

Periodic Review Report

149 Kent Avenue Brooklyn, New York Site Number C224159

February 17, 2020

Prepared for:

Kent & Wythe Owners LLC
149 Kent Avenue LLC
The Western Carpet and Linoleum Co. Inc.
149 Kent Avenue
Brooklyn, New York

Prepared by:

Roux Environmental Engineering and Geology, D.P.C. 209 Shafter Street Islandia, New York 11749

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Executive Summary

This document is required as an element of the remedial program at 149 Kent Avenue in Brooklyn, New York (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #C224159-06-12, Site Number C224159, which was executed on August 21, 2012. High levels of tetrachloroethene (PCE) and trichloroethene (TCE) contamination in soil, soil vapor, and groundwater were observed on the northwestern portion of the Site, with contamination extending into offsite groundwater monitoring wells. Due to the nature and extent of contamination of the Site, the NYSDEC and NYS Department of Health (DOH) determined that this Site posed a significant threat to human health and the environment prior to remediation. An extensive remedial program was implemented from 2013 to 2015 before entering the Site Management phase of the project. The Site Management Plan (SMP), dated August 2015, was approved by NYSDEC on September 2, 2015. On November 4, 2016, NYSDEC approved the termination of the groundwater monitoring at the Site. In accordance with the SMP, annual Site-wide inspections and monthly operation and maintenance (O&M) inspections are being completed during the SMP monitoring phase. The reporting period for this Periodic Review Report (PRR) is January 19, 2019 to January 19, 2020. The components, data, and rationale included in this PRR demonstrate that the engineering and institutional controls are performing as designed, are effective, and are compliant with specifications described in the SMP. No changes to the monitoring plan are recommended by Roux Environmental Engineering and Geology, D.P.C. (Roux) at this time.

1. Introduction

This Periodic Review Report (PRR) documents post-remediation activities performed at the 149 Kent Avenue, Brooklyn, New York Site (Figure 1) from January 19, 2019 to January 19, 2020. Kent & Wythe Owners LLC/ 149 Kent Avenue LLC/ The Western Carpet and Linoleum Co. Inc. (collectively, Volunteer) entered into a Brownfield Cleanup Agreement with the New York State Department of Environmental Conservation (NYSDEC) in August 2012 (NYSDEC Site Number C224159) to investigate and remediate the 0.92-acre property located at the above address. The property was remediated to meet the NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (RRSCOs). The redevelopment plan included a seven-story mixed-use (retail, commercial, residential) building with a ventilated parking garage located in the basement and part of the first floor, and retail storage in the remaining portions of the basement level. The Site Management Plan (SMP), dated August 2015, was approved by NYSDEC on September 2, 2015 and the Certificate of Completion (COC) for the Site was received on October 19, 2015. The temporary certificate of occupancy (TCO) was issued in November 2016 and renewed several times prior to the final CO being issued on September 8, 2019. At the time of the required Site-wide inspection on January 2, 2020, the building was fully occupied with all commercial and residential spaces at capacity.

Site Management activities, reporting, and Institutional Control (IC)/ Engineering Control (EC) certification are scheduled on a certification period basis. This certification is based on the submission of a PRR (included herein), submitted to the NYSDEC every year beginning fifteen months after the COC was issued and once per year thereafter for the respective reporting periods. These PRRs will identify and asses all of the IC/ECs required by the remedy for the Site, any environmental monitoring data and/or information generated during the reporting period, and a complete Site evaluation which discusses the overall performance and effectiveness of the previous remedy.

2. Site Overview

2.1 Site Description and History

The Site is located in the Williamsburg Brooklyn neighborhood, County of Kings, New York and is identified as Block 2333 and Lots 1001 and 1002 on the Kings County Tax Map. The Site is an approximately 0.92-acre area bounded by multi-use commercial/ residential buildings to the north, North 5th Street to the south, Wythe Avenue to the east, and Kent Avenue to the west (see Figure 1). Historically, the Site was used as a rail terminal and a rail loading dock was located on the northwestern portion of the Site through 1987. After that, the Site was used as a carpet warehouse from 1987 until 2011, when the last user vacated the premises before entering it into the BCP. Remedial Investigation (RI) data suggest that what the NYSDEC considers to be "source material" (chlorinated volatile organic compound [CVOC] contamination in soil) was present on the upgradient 135 Kent Avenue property and the former rail loading dock. High levels of tetrachloroethene (PCE) and trichloroethene (TCE) contamination in soil, soil vapor, and groundwater were observed on the northwestern portion of the Site, with contamination extending into offsite groundwater monitoring wells.

2.2 Summary of Remedial Action

Following the BCP RI, and NYSDEC's approval of the Remedial Action Work Plan, the Volunteer began Site remediation in 2014. Since then, the Remedial Action has been fully implemented and completed the approved remedial program. All remedial work was done with oversight, understanding, and direction from the NYSDEC.

Based on the results of the RI, the Decision Document identified the following Remedial Action Objectives (RAOs) for this Site:

Remedial Action Objectives

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Remove the source of ground water contamination.

Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor RAOs

RAOs for Public Health Protection

• Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

The following are the components of the selected remedy:

- 1. Excavation of soil/fill exceeding Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs);
- 2. Construction and maintenance of a Site cover system consisting of the following elements to prevent human exposure to remaining contaminated soil/fill remaining at the site:
 - Building Foundations (concrete slab/footings/ basement walls);
 - Waterproofing membrane;
 - Mud slab;
 - Gravel or recycled concrete aggregate (RCA) sub-base; and
 - Cement-bentonite slurry (at Hot Spots 1 and 2 only).
- 3. Groundwater remediation consisting of:
 - Temporary dewatering and water treatment during building construction;
 - In situ zero valent iron (ZVI) in the vicinity of former MW-4; and
 - ZVI permeable reactive barrier (PRB) treatment wall in the southwest corner of the Site.
- 4. Soil vapor remediation consisting of:
 - Sub-Slab Depressurization System (SSDS) beneath portions of the building.
- 5. Screening for indicators of contamination (by visual means, odor, and monitoring with photoionization detector [PID]) of all excavated soil during any intrusive site work.
- 6. Collection and analysis of confirmation/ documentation soil samples (prior to excavation) to evaluate the performance of the remedy with respect to attainment of Track 4 SCOs.
- 7. Appropriate offsite disposal of all material removed from the site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal.
- 8. Import of materials to be used for backfill and cover in compliance with: (1) chemical limits and other specifications listed in 6NYCRR Part 375-6.7(d), (2) all Federal, State and local rules and regulations for handling and transport of material, and (3) NYSDEC DER-10.
- 9. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.
- 10. Development and implementation of a Site Management Plan for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.
- 11. Periodic certification of the institutional and engineering controls listed above.

Excavation of hot spots and soil/fill exceeding SCOs was completed between April 2014 and March 2015. Over 5,000 tons of hazardous soil and 37,000 tons of non-hazardous soil were removed and disposed during the project. Site groundwater treatment was completed in April 2014 with the installation of a PRB using ZVI

injections and in March 2014 with installation of a supplemental PRB injection round, targeted to improve the performance of a section of the original PRB.

Groundwater monitoring was performed throughout the project. After all remedial activities concluded, groundwater samples collected in 2016 demonstrated that CVOC concentrations were consistently reduced at the Site by over 90% (from the highest concentrations detected) for the constituents of concern. Based on the performance monitoring data, Remedial Engineering, P.C. requested the termination of groundwater monitoring at the Site and on November 4, 2016, NYSDEC approved the termination of the groundwater monitoring at the Site. As a note, due to a change in the law in New York which required companies providing geology and engineering services to be professional (or design professional) corporations, Roux Associates, Inc. and Remedial Engineering, P.C., were restructured and our company name was changed to Roux Environmental Engineering and Geology, D.P.C. as of March 2018.

2.3 Remaining Contamination

As described in the NYSDEC-approved SMP, materials exceeding the Part 375 restricted residential and protection of groundwater criteria (excluding VOCs) remain onsite. All of these materials have been contained under the Site Cover System comprised of the concrete slab/footings/ basement walls, vapor barrier/ waterproofing membrane, and a mud slab and sub base consisting of clean gravel or RCA. The demarcation layer for the Site Cover System is the underside of the cement-bentonite slurry in the areas of Hot Spots 1 and 2 and the underside of the sub-base for the concrete slab and footings and the outside face of the basement walls. A figure with additional information on Site Cover System components are include in Appendix A.

2.4 Institutional and Engineering Controls

Since residual contamination remains beneath the Site, ICs/ECs have been incorporated into the Site remedy as part of the NYSDEC-approved SMP, to provide proper management of residual contamination in the future to ensure protection of public health and the environment.

The Site has ECs consisting of:

- SSDS; and
- Site Cover System.

The goal of the SSDS is to mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site. The goal of the Site Cover System is to prevent exposure to remaining contamination in soil/fill at the Site. The SSDS and Site Cover System ECs are fully in place and effective at meeting their objectives.

A Site-specific Environmental Easement has been recorded with the Kings County Clerk that provides an enforceable means to manage the remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The ICs presented in the SMP consist of the following:

- Compliance with the Environmental Easement and SMP by the Grantor and the Grantor's successors and assigns.
- All ECs must be operated and maintained as specified in the SMP.
- All ECs on the Controlled Property must be inspected at a frequency and in a manner 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 of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.
- ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

This Site has a series of ICs in the form of Site Restrictions that are as follows:

- The property may only be used for restricted residential use (and less restricted uses defined in 6 NYCR Part 375) provided that the long-term ICs and ECs 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 safe for intended use.
- Vegetable gardens and farming on the property are prohibited with the exception of raised beds or rooftop gardens.
- The Site owner or remedial party will submit to NYSDEC a written statement annually 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.

3. SMP Requirements and Compliance Monitoring

Since remaining contaminated soil exists beneath the Site, ICs and ECs are required to protect human health and the environment. This section details the elements of the SMP including the inspection, monitoring, and reporting requirements, IC/ECs, whether the IC/EC requirements were met, and regulatory notification and certification requirements. The various subsections below also include an evaluation of the remedy performance, effectiveness, and protectiveness.

3.1 IC/EC Plan Compliance Report

Since remaining contamination exists beneath the Site, ICs and ECs are required to protect human health and the environment and are described in detail in Section 2.4.

For each IC or EC identified for the Site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the ICs and ECs required by the remedial program was performed under my direction;
- The ICs and/or ECs employed at this Site are unchanged from the date the control was put in place, or last approved by the NYSDEC;
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with the SMP for these controls;
- Access to the Site will continue to be provided to the NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of these controls;
- Use of the Site is compliant with the environmental easement;
- The EC systems are performing as designed and are effective;
- 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;
- The information presented in this report is accurate and complete; and
- I certify that all information and statements in this certification form are true. I understand a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Noelle M. Clarke, P.E., of Roux Environmental Engineering and Geology, D.P.C., am certifying as Owner's Designated Site Representative for the Site.

An IC/EC Certification Form for the controls that are currently in place is included as Appendix B.

3.1.1 Notifications

Notifications will be submitted by the property owner to the NYSDEC as needed for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the BCA, 6NYCRR Part 375, and/or Environmental Conservation Law.
- 15-day advance notice of any proposed ground-intrusive activities pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the foundation, structures, or EC that reduces or has the potential to reduce the effectiveness of an EC and likewise any action to be taken to mitigate the damage or defect.

- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake
 that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, with written
 confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential
 impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action shall be submitted to the NYSDEC within 45 days and shall describe and document actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change.
 This will include a certification that the prospective purchaser has been provided with a copy of the BCA, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing.

On October 22, 2019, Roux notified NYSDEC that Blower 2, the eastern SSDS, was not functioning. Roux was informed on October 21, 2019 by the building superintendent (C&C Apartment Managers, LLC) that Blower 2 was not operating as of Friday, October 18. Roux attempted to troubleshoot the issue with the superintendent in the field but efforts were unsuccessful. Immediately following the failed troubleshooting, the SSDS blower manufacturer (Gasho, Inc.) was contacted to repair the issue. The earliest available technician appointment was scheduled and on Thursday, October 24, 2019 electrical repairs were successfully made to the control panel and the system was turned back on. Roux followed up with the superintendent on October 25, 2019 and confirmed that the system was operating continuously within normal parameters.

3.2 Inspections

All inspections will be conducted at the frequency specified in the schedules provided in following Monitoring Plan and Operation and Maintenance (O&M) Plan Reporting sections of this PRR. At a minimum, monthly SSDS O&M inspections are required and one comprehensive Site-wide inspection will be conducted annually within each respective reporting period. Details of requirements and completed inspections are provided in the following sections. Inspections of remedial components will also be conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as power interruption or fire that may affect the ECs. The inspections will determine and document the following:

- IC/ECs are in place, are performing properly, and remain effective;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within five (5) days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

3.3 Monitoring Plan Compliance Report

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the Site Cover System, and all affected Site media identified below. Components of the Monitoring Plan are:

- Sampling and analysis of all appropriate media (e.g., groundwater);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Assessing achievement of the remedial performance criteria;
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports for the various monitoring activities.

Monitoring of the performance of the remedy and overall reduction in contamination onsite will be conducted for the periods specified for each matrix listed in table below. The frequency thereafter will be determined in consultation with NYSDEC and based on reports submitted showing contaminant trends.

Monitoring Program	Frequency	Matrix	Analysis	
Site Cover System and Site-Wide Inspection	Annually; First inspection no more than 15 months after the issuance of the COC.	Soil	Visual inspection of all cover system components.	
Groundwater*	Quarterly for a minimum of Four Quarters following issuance of COC	Groundwater	VOCs (USEPA Method 8260) for NYSDEC Target Compound List compounds	
SSDS Detailed Operation Inspection	Monthly	Soil Vapor	Visual Inspection for Vacuum, Temperature, and Condensate, and Field Screening (PID) of effluent	
SSDS System Status	Alarm light located in the superintendent's office - to be monitored by superintendent (superintendent to be onsite 3-5 days per week)	Soil Vapor	Visual inspection of alarm light to determine operation status	

^{*}Groundwater monitoring was terminated with the approval of the NYSDEC as of November 4, 2016.

A record of the findings of each monitoring/inspection event and maintenance activity performed as described above, where applicable, will be documented on the Site Inspection Checklist and SSDS O&M Log described in further detail below. If at any time during the reporting period the Volunteer identifies a failure of one or more of the ECs or non-compliance with one or more of the ICs, the remedial party must notify NYSDEC and implement corrective measures, in accordance with a Corrective Measures Work Plan (CMWP) submitted to and approved by NYSDEC and provide a periodic certification of the IC/ECs.

3.3.1 Site Cover System

Exposure to remaining contamination at the Site is prevented by a non-mechanical engineered Site cover system that consists of:

- Building foundations (concrete slab/ footings/ basement walls);
- Waterproofing membrane/ vapor barrier;

- Mud slab;
- Gravel or RCA sub-base; and
- Cement-bentonite slurry (at Hot Spots 1 and 2 only).

The location and details of the Site cover system are shown on the plate located in Appendix A. Monitoring of the Site cover system will occur on an annual basis as long as the Environmental Easement is in effect to ensure the system's integrity. Monitoring will consist of visual inspection, which will evaluate the structural integrity of the concrete floor slab, support columns into the floors, and the wall joints.

On January 15, 2019, Roux performed a Site-wide inspection, including an evaluation of the Site cover system. The completed Site Inspection Checklist is provided in Appendix C. This inspection determined that all Site cover system elements described herein were observed to be performing as designed during the reporting period of the PRR and are protective of human health and the environment. Photographs taken during the Site-wide inspection are provided in the Photo Log included in Appendix D.

3.4 Operation and Maintenance Plan Compliance Report

The O&M Plan provided in the SMP:

- Includes the steps necessary to allow individuals unfamiliar with the Site to operate and maintain the SSDS;
- Includes an O&M contingency plan;
- Will be updated periodically to reflect changes in Site conditions or the manner in which the SSDS is operated and maintained;
- Includes a SSDS Startup Report as part of the initial SSDS startup to verify that each system is operating properly; and
- Includes monitoring requirements.

One of the mechanical systems associated with the development is an active mechanical ventilation system in the first floor and basement garage areas, which will act as an approved substitute for an SSDS in these areas and which was installed as a component of the building.

The other mechanical component of the remedy is the SSDS. Exposure to intrusion of contaminated soil vapor within the Site building is prevented by an active SSDS, which applies negative pressure under below-grade portions of the Site, collects potentially contaminated vapor, and subsequently discharges the vapor to the atmosphere above the roof the site building. The SSDS was installed within the western and eastern "voids" where soil was left in place for structural support of the adjacent buildings along portions of the north wall. Two SSDS's were installed; the western system (SSDS-1) withdraws soil vapor from the western "void" space and the eastern system (SSDS-2) withdraws soil vapor from the eastern "void" space. As-built drawings of SSDS-1 and SSDS-2 are included in the PRR as Plates V001.00 and V002.00, respectively. Complete details of the NYSDEC-approved "Sub-Slab Depressurization System Design" are presented in the SMP.

3.5 SSDS System Operation Monitoring

The routine maintenance activities include visual inspections, operating data collection and general maintenance. Visual inspection is the routine part of the SSDS operator's activities. The system operator will note any conditions which present a potential hazard or could cause future system shutdown. All equipment maintenance and inspections will be performed in accordance with manufacturer's instructions

specified in the SMP. Specific routine maintenance tasks are outlined below and were recorded monthly on the SSDS O&M Log:

- Inspect control panel and warning lights/alarms;
- Inspect blower piping to confirm operation of appropriate valves (i.e., dilution valve);
- Inspect vacuum/pressure gauges for proper operation;
- Check and clean air filter on each moisture knockout tank; and
- Check for the presence of and remove water in each knockout tank.

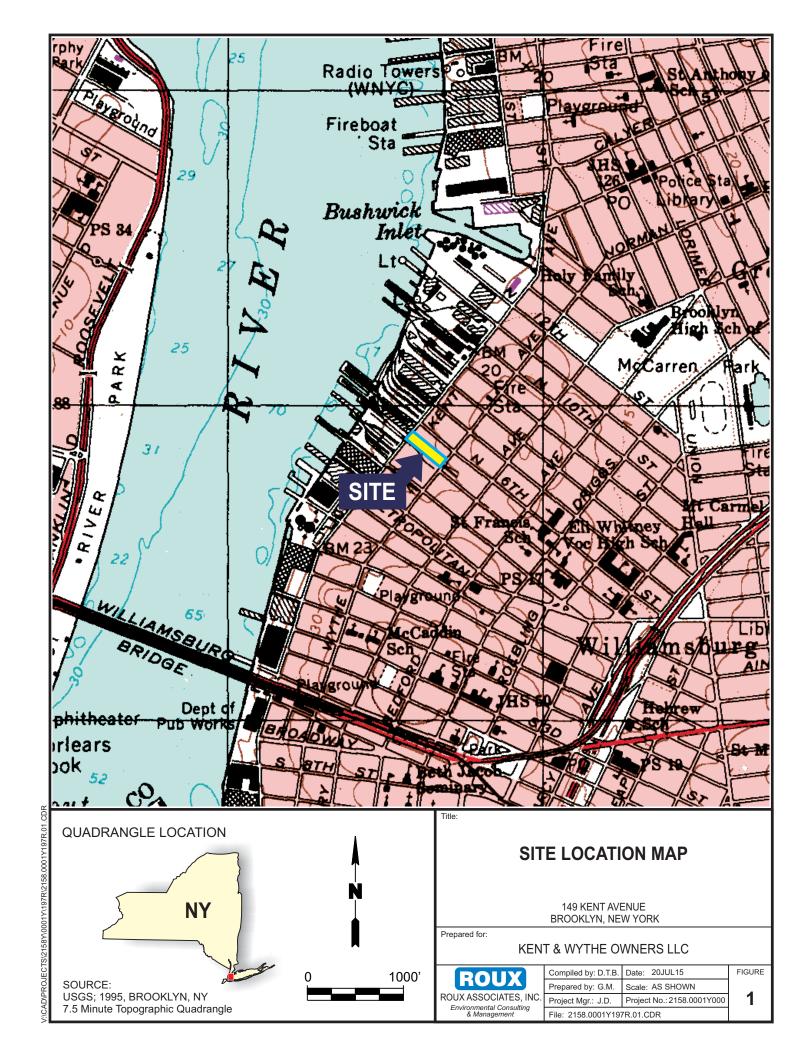
The required monthly SSDS O&M logs that were completed during the operation of the SSDS during the reporting period are provided in chronological order in Appendix E. O&M activities described herein determined that the O&M Plan was carried out as designed during the reporting period of the PRR and it is protective of human health and the environment.

4. Overall PRR Conclusions and Recommendations

The ICs and ECs are performing as designed, are effective, and are compliant with specifications described in the SMP. No changes to the monitoring plan are recommended at this time.

FIGURE

1. Site Location Map

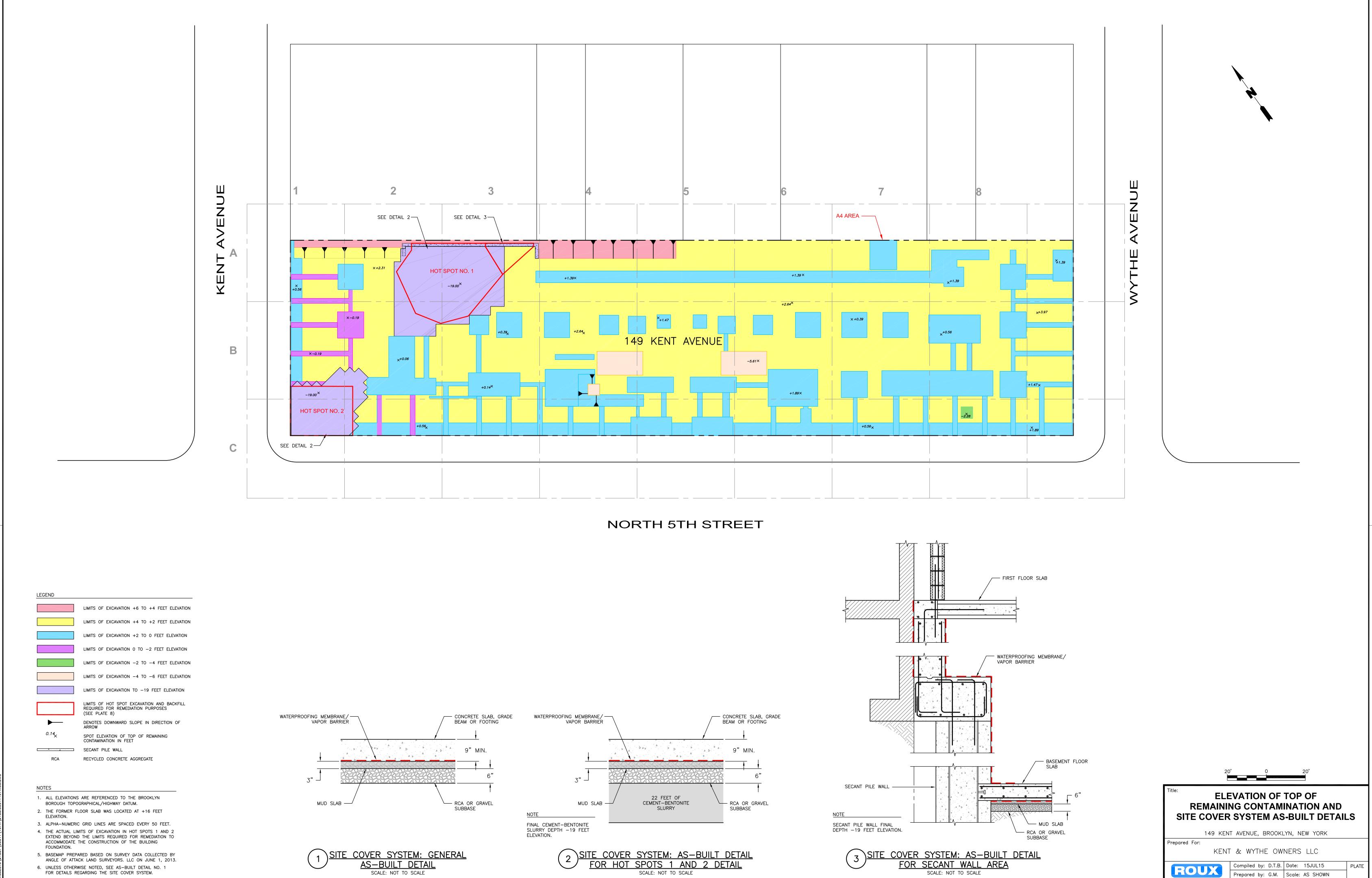


APPENDICES

- A. Site Cover System
- B. IC/EC Certification Form
- C. Site Inspection Checklist
- D. Photograph Log
- E. Monthly SSDS O&M Logs

APPENDIX A

Site Cover System



ROUX ASSOCIATES, INC. Project Mgr: D.T.B. Project: 2158.0001Y004

File: 2158.0001Y197R.08.DWG

Environmental Consulting & Management

WY CAIN DECIFICITY 2158Y COURTY 107BY 2158 COUTY107B OR DW

APPENDIX B

IC/EC Certification 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.	C224159	Site Details		Box 1	
Sit	e Name 149	9 Kent Avenue				
Cit Co	e Address: y/Town: Bro unty:Kings e Acreage:	•	Zip Code: 11211			
Re	porting Perio	od: January 19, 201	9 to January 19, 2020			
					YES	NO
1.	Is the inform	mation above correc	t?		X	
	If NO, inclu	de handwritten abov	e or on a separate shee	t.		
2.		or all of the site prop nendment during this	-	ed, merged, or undergon	e a	X
3.		peen any change of RR 375-1.11(d))?	use at the site during this	Reporting Period		X
4.	•	ederal, state, and/or e property during this		ing, discharge) been issu	ued	X
	-	-		documentation or evide with this certification fo		
5.	Is the site of	currently undergoing	development?			
					Box 2	
					YES	NO
6.		ent site use consister Residential, Comme	nt with the use(s) listed b rcial, and Industrial	elow?	X	
7.	Are all ICs/	ECs in place and fur	nctioning as designed?		X	
	IF TH			IS NO, sign and date bel DRM. Otherwise continu		
Α (Corrective M	easures Work Plan	must be submitted along	g with this form to addre	ss these iss	sues.
Sig	nature of Ow	ner, Remedial Party	or Designated Representa	ative Da	ute	

SITE NO. C224159 Box 3

Description of Institutional Controls

Parcel Owner Institutional Control

3-2333-1001 and 1002 Kent & Wythe Owners LLC

Ground Water Use Restriction Soil Management Plan Landuse Restriction

Monitoring Plan

Site Management Plan

O&M Plan IC/EC Plan

- (1) The site may be used for restricted residential, commercial or industrial use only;
- (2) Compliance with the Site Management Plan (SMP);
- (3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;
- (4) The use of groundwater underlying the site is prohibited without necessary treatment;
- (5) Groundwater and other monitoring must be performed as defined in the SMP;
- (6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- (7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP; and
- (8) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy must be performed as defined in the SMP.

Box 4

Description of Engineering Controls

Parcel <u>Engineering Control</u>

3-2333-1001 and 1002

Groundwater Treatment System

Vapor Mitigation Cover System Subsurface Barriers

- 1) Site cover system to allow for restricted residential use of the site consisting of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for restricted residential use.
- (2) An active sub-slab depressurization system (SSDS) in areas of the building not underlain by a ventilated parking garage.
- (3) Permeable Reactive Barrier Treatment Wall consisting of a series of injections of zero-valent iron (ZVI).
- (4) Groundwater monitoring.

Box	5
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	Periodic Review Report (PRR) Certification Statements
1.	I certify by checking "YES" below that:
	 a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
	b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted
	engineering practices; and the information presented is accurate and compete. YES NO
	X
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:
	(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
	(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.
	YES NO
	X
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.
	A Corrective Measures Work Plan must be submitted along with this form to address these issues.
	Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS SITE NO. C224159

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.

1 Adam Hellegers	at 2 Park Are New York NY print business address
am certifying asOwner	(Owner or Remedial Party
for the Site named in the Site Details	ection of this form.

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 statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE) Date

APPENDIX C

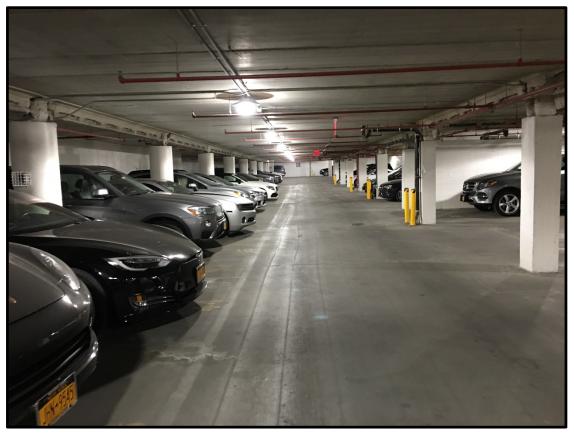
Site Inspection Checklist

Date	01/02/2020		
Completed By:	ALFREDO F.	LEO P.	

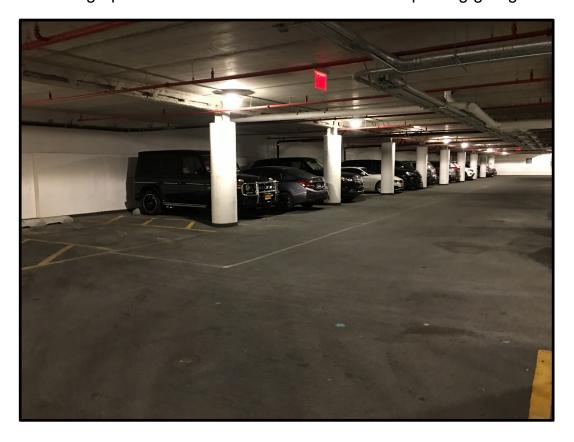
		Status		
		Action		
Description	Ok	Req.	N/A	Actions Taken / Comments
Site Cover System	. /			
1 Inspect site cover system for cracks and leaks.	V			
Sub-Slab Depressurization System Blower No. 1				
A. Aboveground Piping on Roof	1			
1 Inspect aboveground piping for cracks, leaks and support issues.	V			
2 Inspect vacuum/pressure gauges and flowmeters for proper operation.	V			*
B. Electrical	./			
 Check that the electrical control panel is closed/secured. 	V			
C. Blower Enclosure				
1 Inspect condition of exhaust fan, thermostat and louver.	V			
D. Gallon Knock-out Tank	./			
1 Check condition of vacuum filter.	LV,			
2 Check dilution valve for noises or leaks.	V			
4 Check for presence of water in knockout tank.	V			
E. Vapor Phase Carbon Units (If Installed)			410	
1 Inspect and check pressure gauges.			NA	
2 Check for any leaks on piping, fittings, etc.			NA	
Sub-Slab Depressurization System Blower No. 2				
A. Aboveground Piping on Roof	/			
1 Inspect aboveground piping for cracks, leaks and support issues.	V ,			
2 Inspect vacuum/pressure gauges and flowmeters for proper operation.	/			
B. Electrical				
 Check that the electrical control panel is closed/secured. 	V,			
C. Blower Enclosure	1./			
1 Inspect condition of exhaust fan, thermostat and louver.	V			
D. Gallon Knock-out Tank	-			
1 Check condition of vacuum filter.	V.			
Check dilution valve for noises or leaks.	V			,
4 Check for presence of water in knockout tank.				DRAINED 1/2 GAL
E. Vapor Phase Carbon Units (If Installed)			Α. Α	
1 Inspect and check pressure gauges.			NA	
2 Check for any leaks on piping, fittings, etc.			NA	
Institutional Controls	-			
1 Confirm that the site usage is in compliance with the institutional	1			
controls.	V			
Site Records			101-111-111	
1 Inspect site records and confirm that they are up to date (e.g., Site	/			
Inspection Checklists and Sub-Slab Depressurization System Operation	s V			
Logs, sampling logs, etc.)				

APPENDIX D

Photograph Log

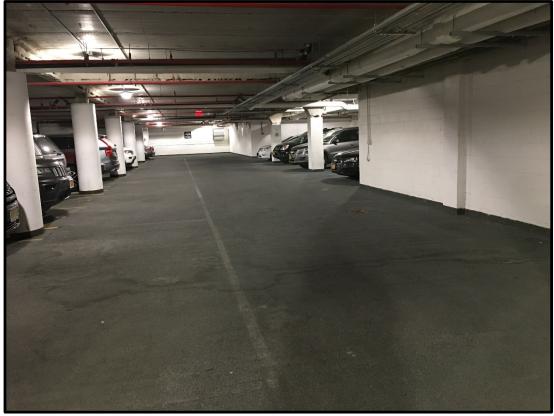


Photograph 1: View of eastern half of the cellar parking garage.

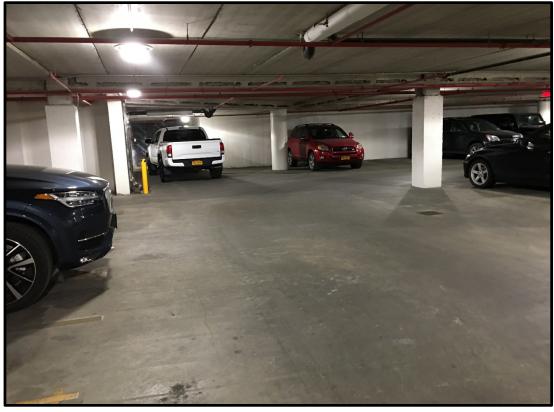


Photograph 2: Northeast wall of cellar parking garage.





Photograph 3: Eastern extent of the cellar parking garage. All site cover components were intact.

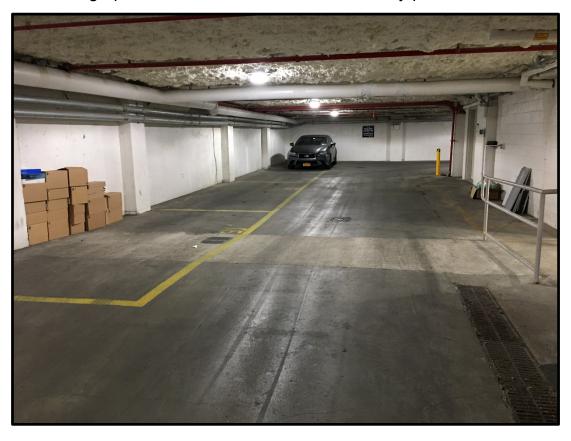


Photograph 4: View of north wall near central parking garage ramp; previously applied Grace Bituthene is in view and intact.





Photograph 5: Photo of south wall near midway point of cellar.



Photograph 6: View of southwest corner of parking garage during site cover system inspection.





Photograph 7: Photo of MP-1 (west SSDS) within lock box within private stairwell leading from first floor to the cellar.



Photograph 8: Photo View of SSDS Blower 1 (west) control panel upon arrival.





Photograph 9: SSDS Blower 1 (west) configuration, looking north.



Photograph 10: SSDS Blower 1 and associated run of piping (left).



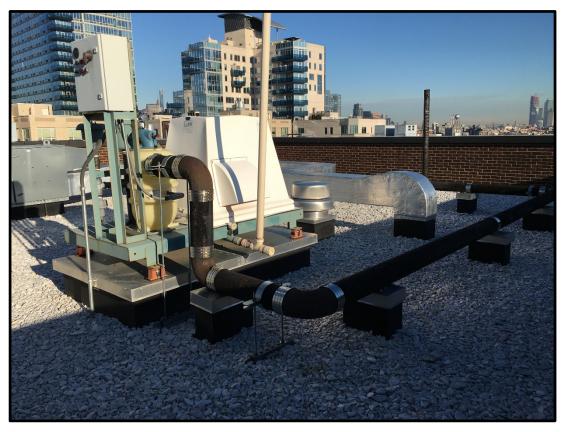


Photograph 11: View of MP-2 (east SSDS) after field pressure test.

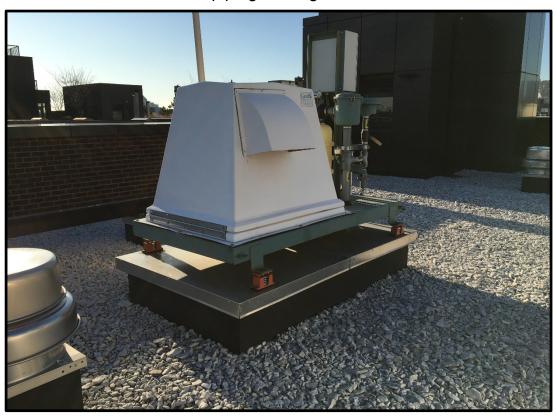


Photograph 12: Photo of SSDS Blower 2 (east) control panel upon arrival.





Photograph 13: Photo of the SSDS Blower 2 (east) configuration and associated piping leading to vertical riser.



Photograph 14: Photo SSDS Blower 2 (east), looking south.



APPENDIX E

Monthly SSDS O&M Logs

Sub-Slab Depressurization System Operations and Maintenance Log, 149 Kent Avenue, Brooklyn, NY

Source of Reading	Units	Values	Comments
Blower No. 1	The state of		
Blower Run Time	Hours	27080	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-1	Inches of Water	12.090	
Knock-Out Tank Vacuum	Inches of Water	16	~
Blower No. 1Inlet Vacuum	Inches of Water	20	
Blower No. 1 Discharge Pressure	Inches of Water	0	
Blower Effluent PID Reading	PPMV	0	
VPGAC Unit Effluent PID Reading (If Applicable)	PPMV	NA	
Blower No. 2			
Blower Run Time	Hours	26314	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-2	Inches of Water	0.223	
Knock-Out Tank Vacuum	Inches of Water	4	
Blower No. 2 Inlet Vacuum	Inches of Water	6	
Blower No. 2 Discharge Pressure	Inches of Water	0	
Blower Effluent PID Reading	PPMV	6	
VPGAC Unit Effluent PID Reading (If Applicable)	PPMV	NA	

VPGAC Unit Effluent PID Reading (If Applicable)	PPMV	NA	
Is the System operating within the acceptable conditions?			YES
If no, was the condition corrected and how?			NA
Were any maintenance activities performed?			DRAINER 1/2 GAL FROM K.D. IN BLOWER 2
If yes, please record maintenance activities performed.			NO WATER IN K.O. AT BLOWER !
Form Completed By: ALFREDO F. / Leo Gell.		Signature:	Date & Time: 01/02/2020

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/Artions Taken (list actions taken if "No" is checked)
Is the system operating normally?	1×		
Are any warning lights on? (Please list those that are on)		4,	
If there is an alarm condition, was it fixed and the system restarted?		V	
is the blower enclosure in good condition?	1	_	
tue the valves (at blower and aboveground piping) in good condition?	1	-	
the vacuum filter in good condition?	V	_	TO P YEARINAY
loes the knock-out tank need to be drained? (Record amount drained)	14		Igallon for FEBRUARY
or aboveground piping free of cracks, leaks, and support issues?	-V	-	
re vacuum pressure gauges at blower operating properly?	14	-	
e interior piping free of cracks, leaks, and support issues?	N		
d maintenance activities that were performed or			
other comments about the system:			

Source of Reading	Units	Values	Comments
Blower No. 2 - East			
Blower Run Time	Hours	19442	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-2	Inches of Water	1247	
Knock-Our Tank Vacuum	Inches of Water	4	
Nower No. 2 Inlet Vacuum	Inches of Water	8	
lower No. 2 Discharge Pressure	Inches of Water	0	
ower Effluent PID Reading	PPMV	2.	
GAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By: Re Prets

Signature:

Date & Time:

2/27/19 10:15AM

	Yes	No	Comments/Actions Tokan (flat actions taken if "No" is cherked)
PECTION ITEM DESCRIPTION	1	1	
- constant normally?		1.	
to the said (Please list those that are only	100	7	
on warring input or deficient was it fixed and the system restarted?	-	70	
re is an alarm consumon, was a series of	-7	-	
blower enclosure in good condition?	1	-	
the valves (at blower and aboveground piping) in good condition?	1	-,	
Class in good condition?	32	1	
the knowkerest tank need to be drained? (Record amount misses)			
aboveground piping free of cracks, leaks, and support issues?	-	-	
vacuum pressure gauges at blower operating properly?	1 =	-	
recomm presence garages of cracks, leaks, and support issues?	V		

other comments about the system

Source of Heading	Units	Values	Comments
tower No. 1 - West		1971	
fower Ron Time	Houn	13 / 11	
acutum at Aboveground Piping (at roof line)	Inches of Water	14.20	
P-I	Inches of Water	17.	
sock-Out Tank Vacuum	Inches of Water	20	
ower No. 1 Inlet Vacuum	Inches of Water	0	
wer No. 1 Discharge Pressure	PPMV	0	
over Effluent PID Reading GAC Unit Effluent PID Reading (If Applicable)	PPMV	-	

Form Completed By: Le PTETRI

Signature:

Date & Time: 2/27/19 9:48AM

NSPECTION ITEM DESCRIPTION			Communits' Artisons Takern (that actions takern if "No" is checked)
s the system operating normally?	Yes	Na	Countries Assessment
are any warning lights on? (Please list those that are on)	2	-,	
there is an alarm condition, was it fixed and the system restarted?	-	4	
the blower enclosure in good condition?	5	N	
are the valves (at blower and aboveground piping) in good condition?	1000	-	
the vacuum filter in good condition?	7	1	
loss the knock-out tank need to be drained? (Record amount drained)		1	
are aboveground piping free of cracks, leaks, and support issues?	7		
re vacuum/pressure gauges at blower operating properly?	1		
re interior piping free of cracks, leaks, and support issues?	1		

Source of Reading	Units	Values	Comments
Hower No. 2 - East		100.07	
lower Run Time	Hours	19777.	
acusm at Aboveground Piping (at roof line)	Inches of Water	0	
	Inches of Water	. 288	
GP-2	Inches of Water	4	
nock-Out Tank Vacuum	Inches of Water	8	
lower No. 2 Inlet Vacuum	Inches of Water	0	
lower No. 2 Discharge Pressure	PPMV	, 5	
lower Effluent PID Reading DOLLO Link Effluent PID Reading (If Applicable)	- mm m1		

Form Completed By: Leo PJEIRI

Signature: P.

Date & Time: 3 13 19 . @ 10 Am

149 Kent Atenut, Steery			Consumité Actions Taken (fint actions taken if "No" is checked)
INSPECTION ITEM DESCRIPTION	Yes	No	Consumble Arthura Tahen (C.)
Is the system operating normally?	1	-/	
Are any warning lights on? (Please list those that are on)	-	1	
f there is an alarm condition, was it fixed and the system restarted?	-/	K	
the blower enclosure in good condition?	14	-	
ure the valves (at blower and aboveground piping) in good condition?	14	-	
the vacuum filter in good condition?	12	1	
oes the knock-out tank need to be drained? (Record amount drained)	17	1 -	
re aboveground piping free of uracks, leaks, and support issues?	1	-	
re vacuum/pressure gauges at blower operating properly?	14	1 -	
re interior piping free of crucks, leaks, and support issues?	1 4	_	
at maintenance activities that were performed or	-		

List maintenance activities that were performed or other comments about the system:

Source of Reading	Units	Values	Comments
Blower No. 1 - West	Hours	20047	
(Upwer Run Time	Inches of Water	0	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	14.98	
(9-1	Inches of Water	18	
nock-Out Tank Vacuum	Inches of Water	2/0	
Sower No. 1 Infer Vacuum	Inches of Water	0	
Sower No. 1 Discharge Pressure	PPMV	, /	
lower Effluent PID Reading	- man 49.1		

Town Completed By

Signature D

Date & Tin

3/13/19 @ 10AM

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	V,	_	DIERHEAT / HIT RESTART / Allgood.
Are any warning lights on? (Please list those that are on)	V/		picket the state of the
f there is an alarm condition, was it fixed and the system restarted?	1	1000	× 4/13/
the blower enclosure in good condition?	4	-	
ure the valves (at blower and aboveground piping) in good condition?	V,	_	
the vacuum filter in good condition?	V		
oes the knock-out tank need to be drained? (Record amount drained)		2	
aboveground piping free of cracks, leaks, and support issues?	4	-	
vacuum pressure gauges at blower operating properly?	V.	-	
interior piping free of cracks, leaks, and support issues?	1		

List maintenance activities that were performed or

other comments about the system:

Source of Reading	Units	Values	Comments
Blower No. 2 - East	PROPERTY.		
Blower Run Time	Hours	20583	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
(F-2	Inches of Water	284.	
nock-Out Tank Vacuum	Inches of Water	6.	
lower No. 2 Indet Vacuum	Inches of Water	8	
ower No. 2 Discharge Pressure	Inches of Water	0	
ower Effluent PID Reading	PPMV	2.	
GAC Unit Effluent PID Reading (If Applicable)	PPMV	_	

Form Completed By:

Date & Time: 4/16/

NSPECTION ITEM DESCRIPTION	Yes	No	Comments/Actions Taken (int actions taken if "No" is checked)
the system operating normally?	V.	-/	
re any warning lights on? (Picase list those that are on)	-	4	
there is an alarm condition, was it fixed and the system restarted?	-/	N	
the Nower enclosure in good condition?	V	-	
re the valves (at Nower and aboveground piping) in good condition?	N		
the vacuum filter in good condition?	V	-1	
on the knock-out tank need to be drained? (Record amount drained)	-	V	
aboveground piping free of cracks, leaks, and support issues?	4		
vacuum pressure gauges at blower operating properly?	V/		
interior piping free of cracks, leaks, and support issues?	V		

Source of Reading	Units	Values	Comments
Slower No. 1 - West			
Blower Ron Time	Hours	20868	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
Ø-1	Inches of Water	13.05	
Stock-Out Tank Vacuum	Inches of Water	20	
Iower No. 1 Inlet Vacuum	Inches of Water	18.	
lower No. 1 Discharge Pressure	Inches of Water	0	
lower Effluent PID Reading	PPMCV	0	
PGAC Unit Effluent PID Reading (If Applicable)	PPMCV		

Form Completed By:

.

Signature K.D

Date & Time: 4/16/19

Is the system operating normality? Are any warning lights on? (Please list those that are on) If there is an alarm condition, was it fixed and the system restarted? Is the blower enclosure in good condition? Are the valves (at blower and aboveground piping) in good condition? Is the vacuum filter in good condition? Once the knock-out tank need to be drained? (Record amount drained) Are aboveground piping free of cracks, leaks, and support issues? We vacuum pressure garages at blower operating property? We interior piping free of cracks, leaks, and support issues?	INSPECTION ITEM DESCRIPTION	Yes	No	Comments/Actions Taken (list selions taken if "No" is checked)
If there is an alarm condition, was it fixed and the system restarted? Is the blower enclosure in good condition? Are the valves (at blower and aboveground piping) in good condition? Is the vacuum filter in good condition? Does the knock-out tank need to be drained? (Record amount drained) Are aboveground piping free of cracks, leaks, and support issues? Are vacuum pressure gauges at blower operating properly?	Is the system operating normally?	1		
If there is an alarm condition, was it fixed and the system restarted? Is the blower enclosure in good condition? Are the valves (at blower and aboveground piping) in good condition? Is the vacuum filter in good condition? Does the knock-out tank need to be drained? (Record amount drained) Are aboveground piping free of cracks, leaks, and support issues? Are vacuum pressure gauges at blower operating properly?	Are any warning lights on? (Please list those that are on)	-		
Are the valves (at blower and aboveground piping) in good condition? In the vacuum filter in good condition? Oose the knock-out tank need to be drained? (Record amount drained) For aboveground piping free of cracks, leaks, and support issues? For vacuum pressure gauges at blower operating property?	If there is an alarm condition, was it fixed and the system restarted?		2	
Are the valves (at blower and aboveground popung) in good continued: Is the vacuum filter in good condition? Does the knock-out tank need to be drained? (Record amount drained) Are aboveground piping free of cracks, leaks, and support issues? Are vacuum pressure gauges at blower operating properly?	is the blower enclosure in good condition?		-	
Oose the knock-out tank need to be drained? (Record amount drained) Are aboveground piping free of cracks, leaks, and support issues? Lee vacuum pressure gauges at blower operating properly?	Are the valves (at blower and aboveground piping) in good condition?		-	
Occe the knock-out tank need to be drained? (Record amount drained) Are aboveground piping free of cracks, leaks, and support issues? Are vacuum pressure gauges at blower operating properly?	s the vacuum filter in good condition?	1	1	
Are aboveground piping free of cracks, leaks, and support issues?			~	
the vacuum pressure gauges at blosser operating properly?		-	-	
ce interior piping free of cracks, leaks, and support issues?			-	
	are interior piping free of cracks, leaks, and support issues?	V		
	other community about the system:			

Source of Reading	Units	Values	Comments
lower No. 2 - East		21428	
ower Run Time	Hours	101900	
court at Aboveground Piping (at roof line)	Inches of Water	0	
	Inches of Water	.7.8/	
P-2	Inches of Water		
ock-Out Tank Vacuum	Inches of Water	6-	
ower No. 2 Inlet Vacuum	Inches of Water	0	
mer No. 2 Discharge Pressure	PPMV	,4	
wer Effluent PID Reading GAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By: Las

Date & Time: 5/22 3:40PM

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/Actions Taken (list actions taken # "Ne" is checked)
Is the system operating normally?	1		
Are any warning lights on? (Please list those that are on)	_	4,	
If there is an alarm condition, was it fixed and the system restarted?		1	
Is the blower enclosure in good condition?	4	-	
Are the valves (at blower and aboveground piping) in good condition?	1		
is the vacuum filter in good condition?	4		
Does the knock-out tank need to be drained? (Record amount drained)	-	~	
Are aboveground piping free of cracks, leaks, and support issues?	1	-	
tre vacuum pressure gauges at Mower operating properly?	4	-	
tre interior piping free of cracks, leaks, and support issues?	V		
ist maintenance activities that were performed or			CLASS CONTRACTOR OF THE SECOND STATE OF THE SE
other comments about the materix			

Source of Reading	Units	Values	Comments
Blower No. 1 - West			
Blower Run Time	Hours	21687	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-1	Inches of Water	11.21	
Crock-Out Tank Vacuum	Inches of Water	18	
Hower No. 1 Inlet Vacuum	Inches of Water	20,-	
dower No. 1 Discharge Pressure	Inches of Water	0	
	PPMV	.9	
lower Effluent PID Reading PGAC Unit Effluent PID Reading (If Applicable)	PPMV	_	and the second second

Form Completed By: LEO PTETRI

Signature:

Dute & Time: 5/22 3:30 PM

	You,	74	Commons Arthur Token (let ortice telen # "Ne" h cherked)
OVERTION TEMPERATURE	1	MINIO NO	THE RESIDENCE OF THE PARTY OF T
to the system operating normally?	-	Z	
Are any wanting lighter on? (Please Set Stone that are no)	-	7	
If there is an electr condition, who it filed and the system restarted?	Z.	1	
is the Moreov exchange in good condition?		100	
no the raises (at Norwa and aboveground piping) to good condition?	4		
to the record litter to good condition?	1×	7	
Does the Sansk-vist tenk need to be drained? (Record amount drained)	-7	V	
to alterngenesal piping free of cracks, bules, and support lawse?	12	-	
or vacuum/processes garages at Microsor operating prospect/	14.1	-2	
on tensors printing free of practice, brake, and expect tensors?	VV	196	
of autotronous activities that were performed or	_	-	
other common about the probets			

Source of Boarding	Units	Values	Cutanents
Moreov No. 2 - East			
Notice Flag Time	15mm	22192	
Vaccoust Aboveground Piping (at roof line)	Inches of Water	0	
MP.2	Subsect Water	1320	
Donal-Clar Sank Vaccous	States of Water	4	
Some No. 2 Select Vaccours	- Inches of Water	4.	And the second second
hower No. 2 Discharge Promore	Suches of Water	0	
own Efford PE Roding	PROV	-0-	
NGAC Clair Efficient PED Reading (If Applicable)	29507	-	

rum complesed to Site PIETRI

DWATEN 6/25/19 9:0901

POPEL FROM IT EN DESCRIPTION	Ver	Na	Commonto Actions Taken (Set actions taken 8"Ne" is checked)
Is the system operating normally?	1		
Are any warning lights out (Plane but those that are on)		1	
Tithers in an allatte combition, was it fixed and the system metarted?	1000	1	
the Mover endower in good condition?	Z		
or the valves (at blower and aboveground piping) in good condition?	12		
the vacuum filter in good condition?	17	-	
ove the knock-out tank need to be drained? (Racond amount drained)		2	
e aboveground piping free of aracks, looks, and support issues?	7	-	
vacuum proseure gauges at Moreor operating properly?	7	-	
interior piping free of cracks, leaks, and support insura?	1	7	
maintenance activities that were performed or			
other community about the system:			

Source of Reading	Links	Values	Comments
Shower No. 1 - West			Comments
Hower Fon Time	Hiran	22496	
screen at Aboveground Plying (at roof line)	Inches of Water	_	
P	Inches of Water	11.3	
onk-Our Tank Vacuum	Inches of Water	20.	
mer No. 1 Infer Vacuum	Inches of Water	19	
rur No. 3 Discharge Pressure	Inches of Water	0	
ner Liffment PID Reading	PPMV	-0-	
AC Unit Effluent PED Reading (If Applicable)	PPMV		

Form Completed By:

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	V	-/	
Are any warning lights on? (Please list those that are on)	-	V/	
If there is an alarm condition, was it fixed and the system restarted?	-	V	
s the blower enclosure in good condition?	1 2	-	
are the valves (at blower and aboveground piping) in good condition?	N	-	
s the vacuum filter in good condition?	1 -		
oes the knock-out tank need to be drained? (Record amount drained)	-/	1	
re aboveground piping free of cracks, leaks, and support issues?	1	-	
re vacuum/pressure gauges at blower operating properly?	V	-	
re interior piping free of cracks, leaks, and support issues?	V		
st maintenance activities that were performed or			
other comments about the system:			

		THE RESERVE TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	Comments
Source of Reading	Units	Values	
Blower No. 2 - East		22601	
Blower Run Time	Hours Inches of Water	6	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	312	
MP-2	Inches of Water	4	
Knock-Out Tank Vacuum	Inches of Water	2.	
Blower No. 2 Inlet Vacuum Bressure	Inches of Water	0	
Blower No. 2 Discharge Pressure	PPMV	0	
Blower Effluent PID Reading (If Applicable)	PPMV	1	

Form Completed By:

Signature:

Date & Time: 7/12/19 11:57AM

Blow 149 F

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Are t

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BBV

Blower 1 (West) Sub-Slab Depressurization System Operations and Maintenance Log 149 Kent Avenue, Brooklyn, NY

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	V		
Are any warning lights on? (Please list those that are on)		1	
If there is an alarm condition, was it fixed and the system restarted?		1	
s the blower enclosure in good condition?	1		
are the valves (at blower and aboveground piping) in good condition?	1		
the vacuum filter in good condition?	-		
oes the knock-out tank need to be drained? (Record amount drained)	_	V	
re aboveground piping free of cracks, leaks, and support issues?	V		
re vacuum/pressure gauges at blower operating properly?	V		
e interior piping free of cracks, leaks, and support issues?	V		
t maintenance activities that were performed or			
other comments about the system:			

Source of Reading	Units	Values	Comments
Blower No. 1 - West			
Blower Run Time	Hours	22905	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-1	Inches of Water	11.4	
Knock-Out Tank Vacuum	Inches of Water	16.	
Blower No. 1 Inlet Vacuum	Inches of Water	20	
Blower No. 1 Discharge Pressure	Inches of Water	. 0	
Blower Effluent PID Reading	PPMV	0	
PGAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By:

Signature:

Date & Time:

1:53 AM

Blower 2 (East) Sub-Slab Depressurization System Operations and Maintenance Log 149 Kent Avenue, Brooklyn, NY

Is the system operating normally? Are any warning lights on? (Please list those that are on) If there is an alarm condition, was it fixed and the system restanted? Is the blower enclosure in good condition? Inter the valves (at blower and aboveground piping) in good condition? In the vacuum filter in good condition? Inter the knock-out tank need to be drained? (Record amount drained) The aboveground piping free of cracks, leaks, and support issues? The vacuum pressure gauges at blower operating properly?		Yes	No	Comments/Actions Taken (list actions taken if "No" is checked)
s the system operating normally? In any warning lights on? (Please list those that are on) (there is an alarm condition, was it fixed and the system restanted? the blower enclosure in good condition? In the vacuum filter in good condition? The vacuum filter in good condition? The vacuum filter in good condition? The vacuum pressure gauges at blower operating properly?	NSPECTION ITEM DESCRIPTION			
If there is an alarm condition, was it fixed and the system restarted? If the blower enclosure in good condition? If the vacuum filter in good condition? One the knock-out tank need to be drained? (Record amount drained) To aboveground piping free of cracks, leaks, and support issues? To vacuum/pressure gauges at blower operating properly?	s the system operating normally?		-/	
If there is an alarm condition, was it fixed and the system restarted? If the blower enclosure in good condition? If the vacuum filter in good condition? One the knock-out tank need to be drained? (Record amount drained) To aboveground piping free of cracks, leaks, and support issues? To vacuum/pressure gauges at blower operating properly?	are any warning lights on? (Please list those that are on)	-	-/	
s the blower enclosure in good condition? Inter the valves (at blower and aboveground piping) in good condition? In the vacuum filter in good condition?		-		
the vacuum filter in good condition? one the knock-out tank need to be drained? (Record amount drained) re aboveground piping free of cracks, leaks, and support issues? on vacuum/pressure gauges at blosser operating properly?		14	-	
the vacuum filter in good condition? one the knock-out tank need to be drained? (Record amount drained) re aboveground piping free of cracks, leaks, and support issues? re vacuum/pressure gauges at blower operating properly?	on the volum (at blower and aboveground piping) in good condition?	14	-	
oes the knock-out tank need to be drained? (Record amount drained) re aboveground piping free of cracks, leaks, and support issues? re vacuum/pressure gauges at blower operating properly?		1	-/	
re aboveground piping free of cracks, leaks, and support issues? • vacuum/pressure gauges at blower operating properly?	the vacuum later in good sensenters		1	
e vacuum pressure gauges at blower operating properly?	ses the knock-out tank need to be drained? (Mescee amount of	1/	100000	
e vacuum pressure gauges at blower operating properly?	e aboveground piping free of cracks, leaks, and support issues?	1-		
London piping fing of cracks, Iraks, and support issues?		1/	-	
	interior piping free of cracks, leaks, and support issues?	/		

	12.00	Values	Comments
Source of Reading	Units	Values	
Blower No. 2 - East		23418	
Hower Run Time	Hours	0	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	229	The same of the sa
Ø-2	Inches of Water		
	Inches of Water	,2	
nock-Out Tank Vacuum	Inches of Water	, 8	
lower No. 2 Inlet Vacuum	Inches of Water	0	
lower No. 2 Discharge Pressure	PPMV	*/	
ower Effluent PID Reading	PPMV		

Form Completed By:

Signature:

8/15/19 10:45

Blower I (West) Sub-Slab Depressurization System Operations and Maintenance Log 149 Kent Avenue, Brooklyn, NY

	Yes	No	Comments/Actions Token (list actions taken if "Na" is checkedly
NAMES THON IT EM DESCRIPTION	1	MICHAEL	
the system specifing normally?	2	1	
pe any warning lights out (Please list those that are on)	1 7	11	
there is an alarm condition, was it fixed and the system contacted?	1-/	4	
the blower enclosure in good condition?	-	_	
es the valves (at blower and aboveground piping) in good condition?	14/	-	
the vacuum filter in good condition?	Y	-/	
on the knock-out tank need to be drained? (Record amount drained)	-	1 2	
a aboveground piping thee of cracks, looks, and support issues?	1	-	
a bloweground papers, over the secondary recovery?	1 3/	-	
a vacuum/pressure gauges at blower operating properly?	11/		
s interior piping free of cracks, leaks, and support issues?	and the same		

2 Stanford	Units	Values	Comments
Source of Reading			
Bower No. 1 - West	Hours	5 23722·	
lower Run Time	Inches of Water	0	
scusm at Aboveground Piping (at roof line)	Inches of Water	15.25	
N	Inches of Water	20-	
ock-Out Tank Vacuum	Inches of Water	- 20	
over No. 1 Infet Vacuum	Inches of Water	0	
wer No. 1 Discharge Pressure	PPMV	0 %	
our Efficient PED Reading (If Applicable)	225.0V		

Form Completed By:

Der & Time: 3/15/19 10/30 AM

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	/		
Are any warning lights on? (Please list those that are on)	_		High Ilvid level on 9/2,9/6, 9/9 Pump turned off, water drained, and
If there is an alarm condition, was it fixed and the system restarted?	_		Pump turned of F, water drained, and
Is the blower enclosure in good condition?	_		- Yeset
Are the valves (at blower and aboveground piping) in good condition?	_		
Is the vacuum filter in good condition?	~		
Does the knock-out tank need to be drained? (Record amount drained)	/		Half gallon combined on noted
Are aboveground piping free of cracks, leaks, and support issues?	_		cares
Are vacuum/pressure gauges at blower operating properly?			
Are interior piping free of cracks, leaks, and support issues?			
List maintenance activities that were performed or			
other comments about the system:			

Source of Reading	Units	Values	Comments
Blower No. 2 - East			
Blower Run Time	Hours	13997	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-2	Inches of Water	.309	
Knock-Out Tank Vacuum	Inches of Water	. 2	
Blower No. 2 Inlet Vacuum	Inches of Water	.6	
Blower No. 2 Discharge Pressure	Inches of Water		
Blower Effluent PID Reading	PPMV	.0	
VPGAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By: Frasto Velez	Signature: Esstelle	Date & Time: 9/17/19	

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?			
Are any warning lights on? (Please list those that are on)		_	
If there is an alarm condition, was it fixed and the system restarted?		/	
Is the blower enclosure in good condition?	_		
Are the valves (at blower and aboveground piping) in good condition?	_		
Is the vacuum filter in good condition?	/		
Does the knock-out tank need to be drained? (Record amount drained)			
Are aboveground piping free of cracks, leaks, and support issues?			
Are vacuum/pressure gauges at blower operating properly?	_		
Are interior piping free of cracks, leaks, and support issues?			
List maintenance activities that were performed or			
other comments about the system:			

Source of Reading	Units	Values	Comments
Blower No. 1 - West			
Blower Run Time	Hours	24517.4	
Vacuum at Aboveground Piping (at roof line)	Inches of Water		
MP-1	Inches of Water	15.05	
Knock-Out Tank Vacuum	Inches of Water	70.	
Blower No. 1 Inlet Vacuum	Inches of Water	700	
Blower No. 1 Discharge Pressure	Inches of Water	0	
Blower Effluent PID Reading	PPMV	. 2	
VPGAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By: Erasfo Velez	

Date & Time: 9/17/19

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?			
Are any warning lights on? (Please list those that are on)	_		High Fluid level on 9/19,9/21,10/16,10/17
If there is an alarm condition, was it fixed and the system restarted?	_		Rumpturned off, water drained + rese
Is the blower enclosure in good condition?	_		
Are the valves (at blower and aboveground piping) in good condition?	1		
Is the vacuum filter in good condition?	_		
Does the knock-out tank need to be drained? (Record amount drained)	_		3/4 Gallon. Most came From date
Are aboveground piping free of cracks, leaks, and support issues?	_		10/16
Are vacuum/pressure gauges at blower operating properly?	_		
Are interior piping free of cracks, leaks, and support issues?	/		
List maintenance activities that were performed or			
other comments about the system:			

Source of Reading	Units	Values	Comments
Blower No. 2 - East			
Blower Run Time	Hours	24630.1	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-2	Inches of Water	.275	
Knock-Out Tank Vacuum	Inches of Water	2-	
Blower No. 2 Inlet Vacuum	Inches of Water	10-	
Blower No. 2 Discharge Pressure	Inches of Water	0	
Blower Effluent PID Reading	PPMV	.2	
VPGAC Unit Effluent PID Reading (If Applicable)	PPMV		

Exortlely Date & Time: 10/17/19 11:50

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Tokon (list actions tolons is up)
Is the system operating normally?			Comments/ Actions Taken (list actions taken if "No" is checked)
Are any warning lights on? (Please list those that are on)		-	
If there is an alarm condition, was it fixed and the system restarted?		-	
Is the blower enclosure in good condition?			
Are the valves (at blower and aboveground piping) in good condition?			
Is the vacuum filter in good condition?			
Does the knock-out tank need to be drained? (Record amount drained)		-	
Are aboveground piping free of cracks, leaks, and support issues?			
are vacuum/pressure gauges at blower operating properly?		-	
Are interior piping free of cracks, leaks, and support issues?			
ist maintenance activities that were performed or			
other comments about the system:			

Source of Reading	Units	Values	Comments
Blower No. 1 - West			Comments
Blower Run Time	Hours	25235.4	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-1	Inches of Water	16.82	
Knock-Out Tank Vacuum	Inches of Water	70-	
Blower No. 1 Inlet Vacuum	Inches of Water	7.6-	
Blower No. 1 Discharge Pressure	Inches of Water	0	
Blower Effluent PID Reading	PPMV	1.7	
VPGAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By: Erasto Velez

DESARBIAL ENGINEEDING OF

Signature: 166

Date & Time: 10/17/19

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	1	-,	
Are any warning lights on? (Please list those that are on)	17	~	WATER PRAIN 19-110n +H
If there is an alarm condition, was it fixed and the system restarted?	1	-	MAIN ALLI
Is the blower enclosure in good condition?	1 V	-	
Are the valves (at blower and aboveground piping) in good condition?	1V	1 -	
s the vacuum filter in good condition?	V	-	DRAINCA Igallon
Does the knock-out tank need to be drained? (Record amount drained)	14	1-	21-21-21
are aboveground piping free of cracks, leaks, and support issues?	-	-	
are vacuum/pressure gauges at blower operating properly?	1 >	-	
are interior piping free of cracks, leaks, and support issues?	1		
ist maintenance activities that were performed or other comments about the system:			

AD Har	Units	Values	Comments
Source of Reading			
Blower No. 2 - East	Hours	25139	
ower Run Time Ower Run Time Ower Run Time Ower Run Time Ower Run Time	Inches of Water	222	
cuum at Aboveground Piping (at roof line)	Inches of Water	0.223	
ock-Out Tank Vacuum	Inches of Water	4	
wer No. 2 Inlet Vacuum	Inches of Water	6	
wer No. 2 Discharge Pressure	Inches of Water		
ver Effluent PID Reading	PPMV		
PGAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By:

tro tri Signature:

Date & Time: 11/14/19 9/1.

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	1		
Are any warning lights on? (Please list those that are on)		V	
If there is an alarm condition, was it fixed and the system restarted?		1	
Is the blower enclosure in good condition?	V		
Are the valves (at blower and aboveground piping) in good condition?	IV,	_	
Is the vacuum filter in good condition?	V	-/	
Does the knock-out tank need to be drained? (Record amount drained)	-	V	
Are aboveground piping free of cracks, leaks, and support issues?	V	, -	
Are vacuum/pressure gauges at blower operating properly?	V	1 -	
Are interior piping free of cracks, leaks, and support issues?	V		
List maintenance activities that were performed or			
other comments about the system:		Section of the Section	

Source of Reading	Units	Values	Comments
Blower No. 1 - West	Hours	25904	
lower Run Time acuum at Aboveground Piping (at roof line)	Inches of Water	0	
IP-1	Inches of Water Inches of Water	18	
nock-Out Tank Vacuum	Inches of Water	20	
lower No. 1 Inlet Vacuum 1 Discharge Pressure	Inches of Water	0	
ower No. 1 Discharge Pressure	PPMV		
ower Effluent PID Reading O A C Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By:

les Pétri

Signature D

Date & Time: 11/14/19 9AM

the system operating normally?	Ym/	No	Commente' Actions Taken (list actions taken # "No" is checked)
e any warning lights on? (Piense list those that are on)	1	-	
here is an alarm condition, was it fixed and the system restarted?	-	4	
he blower enclosure in good condition?	-/	~	
the valves (at blower and aboveground piping) in good condition?	17	7	
he vacuum filter in good condition?	7	-	
on the knock-out tank need to be drained? (Record amount drained)		7	
aboveground piping free of cracks, leaks, and support issues?	7		
Vacuum pressure gauges at blower operating properly?	V		
interior piping free of cracks, leaks, and support issues?	7		

Source of Reading	Units	Values	Comments
Blower No. 2 - East		25011	
Blower Run Time	Hours	25911	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
	Inches of Water	3/0.	
MP-2	Inches of Water	4.	
Cnock-Out Tank Vacuum	Inches of Water	4.	
Blower No. 2 Inlet Vacuum	Inches of Water	0	
Blower No. 2 Discharge Pressure	PPMV	-0-	
Nower Effluent PID Reading (If Applicable)	PPMV		

Form Completed By:

Signature:

Date & Time: 1211

= 141/12 @ 9am

NSPECTION ITEM DESCRIPTION	Yes	No	Comments' Actions Taken (list actions taken if "No" is checked)
the system operating normally?	1		
or any warning lights on? (Please list those that are on)	12	1.	
f there is an alarm condition, was it fixed and the system restarted?	-/	1	
the blower enclosure in good condition?	1/		THE RESERVE TO SERVE THE PARTY OF THE PARTY
to the valves (at Hower and aboveground piping) in good condition?	V		
the vacuum filter in good condition?	V	_/	
Does the knock-out tank need to be drained? (Record amount drained)	-/	V	
use above ground piping free of cracks, leaks, and support issues?	V/		
the vacuum pressure gauges at blower operating properly?	1/		
us interior piping free of cracks, leaks, and support issues?	V		

Source of Hrading	Units	Values	Comments
Blower No. 1 - West			
Blower Run Time	Hours	24574	
Vacuum at Aboveground Piping (at roof line)	Inches of Water	0	
MP-I	Inches of Water	20,76	
Knock-Out Tank Vacuum	Inches of Water	12	
Blower No. 1 Inlet Vacuum	Inches of Water	1.8	
Blower No. 1 Discharge Pressure	Inches of Water	-	
Slower Effluent PID Reading	PPMV	0 pm	
VPGAC Unit Effluent PID Reading (If Applicable)	PPMV		

Form Completed By:

Date & Time: 12/17/19

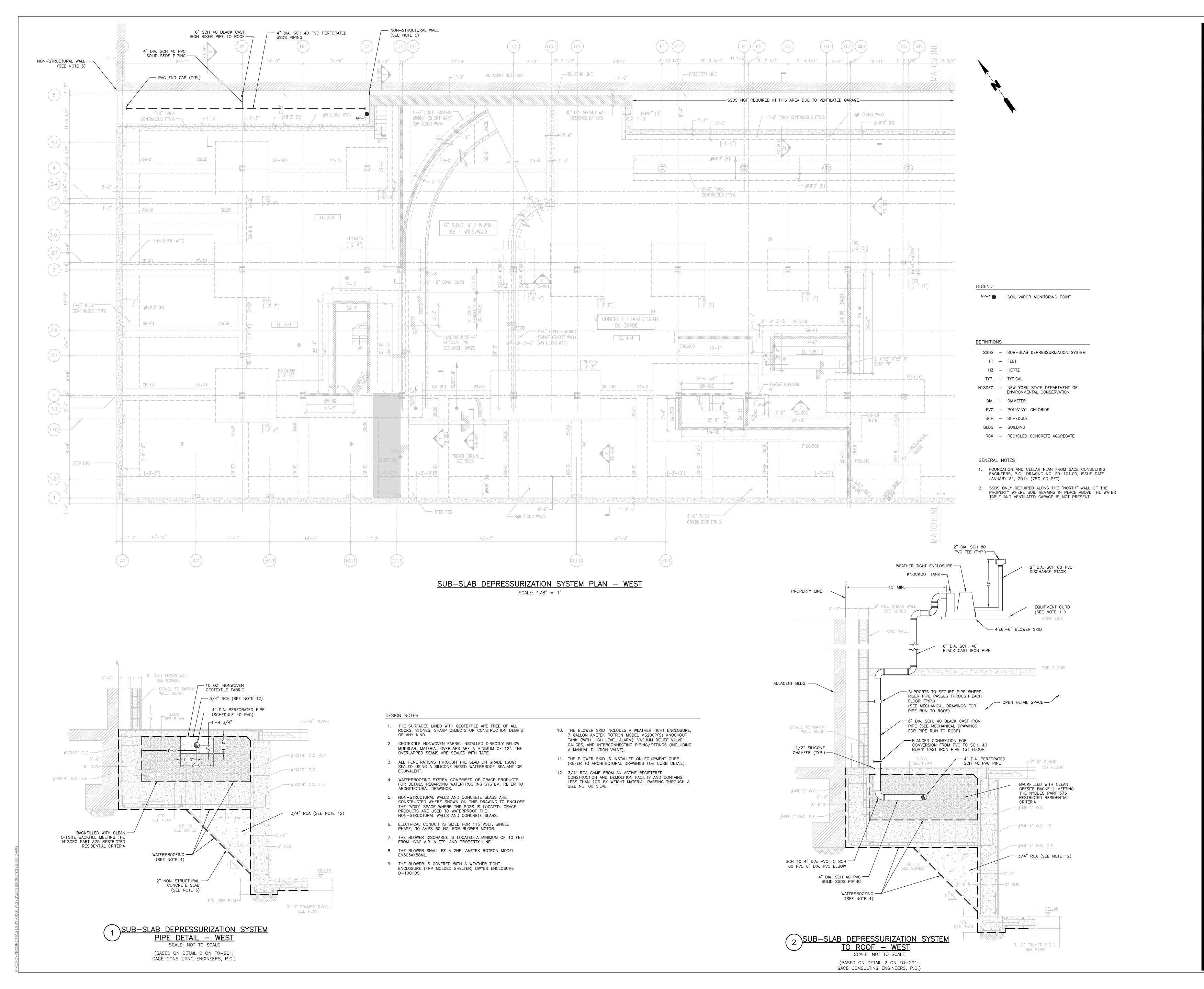
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Completed By:	ALFREDO F.	LEO P.	

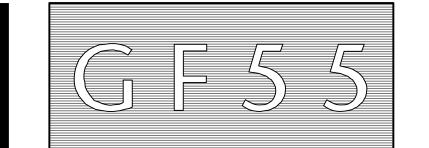
	Status			
		Action		
Description	Ok	Req.	N/A	Actions Taken / Comments
Site Cover System	. /			
1 Inspect site cover system for cracks and leaks.	V			
Sub-Slab Depressurization System Blower No. 1				
A. Aboveground Piping on Roof	1			
1 Inspect aboveground piping for cracks, leaks and support issues.	V			
2 Inspect vacuum/pressure gauges and flowmeters for proper operation.	V			•
B. Electrical				1 CONTROL OF THE CONT
1 Check that the electrical control panel is closed/secured.	V			
C. Blower Enclosure				
1 Inspect condition of exhaust fan, thermostat and louver.	V			
D. Gallon Knock-out Tank	./			
1 Check condition of vacuum filter.	V,			
Check dilution valve for noises or leaks.	V			
4 Check for presence of water in knockout tank.	V			
E. Vapor Phase Carbon Units (If Installed)			410	
1 Inspect and check pressure gauges.			NA	
2 Check for any leaks on piping, fittings, etc.			NA	
Sub-Slab Depressurization System Blower No. 2	T .			
A. Aboveground Piping on Roof	1			
1 Inspect aboveground piping for cracks, leaks and support issues.	\ ,			
2 Inspect vacuum/pressure gauges and flowmeters for proper operation.	/			
B. Electrical	1./			
 Check that the electrical control panel is closed/secured. 	V,			
C. Blower Enclosure	1./			
1 Inspect condition of exhaust fan, thermostat and louver.	V			
D. Gallon Knock-out Tank	-			
Check condition of vacuum filter.	V.			
Check dilution valve for noises or leaks.	/			
4 Check for presence of water in knockout tank.	/			DEAINED 1/2 GAL
E. Vapor Phase Carbon Units (If Installed)			Α. Α	
1 Inspect and check pressure gauges.	1 2 2 2		NA	
2 Check for any leaks on piping, fittings, etc.			NA	
Institutional Controls	7			
1 Confirm that the site usage is in compliance with the institutional	V			
controls.				
Site Records				
1 Inspect site records and confirm that they are up to date (e.g., Site	/			
Inspection Checklists and Sub-Slab Depressurization System Operations	V			
Logs, sampling logs, etc.)				

PLATES

- 1. V001.00. SSDS-1 As-Built
- 2. V001.00. SSDS-2 As-Built

2158.0001Y005.239/CVRS ROUX





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evelopment 1249

Brooki 2333 LOT: 1

DEVELOPER

Kent & Wythe Owners LLC

STRUCTURAL ENGINEER

GACE Consulting Engineers P.C.

MECHANICAL ENGINEER

Rodkin Cardinale Consulting Engineers P.C.

OWNER

NYSDEC SUBMITTAL - JULY 2014

Kent & Wythe Owners LLC

SCALE

AS NOTED

PROJECT

149 Kent Ave Development Brooklyn, NY 11249

DRAWING

SUB-SLAB DEPRESSURIZATION SYSTEM WEST AS-BUILT



DATE: 13FEB17

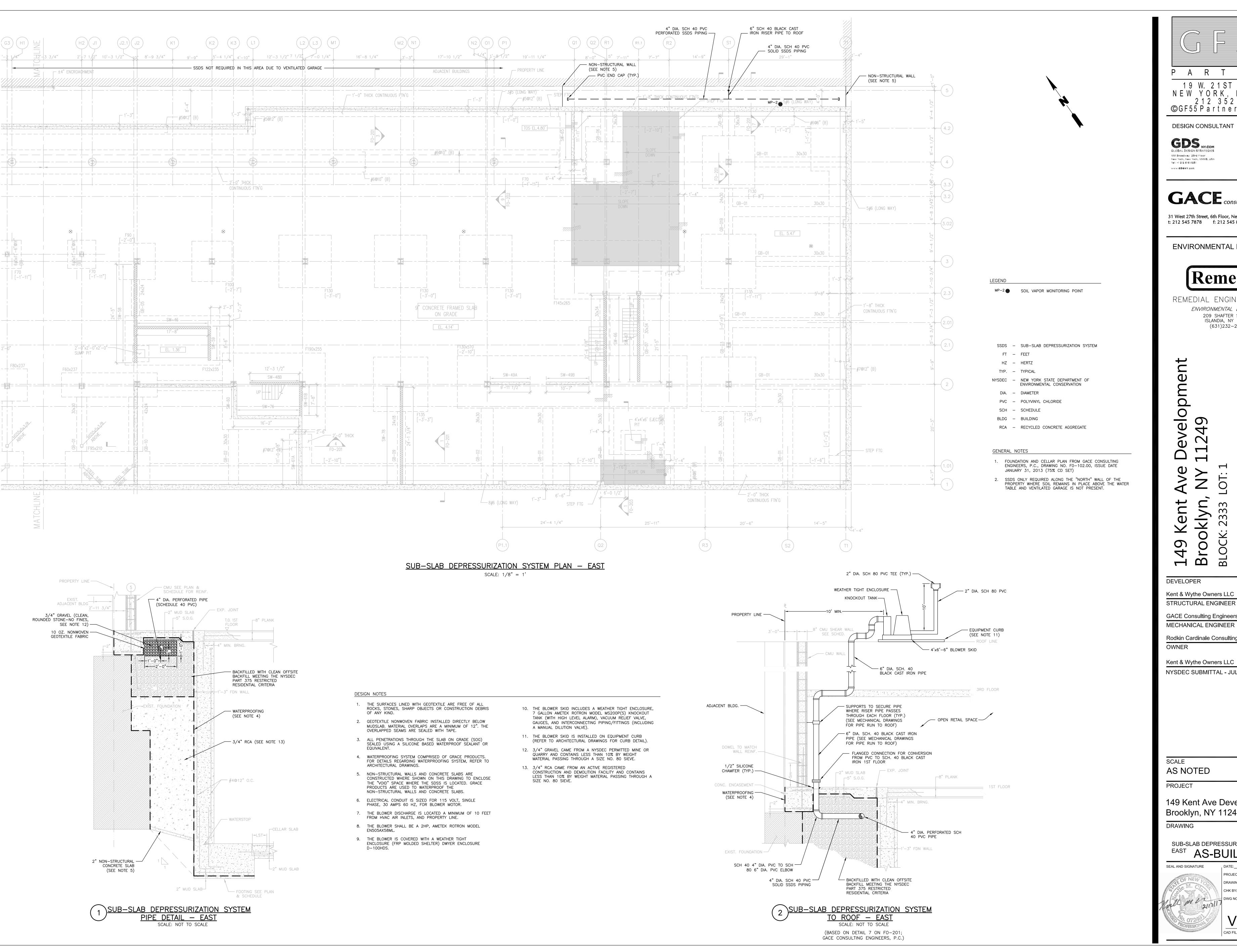
PROJECT NO: 2158.0001Y000

DRAWING BY: B.H.C.

CHK BY: L.C.

DWG NO:

V-001.00



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GACE Consulting Engineers P.C.

MECHANICAL ENGINEER

Rodkin Cardinale Consulting Engineers P.C.

Kent & Wythe Owners LLC NYSDEC SUBMITTAL - JULY 2014

PROJECT

149 Kent Ave Development Brooklyn, NY 11249

SUB-SLAB DEPRESSURIZATION SYSTEM EAST AS-BUILT



DATE: 13FEB17 PROJECT NO: 2158.0001Y000 DRAWING BY: <u>B.H.C.</u> | CHK BY: __L.C._ DWG NO: