



Bridge and Ferry Terminal Washing General Permit Reissuance Draft

Foroozan Labib, Permit Writer March 24, 2022

General Permit Details

Initially issued in 2017

Expires July 2022

Modeled after WSDOT Permit

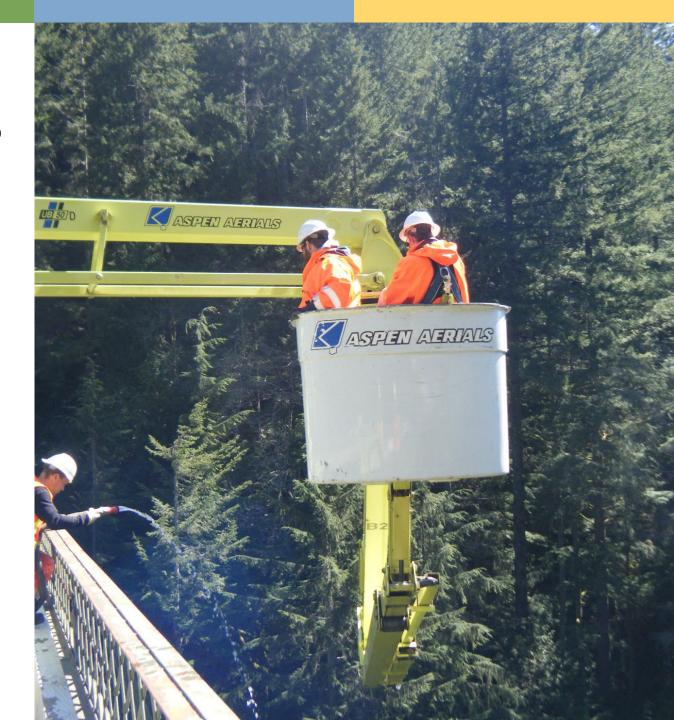


WSDOT & Gov't Agencies

Inspect

Maintain

Structural Integrity & Safety



Build Up

- Dirt &
- Debris
- Guano



Inspection Concerns

2013 Skagit River
 Bridge Collapse

HiddenDeterioration

 Clean Bridge for Inspection



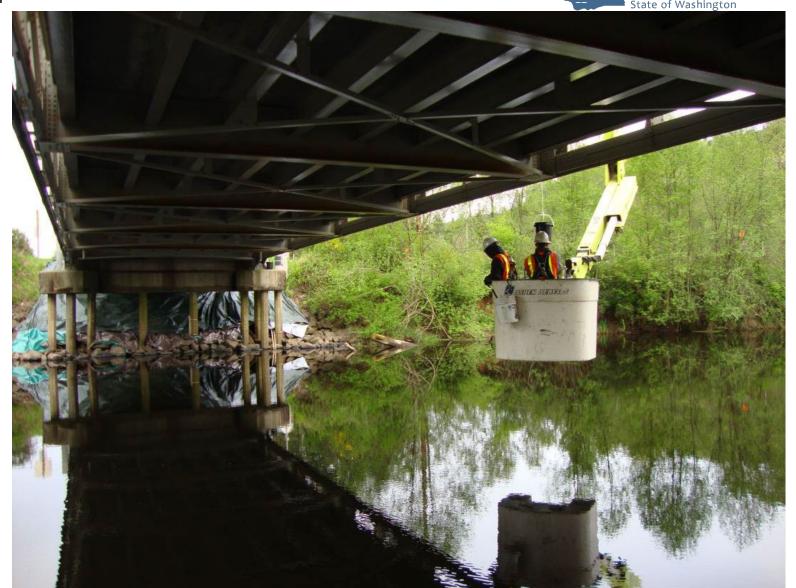
Inspection Concerns

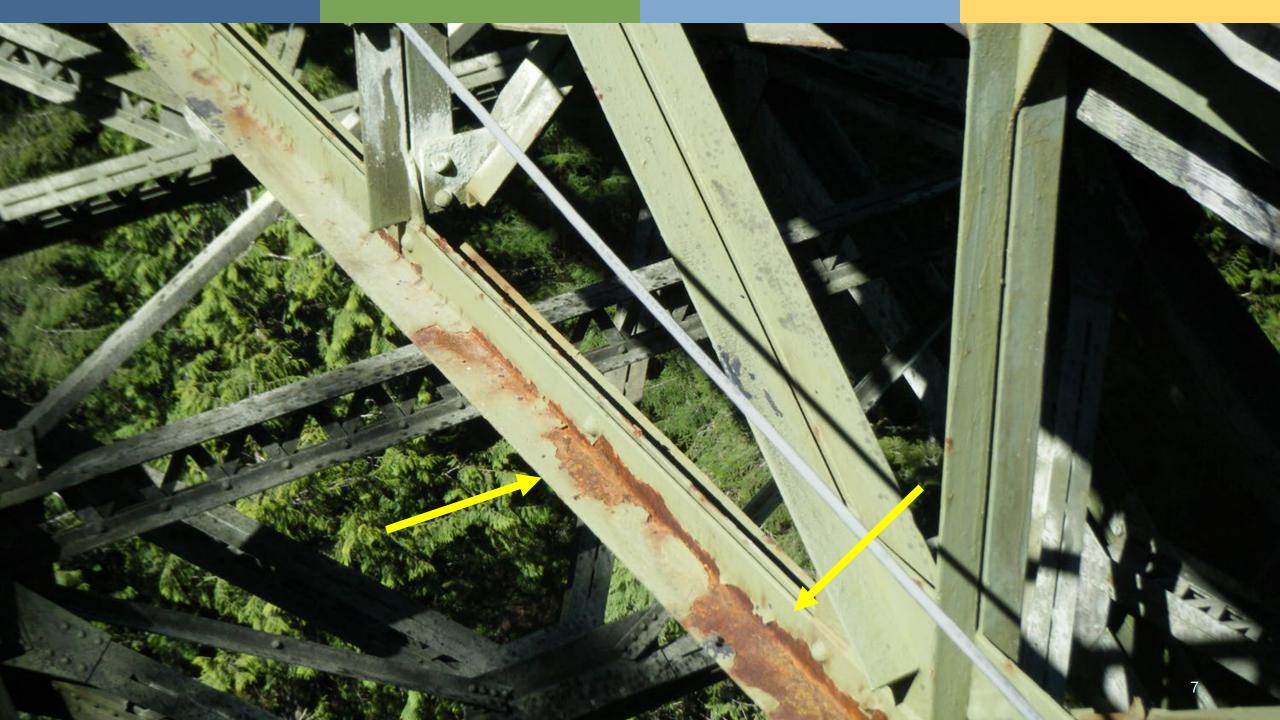


2013 Skagit River
 Bridge Collapse

HiddenDeterioration

 Clean Bridge for Inspection











Summary of GP Requirements

- 1. Maintenance Washing (Yearly or Longer)
 - Low Pressure Washing
 - Seasonally High Stream Flow Periods (Fall Spring)
- 2. Preparatory Washing Pre Painting (15-Year or Longer)
 - High Pressure Washing
 - High Stream Flow only
 - Full Containment No Discharge
- 3. Painting No Discharge, Spill Control.

Maintenance Washing



Dry Cleaning Methods:

 Scraping, Sweeping, Vacuuming

Grease Removal:

 Degreaser on absorbent material



Maintenance Washing & Spot Cleaning LECOLOGY



Flushing:

- Low pressure
- No detergents



Maintenance Washing & Spot Cleaning





Maintenance Washing & Spot Cleaning



Flushing / Washing

- Low pressure
- No detergents



Wastewater Effluent Characterization

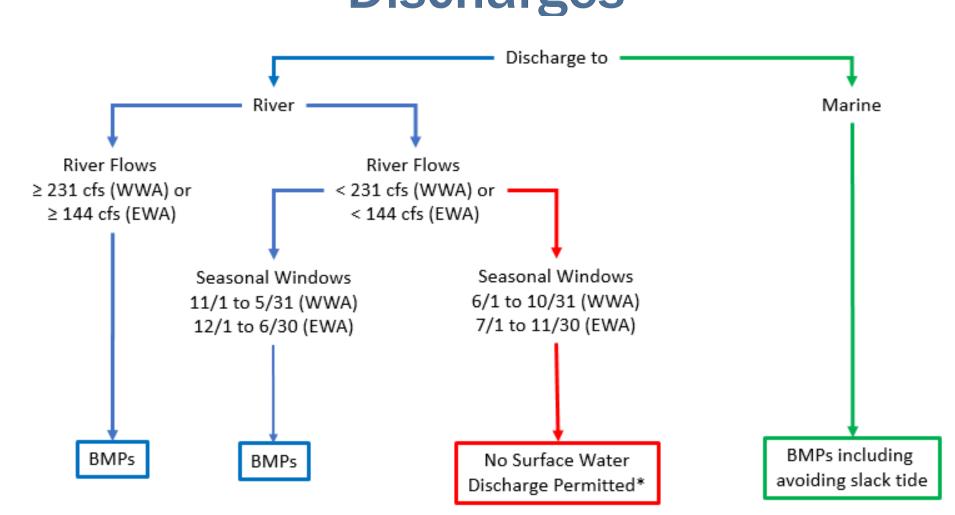
Maintenance

Parameter	Mean (range) - Dissolved	Mean (range) - Total	
Copper (µg/L)	9.2 (0 - 119)	109 (2 - 960)	
Lead (µg/L)	35 (0 - 600)	1705 (7.2 – 14,000)	
Zinc (µg/L)	305 (0 – 2300)	2728 (7.7 – 43,000)	

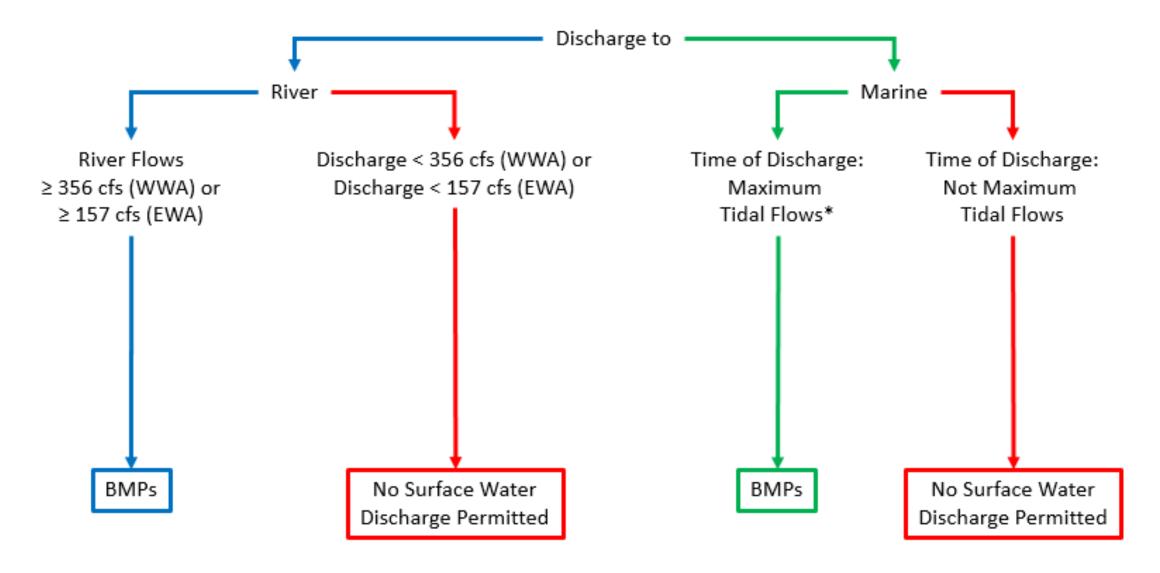
Preparatory (pre-painting)

Parameter	Mean (range) - Dissolved		Mean (range) - Total	
Copper (µg/L)	40.5	(16 - 178)	411	(45 - 2,050)
Lead (µg/L)	410.7	(48.8 - 1,670)	23,659	(1,220 - 96,100)
Zinc (µg/L)	1826.8	(166 - 4,610)	8,506	(1,650 - 31,592)

Maintenance & Spot Cleaning ECOLOGY State of Washington Discharges



Preparatory Washing Discharges ECOL





Monitoring

Discharge Monitoring for WSDOT:

- Metals (Pb, Zn, Cu)
- Discharge Volume & Duration
- Greater of 5 or 10% of Bridges

Reporting:

- Annual Report
- Washwater Characterization Report



Major Changes to General Permit

 Coverage Option for Multiple Structures (Local Governments)

2. Reducing Stream Flow Thresholds (Seasonal Windows Apply)