

SEPTEMBER 2025 PROGRESS REPORT
SITE OPERATION & MAINTENANCE

76-01 77TH AVENUE
GLENDALE, NEW YORK
SITE#: 241031

Prepared For:



**Department of
Environmental
Conservation**



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1.0 INTRODUCTION

This document represents the bi-monthly progress report for the operation and maintenance (O&M) activities at Kliegman Brothers, New York State Department of Environmental Conservation (NYSDEC) Site No. 241031. The site is located at 76-01 77th Avenue in the Town of Glendale, Queens County, New York. The project site is located at the intersection of 77th Avenue and 76th Street and was a former dry-cleaner/laundry warehouse supplier. The site property is currently still operating a commercial facility as a Bakery on the western portion of the building and a Brewery to the east. The surrounding area is primarily residential, mixed with commercial. A site location map is provided as Figure 1.

This report summarizes the September 2025 operation and maintenance (O&M) activities conducted at this site to summarize the current Soil Vapor Extraction (SVE) System. A site map including the equipment compound and system well locations is provided as Figure 2.

1.1 SYSTEM DESCRIPTION: SVE

The SVE system compound is located within the parking lot in the northwest corner of the site property. The current SVE system in operation is comprised of extraction wells from two former SVE Systems: Ground/Water Treatment & Technology (GWTT) and URS Corporation (URS). The SVE system is currently operating four header lines which are connected to the following well pairs Trunk Line 1 (A-103): SVE-7S/SVE-7D, Trunk Line 2 (A-102): SVE-8S/SVE-8D, and Trunk Line 3 (A-101): SVE-9S/SVE-10S. The fourth header line was previously reconfigured and is connected to the former URS system wells: Trunk Line 4: 3 SVE wells (SVE-1, SVE-6S and SVE-6D).

All extraction wells are located in the parking area north of the building (well locations are shown in Figure 2). The treatment system is housed in a hot box which contains the blowers, moisture separator drum, and four main trunk lines. The wells connected to Trunk Line 4 are piped to an outside manifold which allows for independent well readings and controls. The treatment system consists of two 10.0 horsepower regenerative blowers that are connected to the piping manifold. Blower B-201 is the primary operational blower which conveys soil vapor from the nine extraction wells, blower B-202 is functional and on standby as a spare. Currently, after passing through the manifold, moisture separator and blower, the SVE effluent airstream is discharged to the atmosphere. An as-built system diagram previously made available to EAR has been marked up with current notes/configuration and is provided as Appendix A.

For monitoring of system performance, vapor monitoring (VMP) wells are located surrounding and within the property building. VMP well locations are presented in Figure 2.

2.0 O&M ACTIVITIES

2.1 SVE

EAR began O&M activities at this site starting in October 2020 with the first monthly system check conducted on October 28, 2020. Bi-monthly O&M activities include, but are not limited to:

- General inspection and observations of all system components.
- Recording of hour meter readings on blowers.
- Draining the moisture separator tank, as necessary.
- Recordings air flow, vacuum, and temperature readings from 3 trunk lines, 3 independent well lines on outside manifold (4th trunk line), and SVE effluent line.
- Screening of all trunk lines/wells, and effluent for VOCs using a photo-ionization detector (PID).
- Recording vacuum/influence from VMP locations.
- Collection of SVE effluent air sample and individual SVE points, per schedule.
- Routine maintenance of blowers and filters, as needed.

Based on review of prior reporting, the system is operating normally. System uptime from July 11, 2025 through September 12, 2025 is estimated at 100%. Currently, blower 201 is undergoing repair at a mechanic shop and backup unit B-202 is temporarily online.

2.1.1 O&M ACTIVITIES

- September 12, 2025:
 - The system was operating upon arrival to and departure from the site.
 - System operating parameters were monitored, recorded, and tabulated in a system data log. Monitoring data collected during the site visit detailed in this report is provided as Table 1 and submitted separately in spreadsheet format. Maintenance information is provided in Table 2.
 - The vacuum blower was inspected for proper operation and any potential maintenance issues.
 - The moisture separator drum was inspected, and any collected condensation water discharged manually through drainage adjacent to the system enclosure.
 - The control panel and electrical distribution panel were found to be working as specified.
 - General site conditions were inspected and found to be in working condition. General housekeeping tasks were completed.
 - Vacuum/influence monitoring at VMP wells was conducted at VMP-1 through VMP-6. VMP-7 was inaccessible.
 - The system heater was not in operation.
 - Met TRC on-site to conduct new vapor pin installation of KB-SS-04 in brewery and assist in system re-balancing. See Appendix B for installation photos.

3.0 SYSTEM AIR SAMPLING

During the bi-monthly site visit, SVE trunk lines/manifolds and effluent air stream were screened in the field for Total VOCs using a PID. Prior to use, the PID was calibrated using a 100 ppm isobutylene standard and ambient air. PID utilized during the system evaluation is equipped with a sensor with standard 10.6 eV UV lamp.

On September 12, 2025, samples for laboratory analysis was collected from the SVE effluent air stream before and after the blower. The samples were submitted to Pace Analytical/Alpha Analytical of Mansfield, MA for analysis of VOCs via EPA method TO-15 with 30-day turnaround time and Category A deliverables requested. Field screening results for Total VOCs are summarized in Table 1, air analytical results are summarized in Table 3, and SVE effluent recovery data are summarized in Table 4.

TABLES

TABLE 1: SVE SYSTEM DATA LOG

TABLE 2: SVE SYSTEM MAINTENANCE LOG

TABLE 3: SVE SYSTEM AIR ANALYTICAL RESULTS**TABLE 4: SVE EFFLUENT RECOVERY**

Table 1

Soil Vapor Extraction System Data Log

System Evaluation Date		10/28/2020	11/25/2020	12/14/2020	1/14/2021	2/4/2021	3/3/2021	4/6/2021	5/11/2021	6/11/2021	8/5/2021	9/8/2021	11/10/2021	1/5/2022	3/21/2022	5/17/2022	7/6/2022	9/15/2022	11/8/2022	1/11/2023	
SVE System Status on Arrival		on	on	on	on	on	on	on	on	on	on	off	on	on	on	on	on	on	on	on	
SVE System Status on Departure		on	on	on	on	on	on	on	on	on	off	on	on	on	on	on	on	on	on	on	
SVE Blower B-201 Status		on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	
SVE Blower B-201 Hour Meter Readings		130671.0	13738.4	14194.5	14937.5	15444.4	16086.7	16905.2	17745.1	18485.8	19806.3	19832.6	21346.7	22687.9	24487.0	25854.7	27055.5	28759.6	30057.5	31592.6	
Hour Readings - Time Recorded		9:00 AM	9:00 AM	9:00 AM	9:00 AM	9:00 AM	6:52 AM	10:23 AM	9:00 AM	6:56 AM	7:20 AM	9:35 AM	11:00 AM	7:58 AM	7:50 AM	7:37 AM	8:24 AM	1:57 PM	10:45 AM	8:23 AM	
Hours Since Last Site Visit		-	672	456	744	504	646	820	839	742	1320	818	1513	1341	1800	1368	1201	1710	1293	1534	
SVE Blower B-202 Status		off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	off	
SVE Blower B-202 Hour Meter Readings		1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	
Technician(s)		MF	MF	MF	MF	MF	JB	JB	MF	JB	JB	JB	JB	JB	JB	JB	JB	JB	MF	JB	
In-Line Filter Status		ok	ok	ok	ok	ok	ok	ok	ok	ok	replaced	ok	ok	ok	ok	ok	ok	ok	ok	ok	
Moisture Separator Water Level		empty	empty	15-20 gal	empty	3-4 gal	10 gal	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	empty	
Manifold Legs / Wells																					
Trunk Line 1 (SVE-75/70)	A-103	Vacuum (\"WC)	-12.5	-16.8	-17.4	-17.4	-17.1	-17.5	-13.8	-13.5	-11.7	-	-7.2	-13.5	-18.4	-19.6	-14.6	-14.2	-13.8	-16.2	
	Air flow (SCFM)	140	145	85	80	55	100	50	90	110	-	110	130	60	50	100	70	130	135	80	
	PID (PPM)	28.3	38.3	8.2	21.1	2.8	2.8	-	24.8	0.0	-	0.0	18.1	14.2	0.0	7.1	11.8	0.0	4.5	0.0	
	Valve (% open)	30%	30%	30%	30%	30%	30%	30%	30%	30%	-	30%	30%	30%	30%	30%	30%	30%	30%	30%	
Trunk Line 2 (SVE-85/80)	A-102	Vacuum (\"WC)	-13.0	-17.8	-17.9	-15.6	-16.6	-16.1	-13.9	-12.7	-11.3	-	-6.5	-13.6	-18.8	-18.3	-14.4	-13.4	-13.5	-15.4	
	Air flow (SCFM)	100.0	152.0	140.0	140.0	120.0	115.0	110.0	100.0	120	-	130	150	140	110	130	160	170	170	110	
	PID (PPM)	6.2	6.2	3.3	5.9	1.7	4.4	-	4.9	0.0	-	0.0	5.6	6.2	0.0	2.2	5.6	0.0	1.1	0.2	
	Valve (% open)	30%	30%	30%	30%	30%	30%	30%	30%	30%	-	30%	30%	30%	30%	30%	30%	30%	30%	30%	
Trunk Line 3 (SVE-95/105)	A-101	Vacuum (\"WC)	-11.7	-16.4	-16.8	-16.7	-16.4	-15.8	-13.8	-12.6	-11.1	-	-6.5	-14.0	-19.4	-18.5	-14.2	-13.2	-13.5	-15.3	
	Air flow (SCFM)	90.0	100.0	105	95	58	60	60	55	75	-	80	30	50	70	40	110	50	50	60	
	PID (PPM)	3.3	4.1	1.4	4.1	0.9	3.1	-	2.6	0.0	-	0.0	10.2	2.1	0.0	11.2	2.0	2.7	0.8	0.3	
	Valve (% open)	100%	100%	100%	100%	100%	100%	100%	100%	100%	-	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Trunk 4	URS SVE-1	Vacuum (\"WC)	-7.5	-12.9	-13.6	-12.1	-13.6	-11.8	-11.1	-9.0	-7.8	-	-4.7	-11.4	-13.8	-13.4	-11.0	-8.7	-9.5	-11.5	
		Air flow (SCFM)	43.0	84.0	56	11	18	22	28	24	18	-	13	15	*	62	48	40	21	18	
		Temperature (\"F)	64.0	66.0	-	62.0	56.0	51.0	64.0	-	68.0	-	62.0	67.0	52.0	51.0	68.0	79.0	75.0	0.0	
		PID (PPM)	6.5	1.8	1.1	5.0	1.6	6.1	-	3.2	8.8	-	15.1	3.8	1.8	12.0	0.0	5.1	15.6	72.0	
		Valve (% open)	100%	100%	100%	100%	100%	100%	100%	100%	100%	-	100%	100%	100%	100%	100%	100%	100%	100%	
		Vacuum (\"WC)	-7.0	-13.4	-15.8	-9.5	-11.4	-13.6	-8.7	-7.9	-7.1	-	-4.0	-10.3	-12.8	-12.1	-12.1	-9.0	-10.0	-10.6	
		Air flow (SCFM)	14	38	68	97	77	104	89	85	83	-	57	100	122	94	93	100	95	101	
		Temperature (\"F)	64	57	-	57	51	52	63	-	67	-	58	68	49	50	67	80	76	63	
	URS SVE-6D	PID (PPM)	2.3	*	0.0	5.2	1.6	1.4	-	2.9	11.1	-	36.0	10.1	2.1	8.8	0.0	6.1	6.1	0.1	
		Valve (% open)	100%	100%	100%	100%	100%	100%	100%	100%	100%	-	100%	100%	100%	100%	100%	100%	100%	100%	
		Vacuum (\"WC)	-4.2	-8.8	-8.1	-11.6	-11.7	-11.0	-10.5	-9.3	-8.1	-	-6.1	-11.7	-14.4	-12.4	-12.4	-9.1	-9.7	-12.0	
		Air flow (SCFM)	64	81	*	24	28	29	33	49	28	-	24	32	31	44	47	58	45	30.6	
		Temperature (\"F)	65	61	-	56	50	51	64	-	68	-	60	67	48	51	67	79	74	63	
		PID (PPM)	3.7	0.7	*	4.7	1.5	4.2	-	2.7	52.4	-	75.0	12.2	4.4	6.9	0.0	37.8	21.4	0.0	
		Valve (% open)	50%	50%	50%	100%	100%	100%	100%	100%	100%	-	100%	100%	100%	100%	100%	100%	100%	100%	
		Vacuum (\"WC)	-26.1	-29.5	-30.4	-29.7	25.8	-25.4	-29.6	-29.2	-26.9	-	-13.8	-28.7	-29.7	-31.0	-30.0	-28.0	-29.5	-26.5	
	Pre Filter	Vacuum (\"WC)	-52.7	-55.6	-55.5	-56.1	26.5	-26.0	-54.4	-53.8	-49.8	-	-29.8	-50.1	-52.8	-52.0	-50.0	-47.0	-49.5	-27.1	
		Post Filter	Vacuum (\"WC)	-52.7	-55.6	-55.5	-56.1	26.5	-26.0	-54.4	-53.8	-49.8	-	-29.8	-50.1	-52.8	-52.0	-50.0	-47.0	-49.5	-27.1
	Discharge																				
	SVE EFFLUENT	Air flow (SCFM)	115.0	225.0	225.0	220.0	225.0	220.0	205.0	220.0	210.0	-	243.0	228.0	210.0	210.0	230.0	225.0	230.0	228	210
Temperature (\"F)		126.0	122.0	116.0	115.0	106.0	104.0	132.0	121.0	130.0	-	82.0	120.0	116.0	80.0	128.0	78.0	142.0	104	102	
PID (PPM)		5.9	21.9	12.6	128.0	13.4	11.2	24.7	21.9	21.0	-	39.6	26.0	18.1	30.1	10.1	6.1	17.2	-	21.5	
Vapor Monitoring Points (VMPs)																					
VMP-1	Vacuum (\"WC)	-	0.0	0.0	-	-0.09	-0.01	0.0	-	0.0	-	-0.04	-0.21	-0.55	0.0	0.0	-0.01	Blocked	Blocked	-1.08	
	PID (PPM)	-	4.6	0.0	-	1.3	0.0	0.0	-	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0			0.0	
VMP-2	Vacuum (\"WC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-0.03	0.0	
	PID (PPM)	0.9	1.2	0.0	0.8	0.9	0.0	0.0	7.1	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
VMP-3	Vacuum (\"WC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	PID (PPM)	1.7	0.8	0.3	0.4	0.3	0.1	0.0	4.3	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
VMP-4	Vacuum (\"WC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	PID (PPM)	0.2	1.8	0.0	0.4	0.0	0.0	0.0	3.1	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
VMP-5	Vacuum (\"WC)	0.0	0.0	-0.6	-0.7	-	-0.55	-1.20	-1.25	0.0	-	-0.8	-0.4	-0.2	-0.2	-0.5	-0.5	-1.2	-0.8	-1.02	
	PID (PPM)	0.0	0.7	0.4	1.4	-	0.1	0.0	9.7	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
VMP-6	Vacuum (\"WC)	-	0.0	0.0	0.0	0.0	-0.02	-0.93	0.0	0.0	-	-0.04	-0.08	-0.02	-0.02	-0.02	0.0	0.0	0.0	0.0	
	PID (PPM)	-	1.1	0.2	0.2	1.6	1.1	0.0	1.1	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
VMP-7**	Vacuum (\"WC)	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	-	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	
	PID (PPM)																				

Notes:

- Reading not collected

*Water detected in lines

**VMP-7 is inaccessible

*Opened valve from 50% to 100% prior to departure. Vac reading was >10\"WC after opening.

Table 1

Soil Vapor Extraction System Data Log

System Evaluation Date		3/10/2023	5/9/2023	7/6/2023	9/8/2023	11/6/2023	1/24/2024	3/11/2024	5/23/2024	7/11/2024	9/11/2024	11/7/2024	1/16/2025	3/11/2025	5/7/2025	7/11/2025	9/12/2025
SVE System Status on Arrival		on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on
SVE System Status on Departure		on	on	on	on	on	on	on	on	on	on	on	on	on	on	on	on
SVE Blower B-201 Status		on	on	on	on	on	on	on	on	on	on	on	on	on	off/removed	off/removed	off/removed
SVE Blower B-201 Hour Meter Readings		32983.2	34421.2	35811.2	37348.5	38765.1	40662.6	41781.2	43533.6	44708.7	46199.2	47567.0	49032.8	49493.0	49977.7	49977.7	49977.7
Hour Readings - Time Recorded		6:46 AM	9:45 AM	6:42 AM	7:36 AM	7:31 AM	8:53 AM	7:00 AM	9:08 AM	6:39 AM	9:08 AM	7:53 AM	12:00 PM	7:38 AM	11:10 AM	8:19 AM	7:56 AM
Hours Since Last Site Visit		1390	1443	1389	1537	1416	1897	1126	1752	1175	1490	1367	1684	1292	1372	1557	1512
SVE Blower B-202 Status		off	off	off	off	off	off	off	off	off	off	off	off	off	on	on	on
SVE Blower B-202 Hour Meter Readings		1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1439.5	1561.7	3118.8	4630.5
Technician(s)		JB	MF	JB	JB	JB	JB	JB	JB	JB	JB	JB	MF	JB	JB	JB	JB
In-Line Filter Status		ok	ok	ok	replaced	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok	ok
Moisture Separator Water Level		empty	empty	empty	empty	empty	15-20 Gallons	25 gallons	empty	empty	empty	empty	~10 gallons	~5 gallons	empty	empty	empty
Manifold Legs / Wells																	
Trunk Line 1 (SVE-75/70)	A-103	Vacuum ("WC)	-19.8	-15.4	-13.4	-13.1	-17.1	-20.4	-21.2	-13.3	-13.0	-14.7	-15.7	-20.1	-18.4	-16.2	-13.0
		Air flow (SCFM)	90	50	90	140	150	90	100	40	40	110	130	90	60	40	120
		PID (PPM)	11.8	21.5	0.0	4.1	33.1	30.4	33.0	0.7	35.1	0.1	36.0	3.1	3.4	8.1	39.0
		Valve (% open)	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	33%
Trunk Line 2 (SVE-85/80)	A-102	Vacuum ("WC)	-18.9	-14.2	-12.8	-13.0	-17.9	-19.9	-19.8	-12.7	-12.9	-13.8	-15.3	-21.9	-17.7	-15.8	-13.4
		Air flow (SCFM)	105	85	160	170	170	120	120	150	70	170	170	135	130	130	170
		PID (PPM)	3.2	2.3	0.1	3.8	3.8	4.2	6.2	0.3	5.2	8.4	0.7	1.5	1.1	9.0	8.2
		Valve (% open)	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	33%
Trunk Line 3 (SVE-95/105)	A-101	Vacuum ("WC)	-20.1	-14.8	-13.1	-12.3	-17.0	-19.7	-20.4	-12.4	-12.7	-13.4	-14.6	-19.3	-17.8	-15.6	-13.5
		Air flow (SCFM)	50	40	60	70	60	40	70	50	170	70	70	70	60	70	70
		PID (PPM)	0.1	11.6	0.0	0.2	1.6	1.8	0.2	0.9	1.1	0.0	4.9	0.7	0.9	6.4	18.3
		Valve (% open)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Trunk 4	URS SVE-1	Vacuum ("WC)	-12.9	-9.9	-9.6	-8.6	-12.4	-15.1	-13.6	-10.6	-9.6	-9.0	-11.2	-12.9	-11.6	-10.1	-9.4
		Air flow (SCFM)	*	23	21	22	24	*	*	21	20	21	22	*	*	27	24
		Temperature (°F)	43.0	-	78.0	80.0	57.0	*	*	72.0	80.0	76.0	68.0	*	*	77.0	75.0
		PID (PPM)	3.2	0.0	4.6	10.1	1.3	*	*	3.6	8.4	0.6	5.5	1.1	*	12.1	2.9
	URS SVE-6D	Valve (% open)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
		Vacuum ("WC)	-14.0	-9.7	-9.7	-9.1	-13.5	-17.2	-13.9	-8.9	-9.6	-9.2	12.9	-13.1	-11.9	-10.2	-9.4
		Air flow (SCFM)	*	59	101	56	110	*	*	102	47	100	117	113	*	120	98
		Temperature (°F)	41	-	78	80	59	*	*	72	80	75	69	41	*	77	76
	URS SVE-6S	PID (PPM)	4.4	0.0	6.1	6.2	0.1	*	*	4.9	3.1	0.1	12.1	1.8	*	25.4	6.4
		Valve (% open)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
		Vacuum ("WC)	-16.1	-10.2	-9.0	-9.2	-12.9	-13.3	-15.3	-9.2	-9.3	-11.1	-13.1	-13.6	-14.2	-10.9	-10.1
		Air flow (SCFM)	46	17	45	50	26	*	62	39	81	49	41	44	*	57	46
	URS SVE-6S	Temperature (°F)	42	-	78	79	54	*	50	71	80	75	68	38	*	75	77
		PID (PPM)	3.6	0.0	31.9	24.1	0.0	*	0.1	22.4	1.9	0.1	10.2	0.9	*	36.2	39.8
		Valve (% open)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
		Vacuum ("WC)	-32.0	-26.1	-27.0	-25.0	-32.0	-37.0	-29.0	-30.1	-29.0	-29.6	-31.0	-33.7	-28.0	-32.0	-29.0
Air Filter	Pre Filter	Vacuum ("WC)	-52.0	-46.3	-48.0	-43.0	-50.0	-56.0	-51.0	-47.2	-48.0	-50.1	-51.0	-54.1	-45.0	-56.0	-33.0
	Post Filter	Vacuum ("WC)	-52.0	-46.3	-48.0	-43.0	-50.0	-56.0	-51.0	-47.2	-48.0	-50.1	-51.0	-54.1	-45.0	-56.0	-33.0
Discharge																	
SVE EFFLUENT	Air flow (SCFM)	210	242	215	220	210	210	230	215	225	220	230	421*	215	225	225	230
	Temperature (°F)	112	103	144	148	122	112	119	138	148	144	138	116	102	130	148	142
	PID (PPM)	10.1	10.2	16.4	15.8	14.6	14.2	12.9	12.7	15.2	21.0	18.1	3.4	21.6	25.4	21.4	17.7
Vapor Monitoring Points (VMPs)																	
VMP-1	Vacuum ("WC)	-0.90	2.87	-0.28	-0.20	-1.10	-0.08	-0.80	-1.10	-1.02	-0.79	-0.69	0.00	-0.30	-0.10	-0.81	0.00
	PID (PPM)	*	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8
VMP-2	Vacuum ("WC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.7	0.0	0.0	0.0	0.0
	PID (PPM)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0
VMP-3	Vacuum ("WC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
	PID (PPM)	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VMP-4	Vacuum ("WC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PID (PPM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VMP-5	Vacuum ("WC)	-1.10	-1.14	-1.10	-1.20	-1.90	-1.20	-1.10	-1.02	-1.10	-1.02	-0.90	-0.40	-0.83	-0.80	-1.04	-1.26
	PID (PPM)	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VMP-6	Vacuum ("WC)	0.0	Trace	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PID (PPM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
VMP-7**	Vacuum ("WC)	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked
	PID (PPM)	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked	Blocked

Notes:

- Reading not collected

*Water detected in lines

**VMP-7 is inaccessible

†Opened valve from 50% to 100% prior to departure. Vac r

Table 2



Soil Vapor Extraction System Maintenance Log

Date	Purpose	SVE Operation upon arrival	SVE Operation upon departure	SVE Blower B-201 In operation	SVE Blower B-202 In operation	SVE-Effluent air sampling conducted	Individual SVE line air sampling conducted	Checked SVE Filter	Emptied Moisture Separator Tank	Approximate volume in knockout tank (gal)	Notes
10/28/19	M	X	X	X		X		X		0	Filter was clean upon inspection.
11/08/19	M	X	X	X		X		X		0	Filter was clean upon inspection.
12/14/20	M	X	X	X		X		X	X	15-20	Filter was clean upon inspection. Additional readings collected to measure the system influence.
01/14/21	M	X	X	X		X		X		0	Filter was clean upon inspection.
02/04/21	M	X	X	X		X	X	X	X	3-4	Ambient PID in building basement was 0.7-0.8 ppm.
03/03/21	M	X	X	X		X		X	X	10	Filter was clean upon inspection.
04/06/21	M	X	X	X		X		X		0	Met TRC for site inspection for potential well abandonment. Determined VMP-7 location is blocked.
05/11/21	M	X	X	X		X		X		0	Cleaned filter and replacement ordered. Repainted bollards.
06/11/21	M	X	X	X		X		X		0	Filter was clean upon inspection.
08/05/21	M	X									O&M event not conducted due to power issues. System shut down at 7:20 AM, pending assessment.
08/06/21	R										Assessed system, suspected electrical phase loss. Unable to repair system & restart.
08/31/21	R										Con Ed repaired phase loss issue. Unable to restart system due to further disconnect switch repair.
09/07/21	R		X								Replaced disconnect switch. Restarted system.
09/08/21	M		X	X		X		X		0	System off upon arrival & was restarted at 9:35 AM. Filter was clean upon inspection.
10/04/21	O	X	X	X							Drive-by system check. System operating well upon arrival & departure.
10/28/21	R	X	X	X							Post-storm debris cleanup & system check. System operating well upon arrival & departure.
11/10/21	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
01/05/22	M	X	X	X		X	X	X		0	Bi-monthly Sampling/O&M event.
02/02/22	O	X	X	X							Post-storm debris cleanup. System operating well upon arrival & departure.
03/03/22	O	X	X	X							Meeting/provide access on-site to review feasibility of solar power.
03/21/22	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
05/17/22	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
07/06/22	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
09/15/22	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
11/08/22	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
01/11/23	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
03/10/23	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
04/25/23	R	X	X	X							Installed auto dialer/sensaphone unit and conduct load test.
05/09/23	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
05/11/23	R	X	X	X							Attempted to fix compound fence/gate damage in-place.
05/15/23	R	X	X	X							Cement new compound fence post/reset gate.
07/06/23	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
07/12/23	R	X	X	X							Install of sensaphone enclosure heater & power adapter enclosure box.
09/08/23	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
11/06/23	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event. Heat turned on.
01/24/24	M	X	X	X		X		X	X	15-20	Bi-monthly Sampling/O&M event. Knockout tank could not be drained due to drain pump malfunction, further repairs required. SVE filter changed & 1 spare remains on-site.
02/09/24	R	X	X	X							Conducted moisture separator drum/drain pump repair assessment.
02/12/24	R	X	X	X							Drained moisture separator drum & prepared for replacement of drum.
02/26/24	R	X	X	X							Finalized system repairs re-pipe new moisture separator drum
03/11/24	M	X	X	X		X		X	X	25	Bi-monthly Sampling/O&M event. Drain pump inoperational, drained manually.
05/23/24	M	X	X	X		X	X	X		0	Bi-monthly Sampling/O&M event.
07/11/24	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
09/11/24	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
11/07/24	M	X	X	X		X		X		0	Bi-monthly Sampling/O&M event.
12/04/24	O	X	X	X							Drive-by system check to turn on system heat.
01/13/25	O	X	X	X							Conducted residential SSDS inspection with TRC.
01/16/25	M	X	X	X		X		X		10	Bi-monthly Sampling/O&M event.
01/21/25	O	X	X	X							Conducted residential SSDS inspection with TRC.
02/10/25	O	X	X	X							Drive-by/snow clearing event.
03/11/25	M	X	X	X		X		X		5	Bi-monthly Sampling/O&M event.
04/29/25	R										Attempted system restart, further repairs required.
05/02/25	R		X		X						Removed B-201 blower for off-site repair. Start B-202 blower/monitor SVE operation.
05/05/25	R		X		X						Assessed system, restarted motor start & restarted B-202/monitor SVE operation.
05/07/25	M	X	X		X	X		X		0	Bi-monthly Sampling/O&M event.
07/11/25	M	X	X		X	X		X		0	Bi-monthly Sampling/O&M event.
09/12/25	M	X	X		X	X		X		0	Bi-monthly Sampling/O&M event. Met with TRC to install vapor pin (KB-SS-04) in brewery & re-balance system.

Table 3

Sample Location	Date Collected	Tetrachloroethene	Total VOCs	1,1 Dichloroethane	1,1 Dichloroethene	1,1,1 Trichloroethane	1,2 Dichloroethane	1,2,4 Trimethylbenzene	1,3 Dichlorobenzene	1,3,5 Trimethylbenzene	2,2,4-Trimethylpentane	4-Methyl-2-Pentanone	Acetone	Benzene	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cyclohexane	Dichlorodifluoromethane	Ethanol	Ethyl Acetate	Ethylbenzene	Freon 113	Heptane	Hexane	Isopropyl Alcohol	m + p Xylene	Methyl Ethyl Ketone	Methylene Chloride	o-Xylene	Styrene	MTBE	Tetrahydrofuran	Toluene	Total BTEX	trans-1,2-Dichloroethene	Trichloroethylene	Trichlorofluoromethane	Vinyl Chloride
SVE_EFFLUENT	10/28/20	30	595	<0.32	<0.16	<0.44	<0.32	3.3	14	1	1.7	<0.82	n/a	1.5	0.55	<0.21	<0.39	0.97	0.18	0.76	2	56	n/a	1.9	<0.61	n/a	<0.7	n/a	6.9	460	<1.40	2.5	0.66	<0.58	n/a	8.6	21	<0.32	0.65	1.4	<0.10
SVE_EFFLUENT	11/25/20	140,000	142,320	<640	320	<860	<640	<780	<950	<780	<1,800	<1,600	n/a	<500	<400	<420	<770	<810	600	<1,400	<780	<7,400	n/a	<690	<1,200	n/a	<1,400	n/a	<690	<1,900	<2,700	<690	<670	<1,100	n/a	<890	<3,460	<630	1,400	<890	<200
SVE_EFFLUENT	12/14/20	91,000	92,900	<230	190	350	<230	<280	<340	<280	<660	<580	n/a	<180	<140	<150	<280	<290	360	<490	<280	<2,700	n/a	<250	<430	n/a	<500	n/a	<250	<670	<990	<250	<240	<410	n/a	<320	<1,250	<230	1,000	<320	<73
SVE_EFFLUENT	01/14/21	69,000	69,990	<450	<220	<610	<450	<550	<670	<550	<1,300	<1,100	n/a	<360	<280	<300	<550	<580	250	<960	<550	<5,300	n/a	<490	<860	n/a	<990	n/a	<490	<1,300	<1,900	<490	<480	<810	n/a	<630	<2,460	<440	740	<630	<140
SVE_EFFLUENT	02/04/21	85,000	86,250	<810	<400	<1,100	<810	<980	<1,200	<980	<2,300	<2,000	n/a	<640	<500	<530	<980	<1,000	440	<1,700	<990	<9,400	n/a	<870	<1,500	n/a	<1,800	n/a	<870	<2,400	<3,500	<870	<850	<1,400	n/a	<1,100	<4,350	<790	810	<1,100	<260
SVE-7D	02/04/21	41,000	41,000	<280	<140	<380	<280	<340	<420	<340	<810	<710	n/a	<220	<170	<180	<340	<360	<140	<600	<340	<3,300	n/a	<300	<530	n/a	<610	n/a	<300	<820	<1,200	<300	<300	<500	n/a	<390	<1,510	<280	<170	<390	<89
SVE-8D	02/04/21	17,000	23,800	230	860	1,500	<120	<150	<180	<150	<360	<310	n/a	<97	220	<80	160	<160	960	<260	<150	<1,400	n/a	<130	<230	n/a	<270	n/a	<130	<360	<530	<130	<130	<220	n/a	<170	<657	<120	2,700	170	<39
SVE-8S	02/04/21	5,000	5,458	<48	<23	<64	<48	<58	<71	<58	<140	<120	n/a	<38	<30	<31	<58	<61	370	<100	<58	<560	n/a	<51	<90	n/a	<100	n/a	<51	<140	<200	<51	<50	<85	n/a	<67	<258	<47	88	<66	<15
SVE-9S	02/04/21	9,500	10,000	<110	<52	<140	<110	<130	<160	<130	<310	<270	n/a	<84	<66	<69	<130	<130	320	<220	<130	<1,200	n/a	<110	<200	n/a	<130	n/a	<110	<310	<450	<110	<110	<190	n/a	<150	<654	<100	180	<150	<33
SVE-10S	02/04/21	1,600	2,025	<16	<7.90	<22	<16	<20	<24	<20	<47	<41	n/a	<13	<10	<11	<20	<21	46	<34	<20	320	n/a	<17	<31	n/a	<35	n/a	<17	<47	<69	<17	<17	<29	n/a	<23	<87	<16	59	<22	<5.10
URS_SVE-1	02/04/21	17,000	17,000	<170	<85	<230	<170	<210	<260	<210	<500	<440	n/a	<140	<110	<110	<210	<220	<85	<370	<210	<2,000	n/a	<190	<330	n/a	<380	n/a	<190	<510	<740	<190	<180	<310	n/a	<240	<950	<170	<100	<240	<55
URS_SVE-6D	02/04/21	63,000	63,000	<500	<240	<670	<500	<610	<740	<610	<1,400	<1,300	n/a	<390	<310	<330	<600	<640	<240	<1,100	<610	<5,800	n/a	<540	<950	n/a	<1,100	n/a	<540	<1,500	<2,100	<540	<530	<890	n/a	<700	<2,710	<490	<300	<690	<160
URS_SVE-6S	02/04/21	97,000	97,000	<640	<320	<870	<640	<780	<960	<780	<1,900	<1,600	n/a	<510	<400	<420	<780	<820	<320	<1,400	<790	<7,500	n/a	<690	<1,200	n/a	<1,400	n/a	<690	<1,900	<2,800	<690	<680	<1,100	n/a	<900	<3,480	<630	<380	<890	<200
SVE_EFFLUENT	03/03/21	45,000	45,520	<650	<320	<880	<650	<790	<970	<790	<1,900	<1,700	n/a	<520	<410	<430	<790	<830	<320	<1,400	<800	<7,600	n/a	<700	<1,200	n/a	<1,400	n/a	<700	<1,900	<2,800	<700	<690	<1,200	n/a	<910	<3,530	<640	520	<910	<210
SVE_EFFLUENT	04/06/21	72,000	73,370	<530	280	<710	<530	<640	<780	<640	<1,500	<1,300	n/a	<410	<330	<340	<630	<670	340	<1,100	<640	<6,100	n/a	<560	<1,000	n/a	<1,100	n/a	<560	<1,500	<2,300	<560	<550	<940	n/a	<730	<2,820	<510	750	<730	<170
SVE_EFFLUENT	05/11/21	86,000	86,790	<670	<330	<910	<670	<820	<1,000	<820	<1,900	<1,700	n/a	<530	<420	<440	<810	<860	<330	<1,400	<820	<7,800	n/a	<720	<1,300	n/a	<1,500	n/a	<720	<2,000	<2,900	<720	<710	<1,200	n/a	<940	<3,630	<660	790	<930	<210
SVE_EFFLUENT	06/11/21	89,000	91,505	70	280	520	<46	<56	<69	<56	<130	<120	n/a	<36	68	<30	77	<59	390	<98	<56	<540	n/a	<50	<87	n/a	<100	n/a	<50	<130	<200	<50	<49	<82	n/a	<64	<250	<45	1,100	<64	<15
SVE_EFFLUENT	09/08/21	130,000	131,450	<540	<260	<730	<540	<650	<800	<650	<1,600	<1,400	n/a	<420	<330	<350	<650	<690	1,000	<1,100	<660	<6,300	n/a	<580	<1,000	n/a	<1,200	n/a	<580	<1,600	<2,300	<580	<570	<960	n/a	<750	<2,910	<530	450	<750	<170
SVE_EFFLUENT	11/10/21	83,000	85,090	<200	290	670	<200	<250	<300	<250	<590	<520	n/a	<160	<130	<130	<250	<260	240	<430	<250	<2,400	n/a	<220	<390	n/a	<440	n/a	<220	<590	<880	<220	<210	<360	n/a	<290	<1,110	<200	890	<280	<64
SVE_EFFLUENT	01/05/22	110,000	120,079	73	400	900	<61	<74	<90	<74	n/a	<61	<1,400	<48	<94	<40	76	<62	430	<52	<74	<1,100	<540	<65	<460	<61	<2,100	<1,500	<130	<1,800	<520	<65	<64	<54	<440	<57	<365	<59	8,200	<340	<38
SVE-7D	01/05/22	15,000	15,465	<6.10	<5.90	<8.20	<6.10	<7.40	82	<7.40	n/a	12	<140	<4.80	<9.40	<4	22	<6.20	59	<5.20	<7.40	<110	<54	<6.50	<46	<6.10	<210	170	<13	<180	<52	<6.50	<6.40	<5.40	<44	54	54	<5.90	66	<34	<3.80
SVE-8D	01/05/22	8,000	15,387	200	1,000	2,100	<6.10	<7.40	110	<7.40	n/a	<6.10	<140	5.1	150	18	150	<6.20	890	<5.20	<7.40	<110	<54	<6.50	<46	<6.10	<210	160	<13	<180	<52	<6.50	<6.40	<5.40	<44	39	44	<5.90	2,500	120	4.8
SVE-8S	01/05/22	2,500	3,294	<2	<2	3.5	<2	2.7	39	<2.50	n/a	17	<48	2.3	<3.10	<1.30	12	<2.10	330	<1.70	<2.50	51	<18	4.3	<15	9.6	<70	110	9	<59	<17	4.9	<2.10	<1.80	<15	43	64	3	93	<11	<1.30
SVE-9S	01/05/22	14,000	19,671	<6.10	<5.90	<8.20	<6.10	<7.40	86	<7.40	n/a	<6.10	<140	<4.80	<9.40	<4	280	<6.20	4,300	<5.20	<7.40	<110	<54	<6.50	<46	<6.10	<210	170	<13	<180	<52	<6.50	<6.40	<5.40	<44	44	44	31	760	<34	<3.80
SVE-10S	01/05/22	2,600	2,985	<2	<2	<2.70	<2	<2.50	91	<2.50	n/a	<2	<48	1.9	<3.10	<1.30	<2.40	<2.10	60	<1.70	<2.50	<38	<18	3	<15	3.6	<70	140	6	<59	<17	3.1	<2.10	<1.80	<15	37	51	<2	39	<11	<1.30
URS_SVE-1	01/05/22	17,000	17,268	<6.10	<5.90	<8.20	<6.10	<7.40	83	<7.40	n/a	<6.10	<140	<4.80	<9.40	<4	<7.30	<6.20	48	<5.20	<7.40	<110	<54	<6.50	<46	<6.10	<210	<150	<13	<180	<52	<6.50	<6.40	<5.40	<44	17	17	<5.90	120	<34	<3.80
URS_SVE-6D	01/05/22	39,000	43,762	<61	<59	<82	<61	<74	<90	<74	n/a	<61	<1,400	<48	<94	<40	<73	<62	<59	<52	<74	<1,100	<540	<65	<460	<61	<2,100	<1,500	<130	<1,800	<520	<65	<64	<54	<440	62	62	<59	4,700	<340	<38
URS_SVE-6S	01/05/22	40,000	43,460	<61	<59	<82	<61	<74	<90	<74	n/a	<61	<1,400	<48	<94	<40	<73	<62	160	<52	<74	<1,100	<540	<65	<460	<61	<2,100	<1,500	<130	<1,800	<520	<65	<64	<54	<440	<57	<365	<59	3,300	<340	<38
SVE_EFFLUENT	03/21/22	<1.36	18	<0.80	<0.79	<1.09	<0.81	<0.98	<1.20	<0.98	<0.93	<5.12	n/a	0.43	1	<1.26	<0.53	<0.97	1.19	<0.79	<0.69	2.44	10.6	n/a	<0.87	<1.53	n/a	<2.22													

Table 3



Air Samples Analyzed by EPA Method TO-15 (µg/m3)

Sample Location	Date Collected	Tetrachloroethene	Total VOCs	1,1 Dichloroethane	1,1 Dichloroethene	1,1,1 Trichloroethane	1,2 Dichloroethane	1,2,4 Trimethylbenzene	1,3 Dichlorobenzene	1,3,5 Trimethylbenzene	2,2,4-Trimethylpentane	4-Methyl-2-Pentanone	Acetone	Benzene	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	Cyclohexane	Dichlorodifluoromethane	Ethanol	Ethyl Acetate	Ethylbenzene	Freon 113	Heptane	Hexane	Isopropyl Alcohol	m + p Xylene	Methyl Ethyl Ketone	Methylene Chloride	o-Xylene	Styrene	MTBE	Tetrahydrofuran	Toluene	Total BTEX	trans-1,2-Dichloroethene	Trichloroethylene	Trichlorofluoromethane	Vinyl Chloride
SVE_EFFLUENT	03/10/23	54,000	55,520	<120	220	450	<120	<150	<180	<150	n/a	<120	<2,900	<96	<190	<79	<150	<120	190	<100	<260	<2,300	<1,100	<130	<920	<120	<4,200	<2,900	<260	<3,500	<1,000	<130	<130	<110	<880	<110	<726	<120	660	<670	<77
SVE_EFFLUENT	05/09/23	35,000	36,300	<61	160	380	<90	<74	<90	<74	n/a	<61	<1,400	<48	<94	<40	<73	<62	150	<52	<74	<1,100	<540	<65	<460	<61	<2,100	<1,500	<130	<1,800	<520	<65	<64	<54	<440	<57	<365	<59	610	<340	<38
SVE_EFFLUENT	07/06/23	18,000	19,346	22	97	280	<12	<15	<18	<15	n/a	<12	<290	9.6	<19	<7.90	39	<12	110	<10	<15	<230	<110	19	<92	<12	<420	<290	66	<350	<100	23	<13	<11	<88	360	478	<12	320	<67	<7.70
SVE_EFFLUENT	09/08/23	34,000	35,433	37	180	360	<12	<15	<18	<15	n/a	<12	<290	<9.60	24	<7.90	62	<12	220	<10	<15	<230	<110	<13	<92	<12	<420	<290	<26	<350	<100	<13	<13	<11	<88	<11	<72.60	<12	550	<67	<7.70
SVE_EFFLUENT	11/06/23	19,000	20,121	30	140	310	<12	<15	<18	<15	n/a	<12	<290	<9.60	22	<7.90	49	<12	160	<10	<15	<230	<110	<13	<92	<12	<420	<290	<26	<350	<100	<13	<13	<11	<88	<11	<72.60	<12	410	<67	<7.70
SVE_EFFLUENT	01/24/24	8,700	35,971	39	210	290	<2	<3.70	60	<2.50	n/a	<2.50	58	1	22	2.8	42	<2.10	140	<1.70	3.3	<38	<18	5.3	<15	<2	<70	26,000	8.6	<59	<17	4	<2.10	45	<15	24	42	<2	290	25	1.5
SVE_EFFLUENT	03/11/24	2,800	3,753	29	190	260	<0.74	<0.74	<0.22	<0.49	n/a	<0.41	14	1.1	17	2.2	32	0.62	130	0.48	2.2	49	<3.60	<0.43	<3.1	4.5	<14	<9.80	<0.87	<12	<3.50	<0.43	<0.43	0.42	4.8	0.9	2	1.1	190	22	1.2
SVE_EFFLUENT	05/23/24	25,000	26,112	28	160	330	<12	<15	<18	<15	n/a	<12	<290	<9.6	22	<7.9	42	<12	140	<10	<15	<230	<110	<13	<92	<12	<420	<290	<26	<350	<100	<13	<13	<11	<88	<11	<72.6	<12	390	<67	<7.7
SVE-7D	05/23/24	7,200	8,240	<8.1	<7.9	<11	<8.1	<9.8	210	<9.8	n/a	<8.2	<190	<6.4	<13	<5.3	13	<8.3	15	<6.9	<9.9	<150	<72	<8.7	<61	<8.2	<280	780	<17	<240	<69	<8.7	<8.5	<7.2	<59	<7.5	<48.3	<7.9	22	<45	<5.1
SVE-7S	05/23/24	12,000	12,123	<8.1	<7.9	<11	<8.1	<9.8	<12	<9.8	n/a	<8.2	<190	<6.4	<13	<5.3	<9.8	<8.3	89	<6.9	<9.9	<150	<72	<8.7	<61	<8.2	<280	<200	<17	<240	<69	<8.7	<8.5	<7.2	<59	<7.5	<48.3	<7.9	34	<45	<5.1
SVE-8D	05/23/24	11	874	27	230	200	<0.81	<0.98	<1.2	<0.98	n/a	<0.82	<19	1.8	10	3.6	14	0.89	65	<0.69	2.5	160	78	<0.87	<6.1	<0.82	<28	<20	<1.7	<24	<6.9	<0.87	<0.85	<0.72	<5.9	2.7	4.5	<0.79	32	34	1.9
SVE-8S	05/23/24	2,600	3,107	<4	<4	<5.5	<4	<4.9	<6	<4.9	n/a	<4.1	<95	<3.2	<6.3	<2.6	13	<4.1	410	<3.4	<4.9	<75	<36	<4.3	<31	<4.1	<140	<98	<8.7	<120	<35	<4.3	<4.3	<3.6	<29	<3.8	<24.3	<4	84	<22	<2.6
SVE-9S	05/23/24	5,300	27,492	<12	<12	<16	<12	<15	<18	<15	n/a	<12	<290	<9.6	<19	<7.9	48	<12	21,000	<10	<15	<230	<110	<13	<92	<12	<420	<290	<26	<350	<100	<13	<13	<11	<88	<11	<72.6	120	1,000	<67	24
SVE-10S	05/23/24	19,000	19,191	<12	<12	<16	<12	<15	<18	<15	n/a	<12	<290	<9.6	<19	<7.9	<15	<12	71	<10	<15	<230	<110	<13	<92	<12	<420	<290	<26	<350	<100	<13	<13	<11	<88	<11	<72.6	<12	120	<67	<7.7
URS_SVE-1	05/23/24	3,000	3,949	<4	<4	<5.5	<4	10	240	<4.9	n/a	<4.1	110	<3.2	<6.3	<2.6	<4.9	<4.1	23	<3.4	<4.9	<75	<36	<4.3	<31	<4.1	<140	530	<8.7	<120	<35	<4.3	<4.3	<3.6	<29	3.8	3.8	<4	32	<22	<2.6
URS_SVE-6D	05/23/24	3,200	3,813	<4	<4	7.7	<4	7.9	190	<4.9	n/a	<4.1	<95	<3.2	<6.3	<2.6	28	<4.1	<4	<3.4	<4.9	<75	<36	<4.3	<31	<4.1	<140	340	<8.7	<120	<35	<4.3	<4.3	<3.6	<29	<3.8	<24.3	<4	39	<22	<2.6
URS_SVE-6S	05/23/24	24,000	24,221	<12	<12	<16	<12	<15	200	<4.9	n/a	<12	<290	<9.6	<19	<7.9	<15	<12	<12	<10	<15	<230	<110	<13	<92	<12	<420	<290	<26	<350	<100	<13	<13	<11	<88	<11	<72.6	<12	21	<67	<7.7
SVE_EFFLUENT	07/11/24	17,000	18,274	35	180	290	<6.1	<7.4	<9	<7.4	<19	<6.1	n/a	<4.8	20	<4	54	<6.2	240	<5.2	15	<110	n/a	<6.5	<46	<6.1	<210	n/a	<13	<180	<52	<6.5	<6.4	<5.4	n/a	<5.7	<36.5	<5.9	440	<34	<3.8
SVE_EFFLUENT	09/11/24	15,000	16,229	30	160	320	<8.10	<9.80	<12	<9.80	<25	<8.20	n/a	<6.40	25	<5.30	54	<8.30	210	<6.90	<9.90	<150	n/a	<8.70	<61	<8.20	<280	n/a	<17	<240	<69	<8.70	<8.50	<7.20	n/a	<7.50	<48.30	<7.90	430	<45	<5.10
SVE_EFFLUENT	11/07/24	58,300	60,139	40	184	439	<2.44	<2.97	<3.63	<2.97	<28.2	<61.9	n/a	<9.65	37	<7.97	76	<12.5	263	<20.8	<29.9	<285	n/a	<2.62	<11.6	<24.8	<21.3	n/a	<5.26	<44.5	<52.5	<2.62	<2.57	<21.8	n/a	<11.4	<31.55	<2.39	774	26	<1.54
SVE_EFFLUENT	01/16/25	59,900	61,359	24	130	396	<22	<26.7	<32.6	<26.7	<254	<557	n/a	<86.9	58	<71.8	57	<112	165	<187	<269	<2,560	n/a	<23.6	<104	<223	<191	n/a	<47.3	<401	<472	<23.6	<23.1	<196	n/a	<103	<284.40	<21.5	629	<76.4	<13.9
SVE_EFFLUENT	03/11/25	49,300	51,036	31	218	401	<23.8	<28.9	<35.4	<28.9	<275	<602	n/a	<93.9	<37	<77.6	55	<121	269	<202	<291	<2,770	n/a	<25.5	<113	<241	219	n/a	<51.3	<434	<511	<25.5	<25	<212	n/a	<111	<307.2	<23.3	543	<82.6	<15
SVE_EFFLUENT	05/07/25	50,300	53,476	53	323	682	<24.1	<29.3	<35.8	<29.3	<278	<611	n/a	<95.2	<37.4	<78.6	51	<123	268	368	633	<2,810	n/a	<25.8	121	<244	<210	n/a	<51.7	<439	<518	<25.8	<25.3	<215	n/a	<112	<310.5	<23.6	677	<83.7	<15.2
SVE_EFFLUENT	07/11/25	47,100	49,176	55	199	427	<9.51	<11.6	<14.1	<11.6	<110	<241	n/a	<37.4	39	<30.9	97	<48.5	356	<80.9	<116	<1,110	n/a	<10.2	<45	<96.3	<82.8	n/a	<20.4	<173	<204	<10.2	<10	<84.7	n/a	<44.1	<122.3	<9.32	903	<33	<6.01
SVE_INFLUENT_BLOWER	09/12/25	8,480	8,963	8	39	104	<1.38	3.02	4.31	<1.68	20.4	<35	n/a	<5.46	10	<4.51	22	<7.06	61.9	<11.8	<16.9	<161	n/a	<1.49	<6.55	<14	18.4	n/a	3.64	<25.2	<29.7	2.3	<1.46	<12.3	n/a	<6.44	5.94	<1.36	179	7	<0.87
SVE_EFFLUENT_BLOWER	09/12/25	16,400	17,475	21	106	265	<4.13	<5.01	<6.13	<5.01	51.4	<105	n/a	<16.3	24	<13.4	55	<21.1	151	<35.1	<50.4	<480	n/a	<4.43	<19.5	<41.8	<35.9	n/a	<8.86	<75.2	<88.6	<4.43	<4.34	<36.8	n/a	<19.2	<53.22	<4.04	384	18	<2.61

Samples before 01/05/2022 were analyzed by Eurofins (TestAmerica) Laboratories. Samples collected on/after 01/05/2022 were analyzed by Contest/Pace Laboratories.
Analytical data from 03/21/2022 sampling may not be representative of site conditions.

J - indicates a laboratory estimated value
n/a - not available

The chemicals listed below were reported below the LRL:

1,1,2 Trichloroethane
1,1,2,2 Tetrachloroethane
1,2 Dibromoethane

1,3 Butadiene
1,4 Dichlorobenzene
1,4-Dioxane

2-Hexanone
4-Ethyltoluene
Benzyl Chloride

Bromodichloromethane
Bromoform
Bromomethane

c 1,3 Dichloropropene
Carbon Disulfide
Chlorobenzene

Dibromochloromethane
Freon 114
Hexachlorobutadiene

Naphthalene
Propene
t 1,3 Dichloropropene

Tert-Butyl Alcohol
Vinyl Acetate



SVE Effluent Recovery
EPA Method TO-15

Date/Time	Flow Rate (CFM)	PID (ppm)	Recovery Rates							
			Tetrachloroethene				Total VOCs			
			(µg/m3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)	(µg/m3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)
10/28/20 12:30 PM	115	5.9	30	1.29E-05	3.10E-04	0	595	2.56E-04	6.15E-03	0
11/25/20 9:40 AM	225	21.9	140,000	0.118	2.8	0.009	142,320	0.120	2.9	0.172
12/14/20 9:50 AM	225	12.6	91,000	0.077	1.8	53.8	92,900	0.078	1.9	54.9
1/14/21 9:50 AM	220	12.6	69,000	0.057	1.4	110.9	69,990	0.058	1.4	113.2
2/4/21 12:15 PM	225	13.4	85,000	0.072	1.7	139.7	86,250	0.073	1.7	142.4
3/3/21 9:30 AM	220	11.2	45,000	0.037	0.9	186.0	45,520	0.038	0.9	189.3
4/6/21 11:50 AM	205	24.7	72,000	0.055	1.3	216.3	73,370	0.056	1.4	220.0
5/11/21 9:30 AM	220	21.9	86,000	0.071	1.7	262.6	86,790	0.072	1.7	267.2
6/11/21 8:10 AM	210	21.0	89,000	0.070	1.7	315.3	91,505	0.072	1.7	320.3
9/8/21 12:40 PM	243	39.6	130,000	0.118	2.8	407.7	131,450	0.120	2.9	415.3
11/10/21 12:00 PM	228	26.0	83,000	0.071	1.7	586.5	85,090	0.073	1.7	596.2
1/5/22 7:58 AM	210	18.1	110,000	0.087	2.1	681.6	120,079	0.094	2.3	693.6
3/21/22 10:30 AM	210	30.1	<1.36	0.000	0.0	-	18	1.42E-05	3.40E-04	-
5/17/22 8:06 AM	230	10.1	71,000	0.061	1.5	955.8	73,254	0.063	1.5	992.9
7/6/22 8:30 AM	225	6.1	87,000	0.073	1.8	1,029	89,997	0.076	1.8	1,069
9/15/22 8:58 AM	230	17.2	40,000	0.034	0.8	1,154	42,000	0.036	0.9	1,198
11/8/22 10:47 AM	228	-	46,000	0.039	0.9	1,199	47,846	0.041	1.0	1,245
1/11/23 8:23 AM	210	21.5	88,000	0.069	1.7	1,259	90,206	0.071	1.7	1,308
3/10/23 6:46 AM	210	10.1	54,000	0.042	1.0	1,355	55,520	0.044	1.0	1,406
5/9/23 9:45 AM	242	10.2	35,000	0.032	0.8	1,417	36,300	0.033	0.8	1,469
7/6/23 8:30 AM	215	16.4	18,000	0.014	0.3	1,461	19,346	0.016	0.4	1,515
9/8/23 8:35 AM	220	15.8	34,000	0.028	0.7	1,483	35,433	0.029	0.7	1,539
11/6/23 8:55 AM	210	14.6	19,000	0.015	0.4	1,523	20,121	0.016	0.4	1,580
1/24/24 9:39 AM	210	14.2	8,700	0.007	0.2	1,551	35,971	0.028	0.7	1,610
3/11/24 8:20 AM	230	12.9	2,800	0.002	0.1	1,559	3,753	0.003	0.1	1,642
5/23/24 8:40 AM	215	12.7	25,000	0.020	0.5	1,563	26,112	0.021	0.5	1,648
7/11/24 8:20 AM	225	15.2	17,000	0.014	0.3	1,587	18,274	0.015	0.4	1,673
9/11/24 9:30 AM	220	21.0	15,000	0.012	0.3	1,608	16,229	0.013	0.3	1,696
11/7/24 8:34 AM	230	18.1	58,300	0.050	1.2	1,625	60,139	0.052	1.2	1,714
1/16/25 12:00 PM	*421	3.4	59,900	0.052	1.2	1,699	61,359	0.053	1.3	1,790
3/11/25 7:38 AM	215	21.6	49,300	0.040	1.0	1,723	51,036	0.041	1.0	1,814
5/7/25 12:00 PM	225	25.4	50,300	0.042	1.0	1,747	53,476	0.045	1.1	1,839
7/11/25 9:05 AM	225	21.4	47,100	0.040	1.0	1,813	49,176	0.041	1.0	1,909
9/12/25 7:56 AM	230	17.7	16,400	0.014	0.3	1,873	17,475	0.015	0.4	1,972
AVERAGE:	218			AVERAGE:	1.1			AVERAGE:	1.1	

Notes:

System downtime occurred from 08/05/2021 to 09/08/2021 for system repairs. 09/08/2021 cumulative lbs estimate accounts for this system downtime period.

Samples before 01/05/2022 were analyzed by Eurofins (TestAmerica) Laboratories. Samples collected on/after 01/05/2022 were analyzed by Contest/Pace Laboratories.

Analytical data from 03/21/2022 sampling may not be representative of site conditions. Cumulative lbs excludes the March 2022 data anomaly.

System downtime occurred beginning 01/06/2025 for SVE pulsing assessment. 01/16/2025 - 05/7/2025 cumulative lbs estimate accounts for this system downtime period.

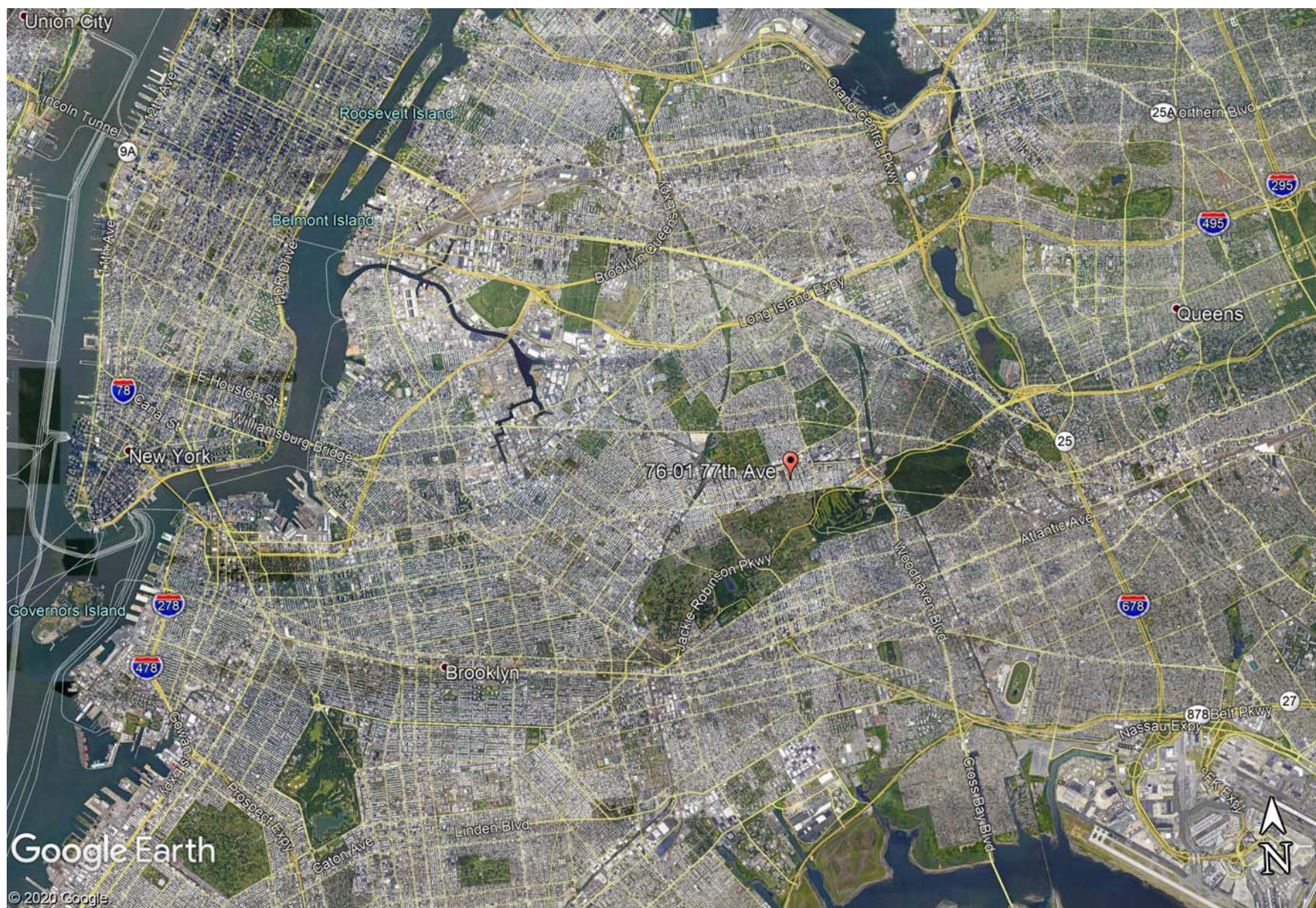
- Reading not collected

*Water detected in lines may have caused an elevated flow rate. Flow rate from the previous site visit used for Recovery Rates Calculations.

FIGURES

FIGURE 1: SITE LOCATION MAP

FIGURE 2: SITE MAP

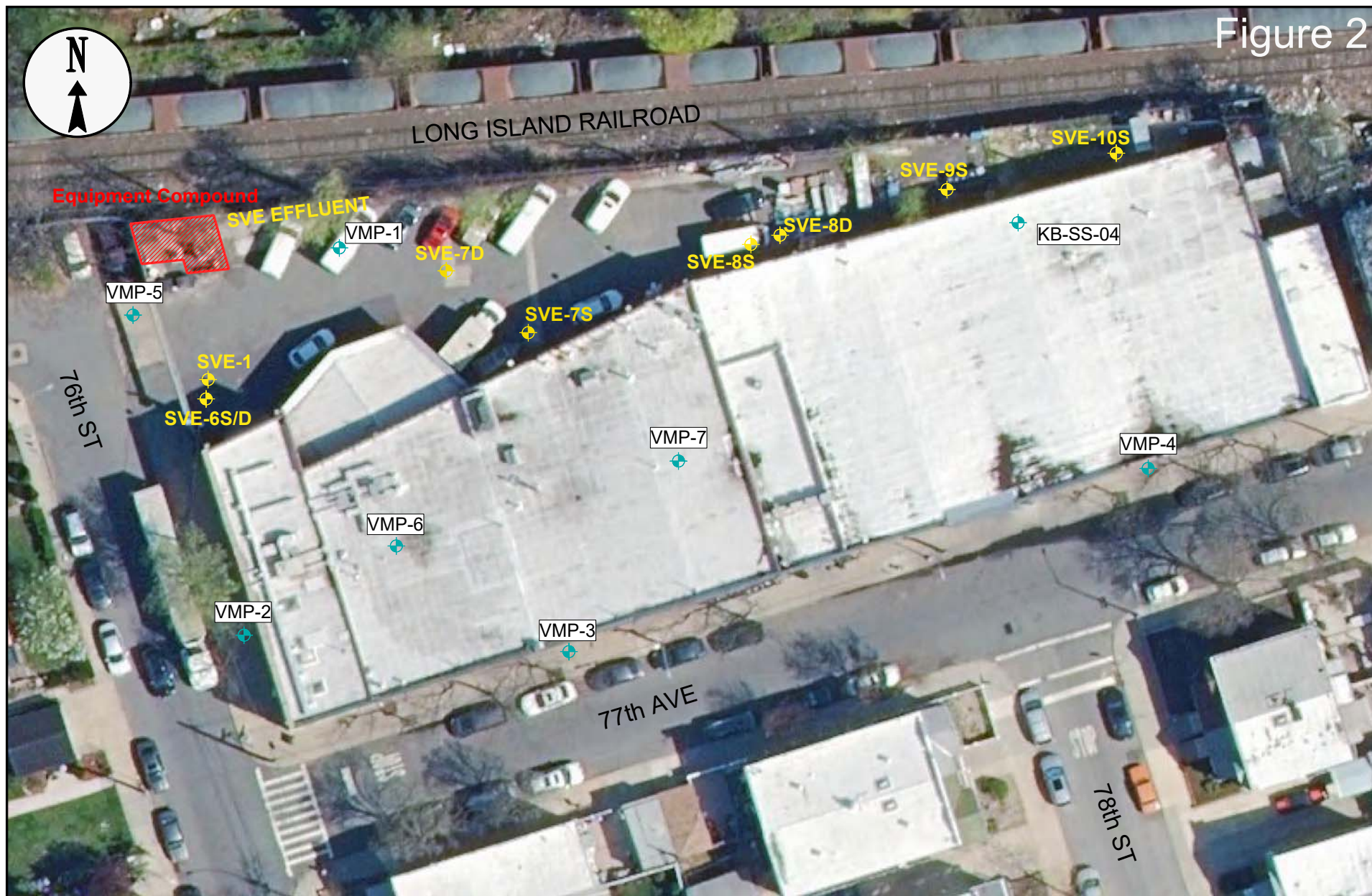


Environmental
Assessment &
Remediations
A LaBella Company

Figure 1
Site Location Map
(Map not to scale)

Kliegman Brothers
76-01 77th Avenue
Glendale, NY
NYSDEC Site #241031

Figure 2



Environmental
Assessment &
Remediations
A LaBella Company

Site Map

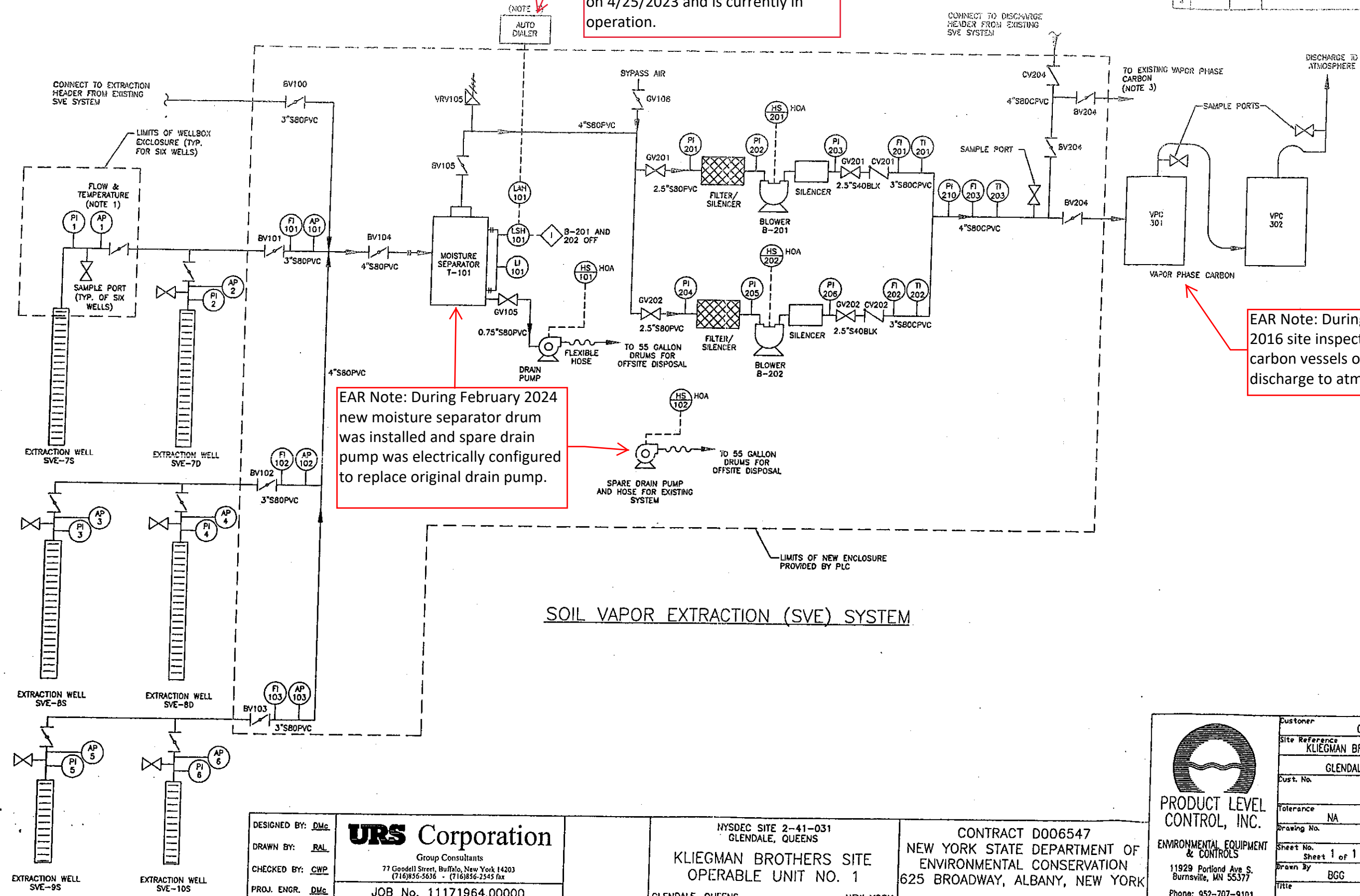
0 40
SCALE IN FEET

76-01 77th Avenue
Glendale, NY
Site No. 241031

APPENDIX A

REVISIONS		
REV	DATE	DESCRIPTION
0		
1		
2		
3		
4		

EAR Note: No autodialer was observed during November 2016 inspection. EAR installed autodialer on 4/25/2023 and is currently in operation.



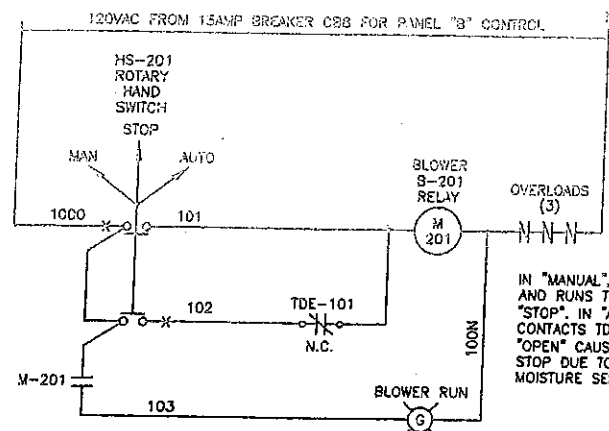
EAR Note: During February 2024 new moisture separator drum was installed and spare drain pump was electrically configured to replace original drain pump.

EAR Note: During November 2016 site inspection noted no carbon vessels on-site; direct discharge to atmosphere.

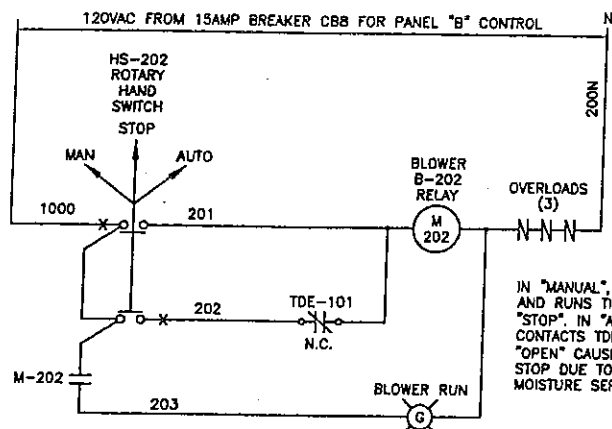
SOIL VAPOR EXTRACTION (SVE) SYSTEM

DESIGNED BY: <u>DMc</u>	URS Corporation Group Consultants 77 Goodell Street, Buffalo, New York 14203 (716)856-5636 - (716)856-2543 fax	NYSDEC SITE 2-41-031 GLENDALE, QUEENS KLIEGMAN BROTHERS SITE OPERABLE UNIT NO. 1 GLENDALE, QUEENS NEW YORK	CONTRACT D006547 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 625 BROADWAY, ALBANY, NEW YORK
DRAWN BY: <u>RAL</u>			
CHECKED BY: <u>CWP</u>			
PROJ. ENGR. <u>DMc</u>			
JOB No. 11171964.00000			

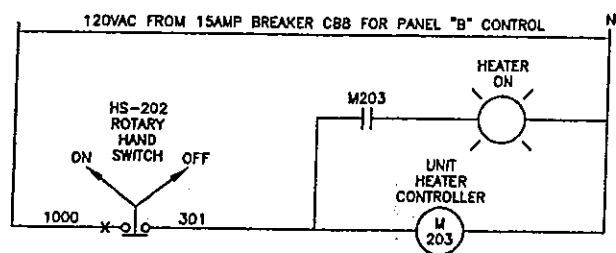
 PRODUCT LEVEL CONTROL, INC. ENVIRONMENTAL EQUIPMENT & CONTROLS 11929 Portland Ave S. Burnsville, MN 55377 Phone: 952-707-9101 Fax: 952-707-1075	Customer	GWIT
	Site Reference	KLIEGMAN BROTHERS UNIT 1
		GLENDALE, QUEENS
	Cust. No.	PLC Job No. 07-050
	Tolerance	NA Rev. 0
	Drawing No.	PID
	Sheet No. Sheet 1 of 1	Scale NA
	Drawn By BGG	Drawn Date 9-21-07
Title		PID



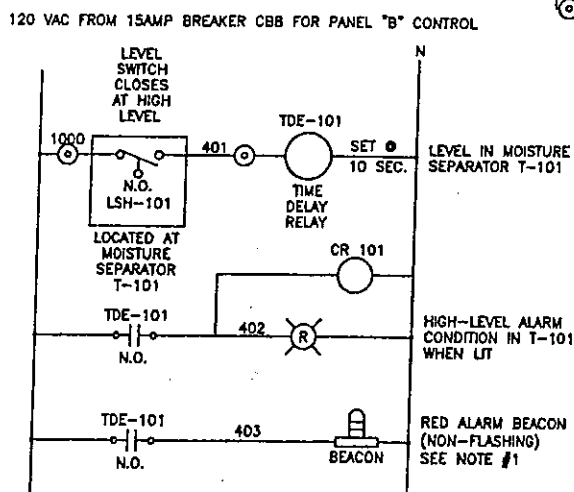
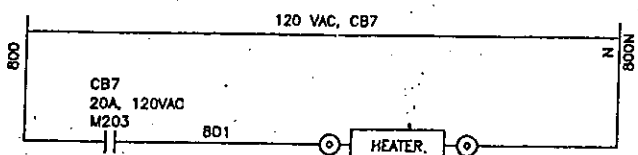
BLOWER B-201 CONTROL CIRCUITS
NOT TO SCALE



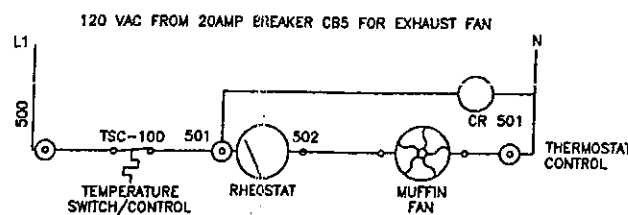
BLOWER B-202 CONTROL CIRCUITS
NOT TO SCALE



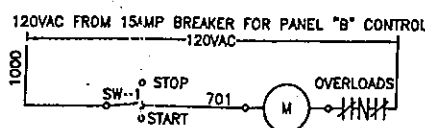
ELECTRIC UNIT HEATER
NOT TO SCALE



CONTROL PANEL "B" ALARM CIRCUITS
NOT TO SCALE



EXHAUST FAN DETAIL
NOT TO SCALE



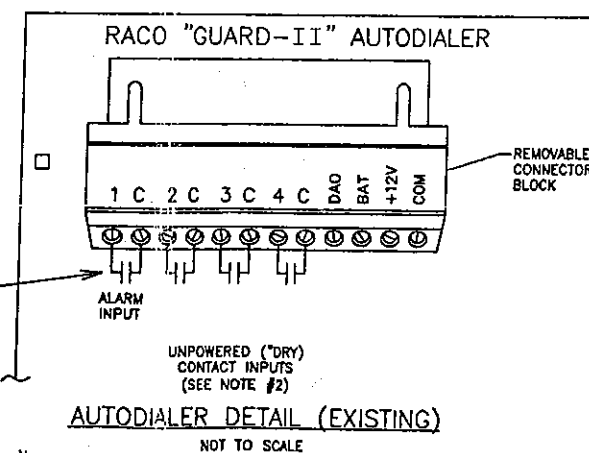
DRAIN PUMP WIRE DETAIL
NOT TO SCALE

- LEGEND**
- ELECTRIC METER
 - TRANSFORMER
 - GROUND
 - CIRCUIT BREAKER
 - NODE
 - PILOT LIGHT (R- RED)
 - SWITCH/DISCONNECT
 - FUSE
 - CONTACT, N.O.
 - CONTACT, N.C.
 - COIL, MOTOR STARTER
 - THERMAL MOTOR OVERLOAD
 - MOTOR LOAD, # INDICATES H.P.
 - FIELD TERMINAL BLOCKS

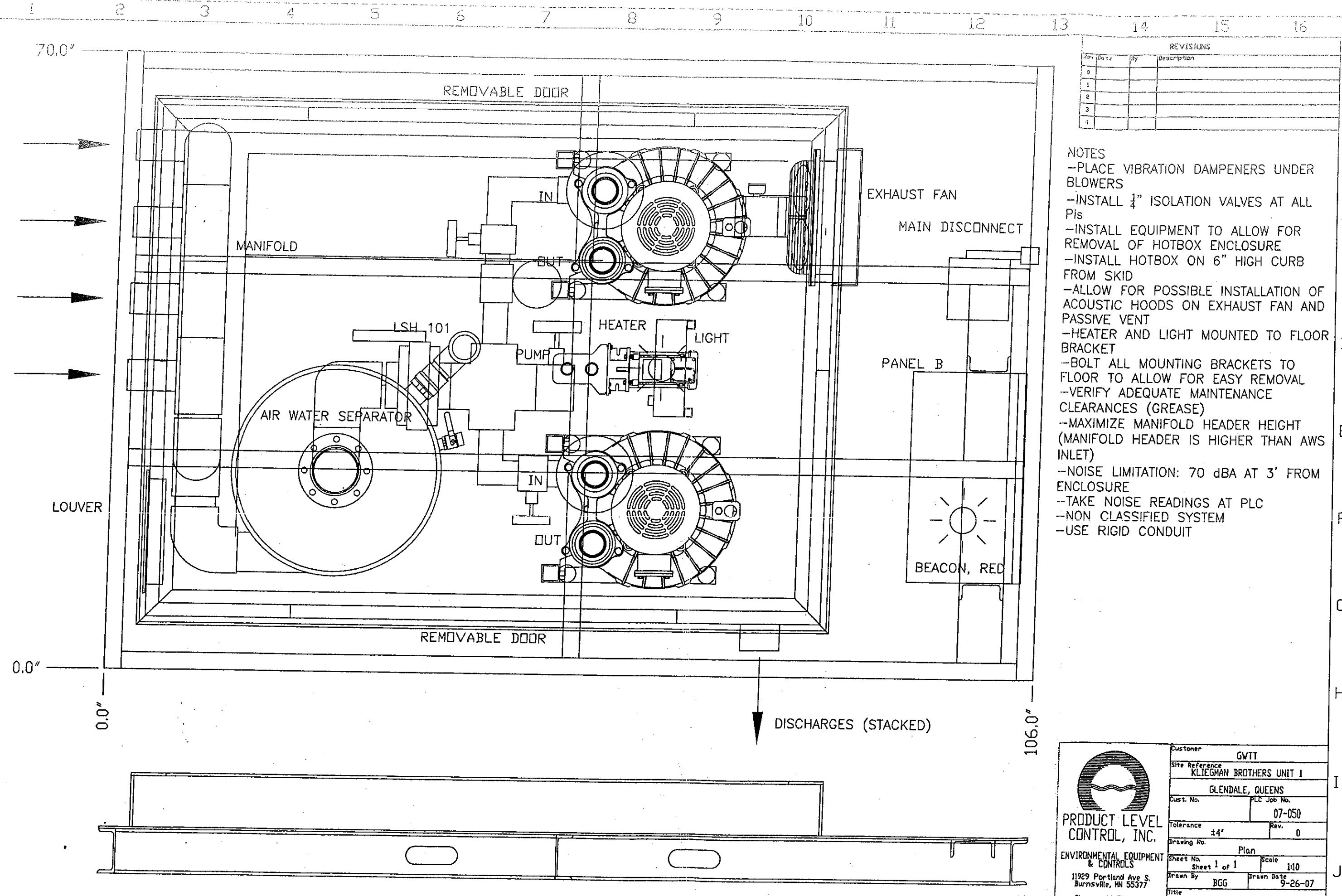
FEEDER SCHEDULE					
OVERCURRENT DEVICE RATING	CONDUCTORS + NEUTRAL 75°C	ECC (E)	SGC (THWN) (S)	CONDUIT 1 PHASE (1)	CONDUIT 3 PHASE (3)
A 20	#12	#12	-	1/2"	1/2"
B 30	#10	#10	-	1/2"	1/2"
C 50	#8	#10	-	3/4"	1"
D 70	#6	#8	-	1"	1"
E 90	#4	#8	-	1 1/2"	1 1/2"
F 125	#2	#6	#8	1 1/2"	1 1/2"
G 150	#1/0	#6	#8	1 1/2"	2"
H 175	#2/0	#6	#8	2"	2"
I 200	#3/0	#6	#8	2"	2 1/2"
J 225	#4/0	#4	#4	2"	2 1/2"

NOTES:

1. MOUNT RED ALARM BEACON IN A CONSPICUOUS LOCATION OUTSIDE TRAILER.
2. THE INPUT SIGNALS TO THE AUTODIALER CAN BE "DRY" CONTACTS, ANALOG, OR DIGITAL LOGIC. "DRY" CONTACTS ARE SHOWN IN WIRING SCHEMATIC. THE WIRING CONNECTIONS SHOWN ARE FOR A RACO "GUARD-II" AUTODIALER.
3. PURCHASE AUTODIALER WITH A.C. TO D.C. TRANSFORMER OR D.C. POWER SUPPLY.



AUTODIALER DETAIL (EXISTING)
NOT TO SCALE



REVISIONS			
Rev	Date	By	Description
0			
1			
2			
3			
4			

- NOTES
- PLACE VIBRATION DAMPENERS UNDER BLOWERS
 - INSTALL 1/4" ISOLATION VALVES AT ALL PIs
 - INSTALL EQUIPMENT TO ALLOW FOR REMOVAL OF HOTBOX ENCLOSURE
 - INSTALL HOTBOX ON 6" HIGH CURB FROM SKID
 - ALLOW FOR POSSIBLE INSTALLATION OF ACOUSTIC HOODS ON EXHAUST FAN AND PASSIVE VENT
 - HEATER AND LIGHT MOUNTED TO FLOOR BRACKET
 - BOLT ALL MOUNTING BRACKETS TO FLOOR TO ALLOW FOR EASY REMOVAL
 - VERIFY ADEQUATE MAINTENANCE CLEARANCES (GREASE)
 - MAXIMIZE MANIFOLD HEADER HEIGHT (MANIFOLD HEADER IS HIGHER THAN AWS INLET)
 - NOISE LIMITATION: 70 dBA AT 3' FROM ENCLOSURE
 - TAKE NOISE READINGS AT PLC
 - NON CLASSIFIED SYSTEM
 - USE RIGID CONDUIT



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ENVIRONMENTAL EQUIPMENT & CONTROLS
11929 Portland Ave S.
Burnsville, MN 55377
Phone: 952-707-9101
Fax: 952-707-1075

Customer	GWTT		
Site Reference	KLIEGHAN BROTHERS UNIT 1		
	GLENDALE, QUEENS		
Cust. No.	PLC Job No.	07-050	
Tolerance	±4"	Rev.	0
Drawing No.	Plan		
Sheet No.	Sheet 1 of 1	Scale	1:10
Drawn By	BGG	Drawn Date	9-26-07
Title	Plan		

APPENDIX B

