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ENVIRONMENTAL  
ASSESSMENT &  
REMEDIATIONS

February 5, 2024

Jolene Lozewski, P.G.  
New York State Department of Environmental Conservation  
625 Broadway, 12<sup>th</sup> floor  
Albany, NY 12233

**RE: 123 Post Avenue, NYSDEC Site No. 130088 - Monthly O&M Summary**

Dear Ms. Lozewski:

This document represents the monthly operation & maintenance (O&M) summary for the soil vapor extraction (SVE) system currently operating at the above referenced site. The report summarizes the maintenance and monitoring activities conducted in January 2024.

### **Routine Operation & Maintenance**

Routine O&M activities were conducted on 1/5/24 & 1/19/24. O&M activities include the collection of operating data such as system vacuum/pressures and air flow rates. During the routine site visits, mechanical components are checked and serviced accordingly. Concentrations of volatile organic compounds (VOCs) in the system's airstream are monitored at key locations using a photo-ionization detector (PID). Prior to use, the PID is calibrated using a 100 ppm isobutylene standard and ambient air. System effluent air samples are collected on a quarterly basis.

### **O&M Summary**

**1/5/24** – EAR responded to a system alarm received 1/4/24 at 08:25. The system was found off upon arrival to the site due to a high-level condition at the moisture separator tank. The tank was drained of approximately 5-10 gallons and the system was restarted. Routine O&M was conducted. The system was operating upon departure from the site. The site data information sheet for 1/5/24 is provided in Appendix A.

**1/19/24** – EAR was onsite to conduct routine O&M. The system was operating upon arrival to and departure from the site. The moisture separator tank was drained of approximately 3 gallons. The site data information sheet for 1/19/24 is provided in Appendix A.



Total system uptime for January 2024 is 97%.

System monitoring data for the time period covered in this report is summarized in Table 1.

### **System Air Sampling**

System air sampling was last conducted on 11/10/23. No system air samples were collected for laboratory analysis during this reporting period.

Should you have any questions regarding the activities or data detailed in this report, please feel free to contact me at 631.241.8741.

Sincerely,

A handwritten signature in black ink, appearing to read 'I. Hofmann', written over a light gray rectangular background.

Ian Hofmann  
Project Manager

Cc:

S. Bogardus (DOH)

J. Lawrence (EAR)



## **TABLES**

Table 1: System Monitoring Log





## **Appendix A: Site Data Information Sheets**

# 130088  
 123 POST AVENUE  
 WESTBURY, NY 11590

O&M CHECKLIST - SVE SYSTEM

Date: 1/5/24

Inspected By: JB

System:  
 SVE Vacuum Relief Valve:  
 Hour Meter (Hours):

Arrival  
 On / Off  
 Open / Closed  
14182.7 @

Departure  
On / Off  
 Open / Closed  
11:32

SVE SYSTEM

Liquid Present in Moisture Separator? Amount?	Yes / No;	<i>~10g ~5-10gal</i>
Moisture Separator Emptied?	Yes / No	
Moisture Disposal Drum	F / 75 / 50 / <u>25</u> / E	
Particulate Filter Inspected?	Yes / No	
Particulate Filter Require Cleaning or Replacement?	Yes / <u>No</u>	
Condition of SVE Shed?	<u>good</u>	
Vegetation Require Maintenance?	Yes / <u>No</u>	
Any Evidence of System Tampering, Vandalism or Damage?	Yes / <u>No</u>	
Exhaust Stack in Good Condition?	Yes / No	

SVE WELL READINGS

SVE Well #	Air Flow (cfm)	Vacuum ("H2O)	PID (ppm)	Flow Control (Ball) Valve	Condition of Well?
RW1-S	<u>40</u>	<u>-18</u>	<u>0</u>	<u>0</u> / 75 / 50 / 25 / C	
RW2-S	<u>75</u>	<u>-11</u>	<u>0.5</u>	<u>0</u> / 75 / 50 / 25 / C	
RW3-S	<u>72</u>	<u>-10</u>	<u>0.3</u>	<u>0</u> / 75 / 50 / 25 / C	
RW4-S	<u>19</u>	<u>-20</u>	<u>0</u>	<u>0</u> / 75 / 50 / 25 / C	

SVE MONITORING POINTS

	Vacuum ("H2O)		Vacuum ("H2O)	Notes
SV-1	<u>-.80</u>	SS-1	<u>-.12</u>	
SV-2	<u>-.67</u>	SS-2	<u>-.14</u>	
SV-3	<u>-.75</u>			

SVE SYSTEM DATA

	Moisture Separator	Pre-Blower (Influent)	Post-Blower (Effluent)	Notes
Vacuum ("H2O)	<u><del>0</del> -20</u>	<u>-30</u>		
Pressure ("H2O)			<u>+2.1</u>	
Air Flow (cfm)		<u>170</u>	<u>175</u>	
PID (ppm)			<u>0.4</u>	
Temp (F)		<u>-</u>	<u>80</u>	

CARBON SYSTEM DATA

	Pre-Carbon	Between Carbon	Post-Carbon	Notes
Air Flow (cfm)			<u>-</u>	
PID (ppm)	<u>-</u>	<u>-</u>	<u>-</u>	

SVE RADIUS OF INFLUENCE

Piezometer ID	Vacuum ("H2O)	Notes
MW-1	<u>-1.4</u>	
MW-2	<u>-</u>	
MW-3	<u>-</u>	

Attached Photographs

*system restarted @ 11:32*



# 130088  
 123 POST AVENUE  
 WESTBURY, NY 11590

**O&M CHECKLIST - SVE SYSTEM**

Date: 1/19/24

Inspected By: JB

System:

SVE Vacuum Relief Valve:

Hour Meter (Hours):

Arrival

On /  Off

Open /  Closed

Departure

On /  Off

Open /  Closed

14514.5 @ 7:23

**SVE SYSTEM**

Liquid Present in Moisture Separator? Amount?	<input checked="" type="radio"/> Yes / <input type="radio"/> No; ~ 3 gal
Moisture Separator Emptied?	<input checked="" type="radio"/> Yes / <input type="radio"/> No
Moisture Disposal Drum	F / 75 / 50 / <input checked="" type="radio"/> 25 / E
Particulate Filter Inspected?	<input checked="" type="radio"/> Yes / <input type="radio"/> No
Particulate Filter Require Cleaning or Replacement?	Yes / <input checked="" type="radio"/> No
Condition of SVE Shed?	<u>Good</u>
Vegetation Require Maintenance?	Yes / <input checked="" type="radio"/> No
Any Evidence of System Tampering, Vandalism or Damage?	Yes / <input checked="" type="radio"/> No
Exhaust Stack in Good Condition?	<input checked="" type="radio"/> Yes / <input type="radio"/> No

**SVE WELL READINGS**

SVE Well #	Air Flow (cfm)	Vacuum ("H2O)	PID (ppm)	Flow Control (Ball) Valve	Condition of Well?
RW1-S	37	-18	0.1	<input checked="" type="radio"/> / 75 / 50 / 25 / C	
RW2-S	74	-12	1.2	<input checked="" type="radio"/> / 75 / 50 / 25 / C	
RW3-S	70	-11	1.4	<input checked="" type="radio"/> / 75 / 50 / 25 / C	
RW4-S	20	-21	0	<input checked="" type="radio"/> / 75 / 50 / 25 / C	

**SVE MONITORING POINTS**

	Vacuum ("H2O)		Vacuum ("H2O)	Notes
SV-1	- .70	SS-1	- .12	
SV-2	- .64	SS-2	- .14	
SV-3	- .81			

**SVE SYSTEM DATA**

	Moisture Separator	Pre-Blower (Influent)	Post-Blower (Effluent)	Notes
Vacuum ("H2O)	- 25	- 33		
Pressure ("H2O)			+ 2.4	
Air Flow (cfm)		170	175	
PID (ppm)			1.2	
Temp (F)		/	72	

**CARBON SYSTEM DATA**

	Pre-Carbon	Between Carbon	Post-Carbon	Notes
Air Flow (cfm)			/	
PID (ppm)	/	/	/	

**SVE RADIUS OF INFLUENCE**

Piezometer ID	Vacuum ("H2O)	Notes
MW-1	- 1.3	
MW-2	/	
MW-3	/	

Attached Photographs