

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



	Sit	e No.	231087	Site Details			Box 1			
33	Site Name Former 110th Street Service Station									
1 1	Site Address: 2040 Frederick Douglass Boulevard Zip Code: 10026 City/Town: New York County: New York Site Acreage: 0.3									
	Re	porting Period:	December 23, 2015 to N	<i>l</i> larch 24, 201	7					
							YES	NO		
	1.	Is the information	ion above correct?							
		If NO, include	handwritten above or on	a separate sh	neet.					
1	2.		II of the site property bee dment during this Report		vided, merged, or u	indergone a				
	3.	Has there beer (see 6NYCRR	n any change of use at th 375-1.11(d))?	ne site during	this Reporting Perio	od			X	
2	4.		ral, state, and/or local pe operty during this Report		uilding, discharge) b	been issued				×
			ed YES to questions 2 tation has been previo							
;	5.	Is the site curre	ently undergoing develop	ment?						
					<i>1</i> 0		Box 2			
							YES	NO		
(6.	Is the current s	ite use consistent with th	ne use(s) liste	d below?		×			
ļ	7.	Are all ICs/ECs	s in place and functioning) as designed	?					
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.									
1	A Corrective Measures Work Plan must be submitted along with this form to address these issues.									
	Signature of Øwner, Remedial Party or Designated Representative Date									

		Box 2/	۹.
8. Has any new information revealed that assumptions made ir	the Qualitative Exposure	YES	NO
Assessment regarding offsite contamination are no longer va		⊠	
If you answered YES to question 8, include documentation that documentation has been previously submitted with			
 Are the assumptions in the Qualitative Exposure Assessmer (The Qualitative Exposure Assessment must be certified even 			
If you answered NO to question 9, the Periodic Review F updated Qualitative Exposure Assessment based on the			
SITE NO. C231087		Box	3
Description of Institutional Controls			
Parcel Owner 1-1826-1 Crescent 110 Equities LLC	Institutional Control		
	Ground Water Use Restri Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan	ction	
A series of Institutional Controls (ICs) is required by the Decision D maintain and monitor Engineering Control systems; (2) prevent futu contamination; and, (3)limit the use and development of the site to Adherence to these ICs on the site is required by the Environmenta implemented under the Site Management Plan (SMP). ICs identifier may not be discontinued without an amendment to or extinguishme These ICs are: • The property may be used for: restricted residential use; • All ECs must be operated and maintained as specified in the SMI • All ECs must be inspected at a frequency and in a manner define • The use of groundwater underlying the property is prohibited with treatment as determined by the NYSDOH or the NY City Departmet use as drinking water or for industrial purposes, and the user must first approval to do so from the Department; • Groundwater and other environmental or public health monitoring the SMP; • Data and information pertinent to site management must be repor- manner as defined in the SMP; • All future activities that will disturb remaining contaminated mater accordance with the SMP; • Monitoring to assess the performance and effectiveness of the re defined in the SMP; • Operation, maintenance, monitoring, inspection, and reporting of component of the remedy shall be performed as defined in the SMI • Access to the site must be provided to agents, employees or othe New York with reasonable prior notice to the property owner to ass restrictions identified by the Environmental Easement; • Vegetable gardens and farming on the site are prohibited (refers	are exposure to remaining Restricted Residential uses al Easement and will be d in the Environmental Ease ent of the Environmental Ease P; ed in the SMP; nout necessary water quality ent of Health to render it safe notify and obtain written a must be performed as defir rited at the frequency and in ial must be conducted in medy must be performed as any mechanical or physical P; er representatives of the State aure compliance with the	ement ement. e for ned in a	
and does not prohibit raised gardens, rooftop gardens, etc.)		Box	4
Description of Engineering Controls		200	
besonption of Engineering controls			

Parcel	Engineering Control		
1-1826-1	Groundwater Treatment System		
A portion of the site	Cover System		
prevent exposure to consisting of injectio	has achieved a Track 4 cleanup. The cover system, consisting of con ete building slab, is a required engineering control (EC) in these areas residual soil contamination. The other EC is a chemical oxidant treatr n wells for chemical oxidant in the event additional groundwater treatn g wells also exists for monitoring groundwater quality and the effective ent.	s in orden nent system	er to stem, equired A
			Box 5
Perio	dic Review Report (PRR) Certification Statements		
. I certify by chec	king "YES" below that:		
a) the Pe reviewed	riodic Review report and all attachments were prepared under the dire by, the party making the certification;	ection of	, and
are in acc	best of my knowledge and belief, the work and conclusions described ordance with the requirements of the site remedial program, and gene ng practices; and the information presented is accurate and compete.	in this c rally ac	ertification cepted
, i i i i i i i i i i i i i i i i i i i	or accurate and the memory precented to decurate and compete.	YES	NO
		X	
If this site has an or Engineering of following statem	n IC/EC Plan (or equivalent as required in the Decision Document), for control listed in Boxes 3 and/or 4, I certify by checking "YES" below the ents are true:	r each li at all of t	nstitutional he
(a) the Ins the date th	stitutional Control and/or Engineering Control(s) employed at this site in the Control was put in-place, or was last approved by the Departme	s uncha ent;	inged since
(b) nothin the enviro	g has occurred that would impair the ability of such Control, to protect nment;	public ł	nealth and
(c) access including a	s to the site will continue to be provided to the Department, to evaluate access to evaluate the continued maintenance of this Control;	e the rer	nedy,
(d) nothin Manageme	g has occurred that would constitute a violation or failure to comply wi ent Plan for this Control; and	th the S	ite
(e) if a fina mechanisr	ancial assurance mechanism is required by the oversight document fo n remains valid and sufficient for its intended purpose established in th	r the sit	e, the ment.
		YES	NO
		X	
ſ	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 Meas	ures Work Plan must be submitted along with this form to address th	nese iss	ues.
124	<u>uund</u> 5-12-17		
Signature of Owner	Remedial Party or Designated Representative Date		

IC CERTIFICATIONS SITE NO. C231087	
	Box 6
SITE OWNER OR DESIGNATED REPRESENTATIVE S I certify that all information and statements in Boxes 1,2, and 3 are true. statement made herein is punishable as a Class "A" misdemeanor, pursu Penal Law.	I understand that a false
I Ronen Haron at Crescent 110 Equ: print name print business addre	
am certifying asOwner	(Owner or Remedial Party)
for the Site named in the Site Details Section of this form. Signature of Owner, Remedial Party, or Designated Representative Bendering Certification	5-12-17 Date

•2

IC/EC CERTIFICATIONS	
Qualified Environmental Professional Signature	Box 7
I certify that all information in Boxes 4 and 5 are true. I understand that a false state punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal La	ment made herein i aw.
I Ariel Czemerinski at AMC Engineering PLLC print name print business address	
am certifying as a Qualified Environmental Professional for theRemedial Pa	arty
Aurent E	а⊨≃апу)
078508 078508	5-12-17
Signature of Qualified Environmental Professional, for Stamp the Owner or Remedial Party, Rendering Certification (Required for PE)	Date

FORMER 110TH STREET SERVICE STATION 2040 FREDRERICK DOUGLAS BOULEVARD, NEW YORK, NEW YORK BLOCK 1826, LOT 1

PERIODIC REVIEW REPORT

NYSDEC BCP Number: C231087

Prepared for:

New York State Department of Environmental Conservation Division of Environmental Remediation, Region 2 47-40 21st Street Long Island City, NY 11101-5407

Prepared by:



REPORTING PERIOD: DECEMBER 23, 2015 TO MARCH 24, 2017

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VII. OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS	VII.			



FIGURES

Figure 1	Topographic Map
Figure 2	Site Plan – Prior to Remedial Action
Figure 3	Geologic Cross Section Prior to Remedial Action
Figure 4	Groundwater Elevation
Figure 5	Final Excavation Depths
Figure 6	Remaining Soil Above SCOs
Figure 7	Groundwater Sampling Results Above Standards
Figure 8	Sub-Cellar Garage Plan
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- Figure 9 Institutional Control Boundary
- Figure 10 Site Cover System
- Figure 11 Injection Well & Monitoring Well Locations

APPENDICES

- Appendix A Semi-Annual Inspection Checklist
- Appendix B Groundwater Monitoring Cessation Approval



I. EXECUTIVE SUMMARY

AMC Engineering PLLC (AMC) has prepared the following Periodic Review Report for the period of December 23, 2015 to March 24, 2017, for the property located at 2040 Frederick Douglas Boulevard under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with the Brownfield Cleanup Agreement (BCA) #C231087.

Groundwater was sampled from four on-site monitoring wells (MW1501-MW1503, MW1505) and three off-site monitoring wells (MW1504, MW1506, MW6) on a quarterly basis.

Based on Groundwater Sampling results, on October 20, 2016 a letter from the NYSDEC approved the request of groundwater monitoring cessation.

Exposure to remaining contamination at the Site is prevented by a cover system placed over the Track 4 portions of the Site. The cover system is comprised of concrete building slabs. Cover inspections will be performed annually.

Within this PRR reporting period, the highest PVOC concentrations were detected in MW1504: in February 2016 at 2.4 ppb, in May 2016 at 1.7 ppb, and in August 2016 at 2.9 ppb. MW1504 is located along Frederick Douglas Circle outside the site boundary.

Within this PRR reporting period, no CVOC concentrations were detected.



II. SITE OVERVIEW

A. Site Location

The 0.31-acres site is bordered on the west by Frederick Douglas Boulevard, on the south by West 110th Street (Central Park North), on the north by West 111th Street in Manhattan, and on the east by mixed commercial and residential buildings. **Figure 1** shows Site Location. It is currently being developed with a multi-story residential building. Previously, the Site had been used as a gas station and auto repair facility since approximately 1951 up until December 2013. Following remediation, the site is being developed with a residential building, with ground-level retail and sub-grade parking.

B. Site Chronology

Remedial Action for the Site was performed in accordance with the scope of work presented in the NYSDEC-approved Remedial Work Plan and RAWP amendment. Remedial Action consisted of the following:

- 1. Excavation and disposal of soil to approximately 30 feet below grade for the majority of the site. Over excavation was performed at several locations to either meet SCOs or to accommodate structural elements of the new building;
- 2. Installation of a cover system comprised of concrete-covered sidewalks and concrete building slabs over the Track 4 portions of the Site in order to prevent exposure to remaining contamination;
- 3. Injection of chemical oxidant solution (sodium persulfate) through PVC injection points installed into the water table to remediate the contaminated groundwater beneath the Site, as well as post-remediation groundwater monitoring for a minimum of two years.

Based on the soil vapor intrusion evaluation completed during the Remedial Investigation, no additional actions were needed to address potential soil vapor intrusion at the site.



III. REMEDY PERFORMANCE, EFFECTIVENESS & PROTECTIVENESS

Remedial Action at the Site included the excavation and disposal of source area soils with the exception of a small isolated are in the southeast corner of the Site. Impacted soil in this area was in a clay zone above the water table which was further stabilized with a grout injection. In addition to this, the remaining low level impacts to groundwater were treated with the injection of a chemical oxidant.

Chemical oxidant injections performed at the Site consisted of injecting a 10 to 20% solution of sodium persulfate activated with chelated iron into either temporary or permanent injection wells. Injection well points were installed to a depth of approximately 45 feet below grade with 10 feet of PVC screen.

The remedy achieved a Track 2 / Track 4 Cleanup and included the following elements:

- Removal of nine underground storage tanks
- Excavation of soil/fill exceeding Track 2 restricted use SCOs and groundwater protection SCOs in the majority of the Site to depths as great as 30 feet below grade;
- Excavation of VOC hotspot areas to depths ranging from 32 to 37ft below grade;
- Removal of free phase gasoline and perched groundwater from the UST excavation, via pumping;
- Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work;
- Collection and analysis of end-point soil samples and post-remedial groundwater samples to evaluate the performance of the remedy with respect to attainment of unrestricted SCOs and groundwater standards;
- Appropriate off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
- Installation of twelve injection wells and treatment of residual groundwater contamination via injection of chemical oxidants;
- Import of materials used for backfill and cover in compliance with: (1) chemical limits and other specifications, (2) all Federal, State and local rules and regulations for handling and transport of material;
- Injection of a cement grout to isolate and immobilize petroleum VOCs in soil in a 10 x 15 foot area in the southeast corner of the Site;
- Installation of six monitoring wells and the collection and analysis of two rounds of post excavation groundwater samples to assess bulk reduction in groundwater contamination following source removal;
- Construction of a composite cover system consisting of the concrete building slabs;
- Implementation of a Site Management Plan (SMP) for long term maintenance of the Engineering Controls; and
- An Environmental Easement was filed against the Site to ensure implementation of the SMP.



Groundwater

Groundwater monitoring activities to assess the effectiveness of the remedy and natural attenuation was conducted until the 3rd quarter of 2016. Since monitoring indicated that residual groundwater concentrations were consistently below ambient water quality standards, the site Standards, Criteria, and Guidance (SCGs), or have become asymptotic at an acceptable level over an extended period, a petition to cease monitoring activities was submitted to NYSDEC. This request was granted on October 20, 2016.

Each monitoring well was constructed of 1-inch diameter PVC casing and 0.010 inch slotted PVC well screen. In addition to this, the wells had 10 feet of screen from approximately 10-20 feet below the bottom of the basement slab. A No. 00 Morie or equivalent filer sand was installed in the borehole to within 2 feet above the top of the screen. A 1-foot hydrated bentonite seal was placed on top of the filter sand and the remainder of the borehole was backfilled to grade.

Groundwater samples were collected from all seven monitoring wells. Sample procurement was achieved through the use of dedicated polyethylene tubing, and a peristaltic pump.

Four on-site monitoring wells (MW1501-MW1503, MW1505) and three off-site monitoring wells (MW1504, MW1506, MW6) were located at the Site. Each monitoring well was installed to evaluate the performance of the remedial effort and monitor improvements to groundwater quality.

MW1501 was located within the site boundary along the outer boundary of Frederick Douglas Circle. MW1501 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW1502 was located within the site boundary also along the outer boundary of Frederick Douglas Circle. MW1502 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW1503 was located towards the center of the site boundary. MW1503 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW1504 was located outside the site boundary along the outer boundary of Frederick Douglas Circle, outside the site boundary. MW1504 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. Benzene was observed above standards in all three samples. Benzene concentrations were observed at 2.4 ppb, 1.7 ppb, and 2.9 ppb respectively.

MW1505 was located within the site boundary along Frederick Douglas Boulevard. MW1505 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW1506 was located outside the site boundary along the outer boundary of Frederick Douglas Circle. MW1506 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.



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MW6 was located outside the site boundary along the outer boundary of Frederick Douglas Circle. MW6 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

Upon receiving approval by DEC to discontinue the monitoring activities, the seven monitoring wells were abandoned and penetrations sealed.



IV. IC/EC PLAN COMPLIANCE REPORT

A1. IC Requirements and Compliance

1. IC Controls

A series of Institutional Controls (ICs), required under the Site Management Plan, were placed on the property in the form of an Environmental Easement which was recorded with the NYC Department of Finance, Office of the City Register (NYSDOF-OCR). The recorded ICs are as follows:

- implement, maintain and monitor Engineering Control systems;
- prevent future exposure to residual contamination by controlling disturbances of the subsurface contamination; and,
- limit the use and development of the site to restricted residential uses only.

Adherence to these Institutional Controls on the Site (Controlled Property) is required under the Environmental Easement and will be implemented under the Site Management Plan. These Institutional Controls are:

- Compliance with the Environmental Easement by the Grantor and the Grantor's successors and assigns with all elements of the SMP;
- All Engineering Controls must be operated and maintained as specified in the SMP;
- A composite cover system consisting of concrete-covered sidewalks and concrete building slabs must be inspected, certified and maintained as required in the SMP;
- All Engineering Controls on the Controlled Property must be inspected and certified at a frequency and in a manger defined in the SMP;
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management for the Controlled Property must be reported at the frequency and in a manner as defined in the SMP;
- On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells, must be protected and replaced as necessary to ensure the device's function in the manner specified in the SMP;
- Engineering Controls may not be discontinued without an amendment or the extinguishment of the Environmental Easement.

Site restrictions include:



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- The property may only be used for restricted residential use provided that the long-term Engineering and Institutional Controls included in the SMP are employed;
- The property may not be used for a higher level of use, such as unrestricted use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it suitable for intended use;
- Vegetable gardens and farming on the property are prohibited;
- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled 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 Controlled 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 and will be made by an expert that the NYSDEC finds acceptable.

2. Status of each IC

An inquiry was made with the NYCDOF-OCR to confirm that the Environmental Easement, as described above, remains in place and has not been changed, revised or modified.

3. Corrective Measures

No deficiencies in the ICs were noted for this time period, therefore no corrective measures were required.

4. IC Conclusions and Recommendations

It is recommended that the environmental easement remain in place and to not be changed, revised or modified.

A2. EC Requirements and Compliance

1. EC Controls

Cover (or Cap)

Exposure to remaining contamination at the site is prevented by a cover system placed over the Track 4 portions of the Site. This cover system is comprised of concrete-covered sidewalks and concrete building slabs. **Figure 10** presents the location of the cover system and applicable



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demarcation layers. The Excavation Work Plan (EWP) outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the site.

Chemical Oxidant Treatment

To continue reductions in any remaining residual mass of VOCs in groundwater within the petroleum "hotspot" areas, a chemical oxidant (sodium persulfate) has been injected into the groundwater at the locations with remaining petroleum VOCs in groundwater during previous reporting periods. The last injection event occurred in September 2015.

Procedures for performing the chemical oxidant injections are documented in the Operation and Maintenance Plan (Section 5.0 of this SMP). The locations of the injection wells are shown in.

2. Status of each EC

Cover (or Cap)

In an inspection performed by AMC in May 2017, the basement concrete slab was inspected and found to be in good condition, with no cracks or penetrations observed, except to one injection well that was removed and sealed during the inspection by C Squared Environmental under the oversight of AMC Engineering. Multiple patching areas were observed, corresponding to abandoned injection wells. In addition to this, the concrete slab on the first floor corresponding to the Track 4 area above the stairs was covered by 2" of gravel. This area is underlain by the concrete cover corresponding to the foundation walls and building slab. While a visual observation was not attained, foundation walls and building slab. While a visual observation was not attained, foundation walls and building slabs are assumed to be devoid of cracks or deficiencies. A concrete sidewalk is planned in the next weeks. The next inspection for the PRR will cover an inspection of the integrity of the cover system which will include the sidewalk and stairwell of the Track 4 areas. Because this area remains untouched, it is assumed that it has no penetrations, cracks, or any patching.

Composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with the SMP, in perpetuity.

Oxidant Injections

The SMP indicates that the need for subsequent applications would be determined following the collection and analysis of performance monitoring samples. Since results of groundwater monitoring indicated a drastic reduction in VOC concentrations in the groundwater, no chemical injection was conducted during this reporting period.

Monitoring Wells associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess the effectiveness of the remedy and natural attenuation demonstrated that PVOC contaminants in the groundwater were found to be consistently below ambient water quality standards, the site SCGs, or have become asymptotic at an acceptable level over an extended period. Because of this, a request for cessation of groundwater monitoring was submitted



to the NYSDEC with the 2016 3rd quarter report. The request was granted via letter from the NYSDEC dated October 20, 2016.

3. Corrective Measures

All remaining monitoring wells associated with this project were closed in accordance with the New York State Department of Environmental Conservation (NYSDEC) Groundwater Monitoring Well Decommissioning Procedures (CP-43).

4. EC Conclusions and Recommendations

All remaining monitoring wells associated with this project were closed in accordance with the NYSDEC Groundwater Monitoring Well Decommissioning Procedures (CP-43).

We recommend that the EC in the form of chemical injections be extinguished. We recommend that the EC in the form of Site Cover be inspected at a 3-year frequency.



IC/EC Certification В.

I, Ariel Czemerinski, am currently a registered professional engineer licensed by the State of New York. I have inspected the Engineering Controls for the Former 110th Street Service Station Site (NYSDEC Site No. C231087).

I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering • controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the • date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health • and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- 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;
- If a financial assurance mechanism is required under the oversight document for the site, the ٠ mechanism remains valid and sufficient for the intended purpose under the document;
- Use of the site is compliant with the environmental easement; •
- The engineering control systems are performing as designed and are effective; ٠
- To the best of my knowledge and belief, the work and conclusions described in this ٠ certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete. •
- No new information has come to my attention, including groundwater monitoring data from • wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and
- The assumptions made in the qualitative exposure assessment remain valid.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Ariel Czemerinski, of 18-36 42nd Street, am certifying as Remedial Party for the site."

076508

5/15/17

NYS Professional Engineer #

Date





18-36 42[№] ST ASTORIA, NY 11105 | PHONE 718-545-0474

V. MONITORING PLAN COMPLIANCE REPORT

A. Components of the Monitoring Plan

The Monitoring Plan within the Site Management Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the site, the soil cover system, and all affected site media identified below. Monitoring of other Engineering Controls is described in Chapter 4, Operation, Monitoring and Maintenance Plan.

Groundwater samples were to be collected from the on-Site monitoring well network on a quarterly basis. Sampling was to be conducted in accordance with the previously approved Site Management Plan, and groundwater samples are to be analyzed for volatile organic compounds via EPA Method 8260.

B. Summary of Monitoring Completed During Reporting Period

Groundwater quality was monitored during this time period by sampling the on-site monitoring wells on February 2016, May 2016, and August 2016.

Prior to sampling each monitoring well, depth to bottom and depth to water measurements were collected utilizing a decontaminated electronic water level probe. This data was then used to calculate the volume of water to be removed from each monitoring well prior to sampling. A total of approximately 3-5 well casing volumes were removed from each monitoring well utilizing a peristaltic pump equipped with disposable polyethylene tubing. Groundwater samples were then collected in precleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301) for laboratory analysis of volatile organic compounds (VOCs) via EPA method 8260C and semi-volatile organic compounds (SVOCs) by EPA Method 8270D.

Groundwater sample results were compared to the water quality standards specified in New York State 6NYCRR Part 703.5 Class GA Groundwater Quality Standards (GQS). VOC concentrations are shown on **Figure 4**.

C. Comparisons with Remedial Objectives

MW1501 is located within the site boundary along the outer boundary of Frederick Douglas Circle. MW1501 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW1502 is located within the site boundary also along the outer boundary of Frederick Douglas Circle. MW1502 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW1503 is located towards the center of the site boundary. MW1503 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.



MW1504 is located outside the site boundary along the outer boundary of Frederick Douglas Circle. MW1504 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. Benzene was observed above standards in all three samples.

MW1505 is located within the site boundary along Frederick Douglas Boulevard. MW1505 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW1506 is located outside the site boundary along the outer boundary of Frederick Douglas Circle. MW1506 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

MW6 is located outside the site boundary along the outer boundary of Frederick Douglas Circle. MW6 was sampled on three different sampling events during this monitoring period: February 2016, May 2016, and August 2016. No exceedances were detected.

D. Monitoring Deficiencies

No monitoring deficiencies were reported in this reporting period.

E. Conclusions and Recommendations

MW1504 was the only monitoring well with any exceedances in this reporting period, however this MW was outside the property limits, and it was demonstrated that the concentration of remaining contaminants have asymptotically decreased to single digit levels.

A request for cessation of these monitoring activities submitted to the Department was approved by the Department; therefore no further groundwater monitoring activities will take place.



VI. OPERATIONS & MAINTENANCE PLAN COMPLIANCE REPORT

A. Components of the O&M Plan

The site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge / soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.



VII. OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

A. Compliance with SMP

All requirements of the SMP were implemented during this PRR reporting period. In order to implement all of the SMP requirements, the following items were completed:

- Groundwater samples were collected from the on-Site monitoring wells in February 2016, May 2016, and August 2016.
- The cover system was inspected on an annual basis and the checklists were completed.
- The ICs/ECs were inspected and certified by the remedial engineer.

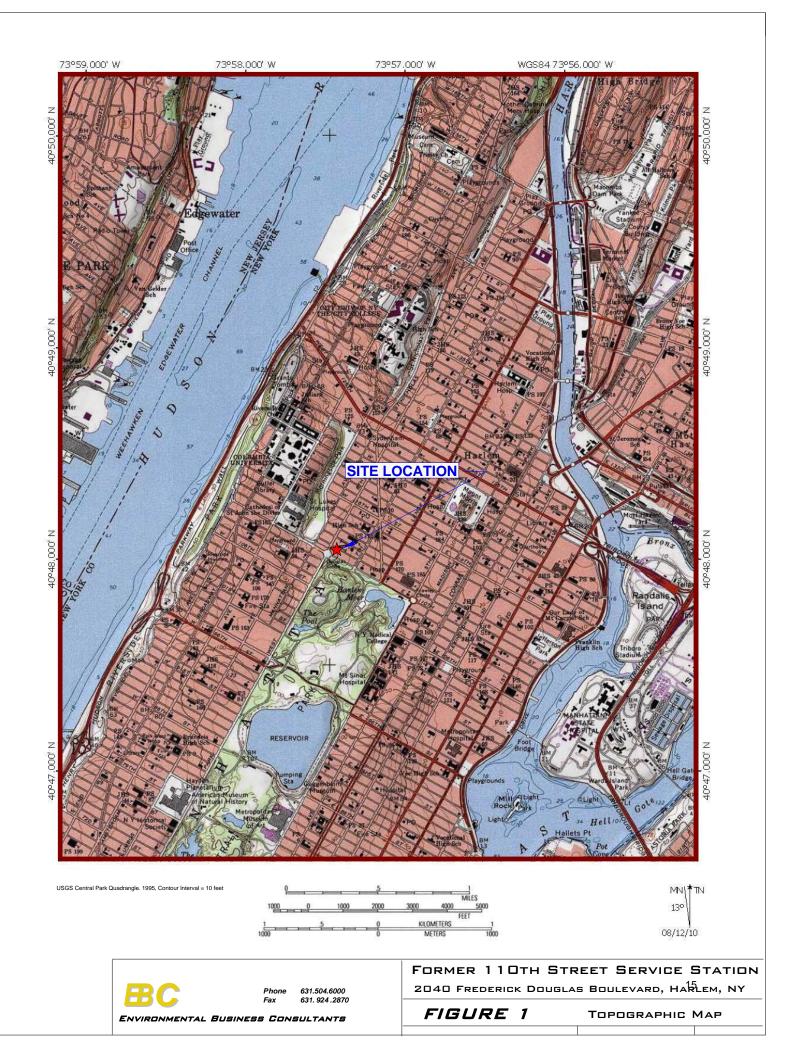
B. Performance and Effectiveness of Remedy

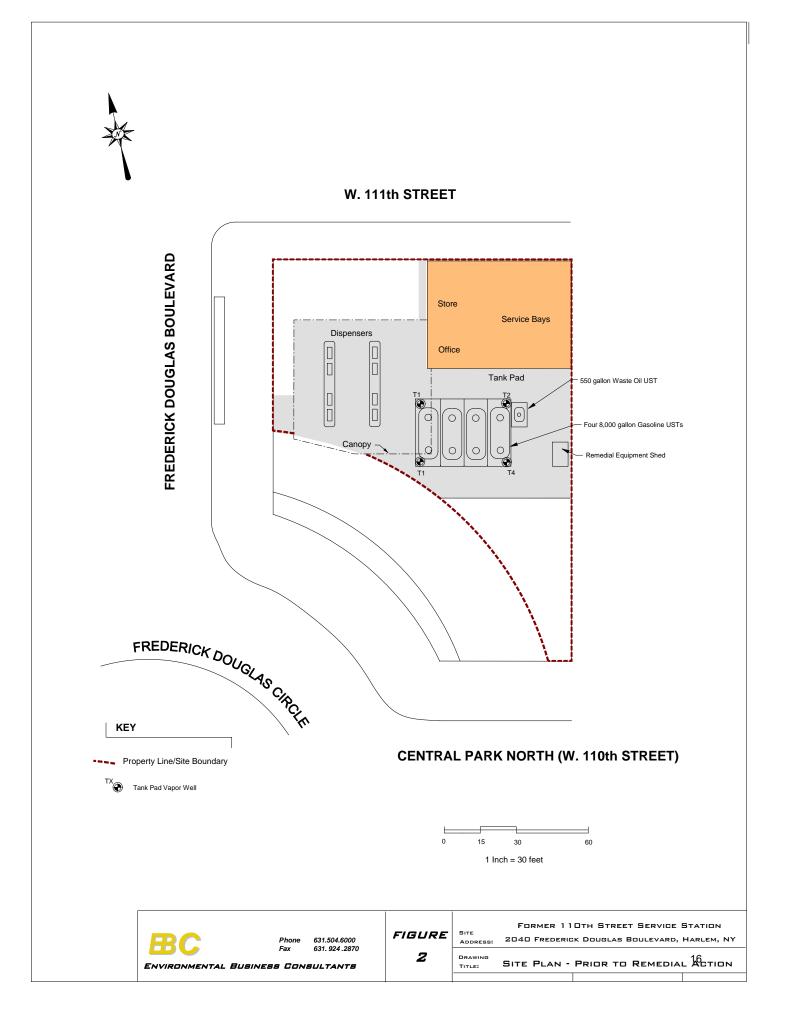
Improvements in the concentration of PVOCs and CVOCs were noted throughout the monitoring well system except for minor exceedances in Benzene concentrations. Due to this conclusion, monitoring wells are no longer needed and were abandoned. NYSDEC approved the termination of the groundwater monitoring program. Approval is attached in Appendix B.

C. Future PRR Submittals

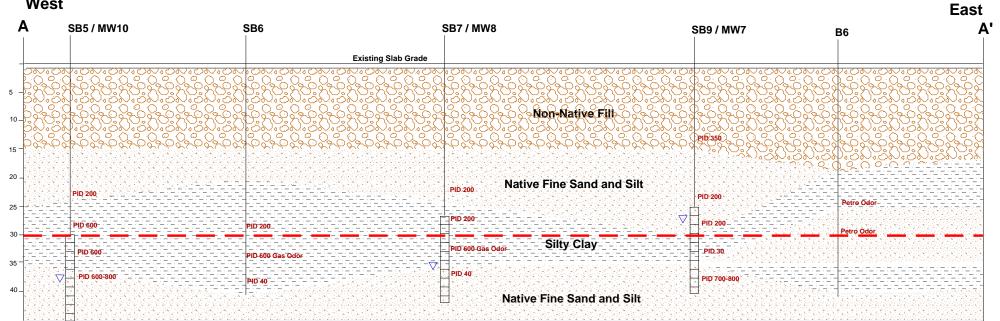
Given that the only EC that remains in place is the cover system over the Track 4 areas, and largely these areas are covered by a slab under the building, and concrete sidewalk, we recommend that the next PRR submitted every three years to cover the period 2017 through 2020.

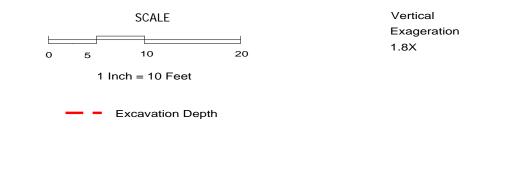








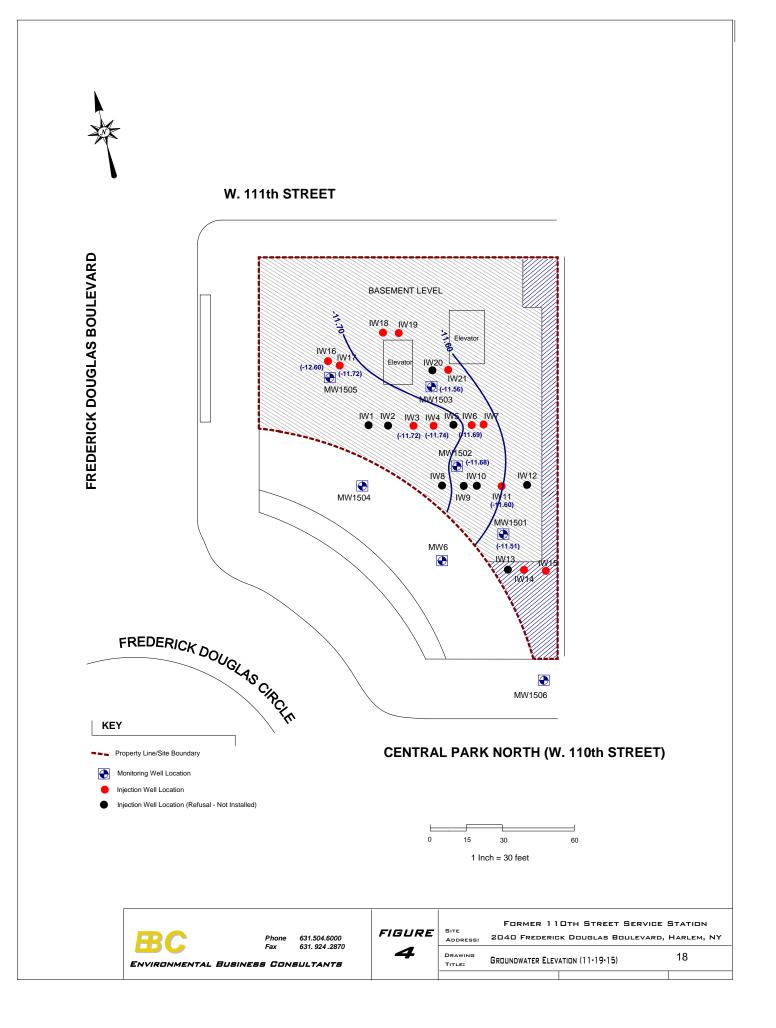


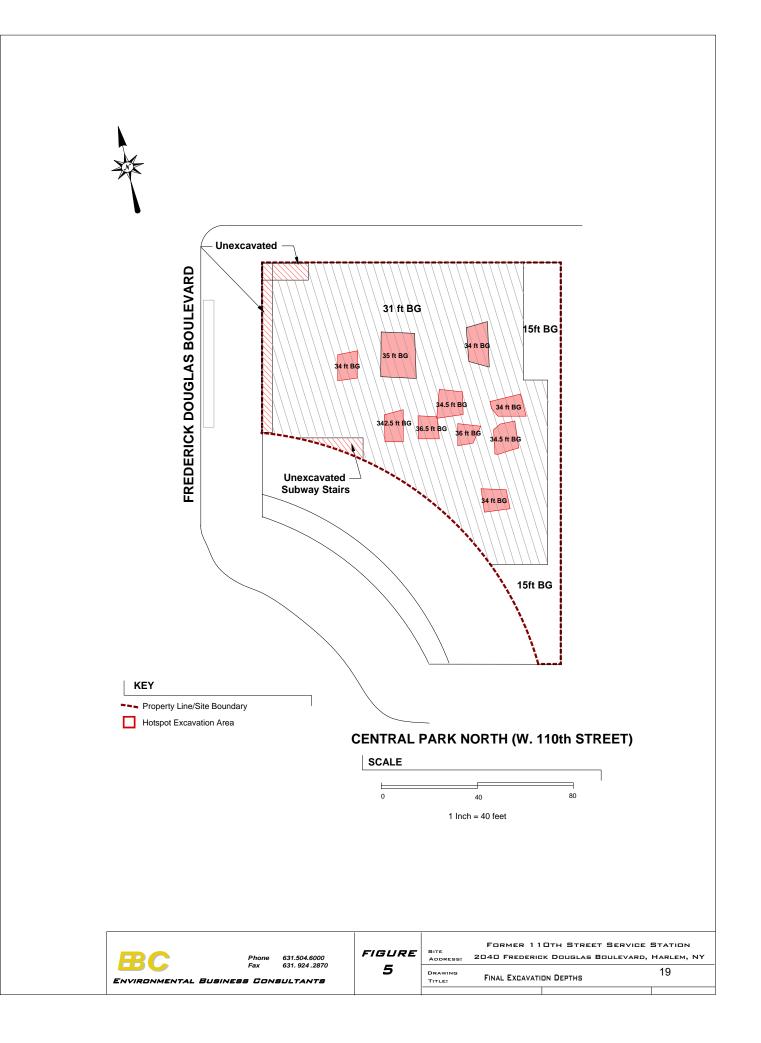


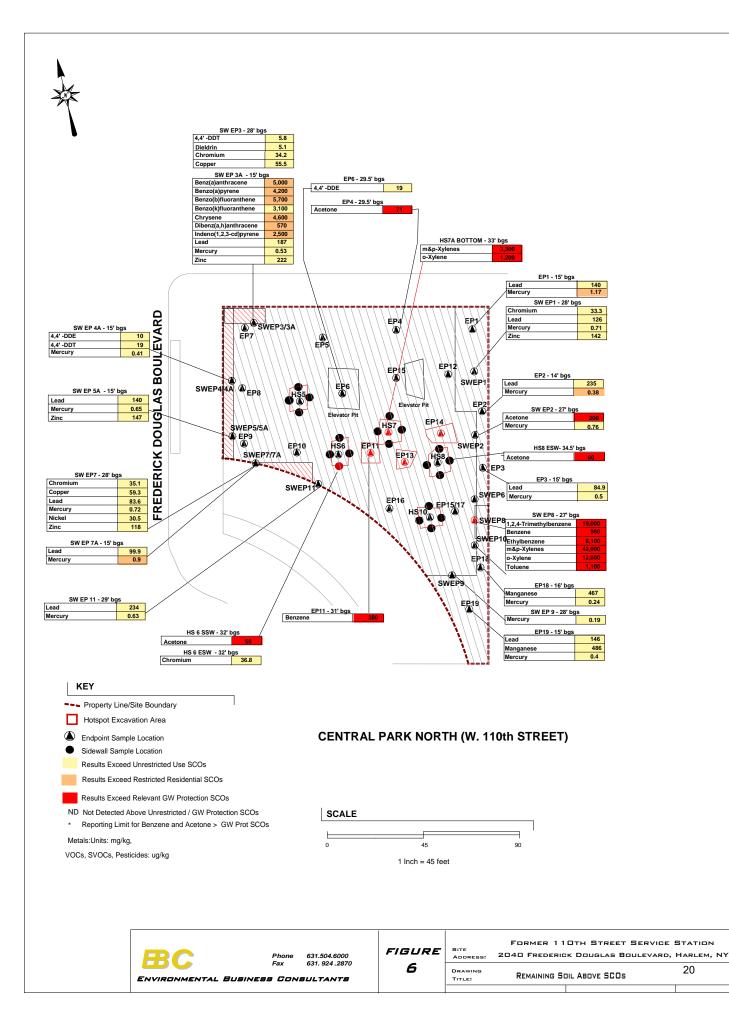


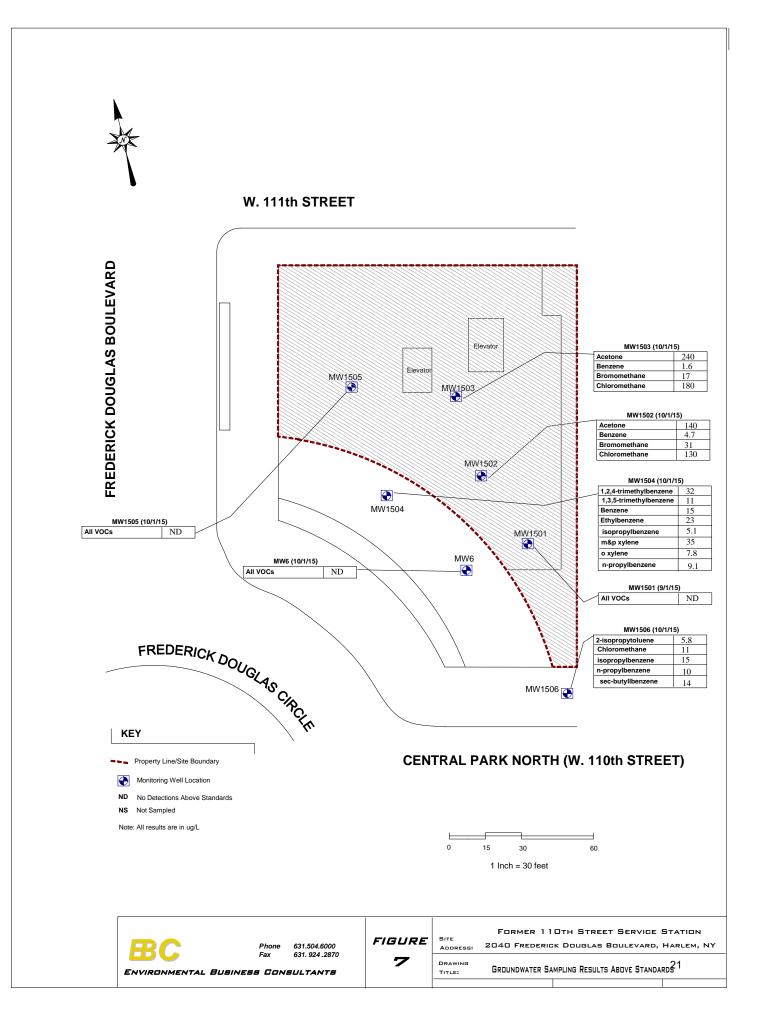
FORMER 110 SERVICE STATION 2040 FREDERICK DOUGLAS BLVD, HARLEM, NY

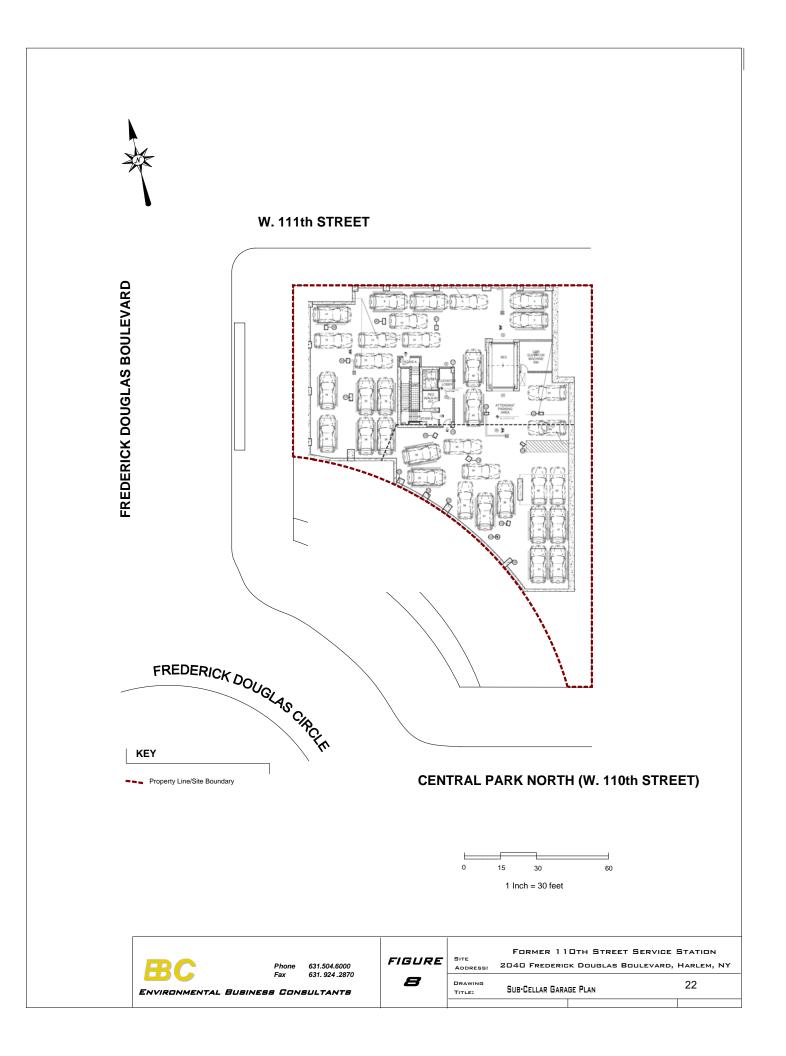
GEOLOGIC CROSS SECTION PRIOR TO REMEDIAL ACTION

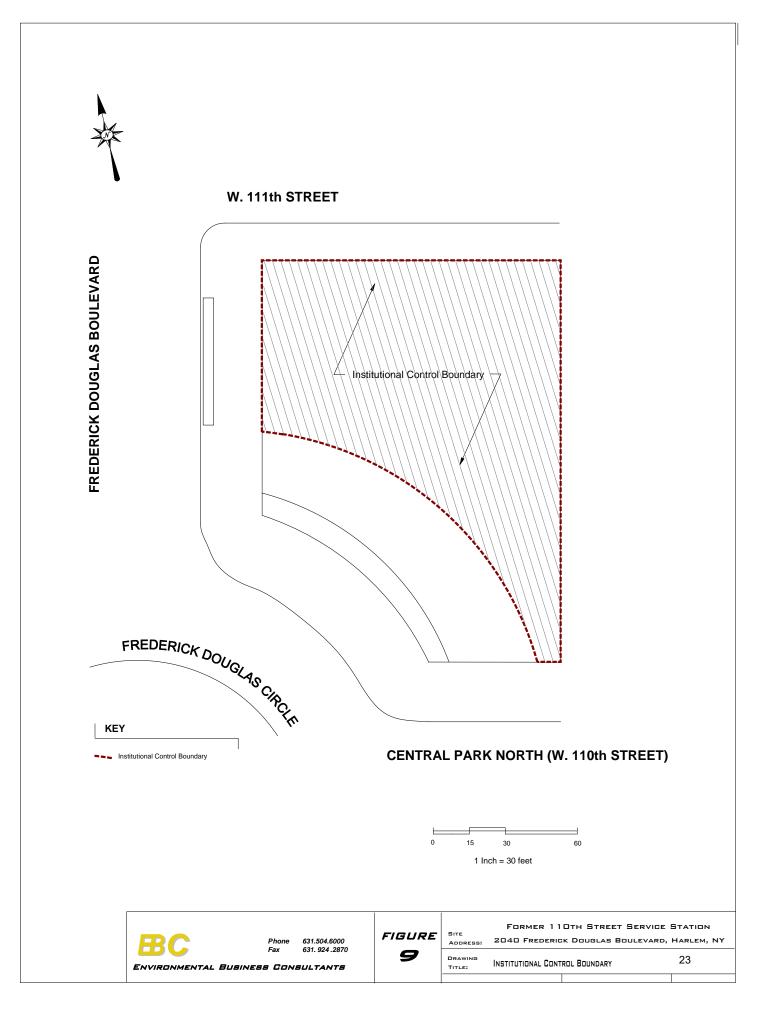


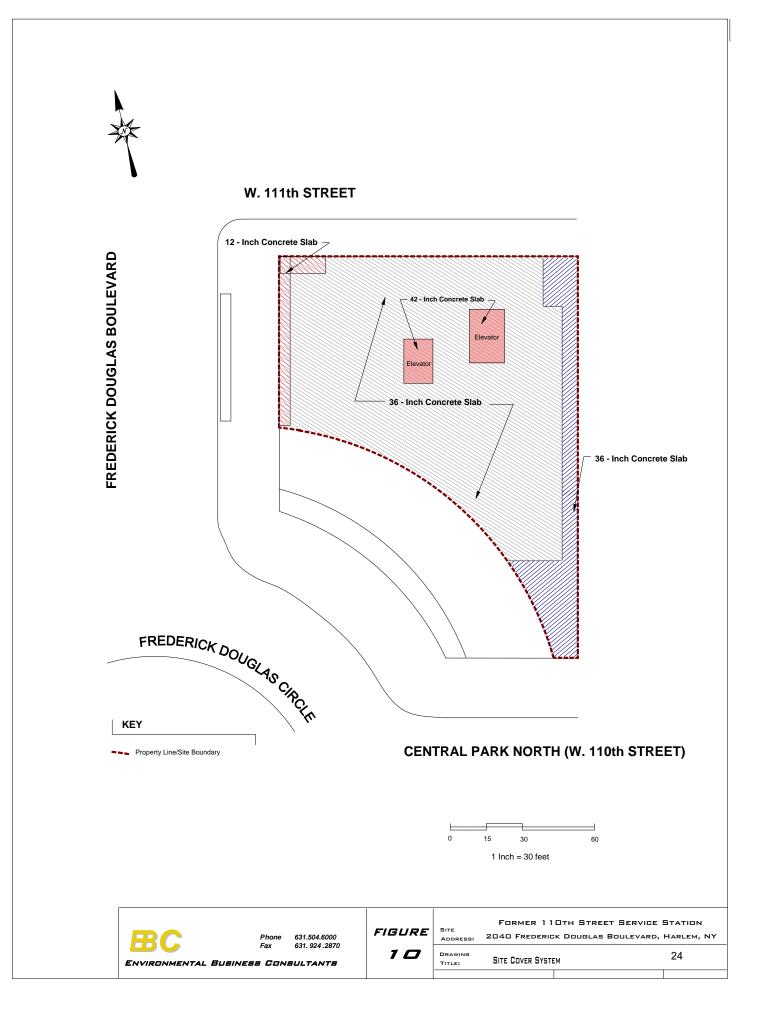


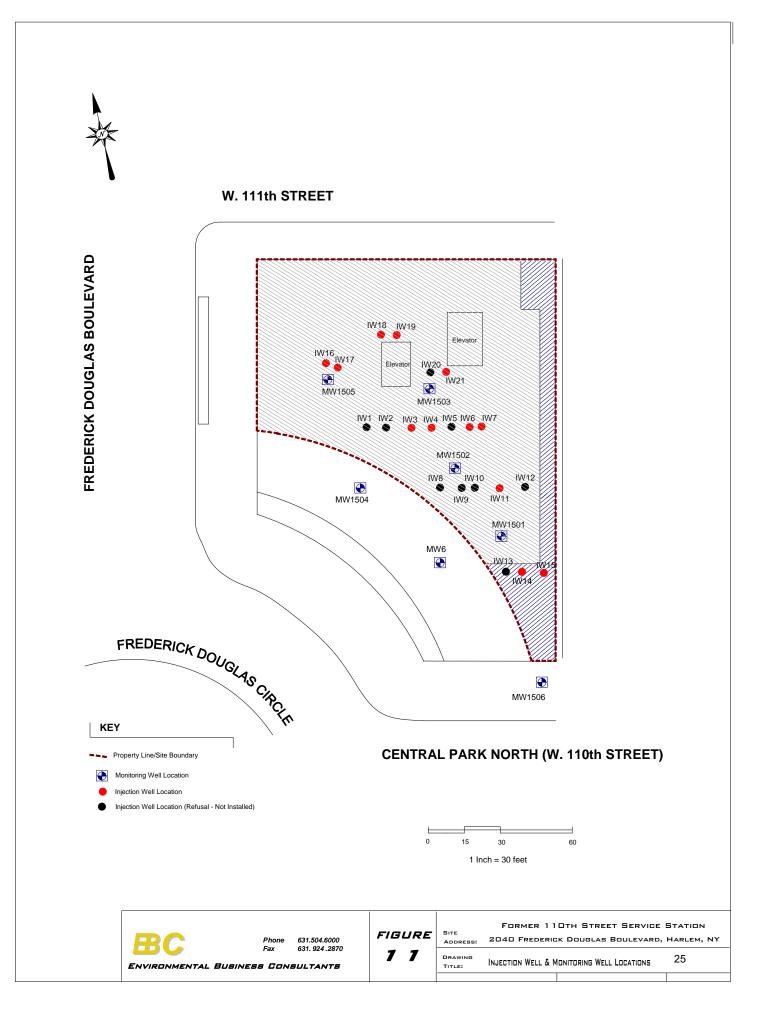












<u>APPENDIX A</u> ANNUAL INSPECTION CHECKLIST



 18-36 42ND ST
 26

 Astoria, NY 11105
 Phone 718-545-0474

SITE INSPECTION CHECKLIST

Site Inspection Checklist - Cover System 2040 Frederick Douglass Boulevard Harlem, NY

Date: 5/8/17	Time:	8:30au		,	
Inspector Name/Orga	anization:	Ariel	Czemerinsk	o/Anc	Enfinearing
Confirm Site Use:	Ren	den cia	e Building	under	construction

VISUAL INSPECTION OF SUB-CELLAR CONCRETE SLAB

Building Interior Inspect basement concrete slab for crack	
Describe General Condition of Slab	Slab was inspirted and found to be
Describe any Cracks or New Penetrations	in food condition No mades / penetrations observed, except to one in justion well that had not been removed.
Describe any Patching	to one a faction well that had not been velicity. Hultiple patching areas observed, corresponding to abundoned injection wells.

Concrete slab on first

inspritted, as it was concealed.

ou)

rack yaren, above stairs: covered by Ret

NYC

to

601 consponding to

star case

hivers

Bajale

VISUAL INSPECTION OF FIRST FLOOR CONCRETE SLAB

Building Exterior Inspect concrete slab for cracks, perforations and patching

Describe G	eneral (Condition	of	Slab
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Describe any Cracks or New Penetrations

Describe any Patching	and reds the concrete - this are remains
	intouched, so it is assumed that it has
	no quetrations, nachs or any patchup.
Repairs Needed and / or Maintenance at this time?	
Removed injection well id	intifue during the inspection
	delines on I S18/17 C 3200/m.
and conducted by C Sp	nared Euricon untel under
Sule vition & Avre Enge	

cordi

Any Intrusive Work Into Soil Perfor	1			OF NEW FON
SMP and EWP Followed?	11. 1			HE HERE
	1		1.1-	0765p8
Signature:	ield	Date:	3/8/17	ROFESSION

<u>APPENDIX B</u> <u>GROUNDWATER MONITORING</u> <u>CESSATION APPROVAL</u>



 18-36 42ND ST
 28

 ASTORIA, NY 11105
 PHONE 718-545-0474

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2 47-40 21st Street, Long Island City, NY 11101 P: (718) 482-4995 www.dec.ny.gov

October 20, 2016

Mr. Ronen Haron Crescent 110 Equities LLC 316 West 118th Street New York, NY 10026

Re: Former 110th Street Service Station BCP Index C231087 New York, NY Third Quarter 2016 Groundwater Monitoring Report

Dear Mr. Haron:

The New York State Department of Environmental Conservation (Department) has reviewed the Third Quarter 2016 Groundwater Monitoring Report (GWMR) dated August 22, 2016, which was prepared by Environmental Business Consultants (EBC), on behalf of Crescent 110 Equities LLC (the Volunteer). A request for cessation of the groundwater monitoring at the site was included in the GWMR. Based on the Department's review of this GWMR and the previous data obtained during six groundwater monitoring events, the Department approves the cessation of the groundwater monitoring at the site.

Please ensure that a copy of this letter and all the groundwater monitoring reports are placed in the document repositories. All remaining monitoring wells associated with this project should be closed in accordance with the Department's Groundwater Monitoring Well Decommissioning Procedures (CP-43).

If you have any questions please contact me at (718) 482-4065 or ioana.munteanuramnic@dec.ny.gov.

Sincerely,

Ioana Munteanu-Ramnic, P.E. Environmental Engineer



- J. O'Connell, J. Nehila NYSDEC ec:

 - J. Deming, J. Kenney NYSDOH A. Czemerinski AMC Engineering C. Sosik EBC

 - L. Schnapf Schnapf LLC