PERIODIC REVIEW REPORT #7

For

January 30, 2023 Through January 30, 2024

BROWNFIELD CLEANUP PROGRAM

River Park Commons – Townhouses Site (Currently referred to as the Erie Harbor Site) 205 – 405 Mt. Hope Avenue Rochester, New York, 14620 NYSDEC Site #C828125

I. Introduction

A. Executive Summary

- Between the mid-1970s and 2009, the Site was developed with five apartment buildings. Prior to the mid-1970s, the Site was historically used as a warehouse, feeder canal for the Erie Canal, rail yards, a workshop, auto repair, car sales, a wagon shop, iron cutting, a brick storage yard, a tannery, and a coal yard. In 2009, the apartment buildings were demolished. Subsequently, the Site was redeveloped with nine new restricted residential buildings (one apartment building, seven townhouse buildings, and one community building).
- Types of contamination at the Site that were identified to require remediation included:
 - o Polychlorinated biphenyls (PCB) at some transformer locations;
 - o Polyaromatic hydrocarbon (PAH) semi-volatile organic compounds (SVOCs) in topsoil across the Site;
 - o PAH SVOCs in an area of subsurface fill material on the central portion of the Site;
 - Petroleum-related volatile organic compounds (VOCs) and SVOCs in subsurface soil and groundwater on the southeastern portion of the Site; and
 - o VOCs trichloroethene (TCE) and dichlorodifluoromethane in groundwater and soil gas on the central portion of the Site.
- Remedial actions were performed at the Site in accordance with a New York State Department of Environmental Conservation (NYSDEC)-approved Interim Remedial Measure Work Plan (IRM Work Plan) and a NYSDEC-approved Remedial Work Plan (RWP). Remedial actions taken included:
 - o Removal of PCB transformers and PCB-contaminated building materials and soil.
 - o Removal of contaminated topsoil across the Site;
 - o Removal of areas of contaminated subsurface soil and fill;
 - O Supplemental in-situ remediation of a subsurface petroleum-contaminated area;

- o Off-site disposal of excess soil and urban fill;
- o Execution and recording of an Environmental Easement;
- o Development and implementation of a Site Management Plan (SMP); and
- O Design, installation, operation and monitoring of engineering controls (sub-slab depressurization systems or SSDS) on Buildings #3 and #4.

B. Effectiveness of the Remedial Program

- 1. Progress made during the reporting period toward meeting the remedial objectives for the Site included: continued operation and monitoring of the SSDS located in Buildings #3 and #4.
- 2. The work completed to date shows that the remedial program has the ability to achieve the remedial objectives for the Site.

C. Compliance

- 1. There are no areas of non-compliance with the SMP as modified with NYSDEC approval.
- 2. As such, no steps were needed to correct areas of non-compliance.

D. Recommendations

- 1. The following changes to the SMP are recommended:
 - a. Discontinue groundwater monitoring.
 - b. Decommission the five remaining monitoring wells (MW-5, DAYMW-05A, DAYMW-08, DAYMW-09A and DAYMW-10) in accordance with NYSDEC Commissioner's Policy CP-43.

Changes to the SMP will not be implemented unless directed in writing to do so by the NYSDEC.

- 2. It is recommended that the frequency for submittal of Periodic Review Reports (PRR) be decreased to every two years However, the PRR reporting will continue on an annual basis unless otherwise directed in writing by the NYSDEC.
- 3. Since residual contamination remains on the Site, it is recommended that site management requirements be continued.

Note: The recommended changes to the SMP and frequency for submittal of PRRs that are provided above were also recommended in the previous Periodic Review Report that was submitted on February 15, 2023. In an email dated November 21, 2023, the NYSDEC Project Manager indicated that regulatory review of these recommended changes would be completed after January 1, 2024. In an email dated November 26, 2023, the NYSDEC Project Manager agreed that it was acceptable that groundwater monitoring was not included during the reporting period for this PRR.

II. Site Overview

A. The site is an approximately 6.016-acre area bounded by a residential apartment building to the north, City of Rochester parkland to the south, Mt. Hope Avenue

with mixed residential and commercial properties beyond to the east, and City of Rochester parkland with the Genesee River beyond to the west (see Figure 1). The Site has been redeveloped with an apartment building, seven townhouse buildings, a community center, and other associated site improvements (e.g., sidewalks, parking lots, landscaping, etc.).

Prior to remediation, contamination at the Site consisted of the following:

- Four PCB-transformer areas, including PCB-impacted building materials and soil beneath some of the transformers.
- An approximate 0.5-foot-thick layer of PAH SVOC-impacted surface soil (i.e., topsoil) on green areas totaling over approximately 81,000 square feet across the Site.
- Subsurface petroleum-contaminated soil over an approximate 3,100 square foot area located on the southeast portion of the Site. An abandoned underground storage tank was also present in this area.
- Subsurface fill material containing PAH SVOCs over an approximate 1,900 square foot area located on the central portion of the Site.
- Soil vapor and groundwater containing chlorinated VOCs over an approximate 44,000 square foot area on the central portion of the Site.

B. Chronology

The site was remediated in accordance with the NYSDEC approved IRM Work Plan dated January 27, 2009, the NYSDEC-approved RWP dated March 2009, and an Addendum to the March 2009 RWP dated July 30, 2009. A chronology of the Remedial Actions performed at the Site is summarized below:

- Between May 2009 and March 2010, the PCB transformers, their contents, and PCB-contaminated building material and soil were removed and disposed off-site.
- Between May 2009 and March 2010, surface soil (topsoil) was removed and disposed off-site.
- In March 2010, the area of subsurface fill impacted with PAH SVOCs on the central portion of the Site was removed and disposed off-site.
- In March 2010, the area of subsurface petroleum-impacted soil and the abandoned underground storage tank on the southeast portion of the Site were removed and disposed off-site. In addition, chemical oxidation and bioremediation products were placed in the excavation prior to backfilling.
- In May 2010, in-situ chemical oxidation and bioremediation products were injected at select vertical borings located in proximity to, and outside the limits of, the former subsurface petroleum-impacted soil excavation located on the southeast portion of the Site.
- In August 2010, a SMP was finalized and approved by the NYSDEC for long term management of remaining contamination, which includes plans for: (1) institutional and engineering controls, (2) site monitoring, (3) operation and maintenance and (4) reporting. [Note: In February 2018, a revised version of the SMP was submitted to the NYSDEC to incorporate the installation of

SSDS at Buildings #3 and #4; modifications to the monitoring well field and groundwater monitoring program, and a laboratory name change].

- In September 2010, an Environmental Easement was executed and recorded to restrict land use and prevent future exposure to contamination remaining at the Site.
- Between February 2011 and April 2012, SSDS engineering controls for Buildings #3 and #4 on the central portion of the Site were designed, installed, started up, put into continuous operation, and underwent initial monitoring. The SSDS engineering controls continue to operate.

Cleanup goals for groundwater are NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Groundwater Standards and Guidance Values.

Cleanup or on-site re-use goals for soil are NYSDEC Part 375 Track 2 Restricted Residential Use Soil Cleanup Objectives (SCOs) and Protection of Groundwater SCOs.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

A. Effectiveness of Remedies

As documented in the Final Engineering Report (FER) dated September 2010, soil and fill removals and the chemical oxidation and bioremediation were effective at remediating soil and fill to levels that meet applicable SCOs, and significantly reducing VOC concentrations in groundwater.

The results of the most recent (i.e., October 2022) groundwater monitoring event showed VOC concentrations in groundwater remain low with respect to preremediation concentrations. Documentation concerning the above-referenced groundwater monitoring event was included in the previous PRR that was submitted on February 15, 2023.

The October 2022 groundwater monitoring event, VOC concentrations had decreased with respect to pre-remediation concentrations. concentrations continue to be highest (i.e., total VOCs and TICs = 22.13 ug/l) on the southeast portion of the Site (i.e., area of former well DAYMW-09/existing well DAYMW-09A). This area was historically part of a gasoline/service station where remedial actions included the removal of subsurface petroleum-impacted soil and an abandoned underground storage tank followed by placement of chemical oxidation and bioremediation products into the soil removal excavation prior to backfilling. The groundwater data also showed that detectable concentrations Trichloroethene (TCE) remain on the central portion of the Site (e.g., existing wells DAYMW-05A and DAYMW-10). The TCE in the groundwater samples on this portion of the Site may be attributable to an off-site source.

It is anticipated that the contaminant concentrations in groundwater at the Site will continue to decrease as a result of natural attenuation.

SSDS engineering controls were installed on Buildings #3 and #4. SSDS monitoring and inspection was completed in November 28, 2023, and is documented on a Site-Wide Inspection Form included in Attachment A. As

shown, the monitoring demonstrates that the SSDS on Buildings #3 and #4 continue to create negative SSDS pressure relative to the interior air pressure of the two buildings.

Based on the performance monitoring to date, the remedy is shown to be effective at achieving the remedial goals for this Track 4 Site.

IV. IC/EC Compliance Report

- A. IC/EC Requirements/Compliance
 - 1. A description of each control, its objective, and how performance of the control is evaluated is provided below:
 - Site Management Plan: The objective of the SMP is to manage remaining contamination above regulatory criteria in a manner that is protective of human health and the environment. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, a Site Monitoring Plan, and an Operation and Maintenance Plan. The performance of the controls is evaluated through monitoring and periodic certification. Controls on the Site include:
 - Management of soil and historic fill material during future activities that would penetrate, encounter, or disturb remaining contamination needs to be conducted in accordance with provisions of the SMP, including the Excavation Work Plan (EWP);
 - A requirement for evaluating the need to address the potential for soil vapor intrusion on new structures, and designing and implementing engineering controls for those structures to address soil vapor intrusion, if deemed warranted;
 - o Requirements for operation, maintenance, and monitoring of the engineering controls (e.g., SSDS on Buildings #3 and #4);
 - Requirements for inspections and notifications for various reasons associated with Site conditions, change in use, change in ownership, etc.
 - o Requirements for Monitored Natural Attenuation groundwater sampling and analysis.
 - Environmental Easement: Restricts use of property; restricts use of groundwater; requires implementation of the SMP; prohibits vegetable gardens and farming; requires evaluation of soil vapor intrusion on new buildings, and mitigation, if needed on a portion of the Site; requires operating, maintaining and inspecting any engineering controls; requires groundwater and other environmental and public health monitoring; requires monitoring, maintaining and replacing groundwater wells as necessary as set forth in the SMP; requires reporting of SMP data and information; requires implementation of the SMP for activities that would disturb remaining contaminated media; and requires monitoring to assess the performance and effectiveness of the remedy. The performance of each control is evaluated through periodic certification.

•

2. Status

Each control is fully in place, is being adhered to, and is effective.

3. Corrective Measures

None Required.

4. Conclusions and Recommendations for Changes

The controls are effective at protecting human health and the environment from, and proper management of, residual contaminants at the Site. Recommended changes to the SMP and frequency for submittal of PRRs are provided in section I.D. of this PRR. In an email dated November 21, 2023, the NYSDEC Project Manager indicated that regulatory review of these recommended changes would be completed after January 1, 2024. In an email dated November 26, 2023, the NYSDEC Project Manager agreed that it was acceptable that groundwater monitoring was not included during the reporting period for this PRR. No other changes are recommended at this time.

B. Certification

Certification included as Attachment B.

V. Monitoring Plan Compliance Report

A. Components

- Groundwater Monitoring Plan: The SMP (revised February 27, 2018) identifies annual groundwater monitoring for the Site using the current field of five groundwater monitoring wells (i.e., MW-05, DAYMW-05A, DAYMW-08, DAYMW-09A and DAYMW-10). The groundwater monitoring frequency and scope can be modified with NYSDEC approval. This plan also covers monitoring well repairs, replacement, and decommissioning.
- Excavation Work Plan: An Excavation Work Plan (EWP) is included as part of the SMP for management of soil and historic fill material that may contain residual contamination at the Site.
- <u>Site-Wide Inspection:</u> Site-wide inspections are required at least yearly and also after severe weather conditions that may affect engineering controls or monitoring devices.

B. Summary of Monitoring Completed

- Groundwater Monitoring Plan: During the reporting period, a groundwater monitoring event was not completed. As documented in Section I.D. of this PRR, DAY requested that groundwater monitoring be discontinued and that the monitoring wells be decommissioned. In an email dated November 21, 2023, the NYSDEC Project Manager indicated that regulatory review of these recommended changes would be completed after January 1, 2024. In an email dated November 26, 2023, the NYSDEC Project Manager agreed that it was acceptable that groundwater monitoring would not be included during the reporting period for this PRR.
- Excavation Work Plan: No activities were performed during the reporting period in relation to requirements of the EWP.

• <u>Site-Wide Inspection:</u> An annual site-wide inspection was completed on November 28, 2023. A copy of the corresponding Site-Wide Inspection Form is included in Attachment A.

C. Comparison with Remedial Objectives

- Groundwater Monitoring Plan: The results of the most recent (i.e., October 2022) groundwater monitoring event showed contaminant concentrations at monitoring wells are steady state or continue to generally decrease, and just one exceedance of a NYSDEC TOGS 1.1.1 groundwater standard or guidance value (i.e., TCE at well DAYMW-10). In addition, previous remedial actions have resulted in significantly lower post-remediation concentrations on the southeast portion of the site (i.e., area represented by well DAYMW-09A).
- <u>Excavation Work Plan:</u> Not applicable since no activities were performed during the reporting period in relation to requirements of the EWP.
- <u>Site-Wide Inspection:</u> As a result of the site-wide inspection, the wells were confirmed in good condition. Also, the SSDS in Building #3 and #4 were documented as maintained and operating with adequate sub-slab negative pressures.

D. Monitoring Deficiencies

There are no monitoring deficiencies.

E. Conclusions and Recommendations for Changes

- Groundwater Monitoring Plan: The results of the most recent (i.e., October 2022) groundwater monitoring event shows contaminant concentrations at monitoring wells are steady state or continue to generally decrease. Only the VOC TCE detected at well DAYMW-10 exceeded its NYSDEC TOGS 1.1.1 groundwater standard or guidance value. This residual VOC contamination in groundwater is controlled by engineering controls and/or institutional controls. In accordance with the recommendation provided in the previous February 15, 2023 PRR, and based on the cumulative groundwater monitoring results that show asymptotic conditions, it is recommended that the groundwater monitoring be discontinued and that the wells be decommissioned. However, groundwater monitoring will continue unless otherwise instructed by the NYSDEC.
- Excavation Work Plan: No changes to the EWP are recommended.
- <u>Site-Wide Inspection:</u> The site-wide inspection was successful in documenting the condition of the existing monitoring wells, and documenting satisfactory performance of the SSDS on Buildings #3 and #4.

VI. Operation & Maintenance (O&M) Plan Compliance Report

A. <u>Components of O&M Plan:</u> Components include evaluation of the need for a soil vapor intrusion system on future buildings to be constructed on the central portion of the Site. No new buildings were proposed or constructed during the reporting period. As previously identified in this PRR, Buildings #3 and #4 are equipped with SSDS, and routine monitoring is conducted as part of the annual site-wide inspection. In addition, non-routine reporting and maintenance reports can be prepared, when deemed necessary.

- B. O&M Completed During the Reporting Period: On November 28, 2023, the inline fans on the SSDS at Building #3 and Building #4 were documented as operating, the alarm systems were tested, and associated sub-slab vacuum monitoring points were monitored.
- C. <u>Evaluation of Remedial Systems:</u> Based on O&M activities completed, the SSDS on Buildings #3 and #4 are performing as designed/expected.
- D. <u>O&M Deficiencies:</u> No deficiencies were identified in complying with the O&M plan during the PRR reporting period.
- E. <u>Conclusions and Recommendations for Improvements:</u> O&M monitoring and maintenance were completed successfully in accordance with the SMP. No problems with SSDS were identified, and no improvements requiring changes to the O&M Plan are suggested.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP
 - 1. The requirements of the following plans were met during the reporting period:
 - IC/EC requirements.
 - Monitoring Plan requirements.
 - O&M requirements.
 - 2. Identify any requirements not met: Not applicable.
 - 3. Identify any proposed plans and a schedule for coming into full compliance: Not applicable.
- B. Performance and Effectiveness of Remedy: An evaluation of the components of the SMP during this reporting period indicated that: the IC/EC controls were protective of human health and the environment; the monitoring plan sufficiently monitored the performance of the remedy; the O&M Plan is sufficiently maintaining the SSDS installed in Buildings #3 and #4; and the remedial program is achieving the remedial objectives for the Site.
- C. Future PRR submittals:
 - 1. PRRs will continue to be submitted annually unless otherwise instructed by the NYSDEC. However, it is requested that the NYSDEC decrease the frequency of PRR submittals to every two years for the following reasons:
 - Post-redevelopment monitoring of groundwater quality has shown contaminant reductions and/or asymptotic/steady-state conditions.
 - The redevelopment is complete and little or no excavation work greater than two feet in depth is anticipated.
 - 2. Since residual contaminants remain at the Site, it is recommended that related aspects of the SMP (as modified with NYSDEC approval) continue to be implemented at this Site.

Attachment A

Site-Wide Inspection Form

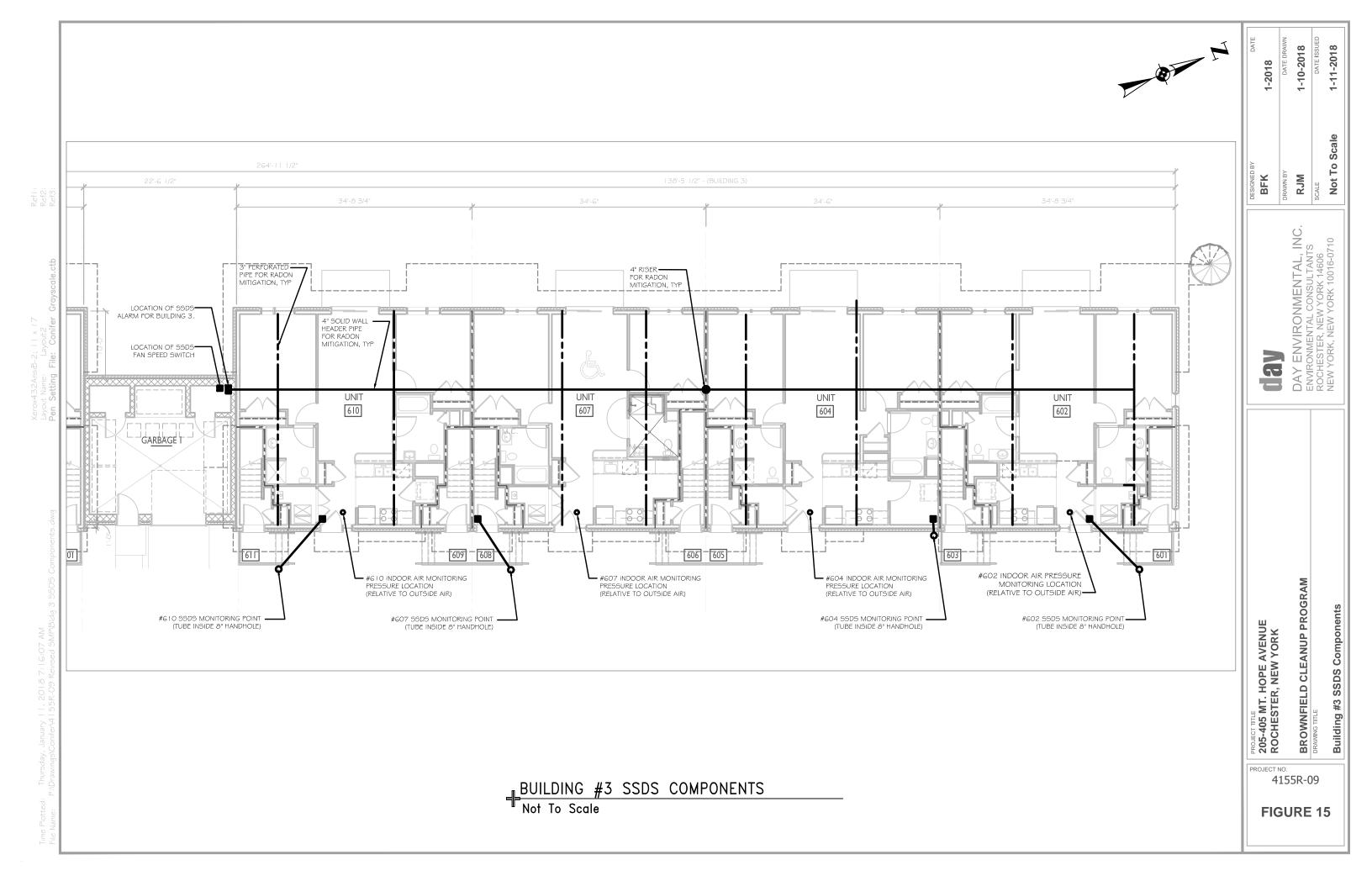
ANNUAL SITE-WIDE INSPECTION FORM

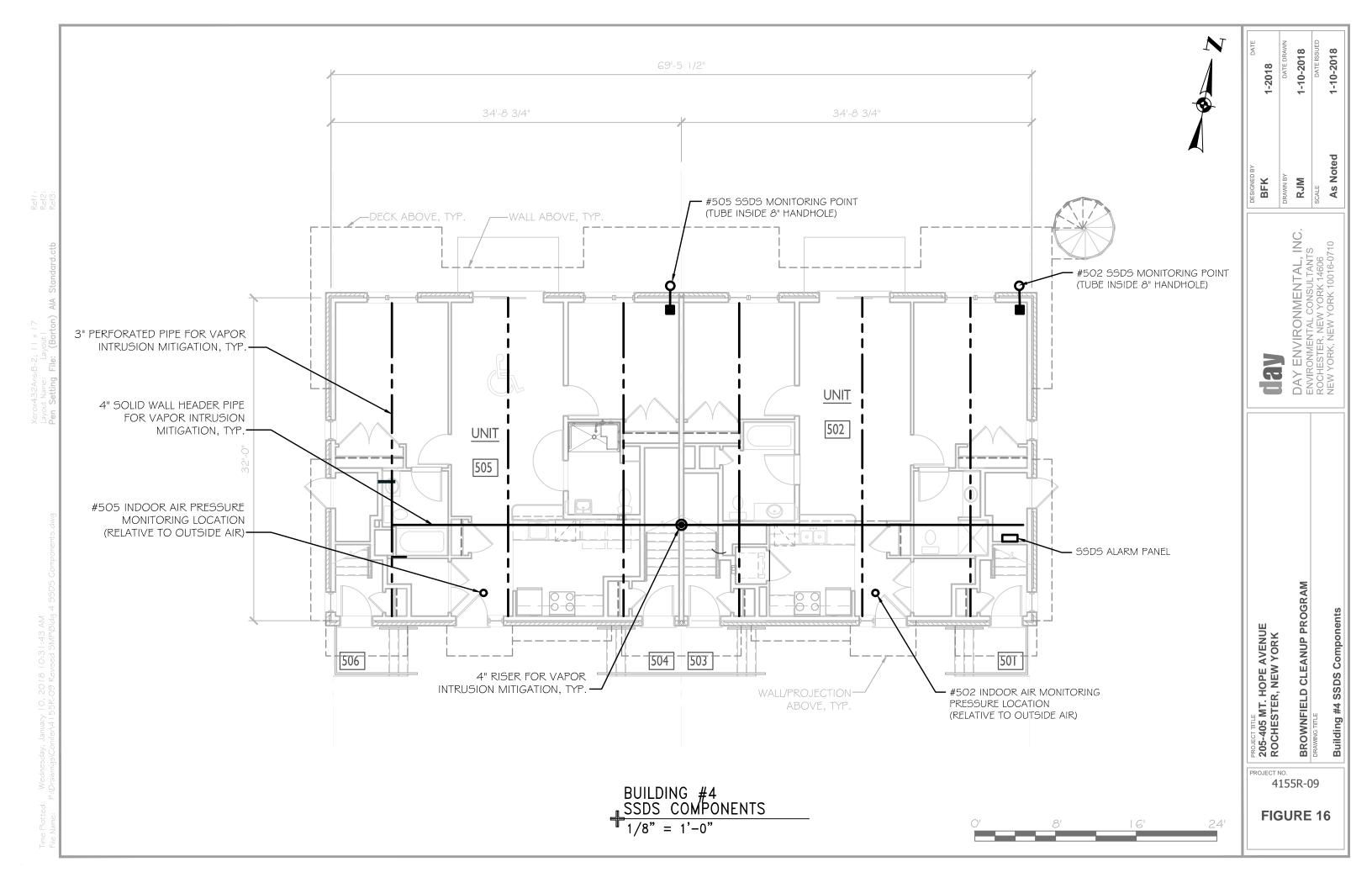
ERIE HARBOR SITE

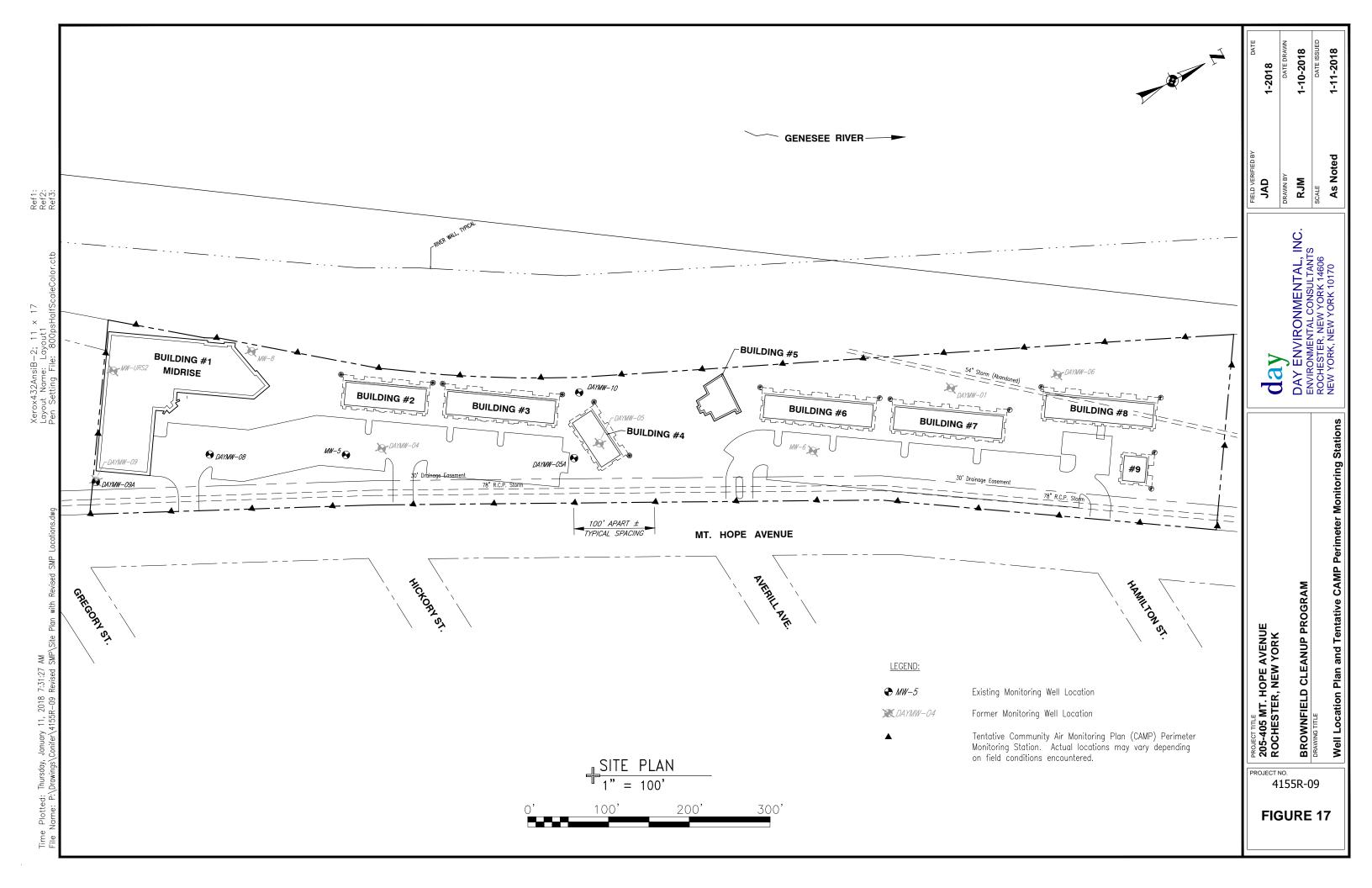
205-405 MT. HOPE AVENUE ROCHESTER, NEW YORK NYSDEC SITE NUMBER: C828125

Date of Inspection:	November 28, 2023
Inspected By:	Jeff Danzinger, Day Env., P.M.
,	(Include: name, company, and position of person(s) conducting inspection)
Observed Use of Site:	Residently - Unchanged
SSDS in Building #3:	
Integrity of Observed	Aboveground Components: good condition and fan
Results of testing alarr	n by temporary disconnection of tubing: <u>alarm 50445</u>
Vacuum reading at ten	nporary disconnected alarm tubing:
	02 SSDS Monitoring Point: -0.558" 4,0 (11-22-23)
Vacuum reading at #60	04 SSDS Monitoring Point: -0.112" H ₂ 0 (11-28-23)
Vacuum reading at #60	07 SSDS Monitoring Point: -0,539 " H ₂ 0 (1-28-23)
	10 SSDS Monitoring Point: -0.032" H20 (1)-28-23)
Discuss any corrective	actions needed or taken: <u>None peeded</u>
SSDS in Building #4:	
Integrity of Observed	Aboveground Components: good condition and fan
operating	
Results of testing alarr	n by temporary disconnection of tubing: Alarm Jounds
	nporary disconnected alarm tubing:
	02 SSDS Monitoring Point:
Vacuum reading at #50	05 SSDS Monitoring Point: -0.580 11 H20 (11-28-23)
Discuss any corrective	actions needed or taken: <u>needed</u>

Monitoring Wells:		
Evidence of damage or blockage of monitoring wells: Yes X No		
Describe damage or blockage if observed: Not applicable		
Discuss any corrective actions needed or taken: None		
Additional Comments: None		
·		
Signatures:		







Attachment B

Institutional and Engineering Controls 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.	Si C828125	te Details		Box 1	
Sit	e Name Riv	ver Park Commons - Townho	ouses			
City Co	e Address: : y/Town: Ro unty:Monro e Acreage:	chester e	Zip Code: 14620			
Re	porting Perio	od: January 30, 2023 to Janua	ary 30, 2024			
					YES	NO
1.	Is the infor	mation above correct?				
	If NO, inclu	de handwritten above or on a	separate sheet.			
2.		or all of the site property been nendment during this Reportin	sold, subdivided, merged, or unogenerated or unogenerated?	dergone a		•
3.		peen any change of use at the RR 375-1.11(d))?	site during this Reporting Period	d		
4.		ederal, state, and/or local perme property during this Reporting	nits (e.g., building, discharge) be g Period?	en issued		
			ru 4, include documentation o ly submitted with this certifica			
5.	Is the site of	currently undergoing developm	ent?			
					Box 2	
					YES	NO
6.		ent site use consistent with the Residential, Commercial, and				
7.	Are all ICs	in place and functioning as des	signed?			
	IF TI		STION 6 OR 7 IS NO, sign and d ST OF THIS FORM. Otherwise o		ınd	
A C	Corrective M	easures Work Plan must be s	ubmitted along with this form to	address th	nese iss	ues.
Sig	nature of Ow	ner, Remedial Party or Designa	ted 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? 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) 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. C828125** Box 3 **Description of Institutional Controls**

Parcel Owner Institutional Control

Erie Harbor, LLC 121.55-01-059.001

Ground Water Use Restriction

Monitoring Plan O&M Plan IC/EC Plan

Landuse Restriction Site Management Plan

A restricted residental land use restriction is in place.

A groundwater use restriction is in place.

Excavation must be done under the SMP.

The potential for soil vapor intrusion must be evaluated and mitigated if required in "EC area."

Vegetable gardens and farming are prohibited without Department approval.

Periodic certification is required.

Box 4

Description of Engineering Controls

Engineering Control Parcel

121.55-01-059.001

Vapor Mitigation

Box	5
-----	---

	Periodic Review Report (PRR) Certification Statements
1.	I certify by checking "YES" below that:
	a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control 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
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 and the environment;
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.
	YES NO
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.
	A Corrective Measures Work Plan must be submitted along with this form to address these issues.
	Signature of Owner, Remedial Party or Designated Representative Date
—	

IC CERTIFICATIONS SITE NO. C828125

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

_I Lucin Colakoglu		1000 University Ave, Suite 500, Roche	ster, NY 14607
print name		print business address	,
am certifying as Owner		(Owne	r or Remedial Party)
for the Site named in the Site Det		on of this form.	
Lucin Colar	eoglii	2/21/202	24
Signature of Owner, Remedial Pa	rty, or Des	signated Representative Date	

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.

Timothy K. Hampton	at 1563 Lyell Avenue, Rochester, NY 14606
print name	print business address
am certifying as a Professional E	ngineer for the Owner
	(Owner or Remedial Party)
	SELD PROFESSIONAL CONTROL OF THE PROFESSIONAL CONTROL OF T

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

Stamp (Required for PE) Date