

# **Environmental, Planning, and Engineering Consultants**

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January 12, 2022

Mr. Michael H. Squire New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau C 625 Broadway, 11<sup>th</sup> Floor Albany, New York 12233-7014

Re: Brownfield Cleanup Program Periodic Review Report

November 2, 2020 to November 2, 2021

300-308 Columbus Avenue, Tuckahoe, New York

NYSDEC Site Number: C360136

# Dear Mr. Squire:

This Periodic Review Report (PRR) was prepared for the site located at 300 and 308 Columbus Avenue in Tuckahoe, 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 location is shown on Figure 1. The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index No. C360136-02-14, executed on March 13, 2014. The Site is identified as NYSDEC Site No. C360136.

In September 2021, ownership of the Site, and associated the BCP annual inspection and reporting requirements, was transferred from Crestwood Builders Group, LLC (Crestwood) to XGEN Properties, LLC (XGEN). With approval from the NYSDEC, the annual inspection activities described herein were completed on behalf of XGEN following the property transfer. The Site has been occupied throughout the entirety of this reporting period. Prior to the onset of investigation and remediation activities, the Site was used for commuter parking and as an auto repair facility. Historically, since the 1950s, 300 and 308 Columbus Avenue were developed as gasoline stations with underground storage tanks (USTs) operating until approximately 2004. Each lot contained a single-story building utilized for auto repair-related services. The Site was vacant prior to its use as gasoline filling stations.

Remedial investigations (RIs) performed from May 2012 to November 2013 identified separate phase petroleum product in soil samples collected from 3 to 6 feet below grade at the southern service bay at 308 Columbus Avenue. This discovery necessitated spill reporting to the NYSDEC Spills Division on May 30, 2012, who assigned Spill #1202031 to the Site. The 2012 RI also revealed solvent-related volatile organic compounds (VOCs) in soil from 1 to 6 feet below grade beneath the northern service bay at 300 Columbus Avenue. Regulatory records reviewed during the initial Site assessment identified a 250-gallon fuel oil UST, a sub-grade hydraulic lift at the southern service bay at 300 Columbus Avenue, and the potential for three 1,000-gallon USTs and one 550-gallon waste oil UST at 308 Columbus Avenue. The three 1,000-gallon USTs were not identified during remedial actions conducted between May and October 2014; however, two sub-grade hydraulic lift systems, an oil-water separator, and a 550-gallon waste oil UST were identified beneath the southern service bay at 300 Columbus Avenue, and an

additional oil-water separator, two sub-grade hydraulic lift systems, and a 1,000-gallon UST were identified at 300 Columbus Avenue.

Remediation activities completed at the Site included removal of the remaining USTs, hydraulic lifts, oil-water separators and contaminated soil and fill. Engineering controls included installation of a composite cover system and a passive sub-slab depressurization system (SSDS). Institutional controls included an environmental easement restricting use of the property to restricted residential, commercial, and industrial uses, groundwater restrictions, and the implementation of a Site Management Plan (SMP). Following completion of the remediation activities and construction of the new Site building, confirmatory indoor air sampling was conducted to document the efficacy of the engineering controls (composite cover system and passive SSDS). In August 2015, two indoor air samples (plus a duplicate sample) were collected from the first floor of the Site building and one ambient air sample was collected in the Site parking lot for comparative purposes. The air samples were collected utilizing certified clean 6-liter Summa® canisters over an approximately 8-hour sampling period. The indoor air sample results were compared to the New York State Department of Health (NYSDOH) Air Guideline Values (AGVs) and to background levels of VOCs in indoor air presented in Appendix C of the NYSDOH Vapor Intrusion Guidance Document. No VOCs were detected at concentrations above NYSDOH AGVs and/or published background levels.

A Final Engineering Report (FER) detailing Site remedial activities was submitted to, and approved by, NYSDEC, which resulted in the issuance of a Certificate of Completion (COC) on December 14, 2015. Ongoing Site management activities are being performed in accordance with the NYSDEC- and New York State Department of Health (NYSDOH)-approved September 2015 SMP. The SMP provides detailed descriptions of all procedures required to manage known and potential residual contamination. Activities conducted at the Site under the SMP during this reporting period included an inspection to determine the integrity of the Site cover system and the proper operation of the passive SSDS.

The purpose of this PRR is to document the site management activities associated with the Site's Engineering and Institutional Controls and to certify that the controls have been implemented in accordance with the SMP. As noted in the November 2020 PRR, the 2021 Site inspection was originally planned for early 2021; however, through coordination with NYSDEC, the Site inspection was performed by the new property owner (XGEN) after acquiring the property in September 2021. Therefore, the reporting period on the IC/EC Certification Form is the one-year period between November 2, 2020 and November 2, 2021. It is anticipated that the next Site inspection will be conducted in early 2022, and the associated reporting period will be fall 2021 to spring 2022. All subsequent Site inspections will be conducted annually every spring with the goal to return the Site to the original annual inspection/reporting schedule by 2023 (spring 2022 to spring 2023).

## Site Management Requirements

For additional details related to the nature and extent of contamination and the Site remediation, please refer to the appropriate sections of the FER and SMP. The Site management requirements for evaluating the performance and effectiveness of the remedy at the Site, the Site cover system, and all affected Site media are summarized in Table T1 (referenced from the September 2015 SMP) with an indication of the tasks completed during this reporting period.

Table T1
Monitoring/Inspection Requirement Summary

Monitoring Program	Frequency*	Matrix	Analysis	Completed this Period?
Site Cover System	Annually. First Inspection no more than 18 months after COC, then at least annually thereafter.	Cover System Integrity	Visual Inspection of Conditions	Yes
SSDS Routine Operations Inspections	Annually. First Inspection no more than 18 months after COC, then at least annually thereafter.	SSDS System Operations	Visual Inspection	Yes
Contingency Indoor Air Sampling	If necessary, based on the Site inspection program or a request to decommission or terminate components of the SSDS with the approval of NYSDEC.	Indoor Air at 3 Sampling Locations	EPA Method TO-15	No

Notes: \* The frequency of events was conducted as specified in the SMP.

COC – Certificate of Completion

# Cover System and SSDS Monitoring Requirements

Direct exposure to residual contaminated soil remaining at the Site is being prevented by an engineered Site cover system made up of the constructed concrete floor slab, asphalt-paved parking lot, concrete sidewalks, and landscaped areas. The concrete floor slab for the enclosed portion of the Site also includes the underlying vapor barrier and passive SSDS. The location and details of the Site cover system and passive SSDS are shown on Figures 2 and 3, respectively. The as-built drawings for the cover system and SSDS are included in the SMP. Monitoring requirements specified in the SMP for the cover system and SSDS are described below:

Inspection 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, including an evaluation of the integrity of the concrete floor slab of the first floor and support columns into the floor and wall joints. If any cracks or openings are identified, they shall be screened for organic vapors with a photoionization detector (PID) and any readings shall be noted. In addition, any cracks or openings in the floor shall be properly sealed.

Inspection of the passive SSDS will occur on an annual basis and be conducted concurrently with the cover system inspection, which will consist of visual inspection of the aboveground SSDS piping for integrity and/or damage that would prohibit proper functioning of the SSDS. The inspection will also include the entire length of accessible piping from the manifold floor slab up through the roof exhaust. The wind-driven turbine will be inspected to confirm proper function.

## Cover System and SSDS Monitoring

On October 25, 2021, AKRF completed a Site inspection in accordance with the SMP to confirm building conditions, Site cover integrity, and operation of the passive SSDS. The Site cover system was found to be intact, with no signs of significant cracking, damage, or erosion that would affect the integrity of the Site cap. The SSDS system was observed to be intact with no visible signs of damage or broken seals, and the wind-driven turbine for the passive SSDS stack on the roof was properly operating as described in the SMP. While no visual evidence of damage to the Site cap or SSDS was noted, a PID was used to field-screen background conditions in indoor areas, around pipe penetrations, and around accessible SSDS components (piping, values, and the exhaust stack) to confirm the visual observations. The PID was calibrated with 100 parts per million (ppm) isobutylene calibration gas and fresh air in accordance with manufacturer's specifications. No PID readings above background levels were noted during the inspection.

# Additional Monitoring

While not required under the SMP, the NYSDOH requested that differential pressure measurements be collect from the two SSDS monitoring points in the concrete floor slab as an added component of the 2021 Site inspection. As noted in the Site-wide inspection form provided as Appendix A, the monitoring points were found to have been covered with laminate flooring (installed during remodeling efforts to support tenant buildout) and were inaccessible; therefore, vacuum readings were not collected.

#### Corrective Measures

No corrective measures were required as a result of the inspection.

# Site Management Schedule

The Site management requirements planned for future evaluation of the performance and effectiveness of the remedy at the Site are outlined in Table T2. These monitoring and inspection events will be completed in accordance with the SMP.

Table T2
Future Monitoring/Inspection Plan

Monitoring Program	Next Scheduled Event	Frequency*	Matrix	Analysis
Site Cover System	Early 2022	Annually	Cover System Integrity	Visual Inspection of Conditions
SSDS Routine Operations Inspections	Early 2022	Annually	SSDS System Operations	Visual Inspection
Contingency Indoor Air Sampling TBD		If necessary per SMP	Indoor Air at 3 Sampling Locations	EPA Method TO-15

Notes: \* The frequency of events will be conducted as specified in the SMP.

# IC/EC Certification

A Site-wide inspection was conducted on October 25, 2021, as specified in the SMP, to ensure that all aspects of the remedy were in-place and effective. A copy of the Site-wide inspection form is provided as Attachment A. Based on the Site-wide inspection and the data evaluation summarized in this report, the following certification is made for the Site, as documented in the IC/EC Certification form provided in Attachment B:

- The institutional controls and engineering controls employed at this Site are unchanged from the date the controls were put in place, or last approved by the NYSDEC Division of Environmental Remediation (DER);
- Nothing has occurred that would impair the ability of such controls to protect public health and the environment;
- Nothing has occurred that would constitute a violation or failure to comply with the SMP for these controls; and
- Access to the Site will continue to be provided to the NYSDEC DER to evaluate the remedy, including access to evaluate the continued maintenance of this control.

If you have any questions or require additional information, please contact me at 914-922-2382.

Sincerely, AKRF, Inc.

Bryan Zieroff, CPG, LEP Senior Technical Director

Rebecca A. Kinal, P.E. Vice President

cc: Giovanni Gentile – XGEN Properties, LLC M. Godick, T. McClintock - AKRF, Inc.

Figure 1 – Site Location Map

Figure 2 – Site Cover System Plan

Figure 3 – SSDS Location Plan

Attachment A: Cover System and SSDS Inspection Form

Attachment B: P.E. IC/EC Certification

# ATTACHMENT A COVER SYSTEM AND SSDS INSPECTION FORM

# **Cover System and SSDS Inspection Form**

1) General Site conditions at time of in	spection;
2) Site Cover System Inspection;	
3) Passive SSDS Inspection;	
4) Last SMP-related Site Activity cond	ucted, upcoming SMP-related tasks;
5) Institutional Control (IC) Checklist (conducted);	(SMP, EWP maintained on-Site, routine SMP tasks being
6) Evaluation of Engineering Controls	(in office); and
7) Site Documentation.	
1) General Site conditions at time of i	•
NAME: TIM MCCINTOCK	DATE: 10/25/2021
TIME: 13:00	WEATHER: ~ 70° F Overcast
Annual Inspection or Emergency Inspec	
ANNUAL INSPECTION (	(2021)
Notes: Wind: South @ 5	5 mph
2) Cover System Inspection (Building Concrete Sidewalks, and Landscaped	g Foundation, Concrete Parking Areas, Asphalt Parking Lot l Areas)
Is the cover system intact:	
▼ YES	
If no, describe:	
Are all access manhole and vapor monit	toring point caps in good condition:
X YES NO	@ NOTE: MONITORING points were meacessi
If no, describe:	@ NOTE: Monitoring points were mercessily but are maintained below lamin

AKRF, Inc.	300 and 308 Columbus Av Tuckahoe, Westchester County, New	
Are the first floor p the concrete floor s	netrations (utility piping, SSDS, support columns, and wall joints) properly sealeb:	ed to
X YES	NO	
If no, describe:		
Have any disturb	nces to the Site cover system occurred over the last reporting per	-iod'
Notes/Details:		
		_
	Manifold, Riser Pipes, Roof Stack, Wind Turbine) le damage or evidence of tampering to the piping:  NO	
Are there any linus	odors or PID readings on the first floor and in the manifold room:	==
YES	NO	
If yes, describe:		
		_
Are the valves open	nd in set in their proper position:	
X YES	NO	
If no, describe:		

AKRF, Inc.		Tuckahoe,	300 and 308 Co Westchester Co		
Is the wind driven turbine operating pr	roperly:				
✓ YES  NO					
Notes/Details:					
4) Last SMP-related Site Activity co	nducted; and nex	t SMP-related tas	k Scheduled?		
Notes/Details:					
ANNUAL Enspection con	ducted in N	ovember 20	20		
ANNUAL Inspection con	beduled For	2022			
5) IC Checklist (SMP, EWP maintai	ned on-Site, rout	ine SMP tasks bei	ng conducted)		
Copy of SMP on-Site?	X YES	□NO			
Copy of EWP on-Site?	X YES	No			
Building Use Still Consistent with SMP (Restricted Residential)?	X YES	MO			
Have the Required SMP tasks	been conduc	ted?			
Annual cover system monitoring		X YES	No		
Annual SSDS operations monitoring		▼ YES	□NO		
Indoor air sampling (if required)		YES	NO	NIA	

Notes:\_\_\_\_

Any Additional Observations/Notes:
Current building occupants include: Metro Dentel (Dentist, ground Flour),
Lota New York (Chathing Store, ground Floor), Nouls by Deca (Noul Solar, around Floor)
and residential units (upper fours). Nous by Dean opened in a formerto
and residential units (upper fours). North by Dean opened in a former to viscout store front approx 3 monts before the inspection (summer 2021)
7) Site documentation
Including updates regarding notification to NYSDEC regarding any changes to Site conditions/operations, plans for excavation, or need to conduct indoor air sampling).
Notes: No changes in status, no planned execution work, no planned removefrons - undear our sampling not warranted at this time.

# ATTACHMENT B P.E. IC/EC CERTIFICATION



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



Sit	e No.	C360136	Site Details		Box 1	
Sit	e Name 30	0 - 308 Columbus Avenue	•			
Cit <sub>y</sub>	e Address: 3 y/Town: Tu unty: Westch e Acreage:	nester	Zip Code: 10707			
Re	porting Perio	od: November 23, 2020 to	November 23, 2021			
					YES	NO
1.	Is the infor	mation above correct?			X	
	If NO, inclu	de handwritten above or or	n a separate sheet.			
2.			een sold, subdivided, merged, or un rting Period? Property transferred in September 2 notified and updated, as indicated in listing of the current owner.	2021, NYSDEC	X	
3.		peen any change of use at RR 375-1.11(d))?	the site during this Reporting Perio	d		X
4.	•	ederal, state, and/or local pe property during this Repo	permits (e.g., building, discharge) berting Period?	een issued		X
	-	-	thru 4, include documentation coursly submitted with this certific			
5.	Is the site of	currently undergoing develo	opment?			X
					Box 2	
					YES	NO
6.		ent site use consistent with Residential, Commercial, a			X	
7.	Are all ICs	in place and functioning as	designed?	X		
	IF TI		UESTION 6 OR 7 IS NO, sign and o		and	
AC	Corrective M	easures Work Plan must b	e submitted along with this form to	o address t	hese iss	ues.
Sig	unature of Ow	ner, Remedial Party or Desi	gnated Representative	Date		

		Box 2A	
		YES	NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		X
	If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	
	If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

**SITE NO. C360136** Box 3

# **Description of Institutional Controls**

Parcel Owner Institutional Control

42-8-10 XGEN Properties LLC

Ground Water Use Restriction

Monitoring Plan Site Management Plan

IC/EC Plan

Soil Management Plan Landuse Restriction

Imposition of an institutional control in the form of an environmental easement for the controlled property

•requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

•allows the use and development of the controlled property for restricted residential, commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

•restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and

•requires compliance with the Department approved Site Management Plan.

XGEN Properties LLC 42-8-5

> Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan

IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property

- •requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3):
- •allows the use and development of the controlled property for restricted residential, commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- •restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
- •requires compliance with the Department approved Site Management Plan.

Box 4

**Description of Engineering Controls** 

Parcel **42-8-10** 

42-8-5

**Engineering Control** 

Vapor Mitigation Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either 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. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

Vapor Mitigation Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either 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. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

Any future on-site buildings will be required to have a passive sub-slab depressurization system, or a similar engineered system, to prevent the migration of vapors into the building from soil and/or groundwater.

Box	5
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	Pariadia Paviaw Papart (PPR) Cartification Statements	
	Periodic Review Report (PRR) Certification Statements	
1.	I certify by checking "YES" below that:	
	<ul> <li>a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;</li> </ul>	
	<ul> <li>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.</li> </ul>	n
	YES NO	
	<b>X</b>	
2.	For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:	
	(a) The 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 an the environment;	d
	(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	
	$\mathbf{X}$	
	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. C360136

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.

Giovanni Ger	at 232 n. Fulton Ave, Mt.	Vernon, NY 10552	
print	name print business ad	print business address	
am certifying as	XGEN Properties LLC's Manager	(Owner or Remedial Party)	
Giovan	ed in the Site Details Section of this form.  Centille  ner, Remedial Party, or Designated Representative cation	1/6/2022 ——————————————————————————————————	

# **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.

Rebecca Kinal at	440 Park Avenue South, New York, NY 10016
print name	print business address
am certifying as a Professional Engineer for	
Signature of Professional Engineer, for the Remedial Party, Rendering Certification	Owner or Stamp S 10 N Date (Required for PE)

# **ATTACHMENT B**

### P.E. CERTIFICATION

I, Rebecca Kinal, am currently a registered professional engineer licensed by the State of New York. I had primary direct responsibility for implementation of the December 2015 Site Management Plan protocols, and I certify that the documentation of site management activities is accurately presented in this Periodic Review Report for the 300 and 308 Columbus Avenue Site located at 300 and 308 Columbus Avenue in Tuckahoe, New York (BCP Site No. C360136).

For each institutional or engineering control 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 institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and engineering controls employed at this Site are unchanged from the date the controls were put in place, or last approved by the NYSDEC;
- 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 NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of the engineering controls;
- If a financial assurance mechanism is required under the oversight document for the Site, the 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;
- No new information has come to my attention to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid;
- 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 that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Rebecca Kinal, of AKRF, Inc., am the certifying Owner's Designated Site Representative and have been authorized to sign this certification for the Site.

12/10/21

Signature