# ANNUAL SITE MANAGEMENT REPORT FROM AUGUST 2013 TO JULY 2014 MOTT HAVEN CAMPUS-X790 730 CONCOURSE VILLAGE WEST BRONX, NEW YORK BCP AGREEMENT # C-203030

## PREPARED FOR:



**New York City Department of Education** Office of Environmental Health and Safety 44-36 Vernon Blvd. Long Island City, New York 11101

PREPARED BY:

#### Cardno ATC Shaping the Future

104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor New York, New York 10010-2917

Date of Issue: August 28, 2014

Cardno ATC Project No. 015.19125.1883



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# Attachments:

Attachment 1:	Institutional and Engineering Controls Certification Form
Attachment 2:	Custodian Monthly or Severe Condition Inspection Forms
Attachment 3:	Biweekly Inspection Logs
Attachment 4:	Semiannual Groundwater Monitoring Reports
Attachment 5:	Photographic Documentation
Attachment 6:	Annual Inspection Forms
Attachment 7:	Training Acknowledgment



# **PROJECT DIRECTORY**

CLIENT:	New York City Department of Education Office of Environmental Health and Safety 44-36 Vernon Blvd. Long Island City, New York 11101 (718) 361-3808
PROJECT LOCATION:	Mott Haven Campus - X790 730 Concourse Village West Bronx, New York, 10451 (718) 292-2036
PROJECT TECHNICAL SUPPORT	New York State Department of Environmental Conservation Division of Environmental Remediation, Region 2 47-40 21st Street Long Island City, New York 11101-5407 (718) 482-4891
	New York City School Construction Authority 30-30 Thomson Avenue Long Island City, New York 11101 (718) 472-8000
	TRC Engineers, Inc. 1430 Broadway New York, NY 10018 (212) 221-7822
	STV Incorporated 225 Park Avenue South New York, NY 10003 (212) 777-4400
<b>DESCRIPTION OF WORK:</b>	Review Site Management Plan, O&M plan and prior reports; review custodian's inspection forms, walk-through visual inspection
ATC REPRESENTATIVES:	Gilbert Gedeon, PE, Division Manager Husam Zeidan, Inspector Nancy Guevara, Inspector Yong Bin Gao, Inspector



## **EXECUTIVE SUMMARY**

This Site Management Report (SMR) covers the period from August 1, 2013 to July 31, 2014 for PS 790X located at 730 Concourse Village West, Bronx, NY. This report is being submitted in response to the June 9, 2014 New York State Department of Environmental Conservation (NYSDEC) Reminder Notice included under Attachment 1. This SMR includes information based on the most recent annual site refresher training associated with the operation and maintenance of the sub-slab depressurization system (SSDS), vapor barrier and composite cover system, as well as the site inspection conducted on August 1, 2014 pursuant to the NYSDEC-approved Site Management Plan (SMP).

The annual site inspection included an evaluation of engineering controls identified in the SMP which includes the vapor barrier, SSDS, and cover system established at the site. During this inspection, Cardno ATC (ATC) observed that the vibration damping cloth on SSDS fan unit EF-6 is slightly damaged and requires replacement/repair; a minor depression (4' long x 2' wide x ¼' deep) on the west side of the artificial turf (artificial turf cover remains intact); minor soil erosion (2" deep) adjacent to the auditorium building; and minor surficial cracking around the manhole on East Access Drive. The custodian notified DOE DSF and his employer, Temco, to repair these issues. In addition, ATC reviewed the custodial inspection logs, and SSDS inspection and groundwater monitoring reports prepared by others.

Based on the visual inspection, the aforementioned issues are minor in nature and do not impact the effectiveness of the Engineering Controls (ECs) and Institutional Controls (ICs). Therefore, ATC concludes that the ECs and ICs have not changed, are effective, protect public health and the environment, and the remedial goals are being met. See Attachment 1 for the Institutional and Engineering Controls Certification Form.



# **1.0 INTRODUCTION**

On behalf of the NYCDOE Office of Environmental Health and Safety (DOE/EHS), ATC is pleased to provide this SMR to NYSDEC for PS 790X located at 730 Concourse Village West in Bronx, NY. The campus opened in September 2010 and is currently attended by approximately 1,400 students. This report was completed in accordance with the SMP approved by the NYSDEC.

The scope of work for this report included:

- 1. Review of the school custodian's monthly inspection logs documenting his routine walkthrough to identify any observed changes to the ECs and ICs;
- 2. Roof-mounted SSDS equipment Inspection, Basement Inspection and Exterior Inspection;
- 3. Review of SMP, Operations and Maintenance Plan (O&M Plan), Groundwater Monitoring Reports and SSDS Biweekly Inspection Logs; and
- 4. Photographic documentation of observations.

This report was developed to document: (a) the changes to the ECs and ICs if any, and (b) whether the program for maintenance and monitoring is being implemented in accordance with the SMP. Mr. Gilbert Gedeon, P.E., Mr. Husam Zeidan, Ms. Nancy Guevara and Mr. Yong Bin Gao of ATC conducted an annual site inspection on August 1, 2014 accompanied by Mr. Robert Rivera Jr., the school's Custodian.

## 2.0 ENGINEERING CONTROLS

According to the SMP prepared by Shaw Environmental Inc. (Shaw), dated November 2008, the Mott Haven Campus (X790) contains engineering controls that include a Gas Vapor Barrier and a SSDS constructed beneath the school to prevent residual soil vapors from entering the Mott Haven Campus buildings. In addition, a Composite Surface Cover System consisting of asphalt, concrete, pavers and soil cover was constructed to act as a barrier to prevent direct contact with subsurface soils. A program for maintenance and monitoring was developed to ensure that the ECs remain effective.

## 2.1 <u>Vapor Barrier</u>

The vapor barrier was installed beneath the school buildings as a precautionary measure to prevent soil vapors from entering the buildings in the future. The vapor barrier is applied underneath the buildings' ground floor slabs.

## 2.2 <u>Sub-Slab Depressurization System</u>

A sub-slab depressurization system was installed at the school as an added safeguard to prevent soil vapors from entering the school buildings in the future. The primary components of the SSDS are gas permeable aggregate (GPA) and slotted schedule 80 PVC piping located beneath the school, schedule 40 steel riser piping through building chase spaces from the ground floor slab to the roof, and stainless steel ductwork connecting the steel SSDS piping to the roof top



fans. The SSDS fans are monitored by the Building Management System (BMS) using differential pressure switches mounted near each SSDS fan.

## 2.3 <u>Composite Cover System</u>

A composite cover system was installed on the school campus and also below the platform of PS 156 and IS 151 to the north of the property, to prevent school occupants from exposure to the underlying soils. This composite cover system is comprised of school buildings (concrete foundation), asphalt pavement, concrete sidewalks, the concrete cap below the platforms that support PS 156 and IS 151, artificial turf on athletic fields, or two feet of clean fill on all exposed ground surfaces.

## 3.0 INSTITUTIONAL CONTROLS

The ICs at the Site state that the owner of the Property shall:

- Comply with the Environmental Easement and Declarations of Covenants and Restrictions (DCR) and comply with all elements of the SMP;
- Operate and maintain all ECs as per the SMP;
- Inspect, maintain, and certify the integrity of the cover system consisting of concrete building slabs, asphalt pavement, concrete covered sidewalks, and artificial turf athletic field, or two feet of clean fill on all exposed ground surfaces including landscaped areas in the BCP Area and Non-BCP Area A as required by the SMP;
- Inspect the cover system consisting of a concrete cap on all exposed ground surfaces beneath PS 156 and IS 151 to prevent human exposure to underlying soils remaining under Non-BCP Area B;
- Operate, inspect, maintain, and certify the soil vapor mitigation system consisting of a SSDS and vapor barrier under all building structures (BCP Area and Non-BCP Area A) as required;
- Inspect and certify all ECs at a frequency and in a matter defined in the SMP;
- Perform groundwater monitoring as stated in the SMP;
- Report data and information relevant to Site Management for the Property at the frequency and in a manner defined in the SMP;
- Protect and replace on-site monitoring devices as necessary to ensure the devices function in the manner specified in the SMP;
- Refrain from discontinuing the ECs without an amendment or the extinguishment of the Environmental Easement or DCR and approval by NYSDEC and NYSDOH;
- Prohibit farming and vegetable gardens on the Property;
- Prohibit the use of groundwater underlying the Property unless treatment is used rendering it safe for its intended purpose;
- Prohibit all future activities on the Property that will disturb historic urban fill material (Non-BCP Area A and Non BCP Area B) unless conducted as defined in the soil management provisions of the SMP;
- Use the Property as a school campus provided all long-term ECs and ICs included in the SMP are employed;



- Prohibit the Property from being used for purposes other than a school without an amendment or the extinguishment of the Environmental Easement and DCR approved in writing by the NYSDEC; and
- Agree to submit to NYSDEC a written statement that certifies that: (1) controls employed at the Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; 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 SMP. NYSDEC retains the right to access such Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow. This annual statement must be certified by an expert that the NYSDEC finds acceptable.

## 4.0 SITE INSPECTIONS AND SSDS REPAIRS

## 4.1 <u>Document Review</u>

## 4.1.1 Review of Custodian's Inspection Logs

ATC reviewed the daily inspection logs and monthly inspection forms with the custodial staff from August 2013 through July 2014. TRC performed biweekly SSDS inspections during a portion this period as indicated in Section 4.1.2 below. The Monthly Inspection Forms are included in Attachment 2.

## 4.1.2 Review of Biweekly Inspection Logs

ATC reviewed the biweekly logs prepared by SCA's representative TRC from August 7, 2013 to September 4, 2013 (See Attachment 3). Based on this review, ATC noted that all six (6) SSDS fan units were operating at the time of each inspection. ATC also noted the BMS was operational, but did not register a change in fan status on August 7, 2014. The BMS is fully operational as of October 2013. Subsequently, biweekly inspections have been concluded.

## 4.1.3 Review of Semiannual Groundwater Monitoring Reports

The Site is currently undergoing a semiannual groundwater monitoring program until the upgradient contamination source is addressed. ATC reviewed the groundwater monitoring reports (Attachment 4) prepared by STV for December 2013 and June 2014 events. The reports were submitted to the NYSDEC by SCA on February 11, 2014 and August 1, 2014.

Summaries of the December 2013 and June 2014 groundwater sampling events are provided below:

## December 2013 Sampling Event

On December 27, 2013, STV collected ground water samples from the seven (7) existing groundwater monitoring wells. These samples were submitted to York Analytical Laboratories,



Inc. of Stratford, Connecticut. No volatile organic compounds (VOC) were detected in two (2) of the three (3) downgradient monitoring wells (MW-5R and MW-11R). Two (2) VOCs were detected in the groundwater samples from MW-3R. The VOCs did not exceed New York State Class GA standards. One (1) VOC, tetrachloroethene (PCE), was detected in upgradient monitoring well MW-24 at a concentration above the groundwater quality standard and is likely related to an upgradient source. No VOCs were detected in the other upgradient monitoring wells (MW-23, MW-25, MW-26R).

The remedial objective for groundwater in the NYSDEC-approved Remedial Action Work Plan (RAWP) is to maintain groundwater quality at the downgradient property line. Detections of VOCs were limited to one of three monitoring wells near the downgradient property line (MW-3R) and the concentrations were below groundwater quality standards. The groundwater monitoring results demonstrated that the remedial objective for groundwater continues to be met per the RAWP.

## June 2014 Sampling Event

On June 29, 2014 STV collected ground water samples from the seven (7) existing groundwater monitoring wells. These samples were submitted to York Analytical Laboratories, Inc. of Stratford, Connecticut. No VOCs were detected in the downgradient monitoring wells (MW-3R, MR-5R, and MW-11R). One (1) VOC, PCE, was detected in MW-24 at a concentration above the groundwater quality standard and is likely related to an upgradient source. One (1) VOC was also detected in MW-24 which was below New York State Class GA standards. No VOCs were detected in the other upgradient monitoring wells (MW-23, MW-25, and MW-26R).

The remedial objective for groundwater in the NYSDEC-approved RAWP is to maintain groundwater quality at the downgradient property line. No VOCs were detected in three monitoring wells near the downgradient property line (MW-3R, MW-5R and MW-11R). The groundwater monitoring results demonstrated that the remedial objective for groundwater continues to be met per the RAWP.

## 4.2 ATC's Visual Observations

On August 1, 2014, ATC conducted visual observations and photographic documentation while accompanied by the custodial staff. Site photographs are included Attachment 5 and the Annual Inspection Form is included in Attachment 6. During the inspection, ATC noted the following:

- Vibration damping cloth is slightly worn on SSDS fan unit EF-6;
- The BMS is fully commissioned;
- A spare fan unit labeled EF-7 is available at the school and is located in Room B80;
- Minor depression (2'x 1'x 2") at the east end of the artificial turf by the 40 yard line;
- Slight soil erosion (4.5' x 2' x 4") adjacent to the auditorium building by the 45 yard line; and
- Surficial cracks around the manhole on East Access Drive by the 35 yard line.

The custodian notified DOE DSF and Temco concerning the aforementioned issues. The custodian was advised to notify ATC once the aforementioned observations were addressed.



## 4.2.1 Roof Vent SSDS Inspection

- 1. The SSDS blowers and stacks are located on the top of the roof of Buildings A, B, C, and D as follows:
  - *Buildings A & B* roofs have two fans each: one on the top of the main roof and the other on the top of the mechanical room roof
  - **Buildings** C & D roofs have one fan each: on the top of the mechanical room roof.
- 2. All SSDS fan units were operational;
- 3. All fan belts were aligned and in good condition. The custodial staff has been replacing worn belts on an as-needed basis;
- 4. Vibration damping cloth associated with SSDS fan unit EF-6 is slightly worn;
- 5. Vacuum gauges on the SSDS fan units have been installed;
- 6. Guy wires of all SSDS fan units were observed to be tight and in good condition;
- 7. Fan mounting and vibration isolators were intact; and
- 8. SSDS fan bearings for SSDS fan units EF-5 and EF-6 were observed to be slightly worn. Mr. Rivera Jr. advised ATC that new bearings were ordered and were replaced.

# 4.2.2 Basement Inspection (Cellar)

ATC inspected the accessible areas of the basement floors. ATC did not observe any visible concrete cracks penetrating into the basement floor during the site inspections. Furthermore, ATC did not observe any floor joints in the basement floor. As such, smoke testing consistent with Section 3.2.2 of the SMP was not conducted. ATC's observation of the basement concrete floors was limited due to architectural finishes such as ceramic floor tiles, vinyl floor tiles, wood flooring and miscellaneous equipment and furniture. ATC also inspected the DOT maintenance corridor and did not observe any visible cracks.

## 4.2.3 Exterior Inspection

ATC inspected the composite cover system around the perimeter of the Mott Haven Campus including the paved and unpaved areas. There was no evidence of pavement removal. No structures have been constructed on the unpaved areas. ATC observed slight soil erosion (4.5' x 2' x 4") in the landscaped area adjacent to the auditorium building by the 45 yard line and a minor depression (2'x 1'x 2") in the artificial turf located on the east end at the 40 yard line. ATC also observed minor surficial cracks around the manhole on East Access Drive by the 35 yard line.

ATC did not observe any other visible cracks in the exterior paved areas or sidewalks during the annual inspection. ATC also inspected the artificial turf and observed no apparent holes, cracks or deterioration. It is concluded that the composite cover system is intact and provides a barrier to direct contact with underlying soils.





## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on visual observations, ATC concludes the following:

- 1. The SSDS is operational and is being monitored by the BMS;
- 2. No visible concrete cracks penetrating into the basement floors or walls were observed during the annual inspection; therefore, no smoke testing was performed;
- 3. The ICs and ECs are in place, remain effective and the remedial goals have been met;
- 4. The O&M Plan is being implemented;
- 5. No changes have occurred that would reduce the ability of the controls to protect public health and the environment;
- 6. Access is available to the Site by NYSDEC and NYSDOH to evaluate continued maintenance of such controls; and
- 7. Site usage is compliant with the environmental easement.

Based on document review and visual observations, ATC recommends the following:

- 1. Continue documenting all operation and maintenance activities on ECs;
- 2. Conduct preventative maintenance and document accordingly; and
- 3. Continue to replace any worn fan belts.

## 6.0 STANDARDS OF CARE

ATC's work was performed in a professional manner with the best interest of our client in mind. Our objective was to perform our work with care, exercising the customary skills and competence of consulting professionals in the relevant disciplines. The conclusions presented in this report are professional opinions based upon visual observations, site documents review and real-time environmental measurements. The conclusions expressed in this report reflect only the limited inspections of specific locations. The opinions and recommendations presented herein apply to site conditions existing at the time of our observations. ATC cannot act as insurers, and no expressed or implied representation or warrant is included or intended in our report except that our work was performed, within the limits prescribed by our clients, with the customary thoroughness and competence of our profession at the time and place the services were rendered.

It is our pleasure to provide our consultative services to the NYCDOE. If you have any questions about this report, please call (212) 353-8280.



Annual Site Management Report

Sincerely, CARDNO ATC



Gilbert Gedeon, P.E. Division Manager

cc: B. Orlan Y. Efstathiou H. Zeidan



Attachment 1

**Institutional and Engineering Controls Certification Form** 

#### New York State Department of Environmental Conservation Division of Environmental Remediation, 11th Floor

625 Broadway, Albany, New York 12233 **Phone:** (518) 402-9553 **Fax:** (518) 402-9577 **Website:** www.dec.ny.gov



6/9/2014

Bernie Orlan Director of Environmental Health & Safety New York City Dept of Education 44-36 Vernon Boulevard Long Island City, NY 11101

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal Site Name: Former Metro North Property Site No.: C203030

Site Address: 730 Concourse Village West New York, NY 10451

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Dear Mr. Orlan:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at

http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **August 30, 2014**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at: http://www.dec.ny.gov/regulations/2586.html

The signed certification forms should be sent to Sondra Martinkat, Project Manager, at the following address:

New York State Department of Environmental Conservation One Hunters Point Plaza 47-40 21st Street Long Island City, NY 11101

Phone number: 718-482-4891. E-mail: smmartin@gw.dec.state.ny.us

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance Certification Form Instructions Certification Forms

ec: w/ enclosures

Sondra Martinkat, Project Manager Jane O'Connell, Hazardous Waste Remediation Engineer, Region 2

#### **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 <u>cannot</u> 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



Sit	e No. C203030	Box 1	
Sit	e Name Former Metro North Property		
Site City Co Site	Address: 730 Concourse Village West Zip Code: 10451 //Town: New York unty: Bronx e Acreage: 0.9		
Re Re	porting Period: July 31, 2013 to July 31, 2014 Porting Period: August 01, 2013 to July 31, 2014	VED	NO
	le the information above correct?	150	
1.	is the information above correct?	1	
	It NO, include handwritten above or on a separate sheet.		
<b>2</b> .	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		
	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?		
	·	Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial		
7.	Are all ICs/ECs in place and functioning as designed?		
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below a DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	ind	
A	Corrective Measures Work Plan must be submitted along with this form to address th	nese iss	ues.
Się	nature of Owner, Remedial Party or Designated Representative Date		

	Box 2A
<ol> <li>Has any new information revealed that assumpti Assessment regarding offsite contamination are</li> </ol>	YES NO ons made in the Qualitative Exposure no longer valid?
If you answered YES to question 8, include de that documentation has been previously sub-	ocumentation or evidence mitted with this certification form.
9. Are the assumptions in the Qualitative Exposure (The Qualitative Exposure Assessment must be	Assessment still valid? certified every five years)
If you answered NO to question 9, the Period updated Qualitative Exposure Assessment ba	ic Review Report must include an ased on the new assumptions.
SITE NO. C203030	Box 3
Description of Institutional Controls	
Parcel <u>Owner</u>	Institutional Control
9-2443-78 P/O New York City Dept. of E	ducation Ground Water Use Restriction Soil Management Plan Landuse Restriction Building Use Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
ICs: Compliance with the Environmental Easement and DC All ECs must be operated and maintained as specified Cover systems inspection, certification, and maintenar Soil Vapor Mitigation system consisting of vapor Barrie maintained as required in SMP. All ECs must be inspec SMP. Groundwater monitoring must be performed as wells must be protected and replaced as necessary to discontinued or amended without concurrence from NN farming at the property is prohibited. The use of ground disturbing urban fill materials are prohibited. Controller provided long term ICs and ECs are employed as spec	CR. in SMP nce. er and SSDS must be inspected, certified, and ected and certified at frequency specified in specified in SMP. Groundwater monitoring ensure compliance with SMP. ECs may not be (SDEC and NYSDOH. Vegetable gardens and dwater property is prohibited. All activities d property can only be used as a school iffied in SMP.
	Box 4
Description of Engineering Controls	
Parcel Engineering	Control
9-2443-78 P/O Vapor Mitigat Groundwater Subsurface E Eapcing/Acc	ion Containment Barriers
ECs: Cover Systems Vapor Barrier Jet Grout Hydraulic Barrier Waterloo Hydraulic Barrier	

	Box 5
	Periodic Review Report (PRR) Certification Statements
1.	I certify by checking "YES" below that:
	<ul> <li>a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;</li> </ul>
	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 mormation presented is accurate and compete. YES NO
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
	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 Date

IC CERTIFICATIONS SITE NO. C203030 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. 

 Image: Application of the second s am certifying as OUNEL (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** 

IC/EC CERTIFICATIONS	
	Box 7
Professional Engineer Signature	
I certify that all information in Boxes 4 and 5 are true. I understand that a false stateme punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.	ent made herein is
I Carlbert Geden at 104 8.25 th st NY	NY 10010
am certifying as a Professional Engineer for theC	Ealucobon Party
ER OFSSO CONAL INTERNET	elasture
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification (Required for PE)	 Date

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#### Enclosure 3 Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
  - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
  - B. Effectiveness of the Remedial Program Provide overall conclusions regarding;
    - 1. progress made during the reporting period toward meeting the remedial objectives for the site
    - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
  - C. Compliance
    - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
    - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
  - D. Recommendations
    - 1. recommend whether any changes to the SMP are needed
    - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
    - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
  - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
  - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

- IV. IC/EC Plan Compliance Report (if applicable)
  - A. IC/EC Requirements and Compliance
    - 1. Describe each control, its objective, and how performance of the control is evaluated.
    - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
    - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
    - 4. Conclusions and recommendations for changes.
  - B. IC/EC Certification
    - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
  - A. Components of the Monitoring Plan (tabular presentations preferred) Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
  - B. Summary of Monitoring Completed During Reporting Period Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
  - C. Comparisons with Remedial Objectives Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
  - D. Monitoring Deficiencies Describe any ways in which monitoring did not fully comply with the monitoring plan.
  - E. Conclusions and Recommendations for Changes Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
  - A. Components of O&M Plan Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
  - B. Summary of O&M Completed During Reporting Period Describe the O&M tasks actually completed during this PRR reporting period.
  - C. Evaluation of Remedial Systems Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

- D. O&M Deficiencies Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- Compliance with SMP For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
- 1. whether all requirements of each plan were met during the reporting period
- 2. any requirements not met
- 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
  - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
  - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

A.

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.



Attachment 2

**Custodian Monthly or Severe Condition Inspection Forms** 

1	Monthly/Severe Condition Inspection Form	
	Mott Haven Campus	
	730 Concourse Village West, Bronx, New York 10451	
insc	pector's Name: Bohard Busing Weather Conditions: O	
Insr	vection Date: S-30-13	
Insp	pection Time: 1,00 pm	146
Con	nments: everything check out	
C	)k	
Α.	SSDS SYSTEM INSPECTION	
	1. Walk the entire roof surface of school bulidings.	
	* Inspect fan stack guide wires.	1
	* Inspect fan mounting and vibration isolators.	N N
	* Inspect condition of fan belt.	1
	* Inspect alignment of fan belt.	1
	* Record vacuum gauge reading: -150 mm of water	m
	Inspect bolts and set screws for tightness and rusty condition.	$\checkmark$
	Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing.	V
	Confirm that soare fan is stored in designated soares location and is used in used in the soare fan is stored in designated soares location and is used in the soare life of the soare location and is used in the soare life of the soare life o	Yes
	* Confirm that the spare fan's bearings are completely filled with grossed/whrisest	~/
	* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated	
	* Comments (see or hear anything unusual?):	2.1
		ND
B.	COVER SYSTEM - BOTTOM FLOOR INSPECTION	
	1. Walk all of the bottom floors	
	Any visible cracks or depressions in the ground floors?	NO
	Any other visible openings (unintended) in the ground floors?	NO
	Note the length of the crack/opening	NIR
	* Note the width of the crack/opening.	AilA
	* Comments:	Allk
		<del></del>
C.	COVER SYSTEM - EXTERIOR INSPECTION	
	1. Walk and inspect the entire perimeter of the Site.	
	2 Walk and increase all of the payed areas (concrete and conhold) of the Site	
	2. Want and inspect an of the paved areas (concrete and aspirat) of the Site.	
	<ol><li>Walk and inspect all of the unpaved areas of the Site including artificial turf field.</li></ol>	
	* Are there any signs of significant cracks, settlement, or deterioration of the paved areas?	No
	Has any of the pavement material been removed?	No
	Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?	NO
	Tave any structures been constructed on the unpaved areas?	No
	Are there any signs of son washing of erusion (guilles, soil washed out onto the pavement)?     Are there any signs of intrusive activities (drilling, digging, trenching, grading, exception, atc.)?	WC MLA
	* Comments:	Ala
		- V 19-
D.	REPAIRS	
-	Summaiza paadad/ampletad repairs to Foois anti- Acatala	
	Summanze needed/completed repairs to Engineering Controls:	· · · · ·
	· · · · · · · · · · · · · · · · · · ·	
	11 1 1	
	Inspector's Signature: AMM MUCVA V	

	Monuny/Severe Condition Inspection Form Mott Haven Campus 730 Concourse Village West, Bronx, New York 10451	
nsp nsp	ector's Name: Robert Rivera JR Weather Conditions: Cloudy 5Kies/17 Air Temperature (°F): High & & Low	4my
nspi Com	ments: everything checkout	
0		
ą.	SSDS SYSTEM INSPECTION	
	1. Walk the entire roof surface of school buildings.	
	* Inspect fan stack guide wires.	1
	<ul> <li>Inspect fan mounting and vibration isolators.</li> </ul>	V
	* Inspect condition of fan belt.	V.
	Inspect alignment of fan belt.	· .
	Record vacuum gauge reading: - 3 - mm 6 - water/	
	inspect boils and set screws for lightness and rusty condition.	<u> </u>
	Are the indicator lights on the Building Management System functioning accessed.	
	Confirm that spare fan is stored in designated secure location and in working condition	763
	* Confirm that the spare fan's bearings are completely filled with grease/lubricant	
	* Rotate the fan wheel of the spare fan several times to ensure that hearings remain lubricated	
	* Comments (see or hear anything unusual?):	
		NI
	Note the length of the crack/opening.     Note the width of the crack/opening.	NA
	* Comments:	NI
	<ol> <li>COVER SYSTEM - EXTERIOR INSPECTION</li> <li>Walk and inspect the entire perimeter of the Site.</li> <li>Walk and inspect all of the paved areas (concrete and asphalt) of the Site.</li> <li>Walk and inspect all of the unpaved areas of the Site including artificial turf field.</li> </ol>	
	* Are there any signs of significant cracks, settlement, or deterioration of the paved areas?	NO
	* Has any of the pavement material been removed?	No
	* Are there signs of vehicular use on the unpaved areas (tire tracks, rufting, etc.)?	1
	<ul> <li>Have any situatives been constructed on the unpaved areas?</li> <li>Are there any situation of only working as areasing (sufficient coll working) and sufficient of the second suff</li></ul>	N;
	Are there any signs of intrusive activities (drilling diagonal transhing grading everything at )?	N
	* Comments:	N
	Summarize needed/completed repairs to Engineering Controls:	·····

	Monthly/Severe Condition Inspection Form
	Mott Haven Campus 730 Concourse Village West, Bronx, New York 10451
Insp	ector's Name: Robert River JR Weather Conditions: Clear Skies
nsp nsp	ection Time: 130 pm Air Temperature (°F): High 79° Low 61°
Con	ments: Everything Checkout
Q	2K
******** A	
••	1. Walk the entire roof surface of school bulidings.
	* Inspect fan stack guide wires.
	* Inspect fan mounting and vibration isolators.
	* Inspect condition of fan belt.
	* Inspect alignment of fan belt.
	* Record vacuum gauge reading: ~150 mm of worker V
	* Inspect bolts and set screws for tightness and rusty condition.
	inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing.
	Are the indicator lights on the Building Management System functioning property?
	Confirm that spare fan is stored in designated secure location and in working condition.
	Continum that the spare tan's bearings are completely tilled with grease/lubricant.
	<ul> <li>Rotate the fail wheel of the spare fan several times to ensure that bearings remain lubricated.</li> <li>Commento (ace or hear on the spare fan several times to ensure that bearings remain lubricated.</li> </ul>
	Comments (see or near anything unusual?): N3 V
	COVER SYSTEM - BOTTOM FLOOR INSPECTION
•	
	1. Walk all of the bottom floors
	* Any visible cracks or depressions in the ground floors?
	* Any other visible openings (unintended) in the ground floors?
	* Draw approximate location of floor cracks/openings on site map.
	* Note the length of the crack/opening.
	Note the width of the crack/opening.
	* Comments: N/A
	• •
	COVER SYSTEM - EXTERIOR INSPECTION
	1 Walk and inspect the entire perimeter of the Site
	2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site.
	3. Walk and inspect all of the unpaved areas of the Site including artificial turf field.
	* Are there any signs of significant cracks, settlement, or deterioration of the paved areas?
	* Has any of the pavement material been removed?
	* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?
	Have any structures been constructed on the unpaved areas?
	Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?
	Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?
	- Comments:
	REPAIRS
	Summarize needed/completed repairs to Engineering Controls:
	4
	Increated Construction And a A and a construction

	Monthly/Severe Co	ondition Inspection Form	
	Mott H 730 Concourse Village	aven Campus West, Bronx, New York 10451	
Inspector's Name: Inspection Date:	Robert Roveres JR 11-03-2013	Weather Conditions: Cloudy Skie Air Temperature (°F): Hich Sci °	5
Inspection Time:	11: po cum	300	
NK	rerthing creck and		
A. SSDS SYST	EM INSPECTION		
1. Walk the	entire roof surface of school buliding	ngs.	
* Inspect fa	an stack guide wires.		1
* Inspect fa	an mounting and vibration isolators.		1
* Inspect c	Ondition of fan belt.		~
* Record v	acuum gauge reading.	on as at when been	$\sim$
* Inspect b	olts and set screws for tightness and r	rusty condition.	
* Inspect for	or cleanliness. Clean exterior surfaces	s only. Remove dust and grease on motor housin	g. V
* Are the ir	Idicator lights on the Building Manage	ment System functioning properly?	5 V.
* Confirm t	that the spare fan's bearings are comp	secure location and in working condition.	
* Rotate th	e fan wheel of the spare fan several ti	meetery miled with grease/ubricant.	
* Commen	ts (see or hear anything unusual?):	nice to cheard that bearings terrain tubicated.	NID
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<ol> <li>Walk all o</li> <li>Any visible</li> </ol>	of the bottom floors	l finare?	NLan
* Any other	r visible openings (unintended) in the	ground floors?	NO Ma
<ul> <li>Draw app</li> </ul>	proximate location of floor cracks/open	ings on site map.	13/14-
* Note the	length of the crack/opening.	· · · · · · · · · · · · · · · · · · ·	NA
* Comment	ts:		NIA
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		· · · · · · · · · · · · · · · · · · ·	
COVERSIS	TEM - EATERIOR INSPECTION	<u>.</u>	
1. Walk and	inspect the entire perimeter of the	Site.	
2. Walk and	inspect all of the paved areas (cond	crete and asphalt) of the Site.	
3. Walk and	inspect all of the unpaved areas of	the Site including artificial turf field.	
* Are there	any signs of significant cracks, settler	ment, or deterioration of the payed areas?	NO
<ul> <li>Has any of</li> </ul>	of the pavement material been remove	ed?	NIN
* Are there	signs of vehicular use on the unpaved	d areas (tire tracks, rutting, etc.)?	NE
* Have any	structures been constructed on the u	npaved areas?	10
* Are there	any signs or son washing of erosion ( any signs of intrusive activities (drillin	guines, son washed out onto the pavement)?	O M
* Comment	ts:	a, maania, dononing, grading, excertaing, etc.)?	
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4			
REPAIRS			
Summarize n	eeded/completed repairs to Engineeri	ng Controls:	
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		13 1	······
	Inspector's Signature:	Marto Reman	
		- <u>4 - 4 - 4 - 4</u>	

	Monthly/Severe Condition Inspection Form	
	Mott Haven Campus 730 Concourse Village West Brony, New York, 10451	
Insp	ector's Name: Robert Rivera Te Weather Conditions: Portin Clar	. Au
Insp	ection Date: 12-07-13 Air Temperature (°F): High Air	5.578
nsp	ection Time: 11:00 (um)	
Con	iments: Evertithung checkout	
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ч.	1. Walk the antire roof surface of school buildings	
	* Inspect for start suits wires	\$
	Inspect fan mounting and vibration isolators	<u> </u>
	* Inspect condition of fan belt	<u>~</u>
	* Inspect alignment of fan beit.	
	* Record vacuum gauge reading: -150 mm us water	
	* Inspect bolts and set screws for tightness and rusty condition.	
	<ul> <li>Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing</li> </ul>	ig. V
	<ul> <li>Are the indicator lights on the Building Management System functioning properly?</li> </ul>	les V
	<ul> <li>Confirm that spare fan is stored in designated secure location and in working condition.</li> </ul>	V.
	Contirm that the spare fan's bearings are completely filled with grease/lubricant.	*/
	Rotate the tan wheel of the spare fan several times to ensure that bearings remain lubricated.	V2
	Comments (see or hear anything unusual?):	NOV
	COVER SYSTEM - BOTTOM ELOOP INSPECTION	
	1. Walk all of the bottom floors	
	* Any visible cracks or depressions in the ground floors?	NO
	* Any other visible openings (unintended) in the ground floors?	NO
	Draw approximate location of floor cracks/openings on site map.	NA
	Note the length of the crack/opening.	NIA
	* Commente:	NIA
		N/#*
	COVER SYSTEM - EXTERIOR INSPECTION	
	1. Walk and inspect the entire perimeter of the Site.	
	2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site.	
	3. Walk and inspect all of the unpaved areas of the Site including artificial surficial	·
	* Are there any since of significant cracks, softlement, or detorioration of the naved areas?	. 1.2
	* Has any of the navement material been removed?	NO
	* Are there signs of vehicular use on the unpaved areas (fire tracks, rutting, etc.)?	AL O
	* Have any structures been constructed on the unpaved areas?	alm
	* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?	A: 12
	* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?	ALC A
	* Comments:	
	REPAIRS	
	Summarize needed/completed repairs to Engineering Controls:	
	<u>.</u>	
	A. A. denteron in	

Monthly/Severe Co	ndition Inspection Form	
Mott Ha 730 Concourse Village V	aven Campus West, Bronx, New York 10451	
nspector's Name: Robert Reversion Date:	Weather Conditions: Clouder 54	) / 1
nspection Time: 10,00 Am		LAN 37
comments: Everything energie put		
A. SSDS SYSTEM INSPECTION		
1. Walk the entire roof surface of school bulidin	igs.	
* Inspect fan stack guy wires.		
<ul> <li>Inspect tan mounting and vibration isolators.</li> <li>Inspect condition of fan bolt</li> </ul>		V
* Inspect alignment of fan belt		;
* Record vacuum gauge reading:	mon out was a	{
* Inspect bolts and set screws for tightness and re-	usty condition.	
<ul> <li>Inspect for cleanliness. Clean exterior surfaces</li> </ul>	only. Remove dust and grease on motor hous	sinn s/
* Is the Building Management System monitoring	SSDS fans and functioning properly?	les V
<ul> <li>Confirm that spare fan is stored in designated se</li> </ul>	ecure location and in working condition.	1
<ul> <li>Confirm that the spare fan's bearings are complete</li> </ul>	etely filled with grease/lubricant.	
Rotate the fan wheel of the spare fan several tin	nes to ensure that bearings remain lubricated.	1
Comments (see or hear anything unusual?):		
and the second se		NON
	-	
COVER SYSTEM - BOTTOM FLOOR INSPECTION	N	
1. Walk all of the bottom floors		
* Any visible cracks or depressions in the ground	floors?	A10
* Any other visible openings (unintended) in the a	round floors?	A 129
<ul> <li>Draw approximate location of floor cracks/opening</li> </ul>	ngs on site map,	N/ 2-
<ul> <li>Note the length of the crack/opening.</li> </ul>		NIA
<ul> <li>Note the width of the crack/opening.</li> </ul>		NIA
- Comments:		NIA
م الم الم الم الم الم الم الم الم الم ال		
COVER SYSTEM - EXTERIOR INSPECTION (Inclu	iding area under platform)	
1. Walk and inspect the entire perimeter of the S	ite.	
2. Walk and inspect all of the payed areas (conci	rete and asphalt) of the Site and under plotf	6 mine
3 Molk and inspect all of the unreaded control		orm.
5. Weak and hispect an of the unpaveu areas of th	ne Site including artificial turf field.	
Are there any signs of significant cracks, settlem	ent, or deterioration of the paved areas?	NO
* Are there signs of unbianderical been removed		N.C.
<ul> <li>Are unere signs or venicular use on the unpaved a</li> <li>Have any structures have constructed as "</li> </ul>	areas (tire tracks, rutting, etc.)?	ALC.
* Are there any signs of soil washing or arraise (	ullion poil weeked and a to the	NO
* Are there any signs of soli washing of erosion (gi	diccing trenching grading current)?	N.Q
* Comments:	ugging, renoring, grading, excavating, etc.)?	20
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REPAIRS		
Summarize neededlosmal-to-describe to P	Combolis	
Summanze needed/completed repairs to Engineering	Controls:	
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Inspector's Signature:	March Marine ~>>	
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Special Name: Concernence of the second sec		
All emperature (h): 24/2 (high of the action actio	nsp	ectors name: Cobert Proverta Size Weather Conditions: MOSHy Sunny 27
Somments         SSDS Farst Farst Farst Farst           SSDS SYSTEM INSPECTION         I. Walk the entire root surface of school buildings.           Inspect fan stack guide wins.         //           Inspect for dealliness. Clean acterior surfaces only. Remove dust and grease on motor housing.         //           // Are the indicator (gins on the Building Management System functioning property?         //           // Confirm that the spare fan is stored in designated secure location and in working condition.         //           // Confirm that the spare fan several gimes to ensure that bearings remain lubricated.         //           // Confirm that the spare fan several gimes to ensure that bearings remain lubricated.         //           // Confirm that the spare fan several gimes to ensure that bearings remain lubricated.         //           // Confirm that the spare fan several gimes to ensure that bearings remain lubricated.         //           // Confirm that the spare fan several gimes to ensure that bearings remain lubricated.         //           // Confirm taits percents or dispressions in the ground flors?         //         //	nsr	ection Date: A 2 - V - Z - V - Air remperature (+): 2-70 itight 36
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SSDS SYSTEM INSPECTION         1. Walk the entire roof surface of school buildings.         Inspect fan mouting and vibration isolators.         Inspect alignment of the belt.         Inspect alignment of the belt.         Record vacuum gauge reading:       -150 mmm Del Wathers.         Inspect for deamlness. Clean exterior surfaces only. Remove dust and grease on motor housing.		
SSDS SYSTEM INSPECTION         1. Walk the entire roof surface of school buildings.         Inspect fan stack guide wires.         Inspect and guide wires.         Inspect alignment of fan belt.         Inspect bolis and set screws for lightness and rusty condition.         Virget bolis and set screws for lightness and rusty condition.         Are the indicator lights on the Building Management System functioning property?         Confirm that space fan's bearings are completely filled with grease/tubricant.         Virget Condition of the space fan's bearings are completely filled with grease/tubricant.         Virget Condition of the space fan's bearings are completely filled with grease/tubricant.         Virget Condition of the space fan's bearings are completely filled with grease/tubricant.         Virget Condition of the space fan's bearings are completely filled with grease/tubricant.         Virget Condition of the space fan's bearings are completely filled with grease/tubricant.         Virget Condition of the space fan's bearings are completely filled with grease/tubricant.         Virget Condition of foor cracks/opening.         Are y visible cracks or depressions in the ground floors?         Are y visible cracks or depressions in the ground floors?		
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Inspect fan stack guide wires.     Inspect fan mounting and vibration isolators.     Inspect and mounting and vibration isolators.     Inspect and mounting and vibration isolators.     Inspect adjumment of fan beit.     Record vacuum gauge reading: -150 mmm and Waches/     Inspect for cleanifiese. Clean exterior surfaces only. Remove dust and grease on motor housing.     Are the indicator lights on the Building Management System functioning property?     Confirm that spare fan is stored in designated secure location and in working condition.     Confirm that spare fan is stored in designated secure location and in working condition.     Confirm that the spare fan's bearings are completely filled with grease fubricant.     Record for cleanifiese fan's bearings are completely filled with grease/lubricant.     Comments (see or hear anything unusual?):     COVER SYSTEM - BOTTOM FLOOR INSPECTION     Walk all of the bottom floors     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions or cracks/opening.     Note the length of the crack/opening.     Note the width of the crack/opening.     Note the width of the crack/opening.     Note the width of the avened areas (concrete and asphait) of the Site.     Wal		1. Walk the entire roof surface of school buildings.
Inspect famounting and ubration isolators.     Inspect alignment of fan belt.     Inspect alignment of fan belt.     Inspect of deamliness of the belt of the store of store of the store of the store of sole washed out onto the pavend areas?      A		* Inspect fan stack guide wires.
Inspect condition of fan belt.     Inspect condition of fan belt.     Record vacuum gauge reading: -150 mm of Wp.4-4     Inspect bolts and set screws for lightness and rusty condition.     Inspect bolts and set screws for lightness and rusty condition.     Are the indicator lights on the Building Management System functioning property?     Confirm that spare fan's bearings are completely filled will grease/ubricant.     Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated.     Comments (see or hear anything unusual?):     COVER SYSTEM - BOTTOM FLOOR INSPECTION     Walk all of the bottom floors     Any visible cracks or depressions in the ground floors?     Any visible cracks or depressions in the ground floors?     Any other visible openings (unintended) in the ground floors?     Any other keating of the crack/opening.     Note the length of the crack/opening.     Note the second of the site.     Walk and inspect all of the paved areas (concrete and asphait) of the Site.     Walk and inspect all of the upaved areas of the Site including artificial turf field.     Are there any signs of significant cracks, settlement, or deterioration of the pavement?     Are there any signs of significant cracks (drilling, digging, trenching, etc.)?     Have any structure see non structed on the upaved areas?     Are there any signs of significant cracks (drilling, digging, trenching, etc.)?     Have any structure see non structure of the Site.     Comments:     Comment:     Comments:     Comments:		Inspect fan mounting and vibration isolators.
Inspect alignment of fan belt.     Record vacuum gauge reading: -150 max of WOAAC     Inspect bots and set screws for tightness and rusty condition.     Inspect bots and set screws for tightness and rusty condition.     Inspect bots and set screws for tightness and rusty condition.     Inspect bots and set screws for tightness and rusty condition.     Are the indicator fights on the Building Management System functioning property?     Confirm that the spare fan's bearings are completely filled with grease/tubricant.     Are the indicator fights on the Building Management System functioning property?     Confirm that the spare fan's bearings are completely filled with grease/tubricant.     Are the indicator fights on the Building Management System functioning property?     Comments (see or hear anything unusual?):     COVER SYSTEM - BOTTOM FLOOR INSPECTION     Walk all of the bottom floors     Any other visible openings (unintender) in the ground floors?     Any other visible cracks or depressions in the ground floors?     Any other visible cracks or depressions in the ground floors?     Any other visible cortain of floor cracks/openings on site map.     Note the length of the crack/opening.     Note the length of the crack/opening.     Note the width of the paved areas (concrete and asphait) of the Site.     Walk and inspect all of the unpaved areas of the Site including artificial turf field.     Are there any signs of significant cracks, settlement, or deterioration of the paved areas?     Are there any signs of significant cracks, settlement, or deterioration of the paveed areas?     Are there any signs of significant cracks, settlement, or deterioration of the paveed areas?     Are there any signs of significant cracks, settlement, or deterioration of the paveement)?     Are there any signs of significant cracks, settlement, or deterioration		* Inspect condition of fan belt.
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2. Walk and inspect all of the paved areas (concrete and asphait) of the Site. 3. Walk and inspect all of the unpaved areas of the Site including artificial turf field.  4. Are there any signs of significant cracks, settlement, or deterioration of the paved areas?  4. Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?  4. Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?  5. Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?  5. Comments:  5. REPAIRS  5. Summarize needed/completed repairs to Engineering Controls:  5. Organ.		1. Walk and inspect the entire perimeter of the Site.
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Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?     Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?     Comments:      REPAIRS      Summarize needed/completed repairs to Engineering Controls:      Porform month (M 's EVENYHMM)      OK		Walk and inspect all of the unpaved areas of the Site including artificial turf field.     Are there any signs of significant cracks, settlement, or deterioration of the paved areas?     Has any of the pavement material been removed?
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Summarize needed/completed repairs to Engineering Controls: Perform monthly Pm's Everythms OK		3. Walk and inspect all of the unpaved areas of the Site including artificial turf field.  * Are there any signs of significant cracks, settlement, or deterioration of the paved areas?  * Has any of the pavement material been removed?  * Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?  * Have any structures been constructed on the unpaved areas?  * Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?  * Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?  * Comments:
Portorm monthly PM's Everything	 D.	3. Walk and inspect all of the unpaved areas of the Site including artificial turf field.  * Are there any signs of significant cracks, settlement, or deterioration of the paved areas?  * Has any of the pavement material been removed?  * Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?  * Have any structures been constructed on the unpaved areas?  * Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?  * Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?  * Comments:  REPAIRS
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	).	Are there any signs of significant cracks, settlement, or deterioration of the paved areas?     Are there any signs of significant cracks, settlement, or deterioration of the paved areas?     Has any of the pavement material been removed?     Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?     Have any structures been constructed on the unpaved areas?     Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?     Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?     Comments:      REPAIRS  Summarize needed/completed repairs to Engineering Controls:      OK
	). 	Are there any signs of significant cracks, settlement, or deterioration of the paved areas?     Has any of the pavement material been removed?     Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?     Have any structures been constructed on the unpaved areas?     Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?     Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?     Comments:     REPAIRS     Summarize needed/completed repairs to Engineering Controls:     Opt

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	Mott Haven Campus
	750 Concourse vinage west, Bronx, New York 10451
Inspe	ector's Name: 120ber 2 12 very JR Weather Conditions: MOSHIN SUMM
Inspe	Air Temperature (°F): 65° Hugh 54°
Inspe	ection Time: 9:00 am - Ow 32
Com	ments: All 6 53 DS Fans are running or
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<b>A</b> .	SSDS SYSTEM INSPECTION
	1. Walk the entire roof surface of school buildings.
	Inspect fair source of ultration inclusion
	Inspect condition of the belt
	Inspect alignment of fan belt
	* Record vacuum gauge reading: ~ 150 mm pt h. I. ho/
	* Inspect bolts and set screws for tightness and rusty condition.
	* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing.
	* Are the indicator lights on the Building Management System functioning properly?
	* Confirm that spare fan is stored in designated secure location and in working condition.
	Confirm that the spare fan's bearings are completely filled with grease/lubricant.
	* Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated.
	Comments (see or hear anything unusual?):
<b>.</b>	COVER SYSTEM - BOTTOM FLOOR INSPECTION
	1. Walk all of the bottom floors
	Any visible cracks or depressions in the ground floors?
	Any other visible openings (unintended) in the ground floors?
	And the location of moor cracks/openings on site map.
	Note the width of the crack/opening
	* Comments:
•	COVER SYSTEM - EXTERIOR INSPECTION
	1. Walk and inspect the entire perimeter of the Site.
	2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site.
	3. Walk and inexact all of the unnaved areas of the Site including artificial turf field
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	* Are there any signs of significant cracks, settlement, or deterioration of the paved areas?
	* Has any of the pavement material been removed?
	* Are there signs of vehicular use on the unpaved areas (tire tracks, rutting, etc.)?
	Have any structures been constructed on the unpaved areas?
	Are there any signs of soil washing or erosion (guilles, soil washed out onto the pavement)?
	Are there any signs of intrusive activities (onling, orgging, trenching, grading, excavating, etc.)?
	CONTINUENDS.
	· · · · · · · · · · · · · · · · · · ·
<b>.</b> .	REPAIKS
	Summarize needed/completed repairs to Engineering Controls:
	perform preventive maintenance nacsos
	Forms will be forms are converting running.
	1 - 2

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	Monthly/Severe Condition Inspection Form
*	Mott Haven Commun
Ļ	730 Concourse Village West, Bronx, New York 10451
Ins	pector's Name: Roby + Byern Ja Weather Conditions: Partly Claudy
Ins	pection Date: $O - 12 - 20 - 1$ Air Temperature (°F): $69^\circ$ Augusta 6.500
Ins	pection Time: 2 DC 2m Line CL
Cor	ments: ALLE SEDS FAMS
<b> </b>	ale running
А.	SSUS SYSTEM INSPECTION
	<ol> <li>Walk the entire roof surface of school bulidings.</li> </ol>
	* Inspect fan stack guide wires.
	* Inspect fan mounting and vibration isolators.
	* Inspect condition of fan belt.
	* Inspect alignment of fan belt.
ľ.	* Record vacuum gauge reading: -150 mm ut water V
Į –	Inspect bolts and set screws for tightness and rusty condition.
	Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing.
	Are the indicator lights on the Building Management System functioning properly?
	Contirm that spare tan is stored in designated secure location and in working condition.
	Commitment the spare tan's bearings are completely filled with grease/lubricant.
	Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated.
	Comments (see or hear anything unusual?): VI berghon Common from
	3223 Fan building A&B. Check bearings
	eran beit.
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	* Note the width of the crack/opening.
	* Comments
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	2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site.
	3. Walk and inspect all of the unpaved areas of the Site including artificial turf field
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	Mott Haven Campus	
<u></u>	730 Concourse Village West, Bronx, New York 10451	
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<b>A.</b>	SSDS SYSTEM INSPECTION  1. Walk the entire roof surface of school buildings.  * Inspect fan stack guide wires.  * Inspect fan mounting and vibration isolators.  * Inspect condition of fan belt.  * Inspect alignment of fan belt.  * Record vacuum gauge reading: * 150 MM Of work effective for tightness and rusty condition. * Inspect bolts and set screws for tightness and rusty condition. * Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing. * Are the indicator lights on the Building Management System functioning property? * Confirm that spare fan is stored in designated secure location and in working condition. * Confirm that spare fan's bearings are completely filled with grease/lubricant. * Rotate the fan wheel of the spare fan several times to ensure that bearings remain lubricated. * Comments (see or bear anything unusual?):	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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	Monthly/Severe Condition Inspection Form
	Mott Haven Campus
	/30 Concourse Village West, Bronx, New York 10451
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	Inspect fan mounting and vibration isolators.
	Inspect condition of fan belt.
	* Record vocuum dauge reading:
	* Inspect bolts and set screws for tightness and risty condition
	* Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing.
	* Are the indicator lights on the Building Management System functioning property?
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	* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)?
	* Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?
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L	Mott Haven Campus	
	730 Concourse Village West, Bronx, New York 10451	
Ins	pector's Name: Robert River Jr Weather Conditions: Mostly Clauder 12	6
Insp	Dection Date: 7/1.8/11/ Air Temperature (°F): 7/2 3	
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Attachment 3 Biweekly Inspection Logs



1430 Broadway 10th Floor New York, NY 10018



www.TRCsolutions.com

August 11, 2014

Ms. Lee Guterman, Deputy Director Industrial & Environmental Hygiene Division New York City School Construction Authority 30-30 Thomson Avenue Long Island City, New York 11101

Re: SSDS Certification Mott Haven Campus – X790 730 Concourse Village West Bronx, New York SCA LLW# 033485, Job# 34857 NYSDEC BCP No. C203030

Dear Ms. Guterman:

In connection with the Mott Haven Campus located at 730 Concourse Village West, Bronx, New York, please accept this letter as certification that TRC Engineers, Inc. (TRC) performed inspections of the subslab depressurization system (SSDS) on August 7, 2013, August 22, 2013 and September 4, 2013 on behalf of the New York City School Construction Authority, in accordance with the New York State Department of Environmental Conservation-approved November 2008 Site Management Plan. The SSDS fans were operating normally during each TRC inspection completed on these dates.

Sincerely, TRC Engineers, Inc.



Jennifer DiPilato, P.E. NYS Professional Engineer License No. 085404

Under New York State Education Law Article 145 (Engineering), Section 7209 (2), it is a violation of this law for any person, unless acting under the direction of a Licensed Professional Engineer, to alter this document.

Attachment A – TRC SSDS Inspection Reports (8/7/13, 8/22/13 and 9/4/13)

ATTACHMENT A TRC SSDS INSPECTION REPORTS (8/7/13, 8/23/13 and 9/4/13)



1430 Broadway 10th Floor New York, NY 10018

212.221.7822 PHONE 212.221.7840 FAX

www.TRCsolutions.com

# FIELD ACTIVITY DAILY LOG

Date: 08/7/13

Author: Kevin Boger

Attendees: None

Project Name: NYCSCA Mott Haven LLW No.: 033485 IEH No.: 41747 TRC Project No.: 192455

Field Activity Subject: Sub-Slab Depressurization System (SSDS) Bi-Weekly Inspection

### **Description of Daily Activities and Events:**

- TRC on-site.
- Checked in with front desk and custodian's office to sign in.
- All six SSDS suction fans were operating.
- TRC tested the connection of each pressure switch (installed near the inlet of each suction fan) to the Building Management System. Please see below for results of the BMS test and vacuum readings at each suction fan.

### Building "D":

- EF-4: 4.50 inches of water vacuum
- o Status of pressure switch registers on BMS

## Building "C":

- EF-3: 4.50 inches of water vacuum
- Status of pressure switch registers on BMS

### Building "B":

- EF-2: 4.50 inches of water vacuum
- Status of pressure switch registers on BMS
- EF-6: 5.25 inches of water vacuum
- o Status of pressure switch registers on BMS

#### Building "A":

- EF-1: 4.50 inches of water vacuum
- Status of pressure switch does not register on BMS
- EF–5: 4.75 inches of water vacuum
- Status of pressure switch <u>does not</u> register on BMS

When performing this BMS test every fan was shut down and then the fan status messages were noted at the BMS. Additionally when all SSDS fans were turned on the status of the fans in alarm (EF-2, EF-3, EF-4, and EF-6) did not reset back to normal status and remained in alarm.



1430 10th New 2 212.3 212.3

1430 Broadway 10th Floor New York, NY 10018

212.221.7822 PHONE 212.221.7840 FAX

www.TRCsolutions.com

# FIELD ACTIVITY DAILY LOG

Date: 08/22/13

Author: Phillip Castellano

Attendees: None

Project Name: NYCSCA Mott Haven LLW No.: 033485 IEH No.: 41747 TRC Project No.: 192455

Field Activity Subject: Sub-Slab Depressurization System (SSDS) Bi-Weekly Inspection

## **Description of Daily Activities and Events:**

- TRC on-site.
- Checked in with front desk and custodian's office to sign in.
- All six SSDS suction fans were operating.
- See below for pressure gauge readings from for each suction fan installation.
  - Building "D":
  - EF-4: 5.00 inches of water vacuum
  - Building "C":
  - EF-3: 4.50 inches of water vacuum
  - Building "B":
  - EF-2: 4.50 inches of water vacuum
  - EF-6: 5.50 inches of water vacuum
  - Building "A":
  - EF-1: 4.50 inches of water vacuum
  - EF-5: 5.00 inches of water vacuum
- The Building Management System (BMS) is up and running.



1430 Broadway 10th Floor New York, NY 10013

> 212.221.7822 PHONE 212.221.7840 FAX

www.TRCsolutions.com

# FIELD ACTIVITY DAILY LOG

Date: 09/04/13

Author: Sanjay Sharma

Attendees: None

Project Name: NYCSCA Mott Haven LLW No.: 033485 IEH No.: 41747 TRC Project No.: 192455

Field Activity Subject: Sub-Slab Depressurization System (SSDS) Bi-Weekly Inspection

#### **Description of Daily Activities and Events:**

- TRC on-site.
- Checked in with front desk and custodian's office to sign in.
- All six SSDS suction fans were operating.
- See below for pressure gauge readings from for each suction fan installation.
  - Building "D":
  - EF-4: 5.00 inches of water vacuum
  - Building "C":
  - EF-3: 4.50 inches of water vacuum
  - Building "B":
  - EF-2: 4.50 inches of water vacuum
  - EF-6: 5.75 inches of water vacuum
  - Building "A":
  - EF-1: 4.50 inches of water vacuum
  - EF-5: 4.75 inches of water vacuum
- The Building Management System (BMS) is functional at this school. However, the Custodian could not log into the system because of ongoing electrical work so the status of the BMS could not be checked with respect to each individual fan during this site inspection. Please refer to TRC's latest inspection report for the BMS at this school, dated 8/7/13, for a list of outstanding issues.



Attachment 4 Semiannual Groundwater Monitoring Reports



August 7, 2014

Ms. Lee Guterman Deputy Director Industrial & Environmental Hygiene Division New York City School Construction Authority 30-30 Thomson Avenue Long Island City, New York 11101

Re: Certification of Groundwater Monitoring Mott Haven Campus 730 Concourse Village West Bronx, New York 10451 SCA LLW# 033485 / SCA Job# 41747 BCP No. C203030

Dear Ms. Guterman:

Pursuant to the New York State Department of Environmental Conservation (NYSDEC)approved November 2008 Site Management Plan, this letter certifies that on December 27, 2013, STV conducted semi-annual groundwater monitoring (14<sup>th</sup> event, 10<sup>th</sup> semiannual event). The Semi-Annual Groundwater Monitoring report was submitted to NYSDEC on February 11, 2014, under separate cover.

If you have any questions, please contact me at 212-614-3450.

Sincerely,

STV INCORPORATED

Robert E. Fields, P.E. NYS Professional Engineer #092680



225 PARK AVENUE SOUTH NEW YORK, NEW YORK 10003-1604 (212) 777-4400 FAX: (212) 529-5237



February 4, 2014

Ms. Sondra Martinkat Environmental Engineer 2 New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation, Region 2 Office 47-40 21<sup>st</sup> Street Long Island City, New York 11101

Re: Semi-Annual Groundwater Monitoring December 2013 (14th Event, 10<sup>th</sup> Semi-Annual Event) Mott Haven Campus 730 Concourse Village West Bronx, New York 11375 SCA LLW# 033485/SCA Job #41747 BCP No. C203030

Dear Ms. Martinkat:

On behalf of the New York City School Construction Authority (NYCSCA), STV Incorporated (STV) has prepared this semi-annual report regarding the post-remediation groundwater sampling at the Mott Haven Campus (i.e., the "Site). Groundwater monitoring results are being reported in accordance with the November 2008 Mott Haven Site Management Plan (SMP), approved by the New York State Department of Environmental Conservation (NYSDEC, the Department) on November 25, 2008. The groundwater monitoring data will be submitted via email to the NYSDEC in Electronic Data Deliverable (EDD) format for input into the Department's database.

On December 27, 2013, water levels were measured in the seven existing on-site monitoring wells and four upgradient and off-site monitoring wells on Concourse Village West. The depth to water measurements and corresponding groundwater elevations are summarized in Table 1. Groundwater contours based on measured groundwater elevation data on the Site are shown in Figure 2. The contours depicted on Figure 2 indicate that the direction of horizontal groundwater flow is generally toward the southeast, consistent with data obtained during the remedial investigation and previous groundwater monitoring events.

On December 27, 2013, groundwater samples were collected from the seven existing on-site monitoring wells MW-3R, MW-5R, MW-11R, MW-23, MW-24, MW-25, and MW-26R as shown on Figure 1. Sampling was performed in accordance with the Sampling Event Protocol presented in Section 3.3.4 of the SMP. Field sampling logs for the groundwater sampling are presented in *Appendix A*.

Groundwater samples were submitted to York Analytical Laboratories, Inc. (York) of Stratford, Connecticut, a New York State Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis for Target Compound List (TCL) volatile organic compounds (VOCs) plus methyl tert-butyl ether (MTBE) per the United States Environmental Protection Agency (USEPA) Method 8260. Table 2 summarizes the groundwater analytical data. The laboratory report for the groundwater sample analysis is provided in *Appendix B*, and *Appendix C* contains York's ELAP certification forms.

No VOCs were detected in the trip blank sample, indicating that the samples were not exposed to any environment that might impact the sample integrity. The field duplicate sample was collected from MW-

Semi-Annual Groundwater Monitoring December 2013 (14th Event, 10th Semi-Annual Event) Mott Haven Campus Ms. Sondra Martinkat, NYSDEC February 4, 2014 Page 2

25. No VOCs were detected above the laboratory method detection limit in the primary sample or the duplicate sample. All other laboratory QC criteria (i.e., surrogate recoveries) were acceptable, with the exception of the surrogate, "Toluene-d8" which was recovered above acceptable limits in all of the samples analyzed. These surrogate recovery results are not anticipated to affect the usability of the data.

The laboratory analytical results reported only one VOC detected in one groundwater sample at a concentration greater than the NYSDEC Class GA Values. Tetrachloroethene (PCE) was detected in monitoring well MW-24 at a concentration of 15  $\mu$ g/L, which exceeded the NYSDEC Class GA groundwater standard (principal organic contaminant standard) of 5.0  $\mu$ g/L. In previous sampling events, PCE concentrations in groundwater samples collected from MW-24 have ranged between non-detect and 51  $\mu$ g/L. No other VOCs were detected in MW-24 during this sampling event. Monitoring well MW-24 is located on the upgradient side of the Site, and the VOC detected in the groundwater sample collected from MW-24 is likely from an upgradient source. No VOCs were detected in the groundwater sample collected from the other upgradient monitoring wells MW-23, MW-25, and MW-26R.

Samples analyzed from the three downgradient monitoring wells, MW-3R. MW-5R, and MW-11R, did not detect any VOCs above the Class GA Values. Cis-1,2-dichloroethene and vinyl chloride were detected at estimated concentrations of 0.82  $\mu$ g/L and 1.0  $\mu$ g/L in MW-3R, respectively. These concentrations are below the Class GA Values of 5.0  $\mu$ g/L for cis-1,2-dichloroethene and 2.0  $\mu$ g/L for vinyl chloride.

No other VOCs were detected in groundwater at concentrations exceeding the laboratory method detection limits or the reporting limits.

The remedial objective for groundwater in the NYSDEC approved Remedial Action Work Plan (RAWP) is to maintain existing groundwater quality at the downgradient property line. VOCs in downgradient monitoring wells MW-3R, MW-5R and MW-11R were non-detect or below Class GA groundwater quality standards. Accordingly, the remedial objectives for groundwater continue to be met per the RAWP.

Please do not hesitate to contact me at (914) 400-5205 if you have any questions or require additional information regarding this project.

Sincerely,

**STV Incorporated** 

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Michael R. Sherwood, CPG Senior Consultant

cc: D. Hettrick, P.E., New York State Department of Health (NYSDOH) L. Guterman, NYCSCA



August 7, 2014

Ms. Lee Guterman Deputy Director Industrial & Environmental Hygiene Division New York City School Construction Authority 30-30 Thomson Avenue Long Island City, New York 11101

Re: Certification of Groundwater Monitoring Mott Haven Campus 730 Concourse Village West Bronx, New York 10451 SCA LLW# 033485 / SCA Job# 41747 BCP No. C203030

Dear Ms. Guterman:

Pursuant to the New York State Department of Environmental Conservation (NYSDEC)approved November 2008 Site Management Plan, this letter certifies that on June 29, 2014, STV conducted semi-annual groundwater monitoring (15<sup>th</sup> event, 11<sup>th</sup> semi-annual event). The Semi-Annual Groundwater Monitoring report was submitted to NYSDEC on August 1, 2014, under separate cover.

If you have any questions, please contact me at 212-614-3450.

Sincerely,

STV INCORPORATED

Robert E. Fields, P.E. NYS Professional Engineer #092680



225 PARK AVENUE SOUTH NEW YORK, NEW YORK 10003-1604 (212) 777-4400 FAX: (212) 529-5237



August 1, 2014

Ms. Sondra Martinkat Environmental Engineer 2 New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation, Region 2 Office 47-40 21<sup>st</sup> Street Long Island City, New York 11101

## Re: Semi-Annual Groundwater Monitoring June 2014 (15th Event, 11<sup>th</sup> Semi-Annual Event) Mott Haven Campus 730 Concourse Village West Bronx, New York 11375 SCA LLW# 033485/SCA Job #41747 BCP No. C203030

Dear Ms. Martinkat:

On behalf of the New York City School Construction Authority (NYCSCA), STV Incorporated (STV) has prepared this semi-annual report regarding the post-remediation groundwater sampling at the Mott Haven Campus (i.e., the "Site). Groundwater monitoring results are being reported in accordance with the November 2008 Mott Haven Site Management Plan (SMP), approved by the New York State Department of Environmental Conservation (NYSDEC, the Department) on November 25, 2008. The groundwater monitoring data will be submitted via email to the NYSDEC in Electronic Data Deliverable (EDD) format for input into the Department's database.

On June 29, 2014, water levels were measured in the seven existing on-site monitoring wells and five upgradient and off-site monitoring wells on Concourse Village West. The depth to water measurements and corresponding groundwater elevations are summarized in Table 1. Groundwater contours based on measured groundwater elevation data on the Site are shown in Figure 2. The contours depicted on Figure 2 indicate that the direction of horizontal groundwater flow is generally toward the southeast, consistent with data obtained during the remedial investigation and previous groundwater monitoring events.

On June 29, 2014, groundwater samples were collected from the seven existing on-site monitoring wells MW-3R, MW-5R, MW-11R, MW-23, MW-24, MW-25, and MW-26R as shown on Figure 1. Sampling was performed in accordance with the Sampling Event Protocol presented in Section 3.3.4 of the SMP. Field sampling logs for the groundwater sampling are presented in *Appendix A*.

Groundwater samples were submitted to York Analytical Laboratories, Inc. (York) of Stratford, Connecticut, a New York State Environmental Laboratory Approval Program (ELAP) certified laboratory for analysis for Target Compound List (TCL) volatile organic compounds (VOCs) plus methyl tert-butyl ether (MTBE) per the United States Environmental Protection Agency (USEPA) Method 8260. Table 2 summarizes the groundwater analytical data. The laboratory report for the groundwater sample analysis is provided in *Appendix B*, and *Appendix C* contains York's ELAP certification forms.

Acetone was detected in samples collected from MW-11R, MW-23, MW-24, MW-25, MW-26R, the field duplicate collected from MW-3R, and the trip blank. The laboratory report flagged each detection of acetone with a "B" qualifier, which indicates that the analyte was found in the associated analysis batch

Semi-Annual Groundwater Monitoring June 2014 (15th Event, 11th Semi-Annual Event) Mott Haven Campus Ms. Sondra Martinkat, NYSDEC August 1, 2014 Page 2

blank and should be considered a laboratory artifact. The detection of acetone is not associated with groundwater contamination at the site, and will not be considered further.

The field duplicate sample was collected from MW-3R. No VOCs were detected above the laboratory method detection limit in the primary sample or the duplicate sample. As indicated in Appendix B, there were several constituents noted as being high bias or low bias in the laboratory control sample (LCS). However, this does not impact the usability of the data or the conclusions in this report.

The laboratory analytical results reported only one VOC detected in one groundwater sample at a concentration greater than the NYSDEC Class GA Values. Tetrachloroethene (PCE) was detected in monitoring well MW-24 at a concentration of 25  $\mu$ g/L, which exceeded the NYSDEC Class GA groundwater standard of 5.0  $\mu$ g/L. In previous sampling events, PCE concentrations in groundwater samples collected from MW-24 have ranged between non-detect and 51  $\mu$ g/L. TCE was the only other VOC detected in MW-24 at an estimated concentration of 3.1  $\mu$ g/L, which is less than the NYSDEC Class GA groundwater standard of 5.0  $\mu$ g/L. Monitoring well MW-24 is located on the upgradient side of the Site and the detections are likely from an upgradient source. No VOCs were detected in the other upgradient monitoring wells (MW-23, MW-25, and MW-26R).

No VOCs were detected in the three downgradient monitoring wells, MW-3R, MW-5R, and MW-11R.

The remedial objective for groundwater in the NYSDEC approved Remedial Action Work Plan (RAWP) is to maintain existing groundwater quality at the downgradient property line. No VOCs were detected in downgradient monitoring wells MW-3R, MW-5R and MW-11R during this sampling event. Accordingly, the remedial objectives for groundwater continue to be met per the RAWP.

Please do not hesitate to contact me at (914) 400-5205 if you have any questions or require additional information regarding this project.

Sincerely,

**STV Incorporated** 

n/L.L

Michael R. Sherwood, CPG Senior Consultant

cc: C. Bethoney, New York State Department of Health (NYSDOH) L. Guterman, NYCSCA



Attachment 5 Photographic Documentation

#### New York City Department of Education Mott Haven (PS X790) 730 Concourse Village West Bronx, NY 10451 August 28, 2014



Photo 1: View of BMS on typical SSDS fan unit (EF-1).



Photo 2: View of spare SSDS fan unit (EF-7) in Room B80.



Photo 3: View of typical SSDS roof fan unit (EF-2).



Photo 5: View of typical SSDS fan belt and assembly (EF-4).



Photo 4: View of typical vacuum gauge associated with SSDS fan units (EF-2).



Photo 6: View of typical bare floor in the Fire Pump Room (Room C20D).

#### New York City Department of Education Mott Haven (PS X790) 730 Concourse Village West Bronx, NY 10451 August 28, 2014



Photo 7: View of typical bare concrete floor in Stairwell G.



Photo 9: View of artificial turf on football field.



Photo 8: View of typical sidewalk pavers.



Photo 10: View of various site covers.



Attachment 6 Annual Inspection Forms

	Annual Inspection Form
	Mott Haven Campus 730 Concourse Village West, Bronx, New York 10451
Insp Insp Insp Com	ector's Name: Gilberf Ceden ection Date: 8/1/14 ection Time: k Am ments: Weather Conditions: Sunny Air Temperature (°F): 80° 8° Air Temperature (°F): 80° 8° Conditions: Sunny
Α.	PRE INSPECTION CHECKLIST         *       Schedule Annual Inspection when school is not occupied by students.         *       Review 12 Previous Monthly Inspection Checklists.         *       Meet with Custodian and Principal to solicit comments/concerns regarding the operation of the Engineering Controls over the last 12 months.         *       Conduct Annual Refresher SMP Training with DOE, DSF.         *       Comments:
В.	SSDS SYSTEM INSPECTION         1. Walk the entire roof surface of school buildings.         *       Inspect fan stack guy wires.         *       Inspect fan mounting and vibration isolators.         *       Inspect an mounting and vibration isolators.         *       Inspect condition of fan belt.         *       Inspect alignment of fan belt.         *       Record vacuum gauge reading.         *       - 4.5 " - 6" H₂o         *       Inspect bolts and set screws for tightness and rusty condition.         *       Verify spare fan is available, properly lubricated, and properly stored. Yes Record B& o         *       Verify spare fan parts (i.e. drive belts) are available and in good condition.         *       Inspect for cleanliness. Clean exterior surfaces only. Remove dust and grease on motor housing,         *       Are the indicator lights on the Building Management System functioning properly? Yes         *       Comments (see or hear anything unusual?):         M bration Aumpny       Mod BKbb requires official
C.	COVER SYSTEM - BOTTOM FLOOR INSPECTION         1. Walk all of the bottom floors         * Any visible cracks or settlement in the ground floors? No         * Any other visible openings (unintended) in the ground floors? No         * Any other visible cracks in elevator pit or other accessible pits? I reaccessible         * Draw approximate location of floor cracks/openings on site map. J (A         * Note the length of the crack/opening. J (A         * Note the width of the crack/opening. N(A         * Comments:

	Annual Inspection Form
	Mott Haven Campus
	730 Concourse vinage west, Bronx, New York 10451
).	COVER SYSTEM - EXTERIOR INSPECTION (Including area under platform)
	1. Walk and inspect the entire perimeter of the Site and the concrete cap under platform.
	2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site, including areas under PS 156 and IS 151
	3. Walk and inspect all of the unpaved areas of the Site including artificial turf field
	* Are there any signs of significant cracks, settlement or deterioration of the paved areas?
	Has any of the pavement material been removed? NO
	* Have any structures been constructed on the unpaved areas?
	* Inspect synthetic turf Any problems identified? At loss $(D = a \cos \frac{1}{2} + \frac{1}{2} + \frac{1}{2})$
	* Are the flush-mounted caps/protective casings for the 7 monthoring wells secured?
	* Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement)? Sign hilly
	* Are there any signs of intrusive activities (drilling, diagina, trenching, arading, excavating, etc.)? MO
	* Comments:
=.	VAPOR BARRIER INSPECTION
	VAPOR BARRIER INSPECTION 1. Walk all of the bottom floors
<u> </u>	VAPOR BARRIER INSPECTION  1. Walk all of the bottom floors  * Review all cracks or other openings indentified in ground floors during previous inspections.
	VAPOR BARRIER INSPECTION         1. Walk all of the bottom floors         * Review all cracks or other openings indentified in ground floors during previous inspections.         * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.         * Draw computing the test at each identified crack/opening/depression using environmentally safe smoke.
Ξ.	VAPOR BARRIER INSPECTION         1. Walk all of the bottom floors         * Review all cracks or other openings indentified in ground floors during previous inspections.         * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.         * Draw approximate location of floor cracks/openings that appear to have potential leak through
Ξ.	<ul> <li>VAPOR BARRIER INSPECTION</li> <li>1. Walk all of the bottom floors</li> <li>* Review all cracks or other openings indentified in ground floors during previous inspections.</li> <li>* Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke. *//*     </li> <li>* Draw approximate location of floor cracks/openings that appear to have potential leak through         vapor barrier.      </li> <li>* Location of floor cracks/openings that appear to have potential leak through         vapor barrier. </li> </ul>
<u>.</u> .	<ul> <li>VAPOR BARRIER INSPECTION</li> <li>1. Walk all of the bottom floors</li> <li>* Review all cracks or other openings indentified in ground floors during previous inspections.</li> <li>* Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke. *//*     </li> <li>* Draw approximate location of floor cracks/openings that appear to have potential leak through         vapor barrier.      </li> <li>* Identify sources of potential impact to smoke test (i.e., HVAC vent nearby). </li> <li>* Pada smake test at least in of notactial venes herrier leak after scaling of neutrons of potential</li> </ul>
<u> </u>	<ul> <li>VAPOR BARRIER INSPECTION</li> <li>1. Walk all of the bottom floors</li> <li>* Review all cracks or other openings indentified in ground floors during previous inspections.✓</li> <li>* Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke. */A * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier. N /A * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby). /A * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact * Identify approximate location of potential vapor barrier leak after sealing off sources of potential</li></ul>
	VAPOR BARRIER INSPECTION         1. Walk all of the bottom floors         * Review all cracks or other openings indentified in ground floors during previous inspections.         * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.          * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier.          * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby).          * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact.          * Impact.          M_A
	VAPOR BARRIER INSPECTION         1. Walk all of the bottom floors         * Review all cracks or other openings indentified in ground floors during previous inspections.         * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.          * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier.          * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby).          * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact.          M_A         Comments:
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E. 	VAPOR BARRIER INSPECTION         1. Walk all of the bottom floors         * Review all cracks or other openings indentified in ground floors during previous inspections.         * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.         * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier.         * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby).         * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact.         M_A         Comments:
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E. F.	VAPOR BARRIER INSPECTION         1. Walk all of the bottom floors         * Review all cracks or other openings indentified in ground floors during previous inspections.         * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.          * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier.          * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby).          * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact.          * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact.          * M_A         Comments:         *
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E.	VAPOR BARRIER INSPECTION         1. Walk all of the bottom floors         * Review all cracks or other openings indentified in ground floors during previous inspections.         * Conduct smoke test at each identified crack/opening/depression using environmentally safe smoke.          * Draw approximate location of floor cracks/openings that appear to have potential leak through vapor barrier.          * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby).          * Identify sources of potential impact to smoke test (i.e., HVAC vent nearby).          * Redo smoke test at location of potential vapor barrier leak after sealing off sources of potential impact.          M_A         Comments:         Repair         Summarize needed/completed repairs to Engineering Controls:         Repair         Marking dynamic dynamic cracks.         Marking dynamic dynamic cracks.         Marking dynamarks.         Marking dynam
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Attachment 7 Training Acknowledgement



**Shaping the Future** 

104 East 25<sup>th</sup> St, 10<sup>th</sup> Floor New York, NY 10010-2917 www.cardnoatc.com 212-353-8280 Fax 212-353-8306

## Annual Training Acknowledgement Engineering Controls Operation and Maintenance

Location:

Custodian/Fireman: Robert Rovera JR

I, <u>Coloert Rueze Me</u>, received annual refresher training on Engineering Controls Operation and Maintenance by Cardno ATC on <u>Operation</u>. As part of the annual refresher training I conducted a walkthrough with Cardno ATC during which all elements covered by the Operation and Maintenance Plan were explained to me including the completion of the daily logs and monthly inspection form.

Abut diverang

Signed by: <u>Robert Rivera</u> JR Custodian/Fireman

Date: 8/01/14

**Recommendations:** Ports reiven - Replace SSDS champ cloth on SSDS fan vait EF-6 and rans Repaired Observed worn bearings on sale for white EES C.S. evaluation advisert that Bat THE STORE STORE TO CALLY Repair on tificial Botball field cover by the east end of the 40' yaval line, depression (2'x1') observed. -observed soil errorion adjacent to the auditorium building by the 45 yord line a approx 3 Ft-3 of soil required. - Repair cracks around manipole on East Acess drive by the 35 yard Line.