



Tom Antonoff
Senior Project Manager

GE
Global Operations - EHS
1 River Road – Bldg 5-7W
Schenectady, NY 12345

T 518-388-4142
C 518-796-5971
tom.antonoff@ge.com

Mr. Dean Yasuda
Washington State Department of Ecology
Hazardous Waste and Toxics Reduction program
Northwest Regional Office
3190 160th Avenue S.E.
Bellevue, Washington 98008

April 16, 2018

Dear Mr. Yasuda:

Please find attached the Quarterly Progress Report for January through March 2018 for the former General Electric South Dawson Street Site in Seattle, WA.

Should you have any questions or concerns regarding the information presented in this report, please do not hesitate to call me at (518) 796-5971 or Jason Palmer at (206) 403-4203.

Sincerely,

A handwritten signature in blue ink that reads 'Tom Antonoff'.

Tom Antonoff
Project Manager – Remediation

Attachment – Quarterly Progress Report: January – March 2018

cc:

Andy Fitz, State of Washington Attorney General's Office (via e-mail)
Bill Teplicky, McKinstry (via e-mail)
Jim Blais, Gary Merlino Construction Co. Inc. (via e-mail)
Tong Li, Ground Water Solutions
Linda Baker, Integral (via e-mail)
Jason Palmer, AECOM



AECOM
1111 3rd Avenue, Suite 1600
Seattle, WA 98101

206.438.2700 tel
866.495.5288 fax

April 16, 2018

Mr. Dean Yasuda
Washington State Department of Ecology
Hazardous Waste and Toxics Reduction program
Northwest Regional Office
3190 160th Avenue S.E.
Bellevue, Washington 98008

**Subject: Quarterly Progress Report for the former General Electric South Dawson Street Site
January through March 2018 Reporting Period**

Dear Mr. Yasuda:

This Progress Report was prepared on behalf of General Electric (GE) to describe the activities performed at the former GE South Dawson Street site (site) in accordance with Consent Decree (CD) No. 14-2-09134-6 dated March 31, 2014. This quarterly progress report covers the activities conducted from January through March 2018, as well as activities planned for April 2018.

Work Performed Since Last Progress Report (January through March 2018)

Operation of the Groundwater Extraction System

Operation of the groundwater extraction system continued during the reporting period. Routine equipment inspection and totalizer readings were performed approximately weekly during the reporting period. The routine equipment inspection and regular maintenance, including periodic pump cleaning/change outs, wire brushing, clearing of local piping, sewer jetting, acid recirculation, and discharge valve adjustments at recovery wells RW-2 and RW-3, were performed on January 4, January 11, January 18, January 25, February 1, February 7, February 13, February 22, March 1, March 5, March 12, March 16, March 22, and March 31. The average total flow of the groundwater extraction system during this reporting period was approximately 15.50 gallons per minute (gpm).

Groundwater extraction rates during the first quarter of 2018 are shown below in Table 1.

Table 1. Discharge Rates at GE 220 S Dawson (gallons per minute) – First Quarter 2018

Inspection Date	Flow Readings (GPM)						Corrective Actions Taken
	Initial			Corrected			
	RW-2	RW-3	Total Flow	RW-2	RW-3	Total Flow	
1/4/2018	6.4	8.2	14.6	6.8	8.9	15.7	Cleaned RW-3 pump head screen.
1/11/2018	6.6	7.3	13.9	6.6	9.7	16.3	Cleaned RW-3 pump head screen and local piping system.
1/18/2018	6.5	9.1	15.5	6.5	9.1	15.5	No action taken.
1/25/2018	5.9	8.6	14.5	6.7	9.6	16.2	Performed an acid recirculation on RW-2 & 3.
2/1/2018	6.7	8.6	15.2	6.7	9.0	15.7	Wire brushed RW-3 pump screen.
2/7/2018	6.5	8.3	14.8	6.5	8.5	15.0	Wire brushed RW-3 pump screen.
2/13/2018	6.4	8.0	14.4	6.4	8.0	14.4	Flow rate collected during annual GW sampling.
2/22/2018	5.5	6.5	12.0	6.4	10.4	16.7	Performed an acid recirculation on RW-2 & 3.
3/1/2018	6.3	7.3	13.6	6.8	7.8	14.6	Wire brushed RW-3 pump screen.
3/5/2018	6.1	6.1	12.2	6.8	7.8	14.5	Cleared RW-3 local piping system, and replaced pump head.
3/12/2018	6.7	6.6	13.3	6.8	7.1	13.8	Wire brushed RW-3 pump screen.
3/16/2018	6.6	6.1	12.7	6.4	10.4	16.8	NRC performed sewer jetting on RW-1, 2, & 3.
3/22/2018	5.9	10.5	16.3	5.9	10.5	16.3	No action taken.
3/31/2018	4.2	10.1	14.3	6.7	10.1	16.8	Wire brushed RW-2 pump screen.

Notes:

1. Initial and adjusted flows are shown for both RW-2 and RW-3. The total flow is the sum of the flows from each recovery well.
2. Bold values indicate flow rates below design criteria.
3. Numbers are rounded to one decimal place.

Quarterly Groundwater Monitoring

The annual groundwater sampling was conducted on February 13 through February 16, 2018. During the sampling event, the site wide monitoring wells were sampled for routine volatile organic compounds (VOCs) analysis. The results of the groundwater sampling event will be submitted to Ecology in April 2018 as part of the February 2018 Annual Groundwater Monitoring Report.

Indoor Air Pathway Evaluation – Vapor Intrusion Mitigation System (VIMS)

The following Vapor Intrusion Mitigation System (VIMS) inspections were performed during the First quarter of 2018.

- January 18 – Annual Inspection
- February 7 – Monthly Inspection
- March 12 – Monthly Inspection

The monthly inspections included a visual inspection and reading of each U-tube manometer to determine whether the vacuum at each sump manometer was stable, increasing or decreasing; visual and auditory inspection of the fans on the roof and pipes for leaks; and a brief discussion with the tenants that operate the part of the building where the VIMS is installed. The system was in good working order during each inspection, and no action was required. Copies of the inspection forms are included in Attachment A.

Coordination with Ecology and Stakeholders

GE coordinated with Ecology and on the following issues and documents during the 1Q2018 reporting period.

- On January 9, GE submitted field monitoring results and groundwater monitoring data to Ecology for the persulfate cylinder study.
- On January 15, GE submitted the 4Q2017 Quarterly Progress Report to Ecology.
- On January 22, GE provided Ecology with meeting materials for the January 23 project conference call to discuss the path forward for the site.
- On January 28, GE provided Ecology with contact information for Heather Downey (McKinstry).
- On February 15, GE submitted the January 2018 Monthly Progress Report to Ecology.
- On February 16, GE provided a proposed schedule to Ecology for expediting the contingent remedy process for the site.
- On March 5 and 8, GE provided Ecology with meeting materials for the March 8 conference call to discuss alternative remedies for the site.
- On March 5, GE provided Ecology with the February groundwater sampling results for the persulfate cylinder study.
- On March 7, GE submitted the February 2018 Monthly Progress Report to Ecology.
- On March 8, GE and Ecology held a conference call to discuss alternative remedies for the site.
- On March 22, GE provided Ecology with a proposed schedule for implementing a contingent remedy at the site.
- On March 26, GE submitted an addendum to the ISCO Pilot Study Completion Report with details on the persulfate cylinder results.

Remedy Implementation

- GE collected groundwater samples at wells MW-25 and MW-28 as part of the February OMM groundwater sampling event to evaluate whether the persulfate cylinders have caused a decrease in TCE concentrations.

Problems or Deviations from the Consent Decree

There were no significant issues or schedule delays encountered during the work described above, and there are no anticipated issues or delays for future work.

Projected Work for April 2018

During April 2018 we anticipate completing the following work:

- Routine O&M on the groundwater recovery system – ongoing.
- Routine VIMS performance inspection – ongoing.
- Submit the February 2018 Quarterly Groundwater Monitoring Report to Ecology.
- Submit the 1Q2018 Quarterly Progress Report to Ecology.
- Raise MW-17M and MW-17D well monuments to the new street grade.
- Coordination with Ecology on a contingent remedy for the site.
- Coordination with Ecology on relocating RW-3 to the west side of the McKinstry buildings.

The next monthly progress report will be submitted by May 15, 2018. Should you have any questions or comments, please call me at (206) 403-4203 or Tom Antonoff at (518) 796-5971.

Yours sincerely,



Jason Palmer
Project Manager

Attachment A VIMS 1Q2018 Inspection Forms

cc: Please see the attached cover letter.

Attachment A

**VIMS 1Q2018 Inspection
Forms**



**VAPOR SYSTEM INSPECTION FORM
ANNUAL INSPECTION**

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Performed by: Abdulghani Subhan Date: 1-18-18 Time: 1300
 Performed by: _____

Piping Check – VIMS-1/5A/5B¹

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<input checked="" type="checkbox"/>		
Piping system is properly supported?	<input checked="" type="checkbox"/>		
Audible or visual evidence of pipe leaks?		<input checked="" type="checkbox"/>	
Excessive noise is heard in piping joints?		<input checked="" type="checkbox"/>	
Valve(s) & manometer(s) installed properly?	<input checked="" type="checkbox"/>		
Correct labels applied in proper location?	<input checked="" type="checkbox"/>		
If accessible, concrete joint seals worn or cracked?		<input checked="" type="checkbox"/>	

Piping Check – VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<input checked="" type="checkbox"/>		
Piping system is properly supported?	<input checked="" type="checkbox"/>		
Audible or visual evidence of pipe leaks?		<input checked="" type="checkbox"/>	
Excessive noise is heard in piping joints?		<input checked="" type="checkbox"/>	
Valve(s) & manometer(s) installed properly?	<input checked="" type="checkbox"/>		
Correct labels applied in proper location?	<input checked="" type="checkbox"/>		
If accessible, concrete joint seals worn or cracked?		<input checked="" type="checkbox"/>	

Piping Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<input checked="" type="checkbox"/>		
Piping system is properly supported?	<input checked="" type="checkbox"/>		
Audible or visual evidence of pipe leaks?		<input checked="" type="checkbox"/>	
Excessive noise is heard in piping joints?		<input checked="" type="checkbox"/>	
Valve(s) & manometer(s) installed properly?	<input checked="" type="checkbox"/>		
Correct labels applied in proper location?	<input checked="" type="checkbox"/>		
If accessible, concrete joint seals worn or cracked?		<input checked="" type="checkbox"/>	

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments:

The VIMS system is running Fine.



VAPOR SYSTEM INSPECTION FORM ANNUAL INSPECTION

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Electrical Check – VIMS-1/5A/5B¹, VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Excessive noise heard when fan is running?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electrical junction box all closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical conduit properly supported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct labels applied in proper location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Electrical Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Excessive noise heard when fan is running?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electrical junction box all closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical conduit properly supported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct labels applied in proper location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Roof Check – VIMS-1/5A/5B¹, VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Fan in operation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excessive noise heard when fan is running?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System suction points are sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are all anchors/supports correctly installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping system is properly supported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct labels applied in proper location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Roof Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Fan in operation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excessive noise heard when fan is running?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
System suction points are sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are all anchors/supports correctly installed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping system is properly supported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct labels applied in proper location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments



VAPOR SYSTEM INSPECTION FORM
ANNUAL INSPECTION

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Tenant Interview

Name: Larry Burgher

Contact Information: 206-510-3004

Ron Paquin

206-391-3778

Any problems with conducting business with the VIMS running?

Yes No
_____ ✓

VIMS problems noticed?

_____ ✓

Damage to any part of the VIMS?

_____ ✓

VIMS accessible?

✓ _____

Have the following items changed since the last monthly visit?

- Building support structures or footprint
- Heating/Ventilating Systems
- Drains, Sumps, Floor Cracks, Concrete Joint Seals
- Wall Penetrations, Cracks

_____ ✓
 _____ ✓
 _____ ✓
 _____ ✓

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments



**VAPOR SYSTEM INSPECTION FORM
ANNUAL INSPECTION**

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Manometer Readings

	Pressure (inches of water)			Variation \geq 1.0 inch of water Compared to Previous Month?	
	<u>Left Side</u>	<u>Right Side</u>	<u>Total</u>	<u>Yes*</u>	<u>No</u>
VIMS-1/5A/5B ¹	<u>2.70</u>	<u>3.0</u>	<u>5.70</u>	_____	<u>✓</u>
VIMS-4	<u>2.50</u>	<u>2.85</u>	<u>5.35</u>	_____	<u>✓</u>
VIMS-3	<u>2.55</u>	<u>2.80</u>	<u>5.35</u>	_____	<u>✓</u>

Previous Month's Manometer Readings

	Pressure (inches of water)		
	<u>Left Side</u>	<u>Right Side</u>	<u>Total</u>
VIMS-1/5A/5B ¹	<u>2.70</u>	<u>3.0</u>	<u>5.70</u>
VIMS-4	<u>2.55</u>	<u>2.75</u>	<u>5.30</u>
VIMS-3	<u>2.60</u>	<u>2.70</u>	<u>5.30</u>

* If yes, variation \geq 1.0 inch of water compared to previous month, please complete the following:

Was repair made within 7 days?	<u>NA</u>	<u>Yes</u>	<u>No*</u>
VIMS-1/5A/5B ¹	_____	_____	_____
VIMS-4	_____	_____	_____
VIMS-3	_____	_____	_____

Please provide the corrective actions made, or recommended repair or modification needed.

* If no, notification to Ecology by phone and email is required within 7 calendar days after the observation is made.

¹ VIMS-1/5A/5B represents the combined piping associated with each of these locations. Individual manometers are not installed on VIMS-1, VIMS-5A, and VIMS-5B.



**VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION**

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Performed by: Abdulkhaleq Subeda Date: 02-07-18 Time: 1000
 Performed by: _____

Piping Check – VIMS-1/5A/5B¹

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<u>✓</u>		
Piping system is properly supported?	<u>✓</u>		
Audible or visual evidence of pipe leaks?			
Excessive noise is heard in piping joints?		<u>✓</u>	
Valve(s) & manometer(s) installed properly?	<u>✓</u>		
Correct labels applied in proper location?	<u>✓</u>		
If accessible, concrete joint seals worn or cracked?		<u>✓</u>	

Piping Check – VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<u>✓</u>		
Piping system is properly supported?	<u>✓</u>		
Audible or visual evidence of pipe leaks?			
Excessive noise is heard in piping joints?		<u>✓</u>	
Valve(s) & manometer(s) installed properly?	<u>✓</u>		
Correct labels applied in proper location?	<u>✓</u>		
If accessible, concrete joint seals worn or cracked?		<u>✓</u>	

Piping Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<u>✓</u>		
Piping system is properly supported?	<u>✓</u>		
Audible or visual evidence of pipe leaks?			
Excessive noise is heard in piping joints?		<u>✓</u>	
Valve(s) & manometer(s) installed properly?	<u>✓</u>		
Correct labels applied in proper location?	<u>✓</u>		
If accessible, concrete joint seals worn or cracked?		<u>✓</u>	

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments:

The VIMS system is running good.



**VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION**

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Electrical Check – VIMS-1/5A/5B¹, VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Excessive noise heard when fan is running?	_____	✓ _____	_____
Electrical junction box all closed?	_____	_____	_____
Electrical conduit properly supported?	✓ _____	_____	_____
Correct labels applied in proper location?	✓ _____	_____	_____

Electrical Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Excessive noise heard when fan is running?	_____	✓ _____	_____
Electrical junction box all closed?	_____	_____	_____
Electrical conduit properly supported?	✓ _____	_____	_____
Correct labels applied in proper location?	✓ _____	_____	_____

Roof Check – VIMS-1/5A/5B¹, VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Fan in operation?	✓ _____	_____	_____
Excessive noise heard when fan is running?	_____	✓ _____	_____
System suction points are sealed?	_____	_____	_____
Are all anchors/supports correctly installed?	✓ _____	_____	_____
Piping system is properly supported?	✓ _____	_____	_____
Correct labels applied in proper location?	✓ _____	_____	_____

Roof Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Fan in operation?	✓ _____	_____	_____
Excessive noise heard when fan is running?	_____	✓ _____	_____
System suction points are sealed?	_____	_____	_____
Are all anchors/supports correctly installed?	✓ _____	_____	_____
Piping system is properly supported?	✓ _____	_____	_____
Correct labels applied in proper location?	✓ _____	_____	_____

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments



VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Tenant Interview

Name: Larry Burgher

Contact Information: 206-510-3004

Ron Paquin

206-391-3778

Any problems with conducting business with the VIMS running?

VIMS problems noticed?

Damage to any part of the VIMS?

VIMS accessible?

Have the following items changed since the last monthly visit?

- Building support structures or footprint
- Heating/Ventilating Systems
- Drains, Sumps, Floor Cracks, Concrete Joint Seals
- Wall Penetrations, Cracks

<u>Yes</u>	<u>No</u>
_____	_____ <input checked="" type="checkbox"/>
_____	_____ <input checked="" type="checkbox"/>
_____	_____ <input checked="" type="checkbox"/>
_____ <input checked="" type="checkbox"/>	_____
_____	_____ <input checked="" type="checkbox"/>
_____	_____ <input checked="" type="checkbox"/>
_____	_____ <input checked="" type="checkbox"/>
_____	_____ <input checked="" type="checkbox"/>

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments



**VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION**

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Manometer Readings

	Pressure (inches of water)			Variation \geq 1.0 inch of water Compared to Previous Month?	
	<u>Left Side</u>	<u>Right Side</u>	<u>Total</u>	<u>Yes*</u>	<u>No</u>
VIMS-1/5A/5B ⁱ	<u>2.70</u>	<u>3.0</u>	<u>5.70</u>	_____	<u>✓</u>
VIMS-4	<u>2.50</u>	<u>2.90</u>	<u>5.40</u>	_____	<u>✓</u>
VIMS-3	<u>2.55</u>	<u>2.80</u>	<u>5.35</u>	_____	<u>✓</u>

Previous Month's Manometer Readings

	Pressure (inches of water)		
	<u>Left Side</u>	<u>Right Side</u>	<u>Total</u>
VIMS-1/5A/5B ⁱ	<u>2.70</u>	<u>3.0</u>	<u>5.70</u>
VIMS-4	<u>2.55</u>	<u>2.75</u>	<u>5.30</u>
VIMS-3	<u>2.60</u>	<u>2.70</u>	<u>5.30</u>

* If yes, variation \geq 1.0 inch of water compared to previous month, please complete the following:

Was repair made within 7 days?	<u>NA</u>	<u>Yes</u>	<u>No*</u>
VIMS-1/5A/5B ⁱ	_____	_____	_____
VIMS-4	_____	_____	_____
VIMS-3	_____	_____	_____

Please provide the corrective actions made, or recommended repair or modification needed.

* If no, notification to Ecology by phone and email is required within 7 calendar days after the observation is made.

ⁱ VIMS-1/5A/5B represents the combined piping associated with each of these locations. Individual manometers are not installed on VIMS-1, VIMS-5A, and VIMS-5B.



VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Performed by: Abdelghany Selwan Date: 03-12-18 Time: 1030

Performed by: _____

Piping Check – VIMS-1/5A/5B¹

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping system is properly supported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Audible or visual evidence of pipe leaks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Excessive noise is heard in piping joints?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Valve(s) & manometer(s) installed properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct labels applied in proper location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If accessible, concrete joint seals worn or cracked?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Piping Check – VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping system is properly supported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Audible or visual evidence of pipe leaks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Excessive noise is heard in piping joints?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Valve(s) & manometer(s) installed properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct labels applied in proper location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If accessible, concrete joint seals worn or cracked?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Piping Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
System suction points are sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Piping system is properly supported?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Audible or visual evidence of pipe leaks?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Excessive noise is heard in piping joints?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Valve(s) & manometer(s) installed properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct labels applied in proper location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If accessible, concrete joint seals worn or cracked?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments:

The VIMS system is working fine.



**VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION**

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Electrical Check – VIMS-1/5A/5B¹, VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Excessive noise heard when fan is running?	_____	_____ ✓	_____
Electrical junction box all closed?	_____ ✓	_____	_____
Electrical conduit properly supported?	_____ ✓	_____	_____
Correct labels applied in proper location?	_____ ✓	_____	_____

Electrical Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Excessive noise heard when fan is running?	_____	_____ ✓	_____
Electrical junction box all closed?	_____ ✓	_____	_____
Electrical conduit properly supported?	_____ ✓	_____	_____
Correct labels applied in proper location?	_____ ✓	_____	_____

Roof Check – VIMS-1/5A/5B¹, VIMS-4

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Fan in operation?	_____ ✓	_____	_____
Excessive noise heard when fan is running?	_____	_____ ✓	_____
System suction points are sealed?	_____ ✓	_____	_____
Are all anchors/supports correctly installed?	_____ ✓	_____	_____
Piping system is properly supported?	_____ ✓	_____	_____
Correct labels applied in proper location?	_____ ✓	_____	_____

Roof Check – VIMS-3

	<u>Yes</u>	<u>No</u>	<u>Not Accessible</u>
Fan in operation?	_____ ✓	_____	_____
Excessive noise heard when fan is running?	_____	_____ ✓	_____
System suction points are sealed?	_____ ✓	_____	_____
Are all anchors/supports correctly installed?	_____ ✓	_____	_____
Piping system is properly supported?	_____ ✓	_____	_____
Correct labels applied in proper location?	_____ ✓	_____	_____

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments



VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Tenant Interview

Name: Larry Burgher

Contact Information: 206-510-3004

Ron Paquin

206-391-3778

Any problems with conducting business with the VIMS running?

Yes No

VIMS problems noticed?

Damage to any part of the VIMS?

VIMS accessible?

Have the following items changed since the last monthly visit?

- Building support structures or footprint
- Heating/Ventilating Systems
- Drains, Sumps, Floor Cracks, Concrete Joint Seals
- Wall Penetrations, Cracks

If modifications/corrective actions were needed, please provide the observations made, the corrective actions/modifications made or recommended repair or modifications needed.

Other Comments



**VAPOR SYSTEM INSPECTION FORM
MONTHLY INSPECTION**

Sub-Slab Soil Vapor Depressurization System
220 South Dawson Street, Seattle, Washington

VIMS-1, VIMS-3, VIMS-4, VIMS-5A, VIMS-5B

Manometer Readings

	Pressure (inches of water)			Variation \geq 1.0 inch of water Compared to Previous Month?	
	<u>Left Side</u>	<u>Right Side</u>	<u>Total</u>	<u>Yes*</u>	<u>No</u>
VIMS-1/5A/5B ⁱ	<u>2.65</u>	<u>2.95</u>	<u>5.60</u>	_____	<u>✓</u>
VIMS-4	<u>2.50</u>	<u>2.90</u>	<u>5.40</u>	_____	<u>✓</u>
VIMS-3	<u>2.55</u>	<u>2.75</u>	<u>5.30</u>	_____	<u>✓</u>

Previous Month's Manometer Readings

	Pressure (inches of water)		
	<u>Left Side</u>	<u>Right Side</u>	<u>Total</u>
VIMS-1/5A/5B ⁱ	<u>2.70</u>	<u>3.0</u>	<u>5.70</u>
VIMS-4	<u>2.50</u>	<u>2.90</u>	<u>5.40</u>
VIMS-3	<u>2.55</u>	<u>2.80</u>	<u>5.35</u>

* If yes, variation \geq 1.0 inch of water compared to previous month, please complete the following:

Was repair made within 7 days?	<u>NA</u>	<u>Yes</u>	<u>No*</u>
VIMS-1/5A/5B ⁱ	_____	_____	_____
VIMS-4	_____	_____	_____
VIMS-3	_____	_____	_____

Please provide the corrective actions made, or recommended repair or modification needed.

* If no, notification to Ecology by phone and email is required within 7 calendar days after the observation is made.

ⁱ VIMS-1/5A/5B represents the combined piping associated with each of these locations. Individual manometers are not installed on VIMS-1, VIMS-5A, and VIMS-5B.