



State of Washington Department of Ecology  
Northwest Regional Office  
**WATER COMPLIANCE INSPECTION REPORT**

substitute for OMB No. 2040-0057  
and EPA form 3560-3 (Rev. 9-94)  
(last file update 12-95.)

**Section A: National Data System Coding (i.e., PCS)**

Transaction Code 1 <b>N</b> 2 <b>5</b>	NPDES # 3 <b>WA0032174</b> 11	yr/mo/day 12 <b>23/07/26</b> 17	Inspection Type 18 <b>P</b>	Inspector 19 <b>S</b>	Facility Type 20 <b>2</b>
Remarks					
Inspection work days 67 <b>0.4</b> 69	Facility Self-Monitoring Evaluation Rating 70 <b>5</b>	BI 71 <b>N</b>	QA 72 <b>N</b>	-----Reserved----- 73 _____ 74 _____ 75 _____ 80	

**Section B: Facility Data**

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Marine Fluid Systems 801 NW 42 <sup>nd</sup> St, Seattle WA 98107	Entry Time/Date 9:55 AM 07/26/2023	Permit Effective Date 04/01/2018
	Exit Time / Date 10:55 AM 07/26/2023	Permit Expiration Date 03/31/2023
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)  Gregory Bostwick, General Manger & Owner Marine Fluid Systems 801 NW 42 <sup>nd</sup> St   Seattle, WA 98107  Phone Number 206-706-0858	Other Facility Data	

**Section C: Areas Evaluated During Inspection (Check only those areas evaluated)**

<input type="checkbox"/> Permit	<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> CSO/SSO (Sewer Overflow)
<input type="checkbox"/> Records/Reports	<input type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Pollution Prevention
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Compliance Schedules	<input checked="" type="checkbox"/> Pretreatment	<input type="checkbox"/> Multimedia
<input type="checkbox"/> Effluent/Receiving water	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	<input type="checkbox"/> System upgrades

**Section D: Summary of Findings/Comments**

**INTRODUCTION**

Marine Fluid Systems (Marine) is a family owned and operated ship repair facility on the Lake Washington Ship Canal. Marine does ship maintenance and repair activities, sandblasting, painting, cutting and welding. All process wastewater from ship maintenance activities and a portion of the stormwater is collected and treated on-site before it discharges to the King County Sanitary Sewer System. Marine owns a marine railway, which is located next to the shoreline and can extends into the water during the launches. Marine is authorized to discharge railway floodwater to Lake Washington Ship Canal, which is permitted under NPDES Permit WA0032174.

Ecology permit manager, Joey Jiang, invited Evan Dobrowski from Ecology for the inspection. The main objective of this inspection was to gain familiarity with the facility's industrial operations and wastewater treatment processes.

Joey Jiang and Evan Dobrowski took all photos included in this report at the time of the inspection.

## INSPECTION RESULTS

Upon arrival at Marine Fluid Systems, Joey Jiang and Evan Dobrowski met Gregory Bostwick (Owner) at the Marine Fluid Systems office building, which is located at 801 NW 42<sup>nd</sup> St #202. The office building is leased through different entity. After a brief introduction, we walked over to the north dock (Picture 2), which is the concrete dock working surface.

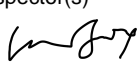

- We then walked towards east side of the property, where the blast shed, and paint shed are located. Inside the paint shed, there were paint containers on the ground without any secondary containment (photo 7). Next to the paint shed, we saw several sacks of grits sitting by the ecology blocks (photo 6). We then began walk of the non-working surface area at the south end of the property. We noticed grits on the ground (photo 9). Gregory explained that they were carried over from the working surface by vehicles travelling between the non-working surface and the working surface. Evan Dobrowski explained that these spilled grits need to be vacuumed and cleaned up, otherwise surface runoff will carry them over and flow straight into the Lake Washington Ship Canal via the stormwater infrastructure that does not flow to the King County Sanitary Sewer System. We then walked over to the very south end of property, which is owned by Trident Seafood next door. This portion of the property is leased to Marine Fluid Systems. We discussed potential stormwater runoff from this non-working surface area because of the slope towards Lake Washington Ship Canal (photo 5).
- After that, we walked over to the Marine Railway (photo 1). The basic functions of the marine railway are the repair of ships and the cleaning and painting of ships' bottom, propellers, rudders, and the external parts below the waterline. CB #1 is located inside the marine railway. It collects runoff from paint blasting and other working surface, and it flows to the water treatment building before it discharges to King County Sewer line. We then walked inside the water treatment building (photo 12 and 13), where process wastewater is being treated by a series of treatment train, which consists of settling tank, sand filter, media filter, and the carbon filter (photo 10, 11, 12 and 13). We also found pipes (photo 14) underneath the concrete pad of the marine railway. Greg did not know what those pipes are nor the direction they flow to.
- The inspection ended at the main entrance of the shipyard. There is an unidentified catch basin next to the recycle bin and the power building. (Photo 2 and 4) We found that there is a pipe going out to catch basin #2 (photo 3), which eventually drains to city stormwater conveyance system.

### Compliance Concerns and Recommendations

1. Facility needs to maintain secondary containment for all liquid chemicals throughout the facility per permit S10.F.4. Provide photo documentation of cleaned up and reorganized paint and fuel storage areas within 30 days of receiving this report.
2. Facility needs to clean and vacuum all spent grits either daily or after each sandblasting event, and make sure no spent grits are on the non-working surface per permit S10.B.6. Provide photo documentation of cleaned up sand grit from various locations on the facility within 30 days of receiving this report.
3. Facility needs to update the existing drainage map or the site map to include the unidentified catch basin (photo 4) during the inspection on July 26. Provide Ecology with the updated map within 30 days of receiving this report.
4. Facility needs to identify pipes (photo 14) that goes into the marine railway and under the concrete along the paint shed side of the property.
5. Facility needs to contact the building owner and find out the pipe outlets from the marine railway (photo 14), which Gregory said it's connected to the parking lot of the office building.

Joey Jiang, the permit manager, should be contacted at 206-507-8283 with permit related questions.

Attachment: Photos

Name(s) and Signatures of Inspector(s) Joey Jiang 	Agency/Office/Telephone WA Dept. of Ecology NWRO / WQP	Date 8/9/2023
Name(s) and Signatures of Inspector(s) Evan Dobrowski 	Agency/Office/Telephone WA Dept. of Ecology NWRO / WQP PO Box 330316, Shoreline, WA 98133-9716	8/23/2023

Signature of Management Q A Reviewer  Monika Kannadaguli <i>Monika Kannadaguli</i>	Agency/Office/Phone and Fax Numbers WA Dept. of Ecology NWRO / 425-240-4234	Date 8/29/2023
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**ANNOUNCED** Inspection



Photo 1

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: An overview of the Marine Way, where ships come in for repair and painting.



Photo 2

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Catch basin #3. It collects stormwater runoff of the working surface, and it's routed to catch basin #1 and the treatment building.



Photo 3

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Catch basin #2 that drains to city storm sewer line.





Photo 4

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Unidentified catch basin next to the power building.



Photo 5

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Potential stormwater runoff (red arrow) at the north bound of the property.





Photo 6

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Unused grit storage area. There were grits laying on the ground. Not sure if they are used or not.



Photo 7

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Paint storage inside the Paint Shed.



Photo 8

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Overview of north dock. There is an abandoned ship, see red circle, next to the dock.

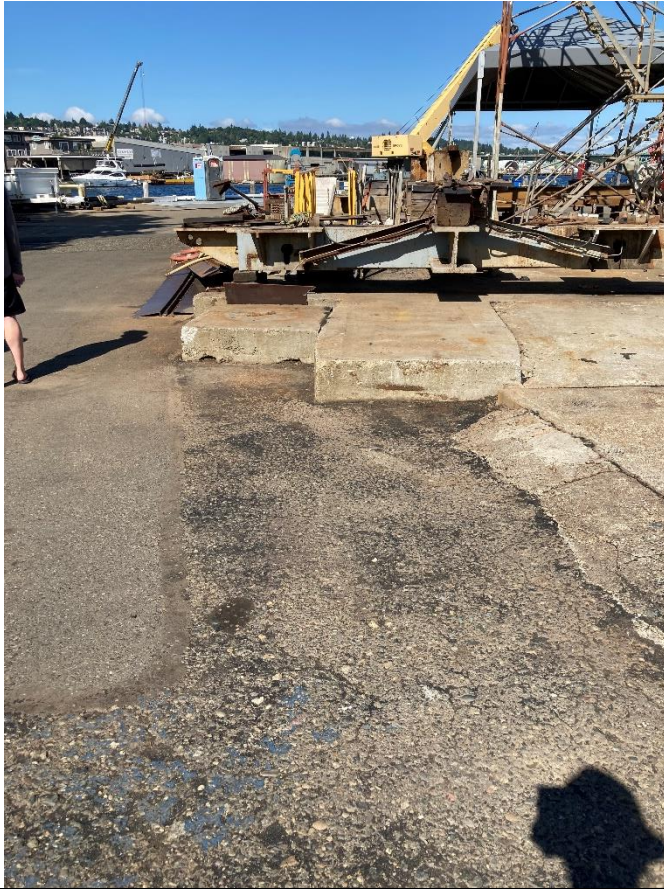


Photo 9

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Spent grits over the non-working surface in the northwest part of the property.





Photo 10

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: A picture of the Media Filter before treated water goes to King County sewer line. There are spent grits on the ground.



Photo 11

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Outside the water treatment building. A picture of the fresh water storage tank.



Photo 12

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Inside the treatment building, a side view of the 4-Chamber Settling Tank.



Photo 13

Taken By: Joey Jiang

Witness:, Evan Dobrowski

Description: Inside the water treatment building. Camera pointing at the sand filters and the media filter.





Photo 14

Taken By: Joey Jiang

Witness: Evan Dobrowski

Description: Unidentified pipe inside the marine railway. There are spent grits on the railway.