforcement of this Declaration of Covenants and Restrictions by the Relevant Agency under applicable law.

c. The failure of the Department, Relevant Agency, the current owner, any subsequent owner or any ground lessee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar its enforcement rights in the event of a subsequent breach of or noncompliance with any of the terms of this Declaration of Covenants and Restrictions.

6. The Controlled Property is the subject of an outstanding 2002 revenue bond financing by the New York City Industrial Development Agency (the "NYCIDA"). In connection with such bond financing, Lycée Français de New York leased the Controlled Property to the NYCIDA for a nominal rental and for a lease term commensurate with the term of the bond financing, and the NYCIDA subleased the Controlled Property back to Lycée Français de New York for an equivalent lease term and a rental equal to amounts due under the bond financing. Except to the extent that the NYCIDA shall acquire any future ownership or ground lease interest in the Controlled Property, the NYCIDA shall not, by reason of the above

bond financing or any refinancing thereof, be deemed an owner or ground lessee of the Controlled Property for purposes of this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the Owner of the Controlled Property has executed this instrument as of the day first set forth above.

Lycée Français de New York, A New York Not For Profit Corporation

By: _____

Name: Y. THEZE

Title: Head

STATE OF NEW YORK)
ss:
COUNTY OF New York

On the 2nd day of March; in the year 2010, before me, the undersigned, personally appeared Yves Theze, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacit(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Marlene Sajous

Signature and Office of Individual Taking Acknowledgment

MARLENE SAJOUS
Notary Public, State of New York
Registration #01SA6006663
Qualified In Westchester County
Commission Expires June 22 2010

SEAL

Appendix A

Metes and Bounds Description of the Site

Lots 5 and 8

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:

BEGINNING at a point on the northerly side of 75th Street, distant 98 feet easterly form the corner formed by the intersection of the easterly side of Avenue A, with the northerly side of 75th Street;

RUNNING THENCE northerly, parallel with Avenue A, 102 feet 2 inches to the centerline of the block;

THENCE easterly along said centerline of the block, 100 feet to a point;

THENCE southerly at right angles to the preceding course, 2 feet 2 inches to a point;

THENCE easterly, parallel with the northerly side of 75th Street, 25 feet to a point;

THENCE southerly, parallel with Avenue A, 100 feet to the northerly side of 75th Street;

THENCE westerly, and along the northerly side of 75th Street, 125 feet to the point or place of BEGINNING

As to Lot 43

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, County, City and State of New York, bounded and described as follows:

BEGINNING at a point on the southerly side of East 76th Street, distant 98 feet easterly from the corner formed by the intersection of said southerly side of East 76th Street and the easterly side of York Avenue (Avenue A);

RUNNING THENCE easterly, along the southerly, at right angles to the southerly side of East 76th Street, 150 feet;

THENCE southerly, at right angles to the southerly side of East 76th Street, 102 feet 2 inches to the center line of the block;

THENCE westerly, along the centerline of the block, and parallel with East 76th Street, 25 feet;

THENCE southerly, at right angles to the preceding course, 2 feet 2 inches;

THENCE westerly, parallel with the East 76th Street, 25 feet;

THENCE northerly, at right angles to the preceding course, 2 feet 2 inches to the centerline of the block;

THENCE westerly, along the centerline of the block, and parallel with East 76th Street, 100 feet;

THENCE northerly, at right angles to East 76th Street, 102 feet 2 inches to the point or place of BEGINNING.

Perimeter Description

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Manhattan, City, County and State of New York, bounded and described as follows:

BEGINNING at a point on the northerly side of East 75th Street distant 98 feet easterly from the corner formed by the intersection of the easterly side of York Avenue, with the northerly side of East 75th Street;

RUNNING THENCE northerly, parallel with York Avenue, 204 feet 4 inches (deed) 204.542 feet (surveyed) to the southerly side of East 76th Street;

THENCE easterly along the southerly side of East 76th Street 150 feet (deed) 150.031 feet (surveyed);

THENCE southerly, parallel with York Avenue, 102 feet 2 inches (deed) 102.271 (surveyed) to the centerline of the block;

THENCE westerly, parallel with East 76th Street, 25 feet (deed) and (surveyed);

THENCE southerly, parallel with York Avenue 102 feet 2 inches (deed) 102.271 feet (surveyed) to the northerly side of East 75th Street;

THENCE westerly, and along the northerly side of East 75th Street, 125 feet (deed) 125.021 (surveyed) to the point or place of BEGINNING.

DECLARATION

OF

COVENANTS AND RESTRICTIONS

BY

LYCÉE FRANÇAIS DE NEW YORK

Block: 1487
Lots: 5, 8, 43

RECORD AND RETURN TO:
DENNETT LAW OFFICES, P.C.
505 Northern Boulevard, Suite 306
Great Neck, New York 11021
Attn: Richard A. Dennett
(516) 504-1400

Appendix B

Institutional and Engineering Controls Certification Form

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7)**:**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **V00425**

Site Name East 75th East 76th Street Properties

Site Address: 503-509 East 75th St.& 502-504 East 76th St. Zip Code: 10021-
City/Town: New York
County: New York
Site Acreage: 1.3

Reporting Period: February 01, 2015 to February 01, 2018

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	X	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

3/01/18
Date

SITE NO. V00425 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
2-1487-4,5,8	Lycee Francais	Ground Water Use Restriction Landuse Restriction

The Remedial Action Report and Site Management Plan were approved by NYSDEC on March 31, 2008. A release from liability will be granted upon the filing of a site-specific deed restriction with the New York County Clerk.

The Site Management Plan (SMP) provides a detailed description of all engineering and institutional controls required to manage residual contamination at the Site. Engineering control systems installed at the Site include:

- Installation of an engineered vapor barrier to prevent human exposure to vapor from residual contaminated groundwater remaining under the Site; and
- Implementation and continued operation, maintenance, and monitoring of an on-site groundwater treatment system to treat residual contaminated groundwater at the Site in accordance with NYCDEP sewer discharge limits.

Institutional controls include:

a. The owner of the Controlled Property shall prohibit the Site from ever being used for purposes other than residential, commercial (profit and not-for-profit) or industrial use provided the long term Engineering and Institutional Controls remain in full force and effect as set forth in the Site Management Plan without express written waiver of such prohibition by the Department, or the Relevant Agency.

b. The owner of the Controlled Property shall prohibit the use of groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission from the Relevant Agency.

c. The owner of the Controlled Property must continue in full force and affect any institutional and engineering controls required by the Department including but not limited to groundwater and indoor air monitoring as maybe required and maintain such controls unless the owner first obtains permission to discontinue such controls from the Relevant Agency.

d. Any deed conveying all or a portion of the Site shall recite that the said conveyance is subject to the Declaration of Covenants and Restrictions.

e. The owner agrees to submit to the Department or Relevant Agency a written statement that will certify, under penalty of perjury that (1) controls employed a the Site are unchanged from previous certification or that any changes to the controls were approved by the Department of Relevant Agency: and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the Site Management Plan. The Department or Relevant Agency reserves and retains the right to access the Site at any time to insure compliance with the Site Management Plan and to evaluate the continues maintenance of any and all controls. This certification shall be submitted annually or in an alternate period of time acceptable to the Department or Relevant Agency. The statement must be certified by an expert that the Department or Relevant Agency deems acceptable.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
2-1487-4,5,8	Vapor Mitigation Groundwater Treatment System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

3/21/18
Date

IC CERTIFICATIONS
SITE NO. V00425

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Terrence Kennedy (print name) at 505 e75st,NY,NY 11021 (print business address)

am certifying as Owner's rep (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

3/01/18
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michael P. Musso (print name) at HDR, 1 International Blvd, 10th Floor, Mahwah, NJ 07495 (print business address)

am certifying as a Qualified Environmental Professional for the Owner (Owner or Remedial Party)

Michael P. Musso — Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

3/1/2018 — Date

(Required for PE)

Appendix C

2015, 2016 and 2017 Wastewater Quality Control Application and Approval

August 21, 2015
File: 147 77030

Ms. Frances Leung, P.E.
New York City Department of Environmental Protection
Division of Pollution Control and Monitoring
Industrial Pretreatment Program Inspection and Permit Section
96-05 Horace Harding Expressway, 1st Floor
Corona, New York 11368

Re: NYCDEP Discharge Permit Renewal – Water Treatment System
505 East 75th Street
New York, New York 10021
Lycee Francais de New York, DEP File Case # C-3274

Dear Ms. Leung:

This letter was prepared by HDR on behalf of Lycee Francais de New York to request a **one year renewal** of the existing NYCDEP Discharge Permit for the above-referenced project. Enclosed please find a data table with the laboratory results from recent groundwater treatment system effluent sampling (July 28, 2015). As illustrated on the table, all analytical results are non-detect and/or within NYCDEP effluent limitations for discharges to Sanitary or Combined Sewers. A copy of the laboratory report is enclosed.

On behalf of Lycee Francais de New York, HDR continues to coordinate the operation, maintenance, and monitoring (OM&M) of the water treatments system (i.e., tracking flow, carbon usage). One carbon change-out has occurred in the past 12 months, based on carbon use calculations and observed flows throughout the year. New granular activated carbon was most recently installed in July 2015. None of the conditions listed for the letters of approval issued on September 5, 2014 and November 3, 2014 have changed. Note that the treated groundwater will continue to discharge to the combined sewer located at East 75th Street, between York Avenue and the FDR Drive, in Manhattan. Depending on actual flow conditions, it is anticipated that one or two carbon change-outs will occur in the next twelve months.

Please call if you have any questions or require any additional information.

Sincerely,

Michael P. Musso, P.E.

Michael P. Musso, P.E.

Attachment

cc: Terrence Kennedy, Lycee Francais

1 International Boulevard, 10th Floor , Suite 1000 , Mahwah , NJ 07495-0027 hdrinc.com
(201) 335-9300

Lycee Francais de New York
East 75th/East 76th Street
New York, New York 10021
File Case # C-3274

Analyte	Soutwest Pit Effluent 7/28/2015 Water	Units	NYCDEP Limitations for Effluent to Sanitary or Combined Sewers
Non-polar material	not detected	mg/L	50
pH	8.7 (field)	pH units	5 - 11
Temperature (field reading 7/28/15)	24.7° C (field)	temp	< 150 F
Flash Point	212° F	Deg F	> 140 F
Cadmium	not detected	mg/L	2
Chromium (VI) and (III)	not detected	mg/L	5
Copper	0.0149	mg/L	5
Lead	not detected	mg/L	2
Mercury	not detected	mg/L	0.05
Nickel	0.0307	mg/L	3
Zinc	0.57	mg/L	5
Benzene	not detected	ppb	134
Carbon tetrachloride	not detected	ppb	none
Chloroform	not detected	ppb	none
1,4-Dichlorobenzene	not detected	ppb	none
Ethylbenzene	not detected	ppb	380
MTBE (Methyl tert-butyl ether)	not detected	ppb	50
Naphthalene	not detected	ppb	47
Phenol	not detected	ppb	none
Tetrachloroethylene (PERC)	not detected	ppb	20
Toluene	not detected	ppb	74
1,2,4-Trichlorobenzene	not detected	ppb	none
1,1,1-Trichloroethane	not detected	ppb	none
Xylenes (Total)	not detected	ppb	74
PCBs (Total) *	not detected	ppb	1
Total Suspended Solids (TSS)	not detected	mg/L	350
CBOD *	< 2	mg/L	none
Chloride *	720	mg/L	none
Total Nitrogen *	2.82	ppm	none
Total Solids *	1810	mg/L	none
* Observed flow << 10,000 gpd, therefore, sampling of this parameter was not required.			
J - analyte detected below quantitation limits			

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

August 06, 2015

Carol Zurlo
HDR / LMS
One Blue Hill Plaza
Pearl River, NY 10965
TEL: (845) 735-8300
FAX (845) 735-7466

RE: LFNY - East 75th Street, NYC, NY Order No.: 1507221

Dear Carol Zurlo:

American Analytical Laboratories, LLC. received 2 sample(s) on 7/29/2015 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: **1507221**

06-Aug-15

CLIENT: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1507221-001A	SW Pit- Inf 7/28/15		7/28/2015 1:30:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002A	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002B	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002C	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002D	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002E	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid

Field Name	Field Value	Field Units	Field Analyst	Field Date
pH, SM4500H+ B	8.7	S.U.		
Temperature, SM 2550B	24.7	deg C		

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1507221-002F	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002G	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002H	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid
1507221-002I	SW Pit- Eff 7/28/15		7/28/2015 2:50:00 PM	7/29/2015 10:30:00 AM	Liquid

CHAIN OF CUSTODY

AMERICAN ANALYTICAL LABORATORIES

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS
NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information

Company Name: HDR
Address: 1 INTERNATIONAL BLVD 10 Floor SUITE 1000
City: MAHWAH State: NJ Zip: 07495
Project Contact: CAROL ZURKO
Phone #: 201-335-9451
E-mail: CAROL.ZURKO@HDRINC.COM

Project Information

Project Name: LFNY
Street: EAST 75 STREET
City: NYC State: Zip:
Project #: 147-77030
Sampler's Name / Company: DONALD KASSELL HDR
Sampler's Signature:

Analytical Information

PCE TCE
NYC DEC

LAB SAMPLE # (LAB USE ONLY)	Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	Number of Each Preserved Bottle: NONE	HCl	NaOH	HNO_3	H_2SO_4	$NaHSO_4$	MeOH	OTHER	PCE TCE	NYC DEC
1507221-001	SW PIT INF. 7/28/15	G	L	7/28/15	1330	G	2		2							2	
1507221-002	SW PIT EFF 7/28/15	↓	↓	↓	NY50		10	5	3		1	1				2	8
4A-I.																	

Turnaround Time (Business Days)

- [X] Standard 7-10 Business Days
- [ ] 3 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 1 Day *RUSH*

SAMPLE TYPE

G = Grab
C = Composite
B = Blank

MATRIX CODES

L = Liquid PC = Paint Chip
S = Soil SL = Sludge
O = Oil SD = Solid
W = Wipe M = Miscellaneous

EFF

Comments / Remarks

NYSDEC - FORMATTED EDD Files

PH-8.7 - 24.7°C

Cooler Temp: 1.3°C

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
D. KASSELL	7/28/15 1620	DON KASSELL	P Masi	7/29/15 10:30	P Masi
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

CHAIN OF CUSTODY RECORD

Omega COCID 413 | PAGE: 1 | OF: 1

ADDRESS
American Analytical Laboratories, LLC
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100
FAX: (631) 454-8027
Website: www.American-Analytical.com

ACCREDITED IN ACCORDANCE WITH nelac

SUB CONTRATOR: **PACE ANALYTICAL** COMPANY **Pace Analytical Services**

ADDRESS **575 Broad Hollow Road**

CITY, STATE, ZIP **Melville, NY 11747**

PHONE **(631) 694-3040** FAX **(631) 420-8436** EMAIL

ACCOUNT #

SPECIAL INSTRUCTIONS / COMMENTS:
CBOD

ITEM #	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: M5210 B	COMMENTS (Methanol Preserved Weights, HOT Sample Notation, Additional Sample Description, etc)
1	1507221-002I	SW Pit- Eff 7/28/15	500ML PU	Liquid	7/28/2015 2:50:00 PM	1	√	

3.8°C

Relinquished By	Date	Time	Received By	Date	Time
[signature]	7-29-15	1325	[signature]	7/29/15	1325
Relinquished By:	Date:	Time	Received By:	Date	Time
Relinquished By:	Date:	Time	Received By	Date	Time

TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples °C Attempt to Cool ?
Comments

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **HDR / LMS - NY** Work Order Number: **1507221** RcptNo: **1**

Logged by:	**Lori Beyer**	**7/29/2015 10:45:43 AM**	Lori Beyer
Completed By:	**Lori Beyer**	**7/29/2015 10:51:01 AM**	Lori Beyer
Reviewed By:	**Karen Kelly**	**7/29/2015**	Karen Kelly

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	FedEx Tracking No.: 803356412290		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
	No. Seal Date:	Signed By:		
5.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☑	No ☐	No VOA Vials ☐
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Case Narrative

WO#: **1507221**
Date: **8/6/2015**

CLIENT: HDR / LMS
Project: LFNY - East 75th Street, NYC, NY

Samples were preserved and analyzed using the methods outlined in 40 CFR Part 136 for all parameters with the exception of MTBE. MTBE was analyzed by SW846 Method 8260 since this compound is not listed as an approved NYSDOH Certifiable parameter in 40 CFR methodologies. Sample "System Discharge" was received with the proper preservation requirements, chilled on ice and each container was properly preserved for each test required.

CBOD was subcontracted to a NYSDOH ELAP Certified laboratory.

pH and temperature were recorded in the field immediately after sample collection.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

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Definition Only

WO#: **1507221**
Date: **8/6/2015**

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports
ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accurary.
m - Analyte was manually integrated for GC/MS.
+ - Concentration exceeds regulatory level for TCLP

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Inf 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 1:30:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**SW5030C**		Analyst: **LA**
Tetrachloroethene	71	0.25	2.0		µg/L	1	7/29/2015 10:30:00 PM
Trichloroethene	30	0.25	2.0		µg/L	1	7/29/2015 10:30:00 PM
Surr: 4-Bromofluorobenzene	101	0	76-123		%REC	1	7/29/2015 10:30:00 PM
Surr: Dibromofluoromethane	106	0	71-132		%REC	1	7/29/2015 10:30:00 PM
Surr: Toluene-d8	101	0	80-120		%REC	1	7/29/2015 10:30:00 PM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**SW5030C**		Analyst: **LA**
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Benzene	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Carbon tetrachloride	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Chloroform	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
m,p-Xylene	ND	0.5	4.0	U	µg/L	1	7/29/2015 10:57:00 PM
o-Xylene	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Tetrachloroethene	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Toluene	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Trichloroethene	ND	0.25	2.0	U	µg/L	1	7/29/2015 10:57:00 PM
Surr: 4-Bromofluorobenzene	104	0	76-123		%REC	1	7/29/2015 10:57:00 PM
Surr: Dibromofluoromethane	110	0	71-132		%REC	1	7/29/2015 10:57:00 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	7/29/2015 10:57:00 PM
VOLATILE SW-846 METHOD 8260			**SW8260C**		**SW5030C**		Analyst: **LA**
m,p-Xylene	ND	1	4.0	U	µg/L	1	7/29/2015 4:02:00 PM
Methyl tert-butyl ether	ND	0.5	2.0	U	µg/L	1	7/29/2015 4:02:00 PM
o-Xylene	ND	0.5	2.0	U	µg/L	1	7/29/2015 4:02:00 PM
Surr: 4-Bromofluorobenzene	100	0	76-123		%REC	1	7/29/2015 4:02:00 PM
Surr: Dibromofluoromethane	99.7	0	71-132		%REC	1	7/29/2015 4:02:00 PM
Surr: Toluene-d8	102	0	80-120		%REC	1	7/29/2015 4:02:00 PM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE EPA METHOD 625			**E625**		**SW3510C**		Analyst: **MH**
1,2,4-Trichlorobenzene	ND	0.5	5.0	U	µg/L	1	8/4/2015 2:14:00 AM
Naphthalene	ND	0.5	5.0	U	µg/L	1	8/4/2015 2:14:00 AM
Phenol	ND	0.5	5.0	U	µg/L	1	8/4/2015 2:14:00 AM
Surr: 2,4,6-Tribromophenol	77.7	0	17-145		%REC	1	8/4/2015 2:14:00 AM
Surr: 2-Fluorobiphenyl	82.5	0	18-131		%REC	1	8/4/2015 2:14:00 AM
Surr: 2-Fluorophenol	41.7	0	10-147		%REC	1	8/4/2015 2:14:00 AM
Surr: 4-Terphenyl-d14	79.2	0	14-140		%REC	1	8/4/2015 2:14:00 AM
Surr: Nitrobenzene-d5	80.8	0	13-133		%REC	1	8/4/2015 2:14:00 AM
Surr: Phenol-d6	24.5	0	10-146		%REC	1	8/4/2015 2:14:00 AM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PCB'S AS AROCLORS BY EPA METHOD 608			**E608**		**SW3510C**		Analyst: **SB**
Aroclor 1016	ND	0.02	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1221	ND	0.02	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1232	ND	0.02	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1242	ND	0.02	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1248	ND	0.02	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1254	ND	0.03	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1260	ND	0.03	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1262	ND	0.03	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Aroclor 1268	ND	0.03	0.051	U	µg/L	1	8/6/2015 5:19:00 AM
Surr: DCB	61.7	0	20-148		%REC	1	8/6/2015 5:19:00 AM
Surr: DCB	57.9	0	20-148		%REC	1	8/6/2015 5:19:00 AM
Surr: TCX	67.2	0	18-144		%REC	1	8/6/2015 5:19:00 AM
Surr: TCX	62.7	0	18-144		%REC	1	8/6/2015 5:19:00 AM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002D		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
NON-POLAR MATERIAL BY EPA METHOD 1664A			**E1664A**				Analyst: **PAV**
SGT-HEM (Non-Polar Material)	ND	1	2.00	U	mg/L	1	8/4/2015 11:40:00 AM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002E		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
FIELD PARAMETERS			**FLD**				Analyst:
pH, SM4500H+ B	8.7				S.U.		
Temperature, SM 2550B	24.7				deg C		
CHLORIDE			**M4500-C1-B-97,-11**				Analyst: **PAV**
Chloride	720	1	2.00		mg/L	1	8/5/2015 10:00:00 AM
HEXAVALENT CHROMIUM			**M3500-CR B-09,-11**				Analyst: **PAV**
Chromium, Hexavalent	ND	2	10.0	U	µg/L	1	7/29/2015 11:40:00 AM
IGNITABILITY/FLASHPOINT SW-846 1010			**SW1010A**				Analyst: **STP**
Ignitability	ND	65	140	U	°F	1	7/31/2015 4:37:42 PM
TOTAL SOLIDS			**M2540 B-97,-11**				Analyst: **JP**
Residue, Total	1810	2.5	2.50		mg/L	1	7/30/2015 2:00:00 PM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002F		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TOTAL SUSPENDED SOLIDS			**M2540 D-97,-11**				Analyst: **JP**
Suspended Solids (Residue, Non-Filterable)	ND	2.5	3.00	U	mg/L	1	7/30/2015 12:10:00 PM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002G		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
NITRATE-NITRITE AS N			**E353.2 REV2.0**				Analyst: **STP**
Nitrogen, Nitrate-Nitrite	1.80	0.1	0.200	D	mg/L	2	8/5/2015 1:36:08 PM
TOTAL KJELDAHL NITROGEN			**E351.2 REV2.0**				Analyst: **STP**
Nitrogen, Kjeldahl, Total	1.02	0.2	0.400		mg/L	1	8/5/2015 11:33:42 AM
TOTAL NITROGEN			**TNITRO**				Analyst: **STP**
Total Nitrogen	2.82	0.1	0.400		ppm	1	8/5/2015 1:56:45 PM

American Analytical Laboratories, LLC.

Date: *06-Aug-15*

ELAP ID : 11418

CLIENT:	HDR / LMS	**Client Sample ID:**	SW Pit- Eff 7/28/15
Lab Order:	1507221	**Collection Date:**	7/28/2015 2:50:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1507221-002H		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**E245.1 REV3.0**		**E245.1 REV3.0**		Analyst: **JP**
Mercury	ND	0.0002	0.000250	U	mg/L	1	8/4/2015 9:51:48 AM
TOTAL METALS			**E200.7 REV4.4**		**E200.7 REV4.4**		Analyst: **JP**
Cadmium	ND	0.005	0.0100	U	mg/L	1	8/4/2015 9:25:01 AM
Chromium	ND	0.005	0.0200	U	mg/L	1	8/4/2015 9:25:01 AM
Copper	0.0149	0.005	0.0200	J	mg/L	1	8/4/2015 9:25:01 AM
Lead	ND	0.005	0.0150	U	mg/L	1	8/4/2015 9:25:01 AM
Nickel	0.0307	0.005	0.0200		mg/L	1	8/4/2015 9:25:01 AM
Zinc	0.570	0.005	0.0200		mg/L	1	8/4/2015 9:25:01 AM

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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5799**

Sample ID **LCS-5799** SampType: **LCS** TestCode: **8260_W** Units: **µg/L** Prep Date: **7/29/2015** RunNo: **9935**

Client ID: **LCSW** Batch ID: **5799** TestNo: **SW8260C** **SW5030C** Analysis Date: **7/29/2015** SeqNo: **184284**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	44	2.0	50.00	0	87.8	54	134				
1,1,2,2-Tetrachloroethane	39	2.0	50.00	0	77.2	38	133				
1,1,2-Trichloroethane	42	2.0	50.00	0	84.8	53	132				
1,1-Dichloroethane	44	2.0	50.00	0	88.7	46	138				
1,1-Dichloroethene	46	2.0	50.00	0	92.1	47	137				
1,2-Dichlorobenzene	41	2.0	50.00	0	81.7	47	134				
1,2-Dichloroethane	43	2.0	50.00	0	86.8	52	136				
1,2-Dichloropropane	44	2.0	50.00	0	87.7	47	145				
1,3-Dichlorobenzene	42	2.0	50.00	0	83.1	47	136				
1,4-Dichlorobenzene	41	2.0	50.00	0	82.6	44	134				
2-Chloroethyl vinyl ether	ND	2.0	50.00	0	0	40	130				SU
Acetone	2.4	4.0	50.00	0	4.84	45	120				BJS
Benzene	44	2.0	50.00	0	88.3	51	138				
Bromodichloromethane	43	2.0	50.00	0	86.7	48	143				
Bromoform	39	2.0	50.00	0	77.9	34	138				
Bromomethane	55	4.0	50.00	0	110	28	152				
Carbon tetrachloride	44	2.0	50.00	0	88.4	52	138				
Chlorobenzene	42	2.0	50.00	0	83.6	48	133				
Chloroethane	55	2.0	50.00	0	110	51	147				
Chloroform	43	2.0	50.00	0	86.1	54	136				
Chloromethane	51	2.0	50.00	0	102	58	146				
cis-1,3-Dichloropropene	41	2.0	50.00	0	82.3	52	138				
Dibromochloromethane	42	2.0	50.00	0	83.7	53	131				
Ethylbenzene	43	2.0	50.00	0	85.2	53	134				
Methylene chloride	15	2.0	50.00	0	30.7	10	120				B
Tetrachloroethene	31	2.0	50.00	0	61.9	44	126				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5799**

Sample ID **LCS-5799** SampType: **LCS** TestCode: **8260_W** Units: **µg/L** Prep Date: **7/29/2015** RunNo: **9935**

Client ID: **LCSW** Batch ID: **5799** TestNo: **SW8260C** **SW5030C** Analysis Date: **7/29/2015** SeqNo: **184284**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	43	2.0	50.00	0	85.9	54	134				
trans-1,2-Dichloroethene	43	2.0	50.00	0	86.8	44	138				
trans-1,3-Dichloropropene	42	2.0	50.00	0	83.4	46	137				
Trichloroethene	42	2.0	50.00	0	83.6	52	134				
Trichlorofluoromethane	56	2.0	50.00	0	111	56	151				
Vinyl chloride	57	2.0	50.00	0	114	55	151				
Surr: 4-Bromofluorobenzene	49		50.00		97.6	76	123				
Surr: Dibromofluoromethane	51		50.00		102	71	132				
Surr: Toluene-d8	51		50.00		102	80	120				

Sample ID **MB-5799** SampType: **MBLK** TestCode: **8260_W** Units: **µg/L** Prep Date: **7/29/2015** RunNo: **9935**

Client ID: **PBW** Batch ID: **5799** TestNo: **SW8260C** **SW5030C** Analysis Date: **7/29/2015** SeqNo: **184285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	2.0									U
1,1,1-Trichloroethane	ND	2.0									U
1,1,2,2-Tetrachloroethane	ND	2.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0									U
1,1,2-Trichloroethane	ND	2.0									U
1,1-Dichloroethane	ND	2.0									U
1,1-Dichloroethene	ND	2.0									U
1,1-Dichloropropene	ND	2.0									U
1,2,3-Trichlorobenzene	ND	2.0									U
1,2,3-Trichloropropane	ND	2.0									U
1,2,4,5-Tetramethylbenzene	ND	2.0									U

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5799**

Sample ID **MB-5799**	SampType: **MBLK**	TestCode: **8260_W**	Units: **µg/L**	Prep Date: **7/29/2015**	RunNo: **9935**				
Client ID: **PBW**	Batch ID: **5799**	TestNo: **SW8260C**	**SW5030C**	Analysis Date: **7/29/2015**	SeqNo: **184285**				

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	2.0									U
1,2,4-Trimethylbenzene	ND	2.0									U
1,2-Dibromo-3-chloropropane	ND	2.0									U
1,2-Dibromoethane	ND	2.0									U
1,2-Dichlorobenzene	ND	2.0									U
1,2-Dichloroethane	ND	2.0									U
1,2-Dichloropropane	ND	2.0									U
1,3,5-Trimethylbenzene	ND	2.0									U
1,3-Dichlorobenzene	ND	2.0									U
1,3-dichloropropane	ND	2.0									U
1,4-Dichlorobenzene	ND	2.0									U
1,4-Dioxane	ND	2.0									U
2,2-Dichloropropane	ND	2.0									U
2-Butanone	ND	4.0									U
2-Chloroethyl vinyl ether	ND	2.0									U
2-Chlorotoluene	ND	2.0									U
2-Hexanone	ND	4.0									U
2-Propanol	ND	2.0									U
4-Chlorotoluene	ND	2.0									U
4-Isopropyltoluene	ND	2.0									U
4-Methyl-2-pentanone	ND	4.0									U
Acetone	1.3	4.0									J
Benzene	ND	2.0									U
Bromobenzene	ND	2.0									U
Bromochloromethane	ND	2.0									U
Bromodichloromethane	ND	2.0									U

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5799**

Sample ID **MB-5799**	SampType: **MBLK**	TestCode: **8260_W**	Units: **µg/L**	Prep Date: **7/29/2015**	RunNo: **9935**							
Client ID: **PBW**	Batch ID: **5799**	TestNo: **SW8260C**	**SW5030C**	Analysis Date: **7/29/2015**	SeqNo: **184285**							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Bromoform	ND	2.0									U	
Bromomethane	ND	4.0									U	
Carbon disulfide	ND	2.0									U	
Carbon tetrachloride	ND	2.0									U	
Chlorobenzene	ND	2.0									U	
Chlorodifluoromethane	ND	2.0									U	
Chloroethane	ND	2.0									U	
Chloroform	ND	2.0									U	
Chloromethane	ND	2.0									U	
cis-1,2-Dichloroethene	ND	2.0									U	
cis-1,3-Dichloropropene	ND	2.0									U	
Cyclohexane	ND	2.0									U	
Dibromochloromethane	ND	2.0									U	
Dibromomethane	ND	2.0									U	
Dichlorodifluoromethane	ND	2.0									U	
Diisopropyl ether	ND	2.0									U	
Ethanol	ND	10									U	
Ethylbenzene	ND	2.0									U	
Freon-114	ND	2.0									U	
Hexachlorobutadiene	ND	2.0									U	
Isopropylbenzene	ND	2.0									U	
m,p-Xylene	ND	4.0									U	
Methyl Acetate	ND	2.0									U	
Methyl tert-butyl ether	ND	2.0									U	
Methylene chloride	4.0	2.0										
n-Butylbenzene	ND	2.0									U	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5799**

Sample ID **MB-5799**	SampType: **MBLK**	TestCode: **8260_W**	Units: **µg/L**	Prep Date: **7/29/2015**	RunNo: **9935**
Client ID: **PBW**	Batch ID: **5799**	TestNo: **SW8260C**	**SW5030C**	Analysis Date: **7/29/2015**	SeqNo: **184285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	2.0									U
Naphthalene	ND	2.0									U
o-Xylene	ND	2.0									U
p-Diethylbenzene	ND	2.0									U
p-Ethyltoluene	ND	2.0									U
sec-Butylbenzene	ND	2.0									U
Styrene	ND	2.0									U
t-Butyl alcohol	ND	10									U
tert-Butylbenzene	ND	2.0									U
Tetrachloroethene	ND	2.0									U
Toluene	ND	2.0									U
trans-1,2-Dichloroethene	ND	2.0									U
trans-1,3-Dichloropropene	ND	2.0									U
Trichloroethene	ND	2.0									U
Trichlorofluoromethane	ND	2.0									U
Vinyl acetate	ND	2.0									U
Vinyl chloride	ND	2.0									U
Surr: 4-Bromofluorobenzene	49		50.00		97.8	76	123				
Surr: Dibromofluoromethane	49		50.00		97.3	71	132				
Surr: Toluene-d8	50		50.00		100	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5801**

Sample ID **LCS-5801**	SampType: **LCS**	TestCode: **624_W**	Units: **µg/L**	Prep Date: **7/29/2015**	RunNo: **9936**
Client ID: **LCSW**	Batch ID: **5801**	TestNo: **E624**	**SW5030C**	Analysis Date: **7/29/2015**	SeqNo: **184292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	42	2.0	50.00	0	84.2	54	134				
1,1,2,2-Tetrachloroethane	37	2.0	50.00	0	75.0	38	133				
1,1,2-Trichloroethane	42	2.0	50.00	0	83.4	53	132				
1,1-Dichloroethane	44	2.0	50.00	0	88.0	46	138				
1,1-Dichloroethene	43	2.0	50.00	0	85.1	47	137				
1,2-Dichlorobenzene	39	2.0	50.00	0	79.0	47	134				
1,2-Dichloroethane	45	2.0	50.00	0	90.4	52	136				
1,2-Dichloropropane	61	2.0	50.00	0	121	47	145				
1,3-Dichlorobenzene	39	2.0	50.00	0	78.1	47	136				
1,4-Dichlorobenzene	39	2.0	50.00	0	78.9	44	134				
2-Chloroethyl vinyl ether	ND	2.0	50.00	0	0	40	130				SU
Benzene	43	2.0	50.00	0	86.5	51	138				
Bromodichloromethane	42	2.0	50.00	0	83.7	48	143				
Bromoform	41	2.0	50.00	0	82.1	34	138				
Bromomethane	16	2.0	50.00	0	32.0	28	152				m
Carbon tetrachloride	41	2.0	50.00	0	82.1	52	138				
Chlorobenzene	39	2.0	50.00	0	78.6	48	133				
Chloroethane	53	2.0	50.00	0	106	51	147				
Chloroform	44	2.0	50.00	0	87.5	54	136				
Chloromethane	31	2.0	50.00	0	63.0	58	146				
cis-1,3-Dichloropropene	41	2.0	50.00	0	82.7	52	138				
Dibromochloromethane	44	2.0	50.00	0	88.3	53	131				
Ethylbenzene	39	2.0	50.00	0	77.3	53	134				
Methylene chloride	15	2.0	50.00	0	30.1	10	120				B
Tetrachloroethene	30	2.0	50.00	0	60.1	44	126				
Toluene	40	2.0	50.00	0	80.0	54	134				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5801**

Sample ID **LCS-5801** SampType: **LCS** TestCode: **624_W** Units: **µg/L** Prep Date: **7/29/2015** RunNo: **9936**

Client ID: **LCSW** Batch ID: **5801** TestNo: **E624** **SW5030C** Analysis Date: **7/29/2015** SeqNo: **184292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	43	2.0	50.00	0	85.8	44	138				
trans-1,3-Dichloropropene	41	2.0	50.00	0	82.2	46	137				
Trichloroethene	39	2.0	50.00	0	77.4	52	134				
Trichlorofluoromethane	51	2.0	50.00	0	102	56	151				
Vinyl chloride	45	2.0	50.00	0	90.1	55	151				
Surr: 4-Bromofluorobenzene	51		50.00		101	76	123				
Surr: Dibromofluoromethane	58		50.00		116	71	132				
Surr: Toluene-d8	50		50.00		101	80	120				

Sample ID **MB-5801** SampType: **MBLK** TestCode: **624_W** Units: **µg/L** Prep Date: **7/29/2015** RunNo: **9936**

Client ID: **PBW** Batch ID: **5801** TestNo: **E624** **SW5030C** Analysis Date: **7/29/2015** SeqNo: **184293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	2.0									U
1,1,2,2-Tetrachloroethane	ND	2.0									U
1,1,2-Trichloroethane	ND	2.0									U
1,1-Dichloroethane	ND	2.0									U
1,1-Dichloroethene	ND	2.0									U
1,2-Dichlorobenzene	ND	2.0									U
1,2-Dichloroethane	ND	2.0									U
1,2-Dichloropropane	ND	2.0									U
1,3-Dichlorobenzene	ND	2.0									U
1,4-Dichlorobenzene	ND	2.0									U
2-Chloroethyl vinyl ether	ND	2.0									U
Benzene	ND	2.0									U

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5801**

Sample ID **MB-5801**	SampType: **MBLK**	TestCode: **624_W**	Units: **µg/L**	Prep Date: **7/29/2015**	RunNo: **9936**
Client ID: **PBW**	Batch ID: **5801**	TestNo: **E624**	**SW5030C**	Analysis Date: **7/29/2015**	SeqNo: **184293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	2.0									U
Bromoform	ND	2.0									U
Bromomethane	ND	2.0									U
Carbon tetrachloride	ND	2.0									U
Chlorobenzene	ND	2.0									U
Chloroethane	ND	2.0									U
Chloroform	ND	2.0									U
Chloromethane	ND	2.0									U
cis-1,3-Dichloropropene	ND	2.0									U
Dibromochloromethane	ND	2.0									U
Ethylbenzene	ND	2.0									U
Methylene chloride	4.3	2.0									
Tetrachloroethene	ND	2.0									U
Toluene	ND	2.0									U
trans-1,2-Dichloroethene	ND	2.0									U
trans-1,3-Dichloropropene	ND	2.0									U
Trichloroethene	ND	2.0									U
Trichlorofluoromethane	ND	2.0									U
Vinyl chloride	ND	2.0									U
Surr: 4-Bromofluorobenzene	52		50.00		104	76	123				
Surr: Dibromofluoromethane	55		50.00		110	71	132				
Surr: Toluene-d8	51		50.00		103	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5819**

Sample ID **MB-5819**	SampType: **MBLK**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/31/2015**	RunNo: **9967**
Client ID: **PBW**	Batch ID: **5819**	TestNo: **E625**	**SW3510C**	Analysis Date: **8/3/2015**	SeqNo: **184818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0									U
2,4,6-Trichlorophenol	ND	5.0									U
2,4-Dichlorophenol	ND	5.0									U
2,4-Dimethylphenol	ND	5.0									U
2,4-Dinitrophenol	ND	10									U
2,4-Dinitrotoluene	ND	5.0									U
2,6-Dinitrotoluene	ND	5.0									U
2-Chloronaphthalene	ND	5.0									U
2-Chlorophenol	ND	5.0									U
2-Nitrophenol	ND	10									U
4,6-Dinitro-2-methylphenol	ND	10									U
4-Bromophenyl phenyl ether	ND	5.0									U
4-Chloro-3-methylphenol	ND	5.0									U
4-Chlorophenyl phenyl ether	ND	5.0									U
4-Nitrophenol	ND	10									U
Acenaphthene	ND	5.0									U
Acenaphthylene	ND	5.0									U
Anthracene	ND	5.0									U
Benzo(a)anthracene	ND	5.0									U
Benzo(a)pyrene	ND	5.0									U
Benzo(b)fluoranthene	ND	5.0									U
Benzo(g,h,i)perylene	ND	5.0									U
Benzo(k)fluoranthene	ND	5.0									U
Bis(2-chloroethoxy)methane	ND	5.0									U
Bis(2-chloroethyl)ether	ND	5.0									U
Bis(2-chloroisopropyl)ether	ND	5.0									U

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5819**

Sample ID **MB-5819**	SampType: **MBLK**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/31/2015**	RunNo: **9967**
Client ID: **PBW**	Batch ID: **5819**	TestNo: **E625**	**SW3510C**	Analysis Date: **8/3/2015**	SeqNo: **184818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	ND	5.0									U
Butyl benzyl phthalate	ND	5.0									U
Chrysene	ND	5.0									U
Di-n-butyl phthalate	ND	5.0									U
Di-n-octyl phthalate	ND	5.0									U
Dibenzo(a,h)anthracene	ND	5.0									U
Diethyl phthalate	ND	5.0									U
Dimethyl phthalate	3.2	5.0									J
Fluoranthene	ND	5.0									U
Fluorene	ND	5.0									U
Hexachlorobenzene	ND	5.0									U
Hexachlorobutadiene	ND	5.0									U
Hexachlorocyclopentadiene	ND	10									U
Hexachloroethane	ND	5.0									U
Indeno(1,2,3-c,d)pyrene	ND	5.0									U
Isophorone	ND	5.0									U
N-Nitrosodi-n-propylamine	ND	5.0									U
N-Nitrosodimethylamine	ND	5.0									U
N-Nitrosodiphenylamine	ND	5.0									U
Naphthalene	ND	5.0									U
Nitrobenzene	ND	5.0									U
Pentachlorophenol	ND	10									U*
Phenanthrene	ND	5.0									U
Phenol	ND	5.0									U
Pyrene	ND	5.0									U
Surr: 2,4,6-Tribromophenol	33		40.00		82.3	17	145				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5819**

Sample ID **MB-5819**	SampType: **MBLK**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/31/2015**	RunNo: **9967**
Client ID: **PBW**	Batch ID: **5819**	TestNo: **E625**	**SW3510C**	Analysis Date: **8/3/2015**	SeqNo: **184818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	15		20.00		72.6	18	131				
Surr: 2-Fluorophenol	18		40.00		44.8	10	147				
Surr: 4-Terphenyl-d14	18		20.00		91.2	14	140				
Surr: Nitrobenzene-d5	17		20.00		85.6	13	133				
Surr: Phenol-d6	9.4		40.00		23.6	10	146				

Sample ID **LCS-5819**	SampType: **LCS**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/31/2015**	RunNo: **9967**
Client ID: **LCSW**	Batch ID: **5819**	TestNo: **E625**	**SW3510C**	Analysis Date: **8/3/2015**	SeqNo: **184819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	29	5.0	40.00	0	72.3	20	124				
2,4,6-Trichlorophenol	37	5.0	40.00	0	91.3	31	131				
2,4-Dichlorophenol	33	5.0	40.00	0	82.5	20	120				
2,4-Dimethylphenol	32	5.0	40.00	0	79.0	13	123				
2,4-Dinitrophenol	25	10	40.00	0	62.2	11	126				
2,4-Dinitrotoluene	ND	5.0		0	0	22	137				U
2,6-Dinitrotoluene	ND	5.0		0	0	20	130				U
2-Chloronaphthalene	38	5.0	40.00	0	94.2	24	123				
2-Chlorophenol	30	5.0	40.00	0	75.4	20	120				
2-Nitrophenol	35	10	40.00	0	87.5	22	120				
4,6-Dinitro-2-methylphenol	31	10	40.00	0	78.1	10	132				
4-Bromophenyl phenyl ether	38	5.0	40.00	0	95.7	21	133				
4-Chloro-3-methylphenol	30	5.0	40.00	0	75.1	29	122				
4-Chlorophenyl phenyl ether	35	5.0	40.00	0	88.6	32	128				
4-Nitrophenol	11	10	40.00	0	27.6	10	100				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5819**

Sample ID **LCS-5819**	SampType: **LCS**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/31/2015**	RunNo: **9967**
Client ID: **LCSW**	Batch ID: **5819**	TestNo: **E625**	**SW3510C**	Analysis Date: **8/3/2015**	SeqNo: **184819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	37	5.0	40.00	0	92.6	24	125				
Acenaphthylene	38	5.0	40.00	0	93.8	23	125				
Anthracene	38	5.0	40.00	0	95.6	32	130				
Benzo(a)anthracene	39	5.0	40.00	0	98.7	27	130				
Benzo(a)pyrene	39	5.0	40.00	0	97.7	32	125				
Benzo(b)fluoranthene	38	5.0	40.00	0	94.6	30	125				
Benzo(g,h,i)perylene	42	5.0	40.00	0	106	27	141				
Benzo(k)fluoranthene	39	5.0	40.00	0	96.6	34	134				
Bis(2-chloroethoxy)methane	36	5.0	40.00	0	89.7	23	122				
Bis(2-chloroethyl)ether	38	5.0	40.00	0	94.0	32	126				
Bis(2-chloroisopropyl)ether	32	5.0	40.00	0	80.9	27	127				
Bis(2-ethylhexyl)phthalate	ND	5.0		0	0	30	136				U
Butyl benzyl phthalate	ND	5.0		0	0	28	141				U
Chrysene	39	5.0	40.00	0	98.4	27	130				
Di-n-butyl phthalate	ND	5.0		0	0	27	146				U
Di-n-octyl phthalate	ND	5.0		0	0	26	136				U
Dibenzo(a,h)anthracene	42	5.0	40.00	0	104	24	140				
Diethyl phthalate	ND	5.0		0	0	21	142				U
Dimethyl phthalate	2.7	5.0		0	0	24	123				J
Fluoranthene	37	5.0	40.00	0	91.5	30	139				
Fluorene	37	5.0	40.00	0	92.5	22	133				
Hexachlorobenzene	38	5.0	40.00	0	93.9	24	142				
Hexachlorobutadiene	26	5.0	40.00	0	65.9	22	130				
Hexachlorocyclopentadiene	26	10	40.00	0	64.2	16	101				
Hexachloroethane	22	5.0	40.00	0	54.8	20	133				
Indeno(1,2,3-c,d)pyrene	43	5.0	40.00	0	108	24	133				m

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5819**

Sample ID **LCS-5819**	SampType: **LCS**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/31/2015**	RunNo: **9967**
Client ID: **LCSW**	Batch ID: **5819**	TestNo: **E625**	**SW3510C**	Analysis Date: **8/3/2015**	SeqNo: **184819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isophorone	ND	5.0		0	0	22	131				U
N-Nitrosodi-n-propylamine	ND	5.0		0	0	29	134				U
N-Nitrosodimethylamine	ND	5.0		0	0	12	100				U
N-Nitrosodiphenylamine	33	5.0	40.00	0	82.8	11	140				
Naphthalene	32	5.0	40.00	0	80.7	25	123				
Nitrobenzene	ND	5.0		0	0	22	138				U
Pentachlorophenol	27	10	40.00	0	68.2	18	140				*
Phenanthrene	39	5.0	40.00	0	97.7	25	132				
Phenol	11	5.0	40.00	0	27.8	10	100				
Pyrene	40	5.0	40.00	0	101	24	136				
Surr: 2,4,6-Tribromophenol	35		40.00		86.8	17	145				
Surr: 2-Fluorobiphenyl	17		20.00		84.8	18	131				
Surr: 2-Fluorophenol	18		40.00		44.4	10	147				
Surr: 4-Terphenyl-d14	19		20.00		92.9	14	140				
Surr: Nitrobenzene-d5	17		20.00		86.7	13	133				
Surr: Phenol-d6	9.9		40.00		24.7	10	146				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5848**

Sample ID **1507242-006CMS** SampType: **MS** TestCode: **ICPSCAN_W** Units: **mg/L** Prep Date: **8/3/2015** RunNo: **9975**

Client ID: **BatchQC** Batch ID: **5848** TestNo: **E200.7 Rev4.** **E200.7 Rev4.** Analysis Date: **8/4/2015** SeqNo: **184947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.01	0.0250	1.000	0	101	70	130				
Barium	1.06	0.0200	1.000	0.09298	96.7	70	130				
Cadmium	1.10	0.0100	1.000	0	110	70	130				
Chromium	1.05	0.0200	1.000	0	105	70	130				
Lead	1.07	0.0150	1.000	0	107	70	130				
Selenium	1.16	0.0250	1.000	0	116	70	130				
Silver	0.953	0.0200	1.000	0	95.3	70	130				

Sample ID **1507242-006CMSD** SampType: **MSD** TestCode: **ICPSCAN_W** Units: **mg/L** Prep Date: **8/3/2015** RunNo: **9975**

Client ID: **BatchQC** Batch ID: **5848** TestNo: **E200.7 Rev4.** **E200.7 Rev4.** Analysis Date: **8/4/2015** SeqNo: **184948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.02	0.0250	1.000	0	102	70	130	1.015	0.526	20	
Barium	1.06	0.0200	1.000	0.09298	96.2	70	130	1.060	0.468	20	
Cadmium	1.09	0.0100	1.000	0	109	70	130	1.101	0.697	20	
Chromium	1.04	0.0200	1.000	0	104	70	130	1.046	0.643	20	
Lead	1.06	0.0150	1.000	0	106	70	130	1.067	0.606	20	
Selenium	1.18	0.0250	1.000	0	118	70	130	1.160	1.35	20	
Silver	0.948	0.0200	1.000	0	94.8	70	130	0.9528	0.517	20	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5848**

Sample ID **MBW080315A** SampType: **MBLK** TestCode: **ICPSCAN_W** Units: **mg/L** Prep Date: **8/3/2015** RunNo: **9975**

Client ID: **PBW** Batch ID: **5848** TestNo: **E200.7 Rev4. E200.7 Rev4.** Analysis Date: **8/4/2015** SeqNo: **185010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									U
Antimony	ND	0.0200									U
Arsenic	ND	0.0250									U
Barium	ND	0.0200									U
Beryllium	ND	0.0200									U
Cadmium	ND	0.0100									U
Calcium	ND	0.0250									U
Chromium	ND	0.0200									U
Cobalt	ND	0.0200									U
Copper	ND	0.0200									U
Iron	ND	0.0200									U
Lead	ND	0.0150									U
Magnesium	ND	0.0200									U
Manganese	ND	0.0200									U
Nickel	ND	0.0200									U
Potassium	ND	0.200									U
Selenium	ND	0.0250									U
Silicon	ND	0.0300									U
Silver	ND	0.0200									U
Sodium	ND	0.0300									U
Thallium	ND	0.0150									U
Vanadium	ND	0.0200									U
Zinc	ND	0.0200									U

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5848**

Sample ID **LCSW080315A** SampType: **LCS** TestCode: **ICPSCAN_W** Units: **mg/L** Prep Date: **8/3/2015** RunNo: **9975**

Client ID: **LCSW** Batch ID: **5848** TestNo: **E200.7 Rev4. E200.7 Rev4.** Analysis Date: **8/4/2015** SeqNo: **185011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.93	0.0200	2.000	0	96.7	85	115				
Antimony	1.98	0.0200	2.000	0	98.9	85	115				
Arsenic	1.86	0.0250	2.000	0	92.8	85	115				
Barium	1.88	0.0200	2.000	0	94.1	85	115				
Beryllium	1.90	0.0200	2.000	0	95.1	85	115				
Cadmium	1.96	0.0100	2.000	0	98.0	85	115				
Calcium	1.93	0.0250	2.000	0	96.6	85	115				
Chromium	1.97	0.0200	2.000	0	98.6	85	115				
Cobalt	1.91	0.0200	2.000	0	95.3	85	115				
Copper	1.90	0.0200	2.000	0	94.9	85	115				
Iron	1.87	0.0200	2.000	0	93.4	85	115				
Lead	1.99	0.0150	2.000	0	99.3	85	115				
Magnesium	1.86	0.0200	2.000	0	92.8	85	115				
Manganese	1.84	0.0200	2.000	0	91.8	85	115				
Nickel	1.91	0.0200	2.000	0	95.3	85	115				
Potassium	18.5	0.200	20.00	0	92.6	85	115				
Selenium	2.10	0.0250	2.000	0	105	85	115				
Silver	1.85	0.0200	2.000	0	92.5	85	115				
Sodium	1.87	0.0300	2.000	0	93.6	85	115				
Thallium	1.86	0.0150	2.000	0	93.1	85	115				
Vanadium	1.86	0.0200	2.000	0	92.9	85	115				
Zinc	1.88	0.0200	2.000	0	93.9	85	115				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5856**

Sample ID **MB-5856**	SampType: **MBLK**	TestCode: **608_PCB_W**	Units: **%REC**	Prep Date: **8/4/2015**	RunNo: **10051**
Client ID: **PBW**	Batch ID: **5856**	TestNo: **E608**	**SW3510C**	Analysis Date: **8/6/2015**	SeqNo: **186104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	0.32		0.5000		63.9	20	148				
Surr: TCX	0.33		0.5000		66.7	18	144				

Sample ID **LCS-5856**	SampType: **LCS**	TestCode: **608_PCB_W**	Units: **%REC**	Prep Date: **8/4/2015**	RunNo: **10051**
Client ID: **LCSW**	Batch ID: **5856**	TestNo: **E608**	**SW3510C**	Analysis Date: **8/6/2015**	SeqNo: **186105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	0.33		0.5000		66.9	20	148				
Surr: TCX	0.35		0.5000		70.0	18	144				

Sample ID **LCSD-5856**	SampType: **LCSD**	TestCode: **608_PCB_W**	Units: **%REC**	Prep Date: **8/4/2015**	RunNo: **10051**
Client ID: **LCSS02**	Batch ID: **5856**	TestNo: **E608**	**SW3510C**	Analysis Date: **8/6/2015**	SeqNo: **186106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	0.31		0.5000		61.3	20	148		0	0	
Surr: TCX	0.32		0.5000		64.9	18	144		0	0	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5856**

Sample ID **MB-5856** SampType: **MBLK** TestCode: **608_PCB_W** Units: **µg/L** Prep Date: **8/4/2015** RunNo: **10050**

Client ID: **PBW** Batch ID: **5856** TestNo: **E608** **SW3510C** Analysis Date: **8/6/2015** SeqNo: **186084**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.050									U
Aroclor 1221	ND	0.050									U
Aroclor 1232	ND	0.050									U
Aroclor 1242	ND	0.050									U
Aroclor 1248	ND	0.050									U
Aroclor 1254	ND	0.050									U
Aroclor 1260	ND	0.050									U
Aroclor 1262	ND	0.050									U
Aroclor 1268	ND	0.050									U
Surr: DCB	0.28		0.5000		56.8	20	148				
Surr: TCX	0.30		0.5000		59.7	18	144				

Sample ID **LCS-5856** SampType: **LCS** TestCode: **608_PCB_W** Units: **µg/L** Prep Date: **8/4/2015** RunNo: **10050**

Client ID: **LCSW** Batch ID: **5856** TestNo: **E608** **SW3510C** Analysis Date: **8/6/2015** SeqNo: **186085**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1242	2.8	0.050	5.000	0	55.4	30	130				
Surr: DCB	0.31		0.5000		61.6	20	148				
Surr: TCX	0.32		0.5000		64.8	18	144				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5856**

Sample ID **LCSD-5856**	SampType: **LCSD**	TestCode: **608_PCB_W**	Units: **µg/L**	Prep Date: **8/4/2015**	RunNo: **10050**
Client ID: **LCSS02**	Batch ID: **5856**	TestNo: **E608**	**SW3510C**	Analysis Date: **8/6/2015**	SeqNo: **186086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1242	2.4	0.050	5.000	0	48.3	30	130	2.772	13.8	20	
Surr: DCB	0.28		0.5000		56.7	20	148		0	0	
Surr: TCX	0.30		0.5000		60.0	18	144		0	0	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **5873**

Sample ID	**1507247-001HMSD**	SampType:	**MSD**	TestCode:	**HG_W**	Units:	**mg/L**	Prep Date:	**8/3/2015**	RunNo:	**9986**
Client ID:	**BatchQC**	Batch ID:	**5873**	TestNo:	**E245.1 Rev3.**	**E245.1 Rev3.**		Analysis Date:	**8/4/2015**	SeqNo:	**185361**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00392	0.000250	0.004000	0	98.0	70	130	0.003940	0.509	20	

Sample ID	**MBW080415A**	SampType:	**MBLK**	TestCode:	**HG_W**	Units:	**mg/L**	Prep Date:	**8/3/2015**	RunNo:	**9986**
Client ID:	**PBW**	Batch ID:	**5873**	TestNo:	**E245.1 Rev3.**	**E245.1 Rev3.**		Analysis Date:	**8/4/2015**	SeqNo:	**185408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.000250									U

Sample ID	**LCSW080415A**	SampType:	**LCS**	TestCode:	**HG_W**	Units:	**mg/L**	Prep Date:	**8/3/2015**	RunNo:	**9986**
Client ID:	**LCSW**	Batch ID:	**5873**	TestNo:	**E245.1 Rev3.**	**E245.1 Rev3.**		Analysis Date:	**8/4/2015**	SeqNo:	**185409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00398	0.000250	0.004000	0	99.5	85	115				

Sample ID	**1507247-001HMS**	SampType:	**MS**	TestCode:	**HG_W**	Units:	**mg/L**	Prep Date:	**8/3/2015**	RunNo:	**9986**
Client ID:	**BatchQC**	Batch ID:	**5873**	TestNo:	**E245.1 Rev3.**	**E245.1 Rev3.**		Analysis Date:	**8/4/2015**	SeqNo:	**185413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00394	0.000250	0.004000	0	98.5	70	130				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R10007**

Sample ID **PBL**	SampType: **MBLK**	TestCode: **NO3-NO2_W**	Units: **mg/L**	Prep Date:	RunNo: **10007**
Client ID: **PBW**	Batch ID: **R10007**	TestNo: **E353.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185828**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	ND	0.100									U

Sample ID **LCSL**	SampType: **LCS**	TestCode: **NO3-NO2_W**	Units: **mg/L**	Prep Date:	RunNo: **10007**
Client ID: **LCSW**	Batch ID: **R10007**	TestNo: **E353.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185829**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.482	0.100	0.5000	0	96.4	80	120				

Sample ID **1507221-002GMS**	SampType: **MS**	TestCode: **NO3-NO2_W**	Units: **mg/L**	Prep Date:	RunNo: **10007**
Client ID: **SW Pit- Eff 7/28/15**	Batch ID: **R10007**	TestNo: **E353.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185841**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	2.31	0.400	0.5000	1.802	102	80	120				D

Sample ID **1507221-002GMSD**	SampType: **MSD**	TestCode: **NO3-NO2_W**	Units: **mg/L**	Prep Date:	RunNo: **10007**
Client ID: **SW Pit- Eff 7/28/15**	Batch ID: **R10007**	TestNo: **E353.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	2.48	0.400	0.5000	1.802	136	80	120	2.312	7.17	20	DS

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R9900**

Sample ID **MB-R9900** SampType: **MBLK** TestCode: **TSS_W** Units: **mg/L** Prep Date: RunNo: **9900**

Client ID: **PBW** Batch ID: **R9900** TestNo: **M2540 D-97,-** Analysis Date: **7/30/2015** SeqNo: **183852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	ND	3.00									U

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R9920**

Sample ID **1507247-001EDUP** SampType: **DUP** TestCode: **IGN_140_W** Units: **°F** Prep Date: RunNo: **9920**

Client ID: **BatchQC** Batch ID: **R9920** TestNo: **SW1010A** Analysis Date: **7/31/2015** SeqNo: **184117**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ignitability	ND	140						0	0	0	U

Qualifiers:

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R9929**

Sample ID	**MBW072915B**	SampType:	**MBLK**	TestCode:	**Cr6_W**	Units:	**µg/L**	Prep Date:		RunNo:	**9929**
Client ID:	**PBW**	Batch ID:	**R9929**	TestNo:	**M3500-Cr B-0**			Analysis Date:	**7/29/2015**	SeqNo:	**184199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	10.0									U

Sample ID	**LCSW072915B**	SampType:	**LCS**	TestCode:	**Cr6_W**	Units:	**µg/L**	Prep Date:		RunNo:	**9929**
Client ID:	**LCSW**	Batch ID:	**R9929**	TestNo:	**M3500-Cr B-0**			Analysis Date:	**7/29/2015**	SeqNo:	**184200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	97.1	10.0	100.0	0	97.1	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R9992**

Sample ID **MBW080415A**	SampType: **MBLK**	TestCode: **1664_SGT-N**	Units: **mg/L**	Prep Date:	RunNo: **9992**
Client ID: **PBW**	Batch ID: **R9992**	TestNo: **E1664A**		Analysis Date: **8/4/2015**	SeqNo: **185529**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
SGT-HEM (Non-Polar Material)	ND	2.00									U

Sample ID **LCSW080415A**	SampType: **LCS**	TestCode: **1664_SGT-N**	Units: **mg/L**	Prep Date:	RunNo: **9992**
Client ID: **LCSW**	Batch ID: **R9992**	TestNo: **E1664A**		Analysis Date: **8/4/2015**	SeqNo: **185530**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
SGT-HEM (Non-Polar Material)	148	2.00	150.0	0	98.5	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R9992**

Sample ID **MBW080415A**	SampType: **MBLK**	TestCode: **1664_OG_W**	Units: **mg/L**	Prep Date:	RunNo: **9992**
Client ID: **PBW**	Batch ID: **R9992**	TestNo: **E1664A**		Analysis Date: **8/4/2015**	SeqNo: **185526**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil & Grease)	ND	2.00									U

Sample ID **LCSW080415A**	SampType: **LCS**	TestCode: **1664_OG_W**	Units: **mg/L**	Prep Date:	RunNo: **9992**
Client ID: **LCSW**	Batch ID: **R9992**	TestNo: **E1664A**		Analysis Date: **8/4/2015**	SeqNo: **185527**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Oil & Grease)	136	2.00	150.0	0	90.8	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Original

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R9997**

Sample ID **MB080515A**	SampType: **MBLK**	TestCode: **CL_W**	Units: **mg/L**	Prep Date:	RunNo: **9997**
Client ID: **PBW**	Batch ID: **R9997**	TestNo: **M4500-C1-B-**		Analysis Date: **8/5/2015**	SeqNo: **185632**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	2.00									U

Sample ID **LCS080515A**	SampType: **LCS**	TestCode: **CL_W**	Units: **mg/L**	Prep Date:	RunNo: **9997**
Client ID: **LCSW**	Batch ID: **R9997**	TestNo: **M4500-C1-B-**		Analysis Date: **8/5/2015**	SeqNo: **185633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	97.0	2.00	100.0	0	97.0	70	130				

Sample ID **1507215-001EMS**	SampType: **MS**	TestCode: **CL_W**	Units: **mg/L**	Prep Date:	RunNo: **9997**
Client ID: **BatchQC**	Batch ID: **R9997**	TestNo: **M4500-C1-B-**		Analysis Date: **8/5/2015**	SeqNo: **185635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	333	2.00	100.0	235.9	97.0	70	130				

Sample ID **1507215-001EMSD**	SampType: **MSD**	TestCode: **CL_W**	Units: **mg/L**	Prep Date:	RunNo: **9997**
Client ID: **BatchQC**	Batch ID: **R9997**	TestNo: **M4500-C1-B-**		Analysis Date: **8/5/2015**	SeqNo: **185636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	332	2.00	100.0	235.9	96.0	70	130	332.9	0.301	20	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1507221**

06-Aug-15

Client: HDR / LMS

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R9999**

Sample ID **PBL150804A**	SampType: **MBLK**	TestCode: **TKN_W**	Units: **mg/L**	Prep Date:	RunNo: **9999**
Client ID: **PBW**	Batch ID: **R9999**	TestNo: **E351.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	0.400									U

Sample ID **LCSL150804A**	SampType: **LCS**	TestCode: **TKN_W**	Units: **mg/L**	Prep Date:	RunNo: **9999**
Client ID: **LCSW**	Batch ID: **R9999**	TestNo: **E351.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	2.90	0.400	3.000	0	96.6	80	120				

Sample ID **1507221-002GMS**	SampType: **MS**	TestCode: **TKN_W**	Units: **mg/L**	Prep Date:	RunNo: **9999**
Client ID: **SW Pit- Eff 7/28/15**	Batch ID: **R9999**	TestNo: **E351.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	4.04	0.400	3.000	1.020	101	80	120				

Sample ID **1507221-002GMSD**	SampType: **MSD**	TestCode: **TKN_W**	Units: **mg/L**	Prep Date:	RunNo: **9999**
Client ID: **SW Pit- Eff 7/28/15**	Batch ID: **R9999**	TestNo: **E351.2 Rev2.**		Analysis Date: **8/5/2015**	SeqNo: **185679**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	3.95	0.400	3.000	1.020	97.6	80	120	4.039	2.30	20	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

American Analytical Laboratories
56 Toledo Street
Farmingdale, NY 11735
Attn To : Lori Beyer
Collected :7/28/2015 2:50:00 PM
Received :7/29/2015 1:25:00 PM
Collected By CLIENT

1507221-002I

Lab No. : 1507K99-001A
Client Sample ID: SW PIT-EFF 7/28/15

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SM5210B Prep Method: SM5210B Prep Date: 7/30/2015 9:00:23 AM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Carbonaceous Biological Oxygen Demand	< 2		1	mg/L	07/30/2015 9:45 AM	Container-01 of 01

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Connor K. Dunkum
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 8/5/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **AMAN-ECO** Date and Time Received: **7/29/2015 1:25:00 PM**

Work Order Number: **1507K99** RcptNo: **1** Received by **Jaclyn Kuri**

Completed by: Jaclyn Kuri Reviewed by: Connor K. Durkin

Completed Date: 7/29/2015 1:52:06 PM Reviewed Date: 8/5/2015 1:29:19 PM

Carrier name: Client

Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐		
Is it clear what analyses were requested?	Yes ☑	No ☐		
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present	☑
Samples in proper container/bottle?	Yes ☑	No ☐		
Were correct preservatives used and noted?	Yes ☑	No ☐	NA	☐
Preservative added to bottles:				
Sample Condition?	Intact ☑	Broken ☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
Were container labels complete (ID, Pres, Date)?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Was an attempt made to cool the samples?	Yes ☑	No ☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	NA	☐
Response when temperature is outside of range:				
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	To	3.8 °
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials	☑
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA	☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water	☐
Are Samples considered acceptable?	Yes ☑	No ☐		
Custody Seals present?	Yes ☐	No ☑		
Airbill or Sticker?	Air Bil ☐	Sticker ☐	Not Present	☑
Airbill No:				

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1507K99

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

CHAIN OF CUSTODY RECORD

Omega COCID 413	PAGE: 1	OF: 1

ADDRESS
American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100
FAX: (631) 454-8027
Website: www.American-Analytical.com

SUB CONTRATOR: **PACE ANALYTICAL** COMPANY: **Pace Analytical Services**

ADDRESS: **575 Broad Hollow Road**

CITY, STATE, ZIP: **Melville, NY 11747**

PHONE: **(631) 694-3040** FAX: **(631) 420-8436** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:
CBOD

ITEM #	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: M5210 B	COMMENTS: Methanol Preserved Weights, HOT Sample Notation, Additional Sample Description, etc
1	1507221-002I	SW Pit- Eff 7/28/15	500ML PU	Liquid	7/28/2015 2:50:00 PM	1	√	1507K99-001A

3.8°C

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	7-29-15	1325		7/29/15	1325
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ RUSH Next 3D ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool ? _____
Comments: _____

NYC Environmental Protection

Emily Lloyd
Commissioner

John G. Petito, P.E.
Acting
Deputy Commissioner

Bureau of Wastewater Treatment
96-05 Horace Harding Expressway – 2nd Floor
Corona, NY 11368

Tel. (718) 595-5046
Fax (718) 595-6950

September 3, 2015

Henningson, Durham & Richardson
Architecture and Engineering, P.C.
1 International Boulevard, 10th Floor
Suite 1000
Mahwah, NJ 07495-0027
Attn: Michael P. Musso, P.E.

Re: Groundwater Discharge, Lycee Francais de New York, File # C-3274

Dear Mr. Musso:

This Letter of Approval is an extension of the Letter of Approval issued on November 3, 2014.

This is in response to the August 27, 2015 submission requesting permission to discharge up to **6,000 gallons per day (gpd)** of groundwater generated at 505 East 75th Street, New York, NY 10021 (under a New York State Department of Environmental Conservation Site Management Plan). The groundwater will be treated through bag filters and granular activated carbon units, per provided schematic and information, before discharging to the on-site combined sewer at the above mentioned property. The sewer leads to the combined sewer located at 75th Street between York Avenue and the FDR Drive in New York, NY.

Based upon the information, schematic and analytical data submitted, you are hereby conditionally authorized, to discharge up to 6,000 gpd of the groundwater, treated through the above system, per provided schematic and information, as specified in your submissions, **for a period of one year**, to the combined sewer at the above mentioned location. **This Letter of Approval shall expire at midnight on September 2, 2016.**

This conditional approval, however, is subject to your obtaining a groundwater discharge Approval, specifying allowable flow rates, from the Chief of Permitting and Compliance, Bureau of Water and Sewer Operations, if discharges are to exceed 10,000 gpd. You are also required to follow manufacturer specifications for the operation and maintenance of the selected equipment. **This Letter of Approval is contingent upon the permittee's compliance with any other Federal, State or Local laws applicable to the permitted activity.**

Under no circumstances shall muddy groundwater be discharged into the public sewer.

Payment shall be made to and permit obtained from the Bureau of Customer Service for groundwater discharge into the New York City Wastewater System in accordance with the Water and Wastewater Rate Schedule established by the New York City Water Board.

You are required to hold the groundwater to the maximum extent practicable during heavy wet weather events. Refer to File # C-3274 in any correspondence to this office.

This Letter of Approval is an Order of the Commissioner of the Department of Environmental Protection. Please be advised that failure to comply with this Letter of Approval may result in the issuance of Notices of Violation (returnable to the New York City Environmental Control Board) and/or revocation of the Letter of Approval. Notices of Violation carry penalties of up to $10,000 a day, per violation.

If you have any questions concerning this matter, please contact Sean Hulbert, Assistant Chemical Engineer, at (718) 595-4715.

Sincerely,

Frances Leung, P.E., Chief
Industrial Inspections and
Permitting Section

August 12, 2016
File: 147 77030

Ms. Frances Leung, P.E.
New York City Department of Environmental Protection
Division of Pollution Control and Monitoring
Industrial Pretreatment Program Inspection and Permit Section
96-05 Horace Harding Expressway, 1st Floor
Corona, New York 11368

Re: NYCDEP Discharge Permit Renewal – Water Treatment System
505 East 75th Street
New York, New York 10021
Lycee Francais de New York, DEP File Case # C-3274

Dear Ms. Leung:

This letter was prepared by HDR on behalf of Lycee Francais de New York to request a **one year renewal** of the existing NYCDEP Discharge Permit for the above-referenced project. Enclosed please find a data table with the laboratory results from recent groundwater treatment system effluent sampling (July 11, 2016). As illustrated on the table, all analytical results are non-detect and/or within NYCDEP effluent limitations for discharges to Sanitary or Combined Sewers. A copy of the laboratory report is enclosed.

On behalf of Lycee Francais de New York, HDR continues to coordinate the operation, maintenance, and monitoring (OM&M) of the water treatments system (i.e., tracking flow, carbon usage). One carbon change-out has occurred in the past 12 months, based on carbon use calculations and observed flows throughout the year. New granular activated carbon was most recently installed in July 2016. None of the conditions listed for the letters of approval issued on September 3, 2015 and October 5, 2015 have changed. Note that the treated groundwater will continue to discharge to the combined sewer located at East 75th Street, between York Avenue and the FDR Drive, in Manhattan. Depending on actual flow conditions, it is anticipated that one carbon change-out will occur in the next twelve months.

Please call if you have any questions or require any additional information.

Sincerely,

Michael P. Musso, P.E.

Michael P. Musso, P.E.

Attachments

cc: Terrence Kennedy, Lycee Francais

1 International Boulevard, 10th Floor , Suite 1000 , Mahwah , NJ 07495-0027 hdrinc.com
(201) 335-9300

Lycee Francais de New York
East 75th/East 76th Street
New York, New York 10021
File Case # C-3274

Analyte	Soutwest Pit Effluent 7/11/2016 Water	Units	NYCDEP Limitations for Effluent to Sanitary or Combined Sewers
Non-polar material	not detected	mg/L	50
pH (field reading 7/11/16)	8.9 (field)	pH units	5 - 12
Temperature (field reading 7/11/16)	77.36 (field)	Deg F	< 150 F
Flash Point	not detected	Deg F	> 140 F
Cadmium	not detected	mg/L	2
Chromium (VI)	not detected	mg/L	5
Copper	not detected	mg/L	5
Lead	not detected	mg/L	2
Mercury	not detected	mg/L	0.05
Nickel	not detected	mg/L	3
Zinc	not detected	mg/L	5
Benzene	not detected	ppb	134
Carbon tetrachloride	not detected	ppb	none
Chloroform	not detected	ppb	none
1,4-Dichlorobenzene	not detected	ppb	none
Ethylbenzene	not detected	ppb	380
MTBE (Methyl tert-butyl ether)	not detected	ppb	50
Naphthalene	not detected	ppb	47
Phenol	not detected	ppb	none
Tetrachloroethylene (PERC)	not detected	ppb	20
Toluene	not detected	ppb	74
1,2,4-Trichlorobenzene	not detected	ppb	none
1,1,1-Trichloroethane	not detected	ppb	none
Xylenes (Total)	not detected	ppb	74
PCBs (Total) *	not detected	ppb	1
Total Suspended Solids (TSS)	123	mg/L	350
CBOD *	< 2	mg/L	none
Chloride *	600	mg/L	none
Total Nitrogen *	0.273	ppm	none
Total Solids *	1460	mg/L	none

* Observed flow << 10,000 gpd, therefore, sampling of this parameter was not required.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

July 25, 2016

Carol Zurlo
HDR
One International Blvd., 10 Floor
Mahwah, NJ 07495
TEL: (201) 335-9412
FAX (845) 735-7466

RE: LFNY - East 75th Street, NYC, NY Order No.: 1607057

Dear Carol Zurlo:

American Analytical Laboratories, LLC. received 2 sample(s) on 7/12/2016 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lab Director
American Analytical Laboratories, LLC.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: **1607057**

25-Jul-16

CLIENT: HDR

Project: LFNY - East 75th Street, NYC, NY

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1607057-001A	SW Pit- Inf 7/11/16		7/11/2016 11:20:00 AM	7/12/2016 10:30:00 AM	Liquid
1607057-002A	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid
1607057-002B	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid
1607057-002C	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid
1607057-002D	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid
1607057-002E	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid

Field Name	Field Value	Field Units	Field Analyst	Field Date
pH, SM4500H+ B	8.9	S.U.		
Temperature, SM 2550B	25.2	deg C		

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1607057-002F	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid
1607057-002G	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid
1607057-002H	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid
1607057-002I	SW Pit- Eff 7/11/16		7/11/2016 1:15:00 PM	7/12/2016 10:30:00 AM	Liquid

CHAIN OF CUSTODY

AMERICAN ANALYTICAL LABORATORIES

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS
NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information

Company Name: HDR
Address: 1 INTERNATIONAL BLVD 10 FLOOR
City: MAHWAH State: NJ Zip: 07495
Project Contact: CAROL ZURLO
Phone #: 201-335 9451
E-mail: CAROL.ZURLO@HDRINC.COM

Project Information

Project Name: LFNY
Street: EAST 75 STREET
City: NYC State: Zip:
Project #: 10016757
Sampler's Name / Company: DONALD KASSELL HDR
Sampler's Signature:

Analytical Information

PCE TCE NYCDEP

LAB SAMPLE # (LAB USE ONLY)	Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	NONE	HCl	NaOH	HNO_3	H_2SO_4	$NaHSO_4$	MeOH	OTHER	Analytical Information
1607057-001	SW PIT INF 7/11/16	G	L	7/11/16	1170	G	2		2							2
1607057-002	SW PIT EFF 7/11/16	G	L		1235		2		2							2
	SW PIT EFF 7/11/16	G	L		1315		5	1		2						

Sample Information | Sample Collection | Sample Containers (Number of Each Preserved Bottle)

Turnaround Time (Business Days)

- [X] Standard 7-10 Business Days
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *RUSH*

SAMPLE TYPE

G = Grab
C = Composite
B = Blank

MATRIX CODES

L = Liquid
S = Soil
O = Oil
W = Wipe
PC = Paint Chip
SL = Sludge
SD = Solid
M = Miscellaneous

Comments / Remarks

EFFLUENT PH 8.9
TEMP 25.2°C

Cooler Temp: 0.9°C

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	7/11/16 1400	DON KASSELL	[signature]	7/12/16 10:30	P MASI
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

AMERICAN ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD

Omega COCID 673 | PAGE: 1 | OF: 1

ACCREDITED IN ACCORDANCE WITH nelac

ADDRESS
American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100
FAX: (631) 454-8027
Website: www.American-Analytical.com

SUB CONTRATOR: **PACE ANALYTICAL** COMPANY: **Pace Analytical Services**

ADDRESS: **575 Broad Hollow Road**

CITY, STATE, ZIP: **Melville, NY 11747**

PHONE: **(631) 694-3040** FAX: **(631) 420-8436** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:
CBOD

ITEM	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: M5210 B	COMMENTS (Methanol Preserved Weights, HOT Sample Notation, Additional Sample Description, etc)
1	1607057-002I	SW Pit- Eff 7/11/16	500ML PU	Liquid	7/11/2016 1:15:00 PM	1	√	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	7/12/16	1320	[signature]	7/12/16	1320
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 2.8 °C Attempt to Cool ? _____

Comments: _____

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Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **HDR - NJ** Work Order Number: **1607057** RcptNo: **1**

Logged by:	**Lori Beyer**	**7/12/2016 10:30:00 AM**	Lori Beyer
Completed By:	**Lori Beyer**	**7/12/2016 11:48:28 AM**	Lori Beyer
Reviewed By:	**Karen Kelly**	**7/12/2016**	Karen Kelly

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx
   Tracking No.: 803741769285

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☑ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By

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TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Case Narrative

WO#: **1607057**
Date: **7/25/2016**

CLIENT: HDR
Project: LFNY - East 75th Street, NYC, NY

Samples were preserved and analyzed using the methods outlined in 40 CFR Part 136 for all parameters with the exception of MTBE. MTBE was analyzed by SW846 Method 8260 since this compound is not listed as an approved NYSDOH Certifiable parameter in 40 CFR methodologies. Sample "System Discharge" was received with the proper preservation requirements, chilled on ice and each container was properly preserved for each test required.

CBOD was subcontracted to a NYSDOH ELAP Certified laboratory.

pH and temperature were recorded in the field immediately after sample collection.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

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Website: www.American-Analytical.com

Definition Only

WO#: **1607057**
Date: **7/25/2016**

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports
ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accurary.
m - Analyte was manually integrated for GC/MS.
+ - Concentration exceeds regulatory level for TCLP

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Inf 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 11:20:00 AM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**E624**		Analyst: **LA**
Tetrachloroethene	86	0.20	2.0		µg/L	1	7/13/2016 7:06:00 PM
Trichloroethene	29	0.20	2.0		µg/L	1	7/13/2016 7:06:00 PM
Surr: 4-Bromofluorobenzene	101	0.20	62-132		%Rec	1	7/13/2016 7:06:00 PM
Surr: Dibromofluoromethane	103	0.20	72-131		%Rec	1	7/13/2016 7:06:00 PM
Surr: Toluene-d8	101	0.20	58-131		%Rec	1	7/13/2016 7:06:00 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**E624**		Analyst: **LA**
1,1,1-Trichloroethane	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
1,4-Dichlorobenzene	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Benzene	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Carbon tetrachloride	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Chloroform	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Ethylbenzene	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Tetrachloroethene	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Toluene	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Trichloroethene	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	7/13/2016 7:34:00 PM
Methyl tert-butyl ether	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
o-Xylene	ND	0.20	2.0	U	µg/L	1	7/13/2016 7:34:00 PM
Surr: 4-Bromofluorobenzene	101	0.20	62-132		%Rec	1	7/13/2016 7:34:00 PM
Surr: Dibromofluoromethane	103	0.20	72-131		%Rec	1	7/13/2016 7:34:00 PM
Surr: Toluene-d8	101	0.20	58-131		%Rec	1	7/13/2016 7:34:00 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE EPA METHOD 625			**E625**		**SW3510C**		Analyst: **MH**
1,2,4-Trichlorobenzene	ND	0.50	5.0	U	µg/L	1	7/14/2016 2:05:00 PM
Naphthalene	ND	0.50	5.0	U	µg/L	1	7/14/2016 2:05:00 PM
Phenol	ND	0.50	5.0	U	µg/L	1	7/14/2016 2:05:00 PM
Surr: 2,4,6-Tribromophenol	55.4	0	28-138		%Rec	1	7/14/2016 2:05:00 PM
Surr: 2-Fluorobiphenyl	79.7	0	20-138		%Rec	1	7/14/2016 2:05:00 PM
Surr: 2-Fluorophenol	38.7	0	11-130		%Rec	1	7/14/2016 2:05:00 PM
Surr: 4-Terphenyl-d14	28.1	0	28-141		%Rec	1	7/14/2016 2:05:00 PM
Surr: Nitrobenzene-d5	78.0	0	18-143		%Rec	1	7/14/2016 2:05:00 PM
Surr: Phenol-d6	26.4	0	11-149		%Rec	1	7/14/2016 2:05:00 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PCB'S AS AROCLORS BY EPA METHOD 608			**E608**		**SW3510C**		Analyst: **SB**
Aroclor 1016	ND	0.020	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1221	ND	0.020	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1232	ND	0.020	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1242	ND	0.020	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1248	ND	0.020	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1254	ND	0.030	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1260	ND	0.030	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1262	ND	0.030	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Aroclor 1268	ND	0.030	0.050	U	µg/L	1	7/21/2016 6:22:00 PM
Surr: DCB	62.9	0	12-143		%Rec	1	7/21/2016 6:22:00 PM
Surr: DCB	71.9	0	12-143		%Rec	1	7/21/2016 6:22:00 PM
Surr: TCX	61.6	0	17-143		%Rec	1	7/21/2016 6:22:00 PM
Surr: TCX	57.5	0	17-143		%Rec	1	7/21/2016 6:22:00 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002D		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
NON-POLAR MATERIAL BY EPA METHOD 1664A			**E1664A**				Analyst: **PAV**
SGT-HEM (Non-Polar Material)	ND	1.00	2.00	U	mg/L	1	7/15/2016 2:00:52 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002E		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
FIELD PARAMETERS			**FLD**				Analyst:
pH, SM4500H+ B	8.9				S.U.		
Temperature, SM 2550B	25.2				deg C		
CHLORIDE			**M4500-C1-B-97,-11**				Analyst: **JP**
Chloride	600	1.00	2.00		mg/L	1	7/25/2016
HEXAVALENT CHROMIUM			**M3500-CR B-09,-11**				Analyst: **PAV**
Chromium, Hexavalent	ND	2.50	10.0	U	µg/L	1	7/12/2016 12:25:52 PM
IGNITABILITY/FLASHPOINT SW-846 1010			**SW1010A**				Analyst: **STP**
Ignitability	ND	65.0	140	U	°F	1	7/20/2016 11:37:26 AM
TOTAL SOLIDS			**M2540 B-97,-11**				Analyst: **PAV**
Residue, Total	1460	2.50	2.50		mg/L	1	7/15/2016 3:00:00 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002F		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TOTAL SUSPENDED SOLIDS			**M2540 D-97,-11**				Analyst: **PAV**
Suspended Solids (Residue, Non-Filterable)	123	2.50	3.00		mg/L	1	7/15/2016 3:00:00 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002G		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
NITRATE-NITRITE AS N			**E353.2 REV2.0**				Analyst: **STP**
Nitrogen, Nitrate-Nitrite	0.273	0.0500	0.100		mg/L	1	7/20/2016 12:55:26 PM
TOTAL KJELDAHL NITROGEN			**E351.2 REV2.0**				Analyst: **STP**
Nitrogen, Kjeldahl, Total	ND	0.200	0.400	U	mg/L	1	7/20/2016 3:49:29 PM
TOTAL NITROGEN			**TNITRO**				Analyst: **STP**
Total Nitrogen	0.273	0.100	0.400	J	ppm	1	7/20/2016 4:05:17 PM
Kjeldahl Nitrogen	ND	0.200	0.400	U	ppm	1	7/20/2016 4:05:17 PM
Nitrate, Nitrogen	0.273	0.0500	0.100		ppm	1	7/20/2016 4:05:17 PM
Nitrite, Nitrogen	ND	0.0500	0.100	U	ppm	1	7/20/2016 4:05:17 PM

American Analytical Laboratories, LLC.

Date: *25-Jul-16*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit- Eff 7/11/16
Lab Order:	1607057	**Collection Date:**	7/11/2016 1:15:00 PM
Project:	LFNY - East 75th Street, NYC, NY	**Matrix:**	LIQUID
Lab ID:	1607057-002H		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**E245.1 REV3.0**		**E245.1 REV3.0**		Analyst: **JP**
Mercury	ND	0.000150	0.000300	U	mg/L	1	7/18/2016 2:07:16 PM
TOTAL METALS			**E200.7 REV4.4**		**E200.7 REV4.4**		Analyst: **JP**
Cadmium	ND	0.00500	0.0100	U	mg/L	1	7/15/2016 10:13:41 AM
Chromium	ND	0.00500	0.0200	U	mg/L	1	7/15/2016 10:13:41 AM
Copper	ND	0.00500	0.0200	U	mg/L	1	7/15/2016 10:13:41 AM
Lead	ND	0.00500	0.0150	U	mg/L	1	7/15/2016 10:13:41 AM
Nickel	ND	0.00500	0.0200	U	mg/L	1	7/15/2016 10:13:41 AM
Zinc	ND	0.00500	0.0200	U	mg/L	1	7/15/2016 10:13:41 AM

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested

American Analytical Laboratories
56 Toledo Street
Farmingdale, NY 11735
Attn To : Lori Beyer

Collected :7/11/2016 1:15:00 PM
Received :7/12/2016 1:20:00 PM
Collected By CLIENT

1607057-002I

Lab No. : 1607865-001A
Client Sample ID: SW-PIT-EFF 7/11/16

Sample Information:
Type : Aqueous

Origin:

Analytical Method: SM22 5210B Prep Method: SM5210B Prep Date: 7/12/2016 3:00:07 PM Analyst: VaS

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Carbonaceous Biological Oxygen Demand	< 2		1	mg/L	07/12/2016 3:35 PM	Container-01 of 01

NOTES:
Start date 7/12/16 @3:00pm. End date 7/17/16 @ 10:55am.

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
c = Calibration acceptability criteria exceeded for this analyte.Value estimated
H = Received/analyzed outside of analytical holding time
J = Estimated value - below calibration range
M-, M+ = Matrix Spike recovery below / above control limit
N = Indicates presumptive evidence of compound
P = Duplicate RPD outside of control limit
r = Reporting limit below calibration range. Value estimated.
S = Recovery outside of control limits for this analyte
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Date Reported : 7/19/2016

Client Services Manager : Jennifer Aracri

Test results meet the requirements of NELAC unless otherwise noted.

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **AMAN-ECO** Date and Time Received: **7/12/2016 1:20:00 PM**

Work Order Number: **1607865** RcptNo: **1** Received by **John Lagula**

Completed by: Jaclyn Kiri Reviewed by:

Completed Date: 7/12/2016 1:28:26 PM Reviewed Date: 7/19/2016 4:05:53 PM

Carrier name: Client

Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐		
Is it clear what analyses were requested?	Yes ☑	No ☐		
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present	☑
Samples in proper container/bottle?	Yes ☑	No ☐		
Were correct preservatives used and noted?	Yes ☑	No ☐	NA	☐
Preservative added to bottles:				
Sample Condition?	Intact ☑	Broken ☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
Were container labels complete (ID, Pres, Date)?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Was an attempt made to cool the samples?	Yes ☑	No ☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	NA	☐
Response when temperature is outside of range:				
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	To	2.8 °
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials	☑
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA	☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water	☐
Are Samples considered acceptable?	Yes ☑	No ☐		
Custody Seals present?	Yes ☐	No ☑		
Airbill or Sticker?	Air Bil ☐	Sticker ☐	Not Present	☑
Airbill No:				

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1607865

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

AMERICAN ANALYTICAL LABORATORIES

ACCREDITED IN ACCORDANCE WITH nelac

CHAIN OF CUSTODY RECORD

Omega COCID 673 | PAGE: 1 | OF: 1

ADDRESS
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56 Toledo Street
Farmingdale, New York 11735
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SUB CONTRATOR: **PACE ANALYTICAL** COMPANY: **Pace Analytical Services**

ADDRESS: **575 Broad Hollow Road**

CITY, STATE, ZIP: **Melville, NY 11747**

PHONE: **(631) 694-3040** FAX: **(631) 420-8436** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:
CBOD

ITEM	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: M5210 B	COMMENTS: Methanol Preserved Weights, HOT Sample Notation, Additional Sample Description, etc
1	1607057-002I	SW Pit- Eff 7/11/16	500ML PU	Liquid	7/11/2016 1:15:00 PM	1	√	1607865

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	7/12/16	1320	[signature]	7/12/16	1320
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 2.8 °C Attempt to Cool ? _____

Comments: _____

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9906**

Sample ID: **LCS-9906** SampType: **LCS** TestCode: **624_W** Units: **µg/L** Prep Date: **7/13/2016** RunNo: **17479**

Client ID: **LCSW** Batch ID: **9906** TestNo: **E624** **E624** Analysis Date: **7/13/2016** SeqNo: **319347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	41	2.0	50.00	0	81.5	54	134				
1,1,2,2-Tetrachloroethane	39	2.0	50.00	0	77.4	38	133				
1,1,2-Trichloroethane	42	2.0	50.00	0	83.6	53	132				
1,1-Dichloroethane	42	2.0	50.00	0	84.4	46	138				
1,1-Dichloroethene	39	2.0	50.00	0	77.6	47	137				
1,2-Dichlorobenzene	41	2.0	50.00	0	81.1	47	134				
1,2-Dichloroethane	46	2.0	50.00	0	92.2	52	136				
1,2-Dichloropropane	43	2.0	50.00	0	86.0	47	145				
1,3-Dichlorobenzene	40	2.0	50.00	0	80.2	47	136				
1,4-Dichlorobenzene	40	2.0	50.00	0	80.3	44	134				
2-Chloroethyl vinyl ether	ND	2.0	50.00	0	0	40	130				SU
Benzene	44	2.0	50.00	0	88.3	51	138				
Bromodichloromethane	44	2.0	50.00	0	87.2	48	143				
Bromoform	39	2.0	50.00	0	77.2	34	138				
Bromomethane	38	2.0	50.00	0	76.3	28	152				
Carbon tetrachloride	41	2.0	50.00	0	81.4	52	138				
Chlorobenzene	40	2.0	50.00	0	80.8	48	133				
Chloroethane	36	2.0	50.00	0	72.4	51	147				
Chloroform	46	2.0	50.00	0	91.2	54	136				
Chloromethane	41	2.0	50.00	0	81.1	58	146				
cis-1,3-Dichloropropene	44	2.0	50.00	0	88.5	52	138				
Dibromochloromethane	45	2.0	50.00	0	89.5	53	131				
Ethylbenzene	41	2.0	50.00	0	82.6	53	134				
Methylene chloride	18	4.0	50.00	0	35.4	13	100				B
Tetrachloroethene	32	2.0	50.00	0	63.3	44	126				
Toluene	43	2.0	50.00	0	85.3	54	134				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9906**

Sample ID: **LCS-9906** SampType: **LCS** TestCode: **624_W** Units: **µg/L** Prep Date: **7/13/2016** RunNo: **17479**

Client ID: **LCSW** Batch ID: **9906** TestNo: **E624** **E624** Analysis Date: **7/13/2016** SeqNo: **319347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	40	2.0	50.00	0	79.8	44	138				
trans-1,3-Dichloropropene	43	2.0	50.00	0	86.9	46	137				
Trichloroethene	38	2.0	50.00	0	75.4	52	134				
Trichlorofluoromethane	39	2.0	50.00	0	78.8	56	151				
Vinyl chloride	40	2.0	50.00	0	79.3	55	151				
Xylenes, Total	120	6.0	50.00	0	240	35	125				S
Acetone	23	4.0	50.00	0	46.1	45	120				B
m,p-Xylene	80	4.0	100.0	0	80.3	35	125				
Methyl tert-butyl ether	41	2.0	50.00	0	81.7	52	122				
o-Xylene	40	2.0	50.00	0	79.1	40	120				
Surr: 4-Bromofluorobenzene	49		50.00		97.9	62	132				
Surr: Dibromofluoromethane	57		50.00		115	72	131				
Surr: Toluene-d8	51		50.00		102	58	131				

Sample ID: **MB-9906** SampType: **MBLK** TestCode: **624_W** Units: **µg/L** Prep Date: **7/13/2016** RunNo: **17479**

Client ID: **PBW** Batch ID: **9906** TestNo: **E624** **E624** Analysis Date: **7/13/2016** SeqNo: **319348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	2.0									U
1,1,2,2-Tetrachloroethane	ND	2.0									U
1,1,2-Trichloroethane	ND	2.0									U
1,1-Dichloroethane	ND	2.0									U
1,1-Dichloroethene	ND	2.0									U
1,2-Dichlorobenzene	ND	2.0									U
1,2-Dichloroethane	ND	2.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9906**

Sample ID: **MB-9906**	SampType: **MBLK**	TestCode: **624_W**	Units: **µg/L**	Prep Date: **7/13/2016**	RunNo: **17479**
Client ID: **PBW**	Batch ID: **9906**	TestNo: **E624**	**E624**	Analysis Date: **7/13/2016**	SeqNo: **319348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	2.0									U
1,3-Dichlorobenzene	ND	2.0									U
1,4-Dichlorobenzene	ND	2.0									U
2-Chloroethyl vinyl ether	ND	2.0									U
Benzene	ND	2.0									U
Bromodichloromethane	ND	2.0									U
Bromoform	ND	2.0									U
Bromomethane	ND	2.0									U
Carbon tetrachloride	ND	2.0									U
Chlorobenzene	ND	2.0									U
Chloroethane	ND	2.0									U
Chloroform	ND	2.0									U
Chloromethane	ND	2.0									U
cis-1,3-Dichloropropene	ND	2.0									U
Dibromochloromethane	ND	2.0									U
Ethylbenzene	ND	2.0									U
Methylene chloride	6.0	4.0									
Tetrachloroethene	ND	2.0									U
Toluene	ND	2.0									U
trans-1,2-Dichloroethene	ND	2.0									U
trans-1,3-Dichloropropene	ND	2.0									U
Trichloroethene	ND	2.0									U
Trichlorofluoromethane	ND	2.0									U
Vinyl chloride	ND	2.0									U
Xylenes, Total	ND	6.0									U
Acetone	2.6	4.0									J

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9906**

Sample ID: **MB-9906**	SampType: **MBLK**	TestCode: **624_W**	Units: **µg/L**	Prep Date: **7/13/2016**	RunNo: **17479**
Client ID: **PBW**	Batch ID: **9906**	TestNo: **E624**	**E624**	Analysis Date: **7/13/2016**	SeqNo: **319348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	ND	4.0									U
Methyl tert-butyl ether	ND	2.0									U
o-Xylene	ND	2.0									U
Surr: 4-Bromofluorobenzene	50		50.00		99.5	62	132				
Surr: Dibromofluoromethane	54		50.00		108	72	131				
Surr: Toluene-d8	50		50.00		101	58	131				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **MB-9910**	SampType: **MBLK**	TestCode: **8270_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17468**
Client ID: **PBW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	ND	5.0									U
1,2,4-Trichlorobenzene	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
2,4,5-Trichlorophenol	ND	5.0									U
2,4,6-Trichlorophenol	ND	5.0									U
2,4-Dichlorophenol	ND	5.0									U
2,4-Dimethylphenol	ND	10									U
2,4-Dinitrophenol	ND	10									U
2,4-Dinitrotoluene	ND	5.0									U
2,6-Dinitrotoluene	ND	5.0									U
2-Chloronaphthalene	ND	5.0									U
2-Chlorophenol	ND	5.0									U
2-Methylnaphthalene	ND	5.0									U
2-Methylphenol	ND	5.0									U
2-Nitroaniline	ND	5.0									U
2-Nitrophenol	ND	10									U
3+4-Methylphenol	ND	5.0									U
3-Nitroaniline	ND	10									U
4,6-Dinitro-2-methylphenol	ND	10									U
4-Bromophenyl phenyl ether	ND	5.0									U
4-Chloro-3-methylphenol	ND	5.0									U
4-Chloroaniline	ND	5.0									U
4-Chlorophenyl phenyl ether	ND	5.0									U
4-Nitroaniline	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **MB-9910**	SampType: **MBLK**	TestCode: **8270_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17468**
Client ID: **PBW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	10									U
Acenaphthene	ND	5.0									U
Acenaphthylene	ND	5.0									U
Acetophenone	ND	5.0									U
Aniline	ND	5.0									U
Anthracene	ND	5.0									U
Azobenzene	ND	5.0									U
Benzo(a)anthracene	ND	5.0									U
Benzo(a)pyrene	ND	5.0									U
Benzo(b)fluoranthene	ND	5.0									U
Benzo(g,h,i)perylene	ND	5.0									U
Benzo(k)fluoranthene	ND	5.0									U
Benzoic acid	ND	10									U
Benzyl alcohol	ND	5.0									U
Bis(2-chloroethoxy)methane	ND	5.0									U
Bis(2-chloroethyl)ether	ND	5.0									U
Bis(2-chloroisopropyl)ether	ND	5.0									U
Bis(2-ethylhexyl)phthalate	ND	10									U
Butyl benzyl phthalate	ND	10									U
Carbazole	ND	5.0									U
Chrysene	ND	5.0									U
Di-n-butyl phthalate	ND	5.0									U
Di-n-octyl phthalate	ND	5.0									U
Dibenzo(a,h)anthracene	ND	5.0									U
Dibenzofuran	ND	5.0									U
Diethyl phthalate	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **MB-9910**	SampType: **MBLK**	TestCode: **8270_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17468**
Client ID: **PBW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethyl phthalate	ND	5.0									U
Fluoranthene	ND	5.0									U
Fluorene	ND	5.0									U
Hexachlorobenzene	ND	5.0									U
Hexachlorobutadiene	ND	5.0									U
Hexachlorocyclopentadiene	ND	10									U
Hexachloroethane	ND	5.0									U
Indeno(1,2,3-c,d)pyrene	ND	5.0									U
Isophorone	ND	5.0									U
N-Nitrosodi-n-propylamine	ND	5.0									U
N-Nitrosodimethylamine	ND	5.0									U
N-Nitrosodiphenylamine	ND	5.0									U
Naphthalene	ND	5.0									U
Nitrobenzene	ND	5.0									U
Parathion	ND	10									U
Pentachlorophenol	ND	10									U
Phenanthrene	ND	5.0									U
Phenol	ND	5.0									U
Pyrene	ND	5.0									U
Pyridine	ND	5.0									U
Surr: 2,4,6-Tribromophenol	27		40.00		68.5	28	138				
Surr: 2-Fluorobiphenyl	16		20.00		79.4	20	138				
Surr: 2-Fluorophenol	20		40.00		49.7	11	130				
Surr: 4-Terphenyl-d14	18		20.00		87.5	28	141				
Surr: Nitrobenzene-d5	15		20.00		75.5	18	143				
Surr: Phenol-d6	12		40.00		29.7	11	149				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **MB-9910**	SampType: **MBLK**	TestCode: **8270_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17468**
Client ID: **PBW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319253**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: **LCS-9910**	SampType: **LCS**	TestCode: **8270_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17468**
Client ID: **LCSW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	38	5.0	40.00	0	94.0	47	124				
1,2,4-Trichlorobenzene	36	5.0	40.00	0	90.6	20	128				
1,2-Dichlorobenzene	37	5.0	40.00	0	91.5	23	130				
1,3-Dichlorobenzene	35	5.0	40.00	0	86.9	20	131				
1,4-Dichlorobenzene	36	5.0	40.00	0	90.0	20	134				
2,4,5-Trichlorophenol	ND	5.0		0	0	47	120				U
2,4,6-Trichlorophenol	39	5.0	40.00	0	96.8	37	137				
2,4-Dichlorophenol	36	5.0	40.00	0	90.5	34	121				
2,4-Dimethylphenol	36	10	40.00	0	91.2	20	120				
2,4-Dinitrophenol	29	10	40.00	0	73.2	12	141				
2,4-Dinitrotoluene	37	5.0	40.00	0	92.6	28	149				
2,6-Dinitrotoluene	33	5.0	40.00	0	83.3	34	138				
2-Chloronaphthalene	38	5.0	40.00	0	94.6	37	140				
2-Chlorophenol	35	5.0	40.00	0	87.8	29	122				
2-Methylnaphthalene	ND	5.0		0	0	47	120				U
2-Methylphenol	ND	5.0		0	0	25	120				U
2-Nitroaniline	ND	5.0		0	0	47	128				U
2-Nitrophenol	35	10	40.00	0	87.7	32	124				
3+4-Methylphenol	ND	5.0		0	0	10	130				U
3-Nitroaniline	ND	10		0	0	38	120				U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **LCS-9910**	SampType: **LCS**	TestCode: **8270_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17468**
Client ID: **LCSW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	31	10	40.00	0	77.3	14	140				
4-Bromophenyl phenyl ether	37	5.0	40.00	0	92.0	38	140				
4-Chloro-3-methylphenol	36	5.0	40.00	0	90.8	28	124				
4-Chloroaniline	ND	5.0		0	0	15	102				U
4-Chlorophenyl phenyl ether	38	5.0	40.00	0	95.7	39	138				
4-Nitroaniline	ND	5.0		0	0	36	125				U
4-Nitrophenol	17	10	40.00	0	41.4	10	110				
Acenaphthene	37	5.0	40.00	0	93.7	34	144				
Acenaphthylene	38	5.0	40.00	0	94.6	32	144				
Acetophenone	36	5.0	40.00	0	90.1	40	120				
Aniline	ND	5.0		0	0	20	120				U
Anthracene	37	5.0	40.00	0	93.0	34	141				
Azobenzene	39	5.0	40.00	0	98.1	40	120				
Benzo(a)anthracene	40	5.0	40.00	0	99.5	36	143				
Benzo(a)pyrene	39	5.0	40.00	0	97.0	32	137				
Benzo(b)fluoranthene	38	5.0	40.00	0	94.3	38	141				
Benzo(g,h,i)perylene	39	5.0	40.00	0	96.7	29	147				
Benzo(k)fluoranthene	41	5.0	40.00	0	102	38	141				
Benzoic acid	13	10	40.00	0	31.3	10	110				
Benzyl alcohol	ND	5.0		0	0	25	115				U
Bis(2-chloroethoxy)methane	36	5.0	40.00	0	90.3	29	135				
Bis(2-chloroethyl)ether	45	5.0	40.00	0	113	29	144				
Bis(2-chloroisopropyl)ether	38	5.0	40.00	0	94.4	29	141				
Bis(2-ethylhexyl)phthalate	40	10	40.00	0	99.6	20	153				
Butyl benzyl phthalate	43	10	40.00	0	107	29	149				
Carbazole	ND	5.0		0	0	40	125				U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **LCS-9910** SampType: **LCS** TestCode: **8270_W** Units: **µg/L** Prep Date: **7/14/2016** RunNo: **17468**

Client ID: **LCSW** Batch ID: **9910** TestNo: **E625** **SW3510C** Analysis Date: **7/14/2016** SeqNo: **319271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	38	5.0	40.00	0	94.4	34	139				
Di-n-butyl phthalate	39	5.0	40.00	0	97.1	34	157				
Di-n-octyl phthalate	41	5.0	40.00	0	102	33	148				
Dibenzo(a,h)anthracene	40	5.0	40.00	0	100	36	146				
Dibenzofuran	37	5.0	40.00	0	92.7	40	120				
Diethyl phthalate	38	5.0	40.00	0	95.7	41	146				
Dimethyl phthalate	37	5.0	40.00	0	92.8	28	136				
Fluoranthene	39	5.0	40.00	0	96.5	34	144				
Fluorene	39	5.0	40.00	0	97.1	40	139				
Hexachlorobenzene	37	5.0	40.00	0	93.6	37	137				
Hexachlorobutadiene	36	5.0	40.00	0	90.7	23	138				
Hexachlorocyclopentadiene	37	10	40.00	0	91.6	12	134				
Hexachloroethane	36	5.0	40.00	0	91.0	16	135				
Indeno(1,2,3-c,d)pyrene	42	5.0	40.00	0	104	37	145				
Isophorone	36	5.0	40.00	0	90.3	30	130				
N-Nitrosodi-n-propylamine	36	5.0	40.00	0	90.5	30	136				
N-Nitrosodimethylamine	21	5.0	40.00	0	52.8	11	100				
N-Nitrosodiphenylamine	35	5.0	40.00	0	88.7	25	143				
Naphthalene	37	5.0	40.00	0	92.4	28	133				
Nitrobenzene	35	5.0	40.00	0	88.0	34	131				
Parathion	ND	10		0	0	35	125				U
Pentachlorophenol	35	10	40.00	0	88.0	15	150				
Phenanthrene	38	5.0	40.00	0	95.0	36	137				
Phenol	16	5.0	40.00	0	39.1	10	100				
Pyrene	38	5.0	40.00	0	95.5	36	146				
Pyridine	ND	5.0		0	0	11	105				U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

American Analytical Laboratories, LLC.
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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **LCS-9910**	SampType: **LCS**	TestCode: **8270_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17468**
Client ID: **LCSW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319271**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	35		40.00		88.0	28	138				
Surr: 2-Fluorobiphenyl	18		20.00		88.6	20	138				
Surr: 2-Fluorophenol	23		40.00		56.7	11	130				
Surr: 4-Terphenyl-d14	18		20.00		92.3	28	141				
Surr: Nitrobenzene-d5	17		20.00		84.6	18	143				
Surr: Phenol-d6	15		40.00		37.2	11	149				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **MB-9910**	SampType: **MBLK**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17477**
Client ID: **PBW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0									U
2,4,6-Trichlorophenol	ND	5.0									U
2,4-Dichlorophenol	ND	5.0									U
2,4-Dimethylphenol	ND	5.0									U
2,4-Dinitrophenol	ND	10									U
2,4-Dinitrotoluene	ND	5.0									U
2,6-Dinitrotoluene	ND	5.0									U
2-Chloronaphthalene	ND	5.0									U
2-Chlorophenol	ND	5.0									U
2-Nitrophenol	ND	10									U
4,6-Dinitro-2-methylphenol	ND	10									U
4-Bromophenyl phenyl ether	ND	5.0									U
4-Chloro-3-methylphenol	ND	5.0									U
4-Chlorophenyl phenyl ether	ND	5.0									U
4-Nitrophenol	ND	10									U
Acenaphthene	ND	5.0									U
Acenaphthylene	ND	5.0									U
Anthracene	ND	5.0									U
Benzo(a)anthracene	ND	5.0									U
Benzo(a)pyrene	ND	5.0									U
Benzo(b)fluoranthene	ND	5.0									U
Benzo(g,h,i)perylene	ND	5.0									U
Benzo(k)fluoranthene	ND	5.0									U
Bis(2-chloroethoxy)methane	ND	5.0									U
Bis(2-chloroethyl)ether	ND	5.0									U
Bis(2-chloroisopropyl)ether	ND	5.0									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **MB-9910** SampType: **MBLK** TestCode: **625_W** Units: **µg/L** Prep Date: **7/14/2016** RunNo: **17477**

Client ID: **PBW** Batch ID: **9910** TestNo: **E625** **SW3510C** Analysis Date: **7/14/2016** SeqNo: **319329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	ND	5.0									U
Butyl benzyl phthalate	0.16	5.0									J
Chrysene	ND	5.0									U
Di-n-butyl phthalate	ND	5.0									U
Di-n-octyl phthalate	ND	5.0									U
Dibenzo(a,h)anthracene	ND	5.0									U
Diethyl phthalate	ND	5.0									U
Dimethyl phthalate	ND	5.0									U
Fluoranthene	ND	5.0									U
Fluorene	ND	5.0									U
Hexachlorobenzene	ND	5.0									U
Hexachlorobutadiene	ND	5.0									U
Hexachlorocyclopentadiene	ND	10									U
Hexachloroethane	ND	5.0									U
Indeno(1,2,3-c,d)pyrene	ND	5.0									U
Isophorone	ND	5.0									U
N-Nitrosodi-n-propylamine	ND	5.0									U
N-Nitrosodimethylamine	ND	5.0									U
N-Nitrosodiphenylamine	ND	5.0									U
Naphthalene	ND	5.0									U
Nitrobenzene	ND	5.0									U
Pentachlorophenol	ND	10									U
Phenanthrene	ND	5.0									U
Phenol	ND	5.0									U
Pyrene	ND	5.0									U
Surr: 2,4,6-Tribromophenol	27		40.00		68.5	28	138				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **MB-9910**	SampType: **MBLK**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17477**
Client ID: **PBW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	16		20.00		79.4	20	138				
Surr: 2-Fluorophenol	20		40.00		49.7	11	130				
Surr: 4-Terphenyl-d14	18		20.00		87.5	28	141				
Surr: Nitrobenzene-d5	15		20.00		75.5	18	143				
Surr: Phenol-d6	12		40.00		29.7	11	149				

Sample ID: **LCS-9910**	SampType: **LCS**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17477**
Client ID: **LCSW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	36	5.0	40.00	0	90.6	20	128				
2,4,6-Trichlorophenol	39	5.0	40.00	0	96.8	37	137				
2,4-Dichlorophenol	36	5.0	40.00	0	90.5	34	121				
2,4-Dimethylphenol	36	5.0	40.00	0	91.2	20	120				
2,4-Dinitrophenol	29	10	40.00	0	73.2	12	141				
2,4-Dinitrotoluene	37	5.0	40.00	0	92.6	28	149				
2,6-Dinitrotoluene	33	5.0	40.00	0	83.3	34	138				
2-Chloronaphthalene	38	5.0	40.00	0	94.6	37	140				
2-Chlorophenol	35	5.0	40.00	0	87.8	29	122				
2-Nitrophenol	35	10	40.00	0	87.7	32	124				
4,6-Dinitro-2-methylphenol	31	10	40.00	0	77.3	14	140				
4-Bromophenyl phenyl ether	37	5.0	40.00	0	92.0	38	140				
4-Chloro-3-methylphenol	36	5.0	40.00	0	90.8	28	124				
4-Chlorophenyl phenyl ether	38	5.0	40.00	0	95.7	39	138				
4-Nitrophenol	17	10	40.00	0	41.4	10	110				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **LCS-9910**	SampType: **LCS**	TestCode: **625_W**	Units: **µg/L**	Prep Date: **7/14/2016**	RunNo: **17477**
Client ID: **LCSW**	Batch ID: **9910**	TestNo: **E625**	**SW3510C**	Analysis Date: **7/14/2016**	SeqNo: **319330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	37	5.0	40.00	0	93.7	34	144				
Acenaphthylene	38	5.0	40.00	0	94.6	32	144				
Anthracene	37	5.0	40.00	0	93.0	34	141				
Benzo(a)anthracene	40	5.0	40.00	0	99.5	36	143				
Benzo(a)pyrene	39	5.0	40.00	0	97.0	32	137				
Benzo(b)fluoranthene	38	5.0	40.00	0	94.3	38	141				
Benzo(g,h,i)perylene	39	5.0	40.00	0	96.7	29	147				
Benzo(k)fluoranthene	41	5.0	40.00	0	102	38	141				
Bis(2-chloroethoxy)methane	36	5.0	40.00	0	90.3	29	135				
Bis(2-chloroethyl)ether	45	5.0	40.00	0	113	29	144				
Bis(2-chloroisopropyl)ether	38	5.0	40.00	0	94.4	29	141				
Bis(2-ethylhexyl)phthalate	40	5.0	40.00	0	99.6	20	153				
Butyl benzyl phthalate	43	5.0	40.00	0	107	29	149				B
Chrysene	38	5.0	40.00	0	94.4	34	139				
Di-n-butyl phthalate	39	5.0	40.00	0	97.1	34	157				
Di-n-octyl phthalate	41	5.0	40.00	0	102	33	148				
Dibenzo(a,h)anthracene	40	5.0	40.00	0	100	36	146				
Diethyl phthalate	38	5.0	40.00	0	95.7	41	146				
Dimethyl phthalate	37	5.0	40.00	0	92.8	28	136				
Fluoranthene	39	5.0	40.00	0	96.5	34	144				
Fluorene	39	5.0	40.00	0	97.1	40	139				
Hexachlorobenzene	37	5.0	40.00	0	93.6	37	137				
Hexachlorobutadiene	36	5.0	40.00	0	90.7	23	138				
Hexachlorocyclopentadiene	37	10	40.00	0	91.6	12	134				
Hexachloroethane	36	5.0	40.00	0	91.0	16	135				
Indeno(1,2,3-c,d)pyrene	42	5.0	40.00	0	104	37	145				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9910**

Sample ID: **LCS-9910** SampType: **LCS** TestCode: **625_W** Units: **µg/L** Prep Date: **7/14/2016** RunNo: **17477**

Client ID: **LCSW** Batch ID: **9910** TestNo: **E625** **SW3510C** Analysis Date: **7/14/2016** SeqNo: **319330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isophorone	36	5.0	40.00	0	90.3	30	130				
N-Nitrosodi-n-propylamine	36	5.0	40.00	0	90.5	30	136				
N-Nitrosodimethylamine	21	5.0	40.00	0	52.8	11	100				
N-Nitrosodiphenylamine	35	5.0	40.00	0	88.7	25	143				
Naphthalene	37	5.0	40.00	0	92.4	28	133				
Nitrobenzene	35	5.0	40.00	0	88.0	34	131				
Pentachlorophenol	35	10	40.00	0	88.0	15	150				
Phenanthrene	38	5.0	40.00	0	95.0	36	137				
Phenol	16	5.0	40.00	0	39.1	10	100				
Pyrene	38	5.0	40.00	0	95.5	36	146				
Surr: 2,4,6-Tribromophenol	35		40.00		88.0	28	138				
Surr: 2-Fluorobiphenyl	18		20.00		88.6	20	138				
Surr: 2-Fluorophenol	23		40.00		56.7	11	130				
Surr: 4-Terphenyl-d14	18		20.00		92.3	28	141				
Surr: Nitrobenzene-d5	17		20.00		84.6	18	143				
Surr: Phenol-d6	15		40.00		37.2	11	149				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9946**

Sample ID: **LCSW071416A** SampType: **LCS** TestCode: **ICPSCAN_W** Units: **mg/L** Prep Date: **7/14/2016** RunNo: **17500**

Client ID: **LCSW** Batch ID: **9946** TestNo: **E200.7 Rev4. E200.7 Rev4.** Analysis Date: **7/15/2016** SeqNo: **319625**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2.03	0.0200	2.000	0	102	85	115				
Antimony	2.04	0.0200	2.000	0	102	85	115				
Arsenic	2.04	0.0250	2.000	0	102	85	115				
Barium	2.08	0.0200	2.000	0	104	85	115				
Beryllium	2.02	0.0200	2.000	0	101	85	115				
Cadmium	1.99	0.0100	2.000	0	99.6	85	115				
Calcium	1.82	0.0250	2.000	0	90.8	85	115				
Chromium	2.07	0.0200	2.000	0	104	85	115				
Cobalt	2.01	0.0200	2.000	0	100	85	115				
Copper	2.04	0.0200	2.000	0	102	85	115				
Iron	2.03	0.0200	2.000	0	102	85	115				
Lead	2.03	0.0150	2.000	0	101	85	115				
Magnesium	1.97	0.0200	2.000	0	98.5	85	115				
Manganese	1.99	0.0200	2.000	0	99.7	85	115				
Molybdenum	2.04	0.0200	2.000	0	102	85	115				
Nickel	2.02	0.0200	2.000	0	101	85	115				
Potassium	19.9	0.200	20.00	0	99.4	85	115				
Selenium	2.05	0.0250	2.000	0	103	85	115				
Silver	2.02	0.0200	2.000	0	101	85	115				
Sodium	2.09	0.0300	2.000	0	104	85	115				
Thallium	1.97	0.0150	2.000	0	98.7	85	115				
Vanadium	2.01	0.0200	2.000	0	100	85	115				
Zinc	2.02	0.0200	2.000	0	101	85	115				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9946**

Sample ID: **MBW071416A** SampType: **MBLK** TestCode: **ICPSCAN_W** Units: **mg/L** Prep Date: **7/14/2016** RunNo: **17500**

Client ID: **PBW** Batch ID: **9946** TestNo: **E200.7 Rev4.** **E200.7 Rev4.** Analysis Date: **7/15/2016** SeqNo: **319664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									U
Antimony	ND	0.0200									U
Arsenic	ND	0.0250									U
Barium	ND	0.0200									U
Beryllium	ND	0.0200									U
Cadmium	ND	0.0100									U
Calcium	ND	0.0250									U
Chromium	ND	0.0200									U
Cobalt	ND	0.0200									U
Copper	ND	0.0200									U
Iron	ND	0.0200									U
Lead	ND	0.0150									U
Magnesium	ND	0.0200									U
Manganese	ND	0.0200									U
Nickel	ND	0.0200									U
Potassium	ND	0.200									U
Selenium	ND	0.0250									U
Silver	ND	0.0200									U
Sodium	ND	0.0300									U
Thallium	ND	0.0150									U
Vanadium	ND	0.0200									U
Zinc	ND	0.0200									U

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR
Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9954**

Sample ID: **LCS-9954** SampType: **LCS** TestCode: **608_PCB_W** Units: **%Rec** Prep Date: **7/18/2016** RunNo: **17673**
Client ID: **LCSW** Batch ID: **9954** TestNo: **E608** **SW3510C** Analysis Date: **7/21/2016** SeqNo: **322899**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	0.30		0.5000		60.1	12	143				
Surr: TCX	0.29		0.5000		57.5	17	143				

Sample ID: **LCSD-9954** SampType: **LCSD** TestCode: **608_PCB_W** Units: **%Rec** Prep Date: **7/18/2016** RunNo: **17673**
Client ID: **LCSS02** Batch ID: **9954** TestNo: **E608** **SW3510C** Analysis Date: **7/21/2016** SeqNo: **322900**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	0.30		0.5000		60.6	12	143		0	0	
Surr: TCX	0.29		0.5000		57.8	17	143		0	0	

Sample ID: **MB-9954** SampType: **MBLK** TestCode: **608_PCB_W** Units: **%Rec** Prep Date: **7/18/2016** RunNo: **17673**
Client ID: **PBW** Batch ID: **9954** TestNo: **E608** **SW3510C** Analysis Date: **7/21/2016** SeqNo: **322903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: DCB	0.31		0.5000		62.5	12	143				
Surr: TCX	0.29		0.5000		58.0	17	143				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9954**

Sample ID: **LCS-9954** SampType: **LCS** TestCode: **608_PCB_W** Units: **µg/L** Prep Date: **7/18/2016** RunNo: **17672**
Client ID: **LCSW** Batch ID: **9954** TestNo: **E608** **SW3510C** Analysis Date: **7/21/2016** SeqNo: **322890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.46	0.050	0.8000	0	57.6	25	125				
Aroclor 1260	0.51	0.050	0.8000	0	64.0	28	131				
Surr: DCB	0.36		0.5000		71.3	12	143				
Surr: TCX	0.28		0.5000		56.3	17	143				

Sample ID: **LCSD-9954** SampType: **LCSD** TestCode: **608_PCB_W** Units: **µg/L** Prep Date: **7/18/2016** RunNo: **17672**
Client ID: **LCSS02** Batch ID: **9954** TestNo: **E608** **SW3510C** Analysis Date: **7/21/2016** SeqNo: **322891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.42	0.050	0.8000	0	52.4	25	125	0.4609	9.42	20	
Aroclor 1260	0.45	0.050	0.8000	0	56.3	28	131	0.5124	12.8	20	
Surr: DCB	0.34		0.5000		68.8	12	143		0	0	
Surr: TCX	0.28		0.5000		55.5	17	143		0	0	

Sample ID: **MB-9954** SampType: **MBLK** TestCode: **608_PCB_W** Units: **µg/L** Prep Date: **7/18/2016** RunNo: **17672**
Client ID: **PBW** Batch ID: **9954** TestNo: **E608** **SW3510C** Analysis Date: **7/21/2016** SeqNo: **322894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.050									U
Aroclor 1221	ND	0.050									U
Aroclor 1232	ND	0.050									U
Aroclor 1242	ND	0.050									U
Aroclor 1248	ND	0.050									U

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

Original

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9954**

Sample ID: **MB-9954**	SampType: **MBLK**	TestCode: **608_PCB_W**	Units: **µg/L**	Prep Date: **7/18/2016**	RunNo: **17672**
Client ID: **PBW**	Batch ID: **9954**	TestNo: **E608**	**SW3510C**	Analysis Date: **7/21/2016**	SeqNo: **322894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1254	ND	0.050									U
Aroclor 1260	ND	0.050									U
Aroclor 1262	ND	0.050									U
Aroclor 1268	ND	0.050									U
Surr: DCB	0.34		0.5000		68.7	12	143				
Surr: TCX	0.26		0.5000		52.1	17	143				

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **9968**

Sample ID:	**MBW071816A**	SampType:	**MBLK**	TestCode:	**HG_W**	Units:	**mg/L**	Prep Date:	**7/18/2016**	RunNo:	**17542**
Client ID:	**PBW**	Batch ID:	**9968**	TestNo:	**E245.1 Rev3.**	**E245.1 Rev3.**		Analysis Date:	**7/18/2016**	SeqNo:	**320636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.000300									U

Sample ID:	**LCSW071816A**	SampType:	**LCS**	TestCode:	**HG_W**	Units:	**mg/L**	Prep Date:	**7/18/2016**	RunNo:	**17542**
Client ID:	**LCSW**	Batch ID:	**9968**	TestNo:	**E245.1 Rev3.**	**E245.1 Rev3.**		Analysis Date:	**7/18/2016**	SeqNo:	**320637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00367	0.000300	0.004000	0	91.8	85	115				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

American Analytical Laboratories, LLC.
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Farmingdale, New York 11735
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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R17421**

Sample ID: **MB-R17421**	SampType: **MBLK**	TestCode: **Cr6_W**	Units: **µg/L**	Prep Date:	RunNo: **17421**
Client ID: **PBW**	Batch ID: **R17421**	TestNo: **M3500-Cr B-0**		Analysis Date: **7/12/2016**	SeqNo: **318475**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	10.0									U

Sample ID: **LCS-R17421**	SampType: **LCS**	TestCode: **Cr6_W**	Units: **µg/L**	Prep Date:	RunNo: **17421**
Client ID: **LCSW**	Batch ID: **R17421**	TestNo: **M3500-Cr B-0**		Analysis Date: **7/12/2016**	SeqNo: **318476**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	108	10.0	100.0	0	108	80	120				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

American Analytical Laboratories, LLC.
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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R17513**

Sample ID: **LCS-R17513**	SampType: **LCS**	TestCode: **1664_SGT-NP**	Units: **mg/L**	Prep Date:	RunNo: **17513**
Client ID: **LCSW**	Batch ID: **R17513**	TestNo: **E1664A**		Analysis Date: **7/15/2016**	SeqNo: **319790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
SGT-HEM (Non-Polar Material)	133	2.00	150.0	0	88.6	80	120				

Sample ID: **MB-R17513**	SampType: **MBLK**	TestCode: **1664_SGT-NP**	Units: **mg/L**	Prep Date:	RunNo: **17513**
Client ID: **PBW**	Batch ID: **R17513**	TestNo: **E1664A**		Analysis Date: **7/15/2016**	SeqNo: **319791**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
SGT-HEM (Non-Polar Material)	ND	2.00									U

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R17579**

Sample ID: **MB-R17579** SampType: **MBLK** TestCode: **TS_W** Units: **mg/L** Prep Date: RunNo: **17579**

Client ID: **PBW** Batch ID: **R17579** TestNo: **M2540 B-97,-** Analysis Date: **7/15/2016** SeqNo: **321236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Residue, Total	ND	2.50									U

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

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QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R17580**

Sample ID: **MB-R17580** SampType: **MBLK** TestCode: **TSS_W** Units: **mg/L** Prep Date: RunNo: **17580**

Client ID: **PBW** Batch ID: **R17580** TestNo: **M2540 D-97,-** Analysis Date: **7/15/2016** SeqNo: **321239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	ND	3.00									U

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

American Analytical Laboratories, LLC.
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Farmingdale, New York 11735
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Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R17599**

Sample ID: **LCSL** SampType: **LCS** TestCode: **NO3-NO2_W** Units: **mg/L** Prep Date: RunNo: **17599**
Client ID: **LCSW** Batch ID: **R17599** TestNo: **E353.2 Rev2.** Analysis Date: **7/20/2016** SeqNo: **321462**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.463	0.100	0.5000	0	92.6	80	120				

Sample ID: **1607057-002GMS** SampType: **MS** TestCode: **NO3-NO2_W** Units: **mg/L** Prep Date: RunNo: **17599**
Client ID: **SW Pit- Eff 7/11/16** Batch ID: **R17599** TestNo: **E353.2 Rev2.** Analysis Date: **7/20/2016** SeqNo: **321466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.747	0.100	0.5000	0.2730	94.8	80	120				

Sample ID: **1607057-002GMSD** SampType: **MSD** TestCode: **NO3-NO2_W** Units: **mg/L** Prep Date: RunNo: **17599**
Client ID: **SW Pit- Eff 7/11/16** Batch ID: **R17599** TestNo: **E353.2 Rev2.** Analysis Date: **7/20/2016** SeqNo: **321467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate-Nitrite	0.741	0.100	0.5000	0.2730	93.6	80	120	0.7470	0.806	20	

Qualifiers: S Spike Recovery outside accepted recovery limits W Sample container temperature is out of limit as specified at testcode

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R17605**

Sample ID: **LCSL** SampType: **LCS** TestCode: **TKN_W** Units: **mg/L** Prep Date: RunNo: **17605**

Client ID: **LCSW** Batch ID: **R17605** TestNo: **E351.2 Rev2.** Analysis Date: **7/20/2016** SeqNo: **321534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	2.70	0.400	3.000	0	90.0	80	120				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

Original

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1607057**

25-Jul-16

Client: HDR

Project: LFNY - East 75th Street, NYC, NY **BatchID:** **R17695**

Sample ID: **MB-R17695**	SampType: **MBLK**	TestCode: **CL_W**	Units: **mg/L**	Prep Date:	RunNo: **17695**
Client ID: **PBW**	Batch ID: **R17695**	TestNo: **M4500-C1-B-**		Analysis Date: **7/25/2016**	SeqNo: **323295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	2.00									U

Sample ID: **LCS-R17695**	SampType: **LCS**	TestCode: **CL_W**	Units: **mg/L**	Prep Date:	RunNo: **17695**
Client ID: **LCSW**	Batch ID: **R17695**	TestNo: **M4500-C1-B-**		Analysis Date: **7/25/2016**	SeqNo: **323296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	96.5	2.00	100.0	0	96.5	70	130				

Qualifiers:

S Spike Recovery outside accepted recovery limits

W Sample container temperature is out of limit as specified at testcode

NYC Environmental Protection

Vincent Sapienza, P.E.
Acting Commissioner

Pamela Elardo, P.E.
Deputy Commissioner

Bureau of Wastewater Treatment
96-05 Horace Harding Expressway – 2nd Floor
Corona, NY 11368

Tel. (718) 595-6924
Fax (718) 595-4084

August 25, 2016

Henningson, Durham & Richardson
Architecture and Engineering, P.C.
1 International Boulevard, 10th Floor
Suite 1000
Mahwah, NJ 07495-0027
Attn: Michael P. Musso, P.E.

Re: Groundwater Discharge, Lycee Francais de New York
File # C-3274

Dear Mr. Musso:

This Letter of Approval is an extension of the Letter of Approval issued on September 3, 2015.

This is in response to the August 15, 2016 submission requesting permission to discharge up to **6,000 gallons per day (gpd)** of groundwater generated at 505 East 75th Street, New York, NY 10021 (under a New York State Department of Environmental Conservation Site Management Plan). The groundwater will be treated through bag filters and granular activated carbon units, per provided schematic and information, before discharging to the on-site combined sewer at the above mentioned property. The sewer leads to the combined sewer located at 75th Street between York Avenue and the FDR Drive in New York, NY.

Based upon the information, schematic and analytical data submitted, you are hereby conditionally authorized, to discharge up to 6,000 gpd of the groundwater, treated through the above system, per provided schematic and information, as specified in your submissions, **for a period of one year**, to the combined sewer at the above mentioned location. **This Letter of Approval shall expire at midnight on August 24, 2017.**

This conditional approval, however, is subject to your obtaining a groundwater discharge Approval, specifying allowable flow rates, from the Chief of Permitting and Compliance, Bureau of Water and Sewer Operations, if discharges are to exceed 10,000 gpd. You are also required to follow manufacturer specifications for the operation and maintenance of the selected equipment. **This Letter of Approval is contingent upon the permittee's compliance with any other Federal, State or Local laws applicable to the permitted activity.**

Under no circumstances shall muddy groundwater be discharged into the public sewer.

Payment shall be made to and permit obtained from the Bureau of Customer Service for groundwater discharge into the New York City Wastewater System in accordance with the Water and Wastewater Rate Schedule established by the New York City Water Board.

You are required to hold the groundwater to the maximum extent practicable during heavy wet weather events. Refer to File # C-3274 in any correspondence to this office.

This Letter of Approval is an Order of the Commissioner of the Department of Environmental Protection. Please be advised that failure to comply with this Letter of Approval may result in the issuance of Notices of Violation (returnable to the New York City Environmental Control Board) and/or revocation of the Letter of Approval. Notices of Violation carry penalties of up to $10,000 a day, per violation.

If you have any questions concerning this matter, please contact Sean Hulbert, Assistant Chemical Engineer, at (718) 595-4715.

Sincerely,

Frances Leung, P.E., Chief
Industrial Inspections and
Permitting Section

HDR

August 7, 2017
File: 10016757

Ms. Frances Leung, P.E.
New York City Department of Environmental Protection
Division of Pollution Control and Monitoring
Industrial Pretreatment Program Inspection and Permit Section
96-05 Horace Harding Expressway, 1st Floor
Corona, New York 11368

Re: NYCDEP Discharge Permit Renewal – Water Treatment System
505 East 75th Street
New York, New York 10021
Lycee Francais de New York, DEP File Case # C-3274

Dear Ms. Leung:

This letter was prepared by HDR on behalf of Lycee Francais de New York to request a **one year renewal** of the existing NYCDEP Discharge Permit for the above-referenced project. Enclosed please find a data table with the laboratory results from recent groundwater treatment system effluent sampling (July 12, 2017). As illustrated on the table, all analytical results are non-detect and/or within NYCDEP effluent limitations for discharges to Sanitary or Combined Sewers. The laboratory report was emailed directly to the NYCDEP by American Analytical Laboratories on August 2, 2017.

On behalf of Lycee Francais de New York, HDR continues to coordinate the operation, maintenance, and monitoring (OM&M) of the water treatments system (i.e., tracking flow, carbon usage). One carbon change-out has occurred in the past 12 months, based on carbon use calculations and observed flows throughout the year. New granular activated carbon was most recently installed in July 2017. Note that the treated groundwater will continue to discharge to the combined sewer located at East 75th Street, between York Avenue and the FDR Drive, in Manhattan. Depending on actual flow conditions, it is anticipated that one carbon change-out will occur in the next twelve months.

Please call if you have any questions or require any additional information.

Sincerely,

Michael P. Musso, P.E.

Michael P. Musso, P.E.

Attachment

cc: Terrence Kennedy, Lycee Francais

1 International Boulevard, 10th Floor , Suite 1000 , Mahwah , NJ 07495-0027 hdrinc.com
(201) 335-9300

Lycee Francais de New York
East 75th/East 76th Street
New York, New York 10021
File Case # C-3274

Analyte	Soutwest Pit Effluent 7/12/2017 Water	Units	NYCDEP Limitations for Effluent to Sanitary or Combined Sewers
Non-polar material	not detected	mg/L	50
pH (field reading 07/12/2017)	8.9 (field)	pH units	5 - 12
Temperature (field reading 07/12/2017)	75.56 (field)	Deg F	< 150 F
Flash Point	not detected	Deg F	> 140 F
Cadmium	not detected	mg/L	2
Chromium (VI)	not detected	mg/L	5
Copper	not detected	mg/L	5
Lead	not detected	mg/L	2
Mercury	not detected	mg/L	0.05
Nickel	not detected	mg/L	3
Zinc	0.0438	mg/L	5
Benzene	not detected	ppb	134
Carbon tetrachloride	not detected	ppb	none
Chloroform	not detected	ppb	none
1,4-Dichlorobenzene	not detected	ppb	none
Ethylbenzene	not detected	ppb	380
MTBE (Methyl tert-butyl ether)	not detected	ppb	50
Naphthalene	not detected	ppb	47
Phenol	not detected	ppb	none
Tetrachloroethylene (PERC)	not detected	ppb	20
Toluene	not detected	ppb	74
1,2,4-Trichlorobenzene	not detected	ppb	none
1,1,1-Trichloroethane	not detected	ppb	none
Xylenes (Total)	not detected	ppb	74
PCBs (Total) *	not detected	ppb	1
Total Suspended Solids (TSS)	35.9	mg/L	350
CBOD *	< 4.0	mg/L	none
Chloride *	585	mg/L	none
Total Nitrogen *	0.670	ppm	none
Total Solids *	1500	mg/L	none

* Observed flow << 10,000 gpd, therefore, sampling of this parameter was not required.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

July 21, 2017

Carol Zurlo
HDR
One International Blvd., 10 Floor
Mahwah, NJ 07495
TEL: (201) 335-9412
FAX

RE: LFNY; East 75th Street, NYC. Order No.: 1707056

Dear Carol Zurlo:

American Analytical Laboratories, LLC. received 2 sample(s) on 7/13/2017 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: **1707056**

21-Jul-17

CLIENT: HDR

Project: LFNY; East 75th Street, NYC.

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1707056-001A	SW Pit Inf 7/12/17		7/12/2017 12:30:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002A	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002B	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002C	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002D	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002E	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid

Field Name	Field Value	Field Units	Field Analyst	Field Date
pH, SM4500H+ B	8.9	S.U.		
Temperature, SM 2550B	24.2	deg C		

1707056-002F	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002G	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002H	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid
1707056-002I	SW Pit Eff 7/12/17		7/12/2017 1:55:00 PM	7/13/2017 9:50:00 AM	Liquid

CHAIN OF CUSTODY

AMERICAN ANALYTICAL LABORATORIES

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS
NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information

Company Name: HDR
Address: 1 INTERNATIONAL BLVD 10 FLOOR
City: MAHWAH State: NJ Zip: 07495
Project Contact: CAROL ZURLO
Phone #: 201 335 9451
E-mail:

Project Information

Project Name: LFNY
Street: EAST 75 STREET
City: NYC State: Zip:
Project # / Purchase Order #:
Sampler's Name / Company: DON KASSEL HDR
Sampler's Signature:

Analytical Test / Information

PCB - TCL
NYCDEP

LAB SAMPLE # (LAB USE ONLY)	Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	Number of Each Preserved Bottle: NONE	HCl	NaOH	HNO_3	H_2SO_4	DI Water (5035A)	MeOH	OTHER
1707058-001	SW PIT INF 7/12/17	G	L	7/12/17	1230	G			2						
002	SW PIT EFF 7/12/17		L		1355				2						
~~003~~	SW PIT EFF 7/12/17		L		1320				5	1	X	1	1		
													(5)		

Turnaround Time (Business Days)

Standard
7-10 Business Days
5 Day *RUSH*
4 Day *RUSH*
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Please contact laboratory for rush service availability

SAMPLE TYPE

G = Grab
C = Composite
B = Blank

MATRIX CODE

L = Liquid **PC** = Paint Chip
S = Soil **SL** = Sludge
O = Oil **SD** = Solid
W = Wipe **M** = Misc

ELECTRONIC DELIVERABLES

NYCRR Part 375 - please circle
Unres/ Comm/ Industrial/ Residential/ Res Residential/ PGW
NJ Soil Clean Up Criteria **SCDOH Action Levels**
CP 51 - Gas / Fuel **TCLP Hazardous Waste**
TOGS **NYSDEC EQUIS**

Comments / Remarks

PH - 8.9
TEMP 24.2 °C
Cooler Temp: 1.6°C.

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
D. Kassel	7/12/17 1430	DON KASSEL	P Masi	7/13/17 0950	P Masi
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

AMERICAN ANALYTICAL LABORATORIES

ACCREDITED IN ACCORDANCE WITH nelac

CHAIN OF CUSTODY RECORD

Omega COCID 1079	PAGE: 1	OF: 1

ADDRESS

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100
FAX: (631) 454-8027
Website: www.American-Analytical.com

SUB CONTRATOR: **PACE ANALYTICAL** COMPANY: **Pace Analytical Services**

ADDRESS: **575 Broad Hollow Road**

CITY, STATE, ZIP: **Melville, NY 11747**

PHONE: **(631) 694-3040** FAX: **(631) 420-8436** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:
CBOD

ITEM	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: M5210 B	COMMENTS (Methanol Preserved Weights, HOT Sample Notation, Additional Sample Description, etc)
1	1707056-002I	SW Pit Eff 7/12/17	500ML PU	Liquid	7/12/2017 1:55:00 PM	1	√	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	7-13-17	11:40	[signature]	7-13-17	11:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 5.1 °C Attempt to Cool ? _____

Comments: _____

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Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **HDR - NJ** Work Order Number: **1707056** RcptNo: **1**

Logged by:	**Lori Beyer**	**7/13/2017 9:50:00 AM**	Lori Beyer
Completed By:	**Lori Beyer**	**7/13/2017 10:21:33 AM**	Lori Beyer
Reviewed By:	**Karen Kelly**	**7/13/2017**	Karen Kelly

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx
   Tracking No.: 803741769311

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☑ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By

American Analytical Laboratories, LLC.
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Farmingdale, New York 11735
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Website: www.American-Analytical.com

Case Narrative

WO#: **1707056**
Date: **7/21/2017**

CLIENT: HDR
Project: LFNY; East 75th Street, NYC.

Samples were preserved and analyzed using the methods outlined in 40 CFR Part 136 for all parameters. Samples were received with the proper preservation requirements, chilled on ice and each container was properly preserved for each test required.

CBOD was subcontracted to a NYSDOH ELAP Certified laboratory.

pH and temperature were recorded in the field immediately after sample collection.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

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Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Definition Only

WO#: **1707056**
Date: **7/21/2017**

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports
ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.
LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.
LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
PQL - Practical Quantitation Limit; the lowest level that can be reliably achieved within the specific limits of Precision and accuracy. Listed on the QC Summary Forms.
m - Analyte was manually integrated for GC/MS.
+ - Concentration exceeds regulatory level for TCLP

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Inf 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 12:30:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**E624**		Analyst: **LA**
Tetrachloroethene	88	0.20	2.0		µg/L	1	7/20/2017 8:08:00 PM
Trichloroethene	27	0.20	2.0		µg/L	1	7/20/2017 8:08:00 PM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624			**E624**		**E624**		Analyst: **LA**
1,1,1-Trichloroethane	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
1,4-Dichlorobenzene	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
Benzene	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
Carbon tetrachloride	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
Chloroform	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
Ethylbenzene	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
Tetrachloroethene	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
Toluene	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	7/20/2017 8:38:00 PM
Methyl tert-butyl ether	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM
o-Xylene	ND	0.20	2.0	U	µg/L	1	7/20/2017 8:38:00 PM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
SEMIVOLATILE EPA METHOD 625			**E625**		**E625**		Analyst: **MH**
1,2,4-Trichlorobenzene	ND	0.50	5.0	U	µg/L	1	7/18/2017 11:10:00 AM
Naphthalene	ND	0.50	5.0	U	µg/L	1	7/18/2017 11:10:00 AM
Phenol	ND	0.50	5.0	U	µg/L	1	7/18/2017 11:10:00 AM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002C		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PCB'S AS AROCLORS BY EPA METHOD 608			**E608**		**E608**		Analyst: **SB**
Aroclor 1016	ND	0.020	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1221	ND	0.020	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1232	ND	0.020	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1242	ND	0.020	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1248	ND	0.020	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1254	ND	0.030	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1260	ND	0.030	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1262	ND	0.030	0.050	U	µg/L	1	7/18/2017 1:46:00 PM
Aroclor 1268	ND	0.030	0.050	U	µg/L	1	7/18/2017 1:46:00 PM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002D		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
NON-POLAR MATERIAL BY EPA METHOD 1664A			**E1664A**				Analyst: **JaP**
SGT-HEM (Non-Polar Material)	1.02	1.00	2.00	J	mg/L	1	7/20/2017 10:48:02 AM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002E		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
FIELD PARAMETERS			**FLD**				Analyst:
pH, SM4500H+ B	8.9				S.U.		
Temperature, SM 2550B	24.2				deg C		
CHLORIDE			**M4500-C1-B-97,-11**				Analyst: **JaP**
Chloride	585	1.30	2.00		mg/L	1	7/18/2017 11:00:00 AM
HEXAVALENT CHROMIUM			**M3500-CR B-09,-11**				Analyst: **JaP**
Chromium, Hexavalent	ND	2.50	10.0	U	µg/L	1	7/13/2017 11:30:00 AM
IGNITABILITY/FLASHPOINT SW-846 1010			**SW1010A**				Analyst: **STP**
Ignitability	ND	65.0	140	U	°F	1	7/18/2017 10:30:30 AM
TOTAL SOLIDS			**M2540 B-97,-11**				Analyst: **JaP**
Residue, Total	1500	3.00	5.00		mg/L	1	7/14/2017 1:00:00 PM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002F		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
TOTAL SUSPENDED SOLIDS			**M2540 D-97,-11**				Analyst: **JaP**
Suspended Solids (Residue, Non-Filterable)	35.9	3.00	5.00		mg/L	1	7/14/2017 1:00:00 PM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002G		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
NITRATE-NITRITE AS N			**E353.2 REV2.0**				Analyst: **STP**
Nitrogen, Nitrate-Nitrite	0.184	0.0500	0.100		mg/L	1	7/17/2017 11:39:40 AM
TOTAL KJELDAHL NITROGEN			**E351.2 REV2.0**				Analyst: **STP**
Nitrogen, Kjeldahl, Total	0.486	0.200	0.400		mg/L	1	7/20/2017 3:45:35 PM
TOTAL NITROGEN			**TNITRO**				Analyst: **STP**
Total Nitrogen	0.670	0.100	0.400		ppm	1	7/20/2017 4:01:58 PM
Kjeldahl Nitrogen	0.486	0.200	0.400		ppm	1	7/20/2017 4:01:58 PM
Nitrate, Nitrogen	0.184	0.0500	0.100		ppm	1	7/20/2017 4:01:58 PM
Nitrite, Nitrogen	ND	0.0500	0.100	U	ppm	1	7/20/2017 4:01:58 PM

American Analytical Laboratories, LLC.

Date: *21-Jul-17*

ELAP ID : 11418

CLIENT:	HDR	**Client Sample ID:**	SW Pit Eff 7/12/17
Lab Order:	1707056	**Collection Date:**	7/12/2017 1:55:00 PM
Project:	LFNY; East 75th Street, NYC.	**Matrix:**	LIQUID
Lab ID:	1707056-002H		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY			**E245.1 REV3.0**		**E245.1 REV3.0**		Analyst: **JP**
Mercury	ND	0.000150	0.000300	U	mg/L	1	7/13/2017 1:34:56 PM
TOTAL METALS			**E200.7 REV4.4**		**E200.7 REV4.4**		Analyst: **JP**
Cadmium	ND	0.00500	0.0100	U	mg/L	1	7/18/2017 8:48:31 AM
Chromium	ND	0.00500	0.0200	U	mg/L	1	7/18/2017 8:48:31 AM
Copper	ND	0.00500	0.0200	U	mg/L	1	7/18/2017 8:48:31 AM
Lead	ND	0.00500	0.0150	U	mg/L	1	7/18/2017 8:48:31 AM
Nickel	ND	0.00500	0.0200	U	mg/L	1	7/18/2017 8:48:31 AM
Zinc	0.0438	0.00500	0.0200		mg/L	1	7/18/2017 8:48:31 AM

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

July 19, 2017

Lori Beyer
American Analytical Laboratories
56 Toledo Street
Farmingdale, NY 11735

RE: Project: 1079
Pace Project No.: 7023973

Dear Lori Beyer:
Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Phyllis Masi, American Analytical Laboratories
Jennifer Mullady, American Analytical Laboratories

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

CERTIFICATIONS

Project: 1079
Pace Project No.: 7023973

Long Island Certification IDs
575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: 1079
Pace Project No.: 7023973

Sample: 1707056-002I **Lab ID: 7023973001** Collected: 07/12/17 13:55 Received: 07/13/17 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B cBOD, 5 day	Analytical Method: SM22 5210B Preparation Method: SM22 5210B							
Carbonaceous BOD, 5 day	**<4.0**	mg/L	4.0	2	07/13/17 16:03	07/18/17 12:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: 1079
Pace Project No.: 7023973

QC Batch: 31338
QC Batch Method: SM22 5210B
Associated Lab Samples: 7023973001

Analysis Method: SM22 5210B
Analysis Description: 5210B cBOD, 5 day

METHOD BLANK: 144987
Associated Lab Samples: 7023973001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Carbonaceous BOD, 5 day	mg/L	<2.0	2.0	07/18/17 10:29	

LABORATORY CONTROL SAMPLE: 144988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbonaceous BOD, 5 day	mg/L	198	178	90	84.5-115.4	

SAMPLE DUPLICATE: 144989

Parameter	Units	7023897001 Result	Dup Result	RPD	Qualifiers
Carbonaceous BOD, 5 day	mg/L	216	200	7	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: 1079
Pace Project No.: 7023973

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1079
Pace Project No.: 7023973

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7023973001	**1707056-002I**	SM22 5210B	31338	SM22 5210B	32021

AMERICAN ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD

ACCREDITED IN ACCORDANCE WITH nelac

Omega COCID 1079 | PAGE: 1 | OF: 1

WO#: 7023973

ADDRESS

American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100
FAX: (631) 454-8027
Website: www.American-Analytical.com

SUB CONTRATOR: **PACE ANALYTICAL** COMPANY: **Pace Analytical Services**

ADDRESS: **575 Broad Hollow Road**

CITY, STATE, ZIP: **Melville, NY 11747**

PHONE: **(631) 694-3040** FAX: **(631) 420-8436** EMAIL:

ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:
CBOD

ITEM	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: M5210 B	COMMENTS: Methanol Preserved Weights, HOT Sample Notation, Additional Sample Description, etc
1	1707056-002I	SW Pit Eff 7/12/17	500ML PU	Liquid	7/12/2017 1:55:00 PM	1	√	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	7-13-17	11:40	[signature]	7-13-17	11:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples 5.1 °C Attempt to Cool ? _____

Comments: _____

Pace Analytical

Sample Condition Upon Receipt

WO#: 7023973

PM: JDS Due Date: 07/24/17
CLIENT: AMAN-ECO

Client Name: Aman-ECO

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☒ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH092 Correction Factor: 0 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 5.1 Cooler Temperature Corrected (°C): 5.1 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☐ N/A, water sample) Date and Initials of person examining contents: JK 7/13/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ YES ☐ NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
-Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☒Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix: SL WT OIL				
All containers needing preservation have been checked	☐Yes	☐No	☒N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☒N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	15.
Trip Blank Present:	☐Yes	☐No	☒N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

NYC Environmental Protection

Vincent Sapienza, P.E.
Acting Commissioner

Pamela Elardo, P.E.
Deputy Commissioner

Bureau of Wastewater Treatment
96-05 Horace Harding Expressway – 2nd Floor
Corona, NY 11368

Tel. (718) 595-6924
Fax (718) 595-4084

August 21, 2017

Henningson, Durham & Richardson
Architecture and Engineering, P.C.
1 International Boulevard, 10th Floor
Suite 1000
Mahwah, NJ 07495-0027
Attn: Michael P. Musso, P.E.

Re: Groundwater Discharge, Lycee Francais de New York
File # C-3274

Dear Mr. Musso:

This Letter of Approval is an extension of the Letter of Approval issued on August 25, 2016.

This is in response to the August 9, 2017 submission requesting permission to discharge up to **6,000 gallons per day (gpd)** of groundwater generated at 505 East 75th Street, New York, NY 10021 (under a New York State Department of Environmental Conservation Site Management Plan). The groundwater will be treated through bag filters and granular activated carbon units, per provided schematic and information, before discharging to the on-site combined sewer at the above mentioned property. The sewer leads to the combined sewer located at 75th Street between York Avenue and the FDR Drive in New York, NY.

Based upon the information, schematic and analytical data submitted, you are hereby conditionally authorized, to discharge up to 6,000 gpd of the groundwater, treated through the above system, per provided schematic and information, as specified in your submissions, **for a period of one year**, to the combined sewer at the above mentioned location. **This Letter of Approval shall expire at midnight on August 20, 2018.**

This conditional approval, however, is subject to your obtaining a groundwater discharge Approval, specifying allowable flow rates, from the Chief of Permitting and Compliance, Bureau of Water and Sewer Operations, if discharges are to exceed 10,000 gpd. You are also required to follow manufacturer specifications for the operation and maintenance of the selected equipment. **This Letter of Approval is contingent upon the permittee's compliance with any other Federal, State or Local laws applicable to the permitted activity.**

Under no circumstances shall muddy groundwater be discharged into the public sewer.

Payment shall be made to and permit obtained from the Bureau of Customer Service for groundwater discharge into the New York City Wastewater System in accordance with the Water and Wastewater Rate Schedule established by the New York City Water Board.

You are required to hold the groundwater to the maximum extent practicable during heavy wet weather events. Refer to File # C-3274 in any correspondence to this office.

This Letter of Approval is an Order of the Commissioner of the Department of Environmental Protection. Please be advised that failure to comply with this Letter of Approval may result in the issuance of Notices of Violation (returnable to the New York City Environmental Control Board) and/or revocation of the Letter of Approval. Notices of Violation carry penalties of up to $10,000 a day, per violation.

If you have any questions concerning this matter, please contact Sean Hulbert, Assistant Chemical Engineer, at (718) 595-4715.

Sincerely,

Frances Leung, P.E., Chief
Industrial Inspections and
Permitting Section

Appendix D

Completed Monitoring Forms (Form G)

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: Feb. 7th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8 gpm
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Changed - out 100 and 50 micron bags for the S. W. pit room area

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: Feb. 7th 2015

Name: Danny Alvarado / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11 1/2"	No
3a	SW pit room		25 1/2"	No
3b	SW pit room		Flowing	yes
7	Storage area off of music room		20"	No
8	Gym storage room		17"	
9a	Large gym		17"	
9b	Large gym		17"	
10a	Large gym		15 1/2"	
10b	Large gym		15	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: March 7th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8 gpm
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Changed-out 100 and 50 micron filter bags for the South west ejector pump room.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: March 7th 2015

Name: Danny Alvarado / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 1/4"	No
3a	SW pit room		25 3/4"	NO
3b	SW pit room		flowing	yes
7	Storage area off of music room		20"	No
8	Gym storage room		17 1/4"	
9a	Large gym		17"	
9b	Large gym		17" 1/4	
10a	Large gym		15"	
10b	Large gym		15"	
11a	NE stairwell		Damp Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: April 13th, 2015

Name: Danny Alvarado

Company: lycee Francais de N.Y.

Position/Title: Chief Engineer.

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y (N)
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Changed out 100 and 50 micron bags for the South West pit room area.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: April 13th 2015

Name: Danny Alvarado, Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 1/2"	NO
3a	SW pit room		25 1/2"	NO
3b	SW pit room		Flowing	yes
7	Storage area off of music room		20"	NO
8	Gym storage room		17 1/4"	
9a	Large gym		17"	
9b	Large gym		17"	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry.	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: May 2nd. 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Building Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Changed out 100 and 50 micron filter bags for the South west ejector pit room area.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: May 2nd. 2015

Name: Danny Alvarado / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11 1/2"	No
3a	SW pit room		25 3/4"	No
3b	SW pit room		Flowing	yes
7	Storage area off of music room		20 1/2"	No
8	Gym storage room		17 1/2"	
9a	Large gym		16 3/4"	
9b	Large gym		17"	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: June 1st 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8 gpm
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

changed out 100 and 50 micron bags for the South west pit room.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: June 1st. 2015

Name: Danny Alvarado / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 3/4"	NO
3a	SW pit room		25	NO
3b	SW pit room		Flowing	yes
7	Storage area off of music room		20 1/4	NO
8	Gym storage room		17 1/4	
9a	Large gym		17 1/4	
9b	Large gym		Dry	
10a	Large gym		15 1/2	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: July 29, 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

changed all 100 and 50 micron bag filters. South west pit room area.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: July 29th 2015

Name: Danny Alvarado / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11 1/4"	No
3a	SW pit room		25 3/4"	No
3b	SW pit room		Flowing	yes
7	Storage area off of music room		20"	No
8	Gym storage room		17 1/2"	
9a	Large gym		17"	
9b	Large gym		Damp	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: Sept. 14th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Building Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8 gpm
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

changed out 100 and 50 micron filter bags for the South west pit room area ejector.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: Sept. 19th 2015

Name: Danny Alvarado / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11 3/4"	NO
3a	SW pit room		25 3/4"	NO
3b	SW pit room		Flowing	YES
7	Storage area off of music room		20 1/4"	NO
8	Gym storage room		17 1/4"	
9a	Large gym		17"	
9b	Large gym		17 1/4"	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: Oct. 9th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Building Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

changed out 100 and 50 micron bags for South west pit room area. Underground water treatment

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: Oct. 9th 2015

Name: Danny Alvarado / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11"	No
3a	SW pit room		25 ½"	No
3b	SW pit room		Flowing	Yes
7	Storage area off of music room		20 3/4	No
8	Gym storage room		17"	
9a	Large gym		17 ¼"	
9b	Large gym		16 3/4"	
10a	Large gym		15"	
10b	Large gym		14 3/4"	
11a	NE stairwell		Dry	Dry
11b	NW gym storage		Dry	Dry

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: November - 20th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y / N Est. Flow (gpm)*: 8 gpm
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Changed out 100 and 50 micron bags for the S.W. pit ejector room.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: November 20th, 2015

Name: Danny Alvarado, Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11.75	No
3a	SW pit room		26"	No
3b	SW pit room		flowing	yes
7	Storage area off of music room		20"	NO
8	Gym storage room		17 1/2"	
9a	Large gym		17 1/2"	
9b	Large gym		17 1/4"	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: Dec. 7th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Building Engineer.

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y / N Est. Flow (gpm)*: 8gpm
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow (Y) / N
Flow meter readings [Periodic]	(Yes)	No	normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

changed out 100 and 50 micron bags for the South west ejector pit room area.

This form is to be completed by LFNY staff once every two weeks. It should by faxed to HDR (845-735-7466) upon completion.

Underdrain System Cleanout Monitoring

Date: Dec. 7. 2015

Name: Danny Alvarado and Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 1/2"	No
3a	SW pit room		26"	NO
3b	SW pit room		Flowing	yes
7	Storage area off of music room		20 1/4"	NO
8	Gym storage room		17 1/2"	
9a	Large gym		17 1/4"	
9b	Large gym		17 1/4"	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

Underdrain System Cleanout Monitoring

Date: 1-7-16

Name: Stephen Belloni

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11 in	No
3a	SW pit room		25 1/2 in	No
3b	SW pit room		Running Flow	Yes
7	Storage area off of music room		20 1/2"	No
8	Gym storage room		17"	
9a	Large gym		17"	
9b	Large gym		17"	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 2-22-16

Name: Stephen Belloni / Enrique Ramos

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8.4
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 2-22-16

Name: Stephen Belloni / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11 1/2"	No
3a	SW pit room		25 1/2"	No
3b	SW pit room		Running Flow	Yes
7	Storage area off of music room		20"	No
8	Gym storage room		17 1/2"	
9a	Large gym		16 1/4"	
9b	Large gym		17 1/4"	
10a	Large gym		15 1/2"	
10b	Large gym		15"	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 3-19-16

Name: Stephen Pellegrino

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y)/ N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y)/ N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 3-19-16

Name: Stephen / Enrique / Climaco

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11 1/2	No
3a	SW pit room		25 1/2	No
3b	SW pit room		Running Flow	Yes
7	Storage area off of music room		20	No
8	Gym storage room		17 1/2	
9a	Large gym		17	
9b	Large gym		17	
10a	Large gym		15 1/2	
10b	Large gym		15	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 4-16

Name: Stephen Bellemi

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8 5
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: _____

Name: _____

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym			
3a	SW pit room			
3b	SW pit room			
7	Storage area off of music room			
8	Gym storage room			
9a	Large gym			
9b	Large gym			
10a	Large gym			
10b	Large gym			
11a	NE stairwell			
11b	NW gym storage			

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 5-16

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 83
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 6-16

Name: Stephen Beiloni

Company: Lycee francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8.5
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 6/11/16

Name: Stephen Belton.

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11.75	NO
3a	SW pit room		25 1/2	NO
3b	SW pit room		Running flow	yes
7	Storage area off of music room		20 1/2	NO
8	Gym storage room		17 1/4	
9a	Large gym		17	
9b	Large gym		17 1/4	
10a	Large gym		15 1/4	
10b	Large gym		15	
11a	NE stairwell		~~15 1/4~~ Dry	
11b	NW gym storage		~~15~~ Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 7-16

Name: Stephen Belloni

Company: Lycee francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 7-9-16

Name: Stephen Bellon i

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.5	No
3a	SW pit room		25.5	No
3b	SW pit room		Running Flow	Yes
7	Storage area off of music room		20.5	No
8	Gym storage room		17.25	
9a	Large gym		17	
9b	Large gym		17	
10a	Large gym		15.25	
10b	Large gym		15	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 8-16

Name: Stephen Bellen

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 8-27-16

Name: Stephen Bellani

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11	No
3a	SW pit room	↓	25 1/2	No
3b	SW pit room	↓	Running Flow	Yes
7	Storage area off of music room	↓	20 3/4	No
8	Gym storage room	↓	17.25	↓
9a	Large gym	↓	17 1/2	↓
9b	Large gym	↓	17	↓
10a	Large gym	↓	15.5	↓
10b	Large gym	↓	15	↓
11a	NE stairwell	↓	Dry	↓
11b	NW gym storage	↓	Dry	↓

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 9-16

Name: Stephen Bellan

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8.1
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 9-17-16

Name: Stephen Belloni

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.5	No
3a	SW pit room		23.75	No
3b	SW pit room		Running Flow	Yes
7	Storage area off of music room		20.5	No
8	Gym storage room		17.25	
9a	Large gym		17.25	
9b	Large gym		17	
10a	Large gym		15.5	
10b	Large gym		15	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 10/11/16

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	
Underdrain System Cleanouts [Bi-monthly minimum]	Yes	(No)	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y / N
Flow meter readings [Periodic]	(Yes)	No	0483380

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 10/11/16

Name: Stephen Bellani

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.75	No
3a	SW pit room	↓	26	No
3b	SW pit room	↓	Running	Yes
7	Storage area off of music room	↓	20.5	No
8	Gym storage room	↓	17 1/4	↓
9a	Large gym	↓	17.25	↓
9b	Large gym	↓	Dry	↓
10a	Large gym	↓	15.5	↓
10b	Large gym	↓	15	↓
11a	NE stairwell	↓	Dry	↓
11b	NW gym storage	↓	Dry	↓

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 11-16

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8.2
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 12-16

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8.3
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 12/3/16

Name: Stephen

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 in	No
3a	SW pit room	↓	25 1/2 in	NO
3b	SW pit room	↓	Running Flow	Yes
7	Storage area off of music room	↓	20 1/2 "	NO
8	Gym storage room	↓	17 "	↓
9a	Large gym	↓	16 1/4 "	↓
9b	Large gym	↓	17 1/4 "	↓
10a	Large gym	↓	15 1/2 "	↓
10b	Large gym	↓	15 1/4	↓
11a	NE stairwell	↓	Dry	↓
11b	NW gym storage	↓	Dry	↓

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 1-17

Name: Stephen Pellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8.1
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 2-17

Name: Stephen Bellemi

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8.3
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 2/17/17

Name: Stephen Bellani / Enrique Ramos

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 1/2	NO
3a	SW pit room	↓	25 1/2	NO
3b	SW pit room	↓	Run	Yes
7	Storage area off of music room	↓	20	NO
8	Gym storage room	↓	17	↓
9a	Large gym	↓	17'	↓
9b	Large gym	↓	17'	↓
10a	Large gym	↓	15 1/2	↓
10b	Large gym	↓	15'	↓
11a	NE stairwell	↓	Dry	↓
11b	NW gym storage	↓	Dry	↓

T.O.C. – top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 3-17

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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Underdrain System Cleanout Monitoring

Date: 3/4/17

Name: Steven Sellers

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 3/4	NO
5a	SW pit room		25 1/4	NO
5b	SW pit room		Running	Yes
7	Storage area off of music room		20 1/4	NO
8	Gym storage room		17 1/4	
9a	Large gym		17	
9b	Large gym		17 1/4	
10a	Large gym		15 1/4	
10b	Large gym		15	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. - top of cleanout pipe

This form is to be completed by LFNY staff on a weekly basis.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 4-17

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

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LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 4/10/17

Name: Marvin Mendoza / Brenton Deer

Company: ILB Mechanical Services

Position/Title: Plumbers Mechanic

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	back flush carbon tanks, everything checked good
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	Yes	No ?	Flow: Y / N Est. Flow (gpm)*: ?
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: Y / N
Flow meter readings [Periodic]	(Yes)	No	

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

defective float on #1 pump was repaired with new one. Back washed carbon tanks and relocated meter away from ejector pit

Underdrain System Cleanout Monitoring

Date: 4-29-17

Name: Stephen Belloni / Enrique Ramos / Olmedo Matatc

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 1/2	NO
3a	SW pit room		25 3/4	NO
3b	SW pit room		Running	Yes
7	Storage area off of music room		20 1/4	NO
8	Gym storage room		17 1/4	
9a	Large gym		16 1/2	
9b	Large gym		17	
10a	Large gym		15	
10b	Large gym		14 1/2	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 5-17

Name: Stephen Bellem

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 5/13/17

Name: Stephen Bellani

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	NO	11 1/2	No
3a	SW pit room	↓	25.5	No
3b	SW pit room	↓	Running	Yes
7	Storage area off of music room	↓	20.25	NO
8	Gym storage room	↓	17	↓
9a	Large gym	↓	16.25	↓
9b	Large gym	↓	17	↓
10a	Large gym	↓	15	↓
10b	Large gym	↓	14.5	↓
11a	NE stairwell	✓	Dry	↓
11b	NW gym storage	↓	Dry	✓

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 6-17

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	Yes ☑	No ☐	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	Yes ☑	No ☐	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	Yes ☑	No ☐	Flow: Y ☑ /N ☐ Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	Yes ☑	No ☐	Flow: Y ☑ /N ☐
Flow meter readings [Periodic]	Yes ☑	No ☐	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 6/10/17

Name: Stephen

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.5	No
3a	SW pit room		25 1/4	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20 1/4	No
8	Gym storage room		17 1/4	
9a	Large gym		17	
9b	Large gym		17 1/2	
10a	Large gym		15	
10b	Large gym		15 1/4	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

APPENDIX G Inspection Checklist - Groundwater Management System

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 7-17

Name: Stephan Bellani

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N Est. Flow (gpm)*: 8.2
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) / N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 7/22/17

Name: Stephen Belloni

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.75	No
3a	SW pit room		25.5	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20 1/4	No
8	Gym storage room		17 1/4	
9a	Large gym		17	
9b	Large gym		17 1/4	
10a	Large gym		15 1/4	
10b	Large gym		14.75	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 8-17

Name: Stephen Bellan

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work / follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 8/19/17

Name: Stephen Belloni

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.75	No
3a	SW pit room	↓	25 1/4	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20 1/4	No
8	Gym storage room		17 1/4	↓
9a	Large gym		17 1/4	
9b	Large gym		15.5	
10a	Large gym		14.5	
10b	Large gym		Dry	
11a	NE stairwell	↓	Dry	↓
11b	NW gym storage			

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors

Date: 9-17

Name: Stephen Bellon

Company: Lycee Francais

Position/Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System	(Yes)	No	
[LFNY Staff: Weekly Outside Contractors: At Time of Work]			Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*:
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 9-16-17

Name: Stephen Belloni

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.50	No
3a	SW pit room		25.75	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20.25	No
8	Gym storage room		17.5	
9a	Large gym		17	
9b	Large gym		Dry	
10a	Large gym		15.50	
10b	Large gym		15.25	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX G **Inspection Checklist - Groundwater Management System**

This form must be completed during each inspection performed by in-house staff and outside contractors.

Date: 10-17

Name: Stephen Belkin

Company: Lycee Francais

Position Title: Engineer Supervisor

Location	Inspected		Findings
Carbon Treatment System [LFNY Staff: Weekly Outside Contractors: At Time of Work]	(Yes)	No	Normal
Underdrain System Cleanouts [Bi-monthly minimum]	(Yes)	No	*Complete and attach the cleanout log form.*
Southwest Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N Est. Flow (gpm)*: 8.1
Northeast Foundation Pit [Weekly, minimum]	(Yes)	No	Flow: (Y) N
Flow meter readings [Periodic]	(Yes)	No	Normal

*Estimated flow in southwest foundation pit to be performed routinely and recorded. Since the majority (estimate of 90% or greater) of the entire foundation flow drains to the southwest foundation pit. Estimates of flow quantity in the northeast pit are not required.

Describe any work follow-up required based upon the inspection findings:

Underdrain System Cleanout Monitoring

Date: 10-28-17

Name: Stephen Belloni

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.75	No
3a	SW pit room		25.75	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20.50	No
8	Gym storage room		17.5	
9a	Large gym		17	
9b	Large gym		Dry	
10a	Large gym		15.5	
10b	Large gym		15.25	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

Underdrain System Cleanout Monitoring

Date: 11-11-17

Name: Stephen Belloni

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.50	No
3a	SW pit room		25.75	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20.25	No
8	Gym storage room		17.5	
9a	Large gym		17.25	
9b	Large gym		Wet	
10a	Large gym		15.5	
10b	Large gym		14.75	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. – top of cleanout pipe

Underdrain System Cleanout Monitoring

Date: 12-9-17

Name: Stephen Bellani

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	11.5	No
3a	SW pit room		25.5	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20.25	No
8	Gym storage room		17.25	
9a	Large gym		17.25	
9b	Large gym		Wet	
10a	Large gym		15.5	
10b	Large gym		14.75	
11a	NE stairwell		Dry	
11b	NW gym storage		Dry	

T.O.C. = top of cleanout pipe

Underdrain System Cleanout Monitoring

Date: Jan 2018

Name: Stephen Bellani

Cleanout No.	Location	Observation of water / moisture on floor / floor slab?	Depth to Water (inches below T.O.C.)	Observed flow in Piping?
2	Small gym	No	10 3/4	No
3a	SW pit room		25 1/2	No
3b	SW pit room		Running	Yes
7	Storage area off of music room		20	No
8	Gym storage room		17 1/2	
9a	Large gym		16 3/4	
9b	Large gym		Dry	
10a	Large gym		15 1/2	
10b	Large gym		14 3/4	
11a	NE stairwell	✓	Dry	
11b	NW gym storage		Dry	✓

T.O.C. – top of cleanout pipe

Appendix E

Documentation of Completed O&M and Site Inspection Tasks

LYCEE FRANCAIS DE NEW YORK SITE MANAGEMENT PLAN

APPENDIX H Site-wide Inspection Form

This form must be completed on an annual basis and kept on file.

Date: February 10, 2015

Name: Michael P. Musso, P.E.

Company: HDR

Position/Title: Project Manager

Documentation that sufficient information has been compiled to assess the following must be attached to this Form:

1. Assessment of compliance with all ICs, including Site usage.
2. An evaluation of the condition and continued effectiveness of ECs.
3. Assessment of general Site conditions at the time of the inspection.
4. Assessment of the Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.
5. Assessment of compliance with permits and schedules included in the Operation and Maintenance Plan.
6. Confirmation that Site records are up to date.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX H **Site-wide Inspection Form**

This form must be completed on an annual basis and kept on file.

Date: 2/9/2016

Name: Michael P. Musso, P.E.

Company: HDR

Position/Title: Project Manager

Documentation that sufficient information has been compiled to assess the following must be attached to this Form:

1. Assessment of compliance with all ICs, including Site usage. ✓
2. An evaluation of the condition and continued effectiveness of ECs. ✓
3. Assessment of general Site conditions at the time of the inspection. ✓
4. Assessment of the Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection. ✓
5. Assessment of compliance with permits and schedules included in the Operation and Maintenance Plan. ✓
6. Confirmation that Site records are up to date. ✓

- Site Walk with Harold Chavarro
- Meeting with Terrence Kennedy (Manager, Facilities)
- Action Item:
  HDR to set-up new on-site binder, copies of forms, and interactive pdf e-forms for staff
- Staff SMP + Hazcom training to be conducted 2/10/2016

LYCEE FRANCAIS DE NEW YORK SITE MANAGEMENT PLAN

APPENDIX H Site-wide Inspection Form

This form must be completed on an annual basis and kept on file.

Date: February 17, 2017

Name: Michael P. Musso, P.E.

Company: HDR

Position/Title: Project Manager

Documentation that sufficient information has been compiled to assess the following must be attached to this Form:

1. Assessment of compliance with all ICs, including Site usage.
2. An evaluation of the condition and continued effectiveness of ECs.
3. Assessment of general Site conditions at the time of the inspection.
4. Assessment of the Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.
5. Assessment of compliance with permits and schedules included in the Operation and Maintenance Plan.
6. Confirmation that Site records are up to date.

LYCEE FRANCAIS DE NEW YORK SITE MANAGEMENT PLAN

APPENDIX H Site-wide Inspection Form

This form must be completed on an annual basis and kept on file.

Date: February 13, 2018

Name: Michael P. Musso, P.E.

Company: HDR

Position/Title: Project Manager

Documentation that sufficient information has been compiled to assess the following must be attached to this Form:

1. Assessment of compliance with all ICs, including Site usage.
2. An evaluation of the condition and continued effectiveness of ECs.
3. Assessment of general Site conditions at the time of the inspection.
4. Assessment of the Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection.
5. Assessment of compliance with permits and schedules included in the Operation and Maintenance Plan.
6. Confirmation that Site records are up to date.

Appendix F

Completed Routine Maintenance Forms (Form L)

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: Feb. 7th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Description of work performed:

Changed out 100 and 50 micron bags for the South west pit room area.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: March 7th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Description of work performed:

Changed-out 100 and 50 micron bags for the South west ejector pump room area.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: April 13th, 2015

Name: Danny Alvarado

Company: Lycee Francais de N.Y.

Position/Title: Chief Engineer

Description of work performed:

Changed out filter Bags 100 and 50 microns for the south west pit room area.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: May 2nd 2015

Name: Danny Alvarado

Company: lycee Francais de NewYork

Position/Title: chief Building Engineer

Description of work performed:

Changed out filter bags 100 and 50 microns for the South west pit & ejecter pump room.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: June 1st 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer.

Description of work performed:

Changed out 100 and 50 micron bags for the South west pit room area.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7/28/15

Name: Mike Librizzi

Company: Brookside Environmental

Position/Title: site foreman

Description of work performed: Pumped out both carbon vessels and replaced activated carbon in each.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes No

Are other documents such as receipts and/or copies of invoices attached? Yes No

APPENDIX L Routine Maintenance Form for Components of the Building's Groundwater Management System

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7-28-15

Name: Marvin Mendoza / Julian / Amid

Company: ILG

Position/Title: plumbers mechanic

Description of work performed: worked on disconnecting carbon tank

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes No

Are other documents such as receipts and/or copies of invoices attached? Yes No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: July 29th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: chief engineer

Description of work performed:

Changed out 100 and 50 micron bags for the South west pitroom area.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: Sept. 19th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Bilding Engineer

Description of work performed:

Changed out 100 and 50 micron filter bags for the South west ejector pit room area.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: Oct. 9th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: chief Building Engineer

Description of work performed:

changed act filter bags 100 and 50 microns for the south west pit room area. Underground water treatment.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

This form is to be completed by LFNY staff for work such as bag filter change-outs, carbon backwashing, and carbon replacement. Any invoices/receipts for work performed by contractors must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: November 20th, 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Engineer

Description of work performed:

Changed out 100 and 50 micron filter bags for the South west ejector pit room area.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7-11-16

Name: Stephen Belloni

Company: Lycee Francais de New York

Position/Title: Engineer

Description of work performed: changed sand bag filters, worked on disconnecting pumps and carbon tank setup, changed out carbon / replaced

Brookside / HDR / ILG

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

HDR
Crew Chief Report **Page ___of ___**

Crew Chief: Donald Kassell	Project: LFNY
Crew;	Project No.: 10016757
Vehicle(s) Used: Toyota Highlander	Survey: Carbon change out and water quality collection
Boat(s) Used:	Project Manager; Carol Zurlo / Mike Musso

Crew Chief Report (complete after survey):

Survey Start Date; 7/11/16	Survey Start/End Time: 0530 - 1630

Describe Details Below:	**Yes**	**No**		**From**	**To**
Sampling gear working properly (if no, describe in comments)	Yes		Boat usage (dates):		
			Engine Hours:		
Was downtime incurred (no.hrs.) (If yes, describe in comments)		No	Boat Location:		
			Radio Logs:		
Any incidents, accidents or pertinent observations (describe)	Yes		Were the following forms completed and submitted?	**Yes**	**No**
Field Meters Calibrated	yes		Boat Log:		
Chain-of Custody completed	Yes		Vehicle Log:	Yes	
Samples signed over - Nanuet Lab		No	Equipment Usage Sheet:	yes	
-Outside Lab	yes				

Comments/Observations:

0630 On site- ILG on site. 0635 system is off, 0645 ; ILG leaves.0740; Brookside on site. 0755; Brookside begins setting up.0825; begin removing old carbon. 1020; complete removing old carbon. Used 3 drums for old carbon.they are breaking down some equipment. 1040; begin adding new carbon, 1100 ; finish adding new carbon, begin clean up. 1115 finish clean up.1130; brookside departs.1135; ILG on site. 1152; system is on.1200; system off small leak.1210; system on. 1230; ILG off site.1315; ; collected NYCDEP samples. 1400; off site. 1500; dropped off samples at fed x in elmsford Brookside used 4 drums 3 for carbon 1 for old filter bags and garbage.

CHAIN OF CUSTODY

AMERICAN ANALYTICAL LABORATORIES

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS
NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

Client Information

Company Name: HDR
Address: 1 INTERNATIONAL BLVD 10 FLOOR
City: MAHWAH State: NJ Zip: 07495
Project Contact: CAROL ZURLO
Phone #: 201.335.7451
E-mail: CAROL.ZURLO@HDRINC.COM

Project Information

Project Name: LFNY
Street: EAST 75 STREET
City: NYC State: Zip:
Project #: 10016757
Sampler's Name / Company: RONALD KASSELL HDR
Sampler's Signature:

Analytical Information

PCE, TCE
NYC DEP

LAB SAMPLE # (LAB USE ONLY)	Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	NONE	HCl	NaOH	HNO_3	H_2SO_4	$NaHSO_4$	MeOH	OTHER
	SW PIT INF 7/11/16	G	L	7/11/16	1170	G	2		2						
	SW PIT EFF 7/11/16	G	L		1235		2		2						
	SW PIT EFF 7/11/16	G	L		1215		5	1			2				

Turnaround Time (Business Days)

Standard
[X] 7-10 Business Days
[ ] 3 Day *RUSH*
[ ] 5 Day *RUSH*
[ ] 2 Day *RUSH*
[ ] 4 Day *RUSH*
[ ] 1 Day *RUSH*

SAMPLE TYPE

G = Grab
C = Composite
B = Blank

MATRIX CODES

L = Liquid
S = Soil
O = Oil
W = Wipe
PC = Paint Chip
SL = Sludge
SD = Solid
M = Miscellaneous

Comments / Remarks

EFFLUENT PH 8.9
TEMP 25.2°C

Cooler Temp:

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME
	7/11/16 1400	RON KASSELL			
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY LAB (SIGNATURE)	DATE / TIME	PRINTED NAME

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7/11/2016

Name: Michael Librizzi, Oscar Paredo

Company: Brookside Environmental Inc.

Position/Title: Foreman

Description of work performed:

Vacuum-out spent carbon from 2 carbon vessels and replace w/ new activated carbon.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes No

Are other documents such as receipts and/or copies of invoices attached? Yes No

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7-11-16

Name: Marvin Mendoza

Company: ILG mechanical Services

Position/Title: Plumbers Mechanic

Description of work performed: worked on disconnecting 2 carbon tanks

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? Yes (No)

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 4/5/17 + 4/10/17

Name: Marvin, Brenton, Juan

Company: ILG Mechanical Services, Inc.

Position/Title: Mechanic / Mechanic Asst.

Description of work performed: 4/5 - trained staff on how to isolate filter tank, removed and replaced same; we replaced two filters while on site.

4/10 - Backflushed carbon tanks

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

APPENDIX I. Routine Maintenance Form for Components of the Building's Groundwater Management System

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 4/10/17

Name: Marvin / Brenton

Company: ILG Mechanical Services

Position/Title: plumbers Mechanic

Description of work performed: back washed carbon tanks / relocated water meter / installed new piggy back float on pump #1

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes No

Are other documents such as receipts and/or copies of invoices attached? Yes No

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7/12/17

Name: William Ryan

Company: Brookside Environmental

Position/Title: Site Supervisor

Description of work performed: Remove and replace Carbon in 2 carbon Vessels in Basement.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? Yes (No)

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7/12/17

Name: ILG mechanical service (manuel. m)

Company: ILG

Position/Title: plumbers mechanic

Description of work performed: worked on isolating carbon tanks inorder to change out filters from tank

(micron)
100/50

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes No

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX L **Routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each routine maintenance event performed by in-house staff and outside contractors.

Date: 7/12/17

Name: Marvin Mendoza, Juan Toledo

Company: ILG Mechanical Services, Inc

Position/Title: Mechanic / Mechanic Asst.

Description of work performed:

Drained down carbon tanks, removed inlet and outlet hoses for the carbon tank replaced filters with new.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

Invoice 20171722

ILG MECHANICAL SERVICES, INC.
2323 HAVILAND AVENUE
BRONX, NY 10462

Invoice

Date	Invoice #
7/20/2017	20171722

Bill To	Ship To
LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY	LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY

P.O. No.	Terms	

Description	Quantity	Rate	Amount
LABOR: 07/12 - DRAINED DOWN CARBON TANKS. REMOVED INLET AND OUTLET HOSES FOR THE CARBON TANK CHANGE. REPLACED FILTERS WITH NEW.			
1 MECHANIC 3-1/2 HRS	3.5	110.00	385.00
1 MECHANIC ASST. 3-1/2 HRS	3.5	80.00	280.00

Subtotal	$665.00
Sales Tax (8.875%)	$0.00
Total	$665.00

Phone #	Fax #	E-mail
917 819-3536	917 819-3538	ILGMECHANICAL@OPTONLINE.NET

Appendix G

Completed Non-routine Maintenance Forms (Form M)

This form is to be completed by LFNY staff for all out of the ordinary work performed by ILG
Any invoices/receipts for the work performed must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX M **Non-routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each non-routine maintenance event performed by in-house staff and outside contractors.

Date: 4/6/15 + 4/8/15

Name: Marvin + Brenton

Company: ILG Mechanical

Position/Title: Mechanic, Mechanic Asst.

Description of work performed (include presence of leaks, date of leak repair and/or other repairs or adjustments made, if applicable):

4/6 - Replaced Two defective ejector pumps (provided by Management)

4/8 - Installed Quick disconnect fitting

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

COVER PAGE

ILG MECHANICAL SERVICES, INC.
555 LONGFELLOW AVENUE
BRONX, NY 10474

Date	Invoice #
4/13/2015	20150378

Bill To	Ship To
LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY	LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY

P.O. No.	Terms	
		CONTRACT

Description	Quantity	Rate	Amount
LABOR: 04/07 - COMPLETED ALL WORK AS PER ENCLOSED PROPOSAL DATED MARCH 18, 2015; SOUTHWEST EJECTOR PUMP ROOM; TWO EJECTOR PUMPS, REVISION #1, 03/25/15 AGREED PRICE: BASED UPON TIME AND MATERIAL NOT TO EXCEED $1,027.00		1,027.00	1,027.00

Subtotal	$1,027.00
Sales Tax	$0.00
Total	$1,027.00

Phone #	Fax #	E-mail
917 819-3536	917 819-3538	ILGMECHANICAL@OPTONLINE.NET

Invoice

ILG MECHANICAL SERVICES,
INC.
555 LONGFELLOW AVENUE
BRONX, NY 10474

Date	Invoice #
4/13/2015	20150378

Bill To	Ship To
LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY	LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY

P.O. No.	Terms	
		CONTRACT

Description	Quantity	Rate	Amount
LABOR:			
04/06 - WORKED TO REPLACE TWO DEFECTIVE EJECTOR PUMPS (PROVIDED BY MANAGEMENT)			
1 MECHANIC 6 HRS	3	105.00	315.00
1 MECHANIC ASST. 6 HRS	6	70.00	420.00
04/08 - INSTALLED QUICK DISCONNECT FITTING			
1 MECHANIC 3-1/2 HRS	3.5	105.00	367.50
1 MECHANIC ASST. 3-1/2 HRS	3.5	70.00	245.00
SUBTOTAL:			1,347.50
MATERIAL: 1 - 2 X 1 GALV BUSHING 2 - 10 HOSE CLAMP 1/2 1 - 1 X 3 GALV NIPPLE		21.21	21.21
SUBTOTAL:			21.21

Subtotal	$1,368.71
Sales Tax	$0.00
Total	$1,368.71

Phone #	Fax #	E-mail
917 819-3536	917 819-3538	ILGMECHANICAL@OPTONLINE.NET

This form is to be completed by LFNY staff for all out of the ordinary work performed by J&R. Any invoices/receipts for the work performed must be attached.

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX M **Non-routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each non-routine maintenance event performed by in-house staff and outside contractors.

Date: 4/13/15 + 4/14/15

Name: Marvin - Brenton

Company: FLG Mechanical Services, Inc.

Position/Title: Mechanic, Mechanic Asst.

Description of work performed (include presence of leaks, date of leak repair and/or other repairs or adjustments made, if applicable):

4/13 Mechanical Room Level L2 - Below grade water treatment system checked gauges on filter tower and found defective valves

4/14 Replaced defective valves (check) with new

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX M **Non-routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each non-routine maintenance event performed by in-house staff and outside contractors.

Date: 7/28/15

Name: Marvin, Brenton, Juan, Ahmed

Company: JLG Mechanical Services, Inc.

Position/Title: Plumber

Description of work performed (include presence of leaks, date of leak repair and/or other repairs or adjustments made, if applicable):

Removed carbon filter tanks, cleaned and refilled System.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

JOB WORK ORDER

ILG MECHANICAL SERVICES, INC.
555 LONGFELLOW AVENUE
BRONX, NY 10474
PHONE (917) 819-3536 FAX (917) 819-3538
EMAIL: ILGMECHANICAL@OPTONLINE.NET

DAY OF WEEK	Tuesday
DATE	7-28-15

JOB NAME: Lycee Francais School	TIME ARRIVED: 7:00 a.m / 12:30 p.m
JOB ADDRESS: E75th St.	TIME COMPLETED: 10:30 a.m / 2:30 p.m
CITY	PLUMBERS: Nassim - Brenton - Juan - Amid (7:00 AM - 10:30)

LOCATION APT: FLOOR: 12 AREA: pump room

DESCRIPTION OF WORK: worked on removing carbon filter tanks, and reinstall them when men finished there treatment

JOB # 0727

CUSTOMER P.O.

CUSTOMER SIGNATURE: X

Invoice

ILG MECHANICAL SERVICES, INC.
555 LONGFELLOW AVENUE
BRONX, NY 10474

Date	Invoice #
7/28/2015	20150727

Bill To	Ship To
LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY	LYCEE FRANCAIS 505 EAST 75TH STREET NEW YORK , NY 10021 ATTN: TERRENCE KENNEDY

P.O. No.	Terms	

Description	Quantity	Rate	Amount
LABOR: 07/28 REMOVED CARBON FILTER TANKS. CLEANED AND REFILLED SYSTEM			
1 MECHANIC 4-1/2 HRS	4.5	106.00	477.00
1 MECHANIC ASST. 4-1/2 HRS	4.5	70.00	315.00
1 MECHANIC 3 HRS	3	105.00	315.00
1 MECHANIC ASST. 3 HRS	3	70.00	210.00

Subtotal	$1,317.00
Sales Tax	$0.00
Total	$1,317.00

Phone #	Fax #	E-mail
917 819-3536	917 819-3538	ILGMECHANICAL@OPTONLINE.NET

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX M **Non-routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each non-routine maintenance event performed by in-house staff and outside contractors.

Date: Aug. 26, 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Building Engineer

Description of work performed (include presence of leaks, date of leak repair and/or other repairs or adjustments made, if applicable):

On 7.24.2015 a 4" GIP conduit pipe was placed in an underground penetration with a slurry encasement located on the 75th side driveway entrance sidewalk. The subsurface conduit penetration outside the membrane was sealed with bitothene mastic sealant around the pipe penetration and also on the new encasement. Pictures were taken and documented.

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? Yes (No)

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX M **Non-routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each non-routine maintenance event performed by in-house staff and outside contractors.

Date: Dec. 7th 2015

Name: Danny Alvarado

Company: Lycee Francais de New York

Position/Title: Chief Building Engineer

Description of work performed (include presence of leaks, date of leak repair and/or other repairs or adjustments made, if applicable):

On Dec. 2nd 2015 IHG Plumbing replaced the broken off 2" connection from the inlet side of filter tower number #2. Pressurized and tested the system. O.K.
Changed out 100 and 50 micon bags for the filtration system underground water treatment. DA

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

LYCEE FRANCAIS DE NEW YORK **SITE MANAGEMENT PLAN**

APPENDIX M **Non-routine Maintenance Form for Components of the Building's Groundwater Management System**

This form must be completed during each non-routine maintenance event performed by in-house staff and outside contractors.

Date: 4/5/17 + 4/10/17

Name: Marvin, Brenton, Juan

Company: JLG Mechanical Services, Inc.

Position/Title: Mechanic / Mechanic Asst

Description of work performed (include presence of leaks, date of leak repair and/or other repairs or adjustments made, if applicable):

4/5 - checked sump pump and found pump #1 to have a defective piggy back float Work to continue 4/10/17

4/10 replaced defective piggy back float for pump #1 with new. Extended 1" nose on the water meter discharge side from carbon tank

Are color photographs or sketches showing the approximate location of any problems or incidents attached? Yes (No)

Are other documents such as receipts and/or copies of invoices attached? (Yes) No

Appendix H – Vapor Barrier Repair Associated with New Construction on Adjacent Property

In the Spring of 2015, HDR was notified by LFNY of proposed renovation work on the adjacent 1416 York Avenue property (located immediately west of the school property that is subject to the SMP and PRR). This work included renovations within an existing building for future use by LFNY. HDR worked with LFNY's Facility Staff and its renovation contractor to discuss planned activities where the school building's western wall subsurface vapor barrier may be encountered. The SMP – including the locations and specifications for the approved Grace vapor barrier products - was reviewed with the parties in advance of the renovation work, and the renovation work at the adjacent property was tracked by LFNY and HDR to ensure that the vapor barrier at the subject school property Site – if encountered - was maintained or repaired in conformance with the SMP.

In August 2015, a subsurface conduit penetration (i.e., fiber optic feed), located approximately three feet below sidewalk (ground) elevation, was installed. This conduit (1.5" diameter) penetrated the vapor barrier. HDR reviewed the specifications for the link seal, and recommended that a minimum of two inches of this material be applied around the conduit and the drilled space to provide a reliable seal. Use of caulk was also recommended as a 'good practice'.

Photographs of the completed conduit work were received on August 12, 2015 from Lightower Fiber Networks and are shown below.

Photos of fiber conduit penetration. Existing vapor barrier components visible above and surrounding (in white).

In October 2015, ground floor renovation work at 1416 York Avenue encountered and exposed the vapor barrier system (to a depth of approximately 2-3 ft below sidewalk [top] grade). The subsurface vapor barrier was noted to be partially exposed (see below photo) along the back wall of the renovated space.

October 2015. A portion of the Vapor Barrier along western portion of the subject school building exposed to approximately 2-3 ft below grade.

HDR visited the renovation site (1416 York Avenue) and the subject school property on November 9, 2015, to observe the ground floor renovation work and collect documentation on the renovated space. It was documented that the exposed school property vapor barrier was being handled appropriately and in accordance with the SMP. Excerpts from site visit notes (M. Musso, HDR) are provided below in *italicized* text. [Note that new Grace products as referenced below were utilized for moisture / vapor sealing purposes at the adjacent property as part of the renovation work.]

I conducted a site inspection of the new space today, with focus on (a) environmental items in place for the 505 East 75th Street (existing school) building next door, and (b) general observations for the new space that is under construction.

It was confirmed that Grace Preprufe 300R and 160R – the same products reviewed by NYSDEC for the 505 East 75th Street project several years back - are being / will be installed in the new space as follows:

- *Placed beneath all new floor slabs (encompassing the entire footprint of renovated space), including the bottoms of elevator and ejector pits, and on the subsurface sidewalls of the elevator and ejector pits;*
- *Placed along (outside) of new concrete walls, up to a certain height above the floor grades. The renovation contractor and I walked basement, and it was apparent that the membrane heights on the new walls will differ depending on location but will rise at least 5 – 6 ft above the final floor grades (and thus approach the elevation of the York Ave sidewalk grade)*

The basement appears (and has reportedly been) relatively dry, and as noted prior only a very small amount of foundation water has been observed in the deepest parts of the new space excavation (i.e., new elevator pit). The Preprufe in the new space will likely not be under hydrostatic pressure conditions (i.e., will not be "submerged") under normal conditions.

We looked at the back (east) wall of the new space (26-ft width), where the excavation work has encountered the existing 505 East 75th St building wall and minimally exposed the in-place Preprufe (white membrane barely visible in some areas along the back wall). As no further subsurface disturbance other than what I observed today is planned, there does not appear to be a need for any repairs of the Preprufe at the 505 East 75th St building. The black Hydroduct product from the old project was also exposed (this is more visible than the Preprufe, as it rises to a higher elevation on the back wall). I recommended that the black Hydroduct be patched or otherwise maintained in place when the new eastern wall is constructed. Renovation contractor confirmed that with the new eastern wall, there is really no rain or stormwater expected along these walls (old and new) in the future.

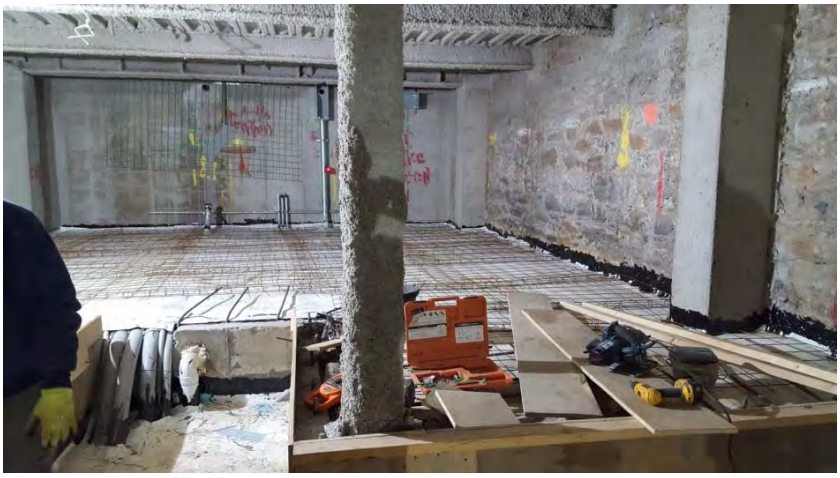
Next steps:

- *For our Site Management Plan (SMP) files and future NYSDEC reports, I would ask that the renovation contractor continue taking photos of all new Preprufe and Hydroduct installations that occur in the new space.*
- *I understand that a specialty subcontractor (ACA Contracting, Inc.) is handling the waterproofing and Grace product installations for the project.*

November 9, 2015 photo of eastern wall in renovated space. Top 2-3 ft of Vapor Barrier (black Hydroduct) temporarily exposed.

On December 4, 2015, the renovation contractor reported that there were repairs made to two minor tears of the school property's vapor barrier during the renovation work. It was documented that the membrane and Hydroduct protection were folded back up and appropriately fastened to the foundation wall before the renovation work was completed. Preprufe tape was used to secure the Hydroduct.

On February 9, 2016, HDR completed a second site visit to observe the completed adjacent building's basement space.



February 9, 2016 photo of renovated space, looking back towards the western 505 East 75th school building wall.