



**ORION MARINE  
CONTRACTORS, INC**  
**ORION MARINE GROUP**

# **STORMWATER POLLUTION PREVENTION (SWPPP) PLAN**

**Port Gamble Bay CleanUp Project**

**PR/OPG – ANCHOR QEA**

PREPARED FOR:



# Stormwater Pollution Prevention (SWPPP) Plan

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## Introduction

This Stormwater Pollution Prevention Plan (SWPPP) is designed to establish when, where, and how specific Best Management Practices (BMPs) will be implemented to prevent water pollution and erosion and the transport of sediment from the site during construction at the Port Gamble Bay Cleanup Site, this plan is subject to modifications to successfully prevent water pollution and erosion throughout the construction period.

It is Orion Marine Contractors, Inc. (OMCI) intent to comply with all Federal, State, Regional, and Local laws and regulations pertaining to the environment. Methods of compliance are outlined in this document.

## Potential Sources of Pollution

Possible sources of stormwater pollution that we may encounter on this project include runoff from the potential excavated soil stockpile, concrete processing/stockpile area, timber processing area, and existing site surfaces. We plan to employ several BMPs on shore to prevent contaminated water from being released and tracked around the jobsite.

## Stormwater Management

~~Stockpiles of excavated materials will be designed so that no stormwater or water contained in the excavated material will leave the stockpile without first running through a filter. Existing mill site impermeable surfaces (concrete and asphalt) will be perforated before the placement of the sediment stockpiles to allow water to filter through.~~ Rinsing of stockpiles will be monitored during storm events and forced water will be turned off to prevent overflow of stormwater runoff on stockpiles during the storm event.

~~An aggregate berm with impermeable liner will be installed along the project shoreline with a minimum 15' setback from OWH (reference Attachment A). This berm will be constructed and coordinated to be placed ahead of the placement of sediment stockpiles on-site. The berm will be constructed concurrently with the bank excavation operations. OMCI will have additional berm and liner material on-site to construct any temporary transverse berms needed to keep the water run-off from the stockpiles from entering the adjacent waterway (reference Attachment B Site Plan).~~

Materials stored onsite will be covered and protected from weather to the extent practical. Orion will monitor the weather forecast and cover material, stockpiles, and processing areas prior to a storm event. Waste receptacles will be covered. Stone, sand, and other fill materials will be stockpiled ~~will be stockpiled~~ onsite and covered when not in use. Any fill material left onsite after the in-water work window passes will be covered with visqueen and filter fabric will be surrounding the pile so that any water that leaves

the pile will be filtered and uncontaminated. The perimeter of the site that is on the shoreline will have silt fence installed or have a berm placed with impermeable liner to prevent unfiltered stormwater releasing.

Prior to any stockpiles being generated, Orion will create perforations in all impermeable surfaces on the project site to allow stormwater to infiltrate the natural ground surfaces and will be used as the primary management tool for water collected in the stockpile area. The Sump Detail called out on contract plan sheet G-05 will be installed and maintained for project site water runoff. Prior to any sump discharges, Orion will obtain approval from the Engineer.

Other BMPs to be utilized include:

1. Construction materials will be stored on dunnage and covered.
2. Silt fence or impermeable lined berm will be installed at the perimeter of the site.
3. Project entrance will be stabilized with gravel surfaces and a street sweeper will be onsite at all times to prevent material from being tracked out on public streets.
4. Natural drainage ways will utilize straw wattles and check dams to the extent practical.
5. Transload facilities and aprons will be maintained and cleaned to prevent material and unfiltered stormwater from releasing.

Water based equipment BMP inspection will occur daily. Equipment operators and the project superintendent and engineer will be responsible for inspections and corrections. Daily equipment inspections will note leaks or other environmental issues. Laydown and storage areas will be inspected daily and possibly more often as high precipitation events occur. The precipitation inspections will occur during and following the event.

## Erosion Prevention

Controlling sediment and erosion is a key issue to this project and we will strive to meet or exceed all contract expectations. Included in this section is a list of Best Management Practices to prevent and control erosion, as well as protocols to maintain effective erosion control.

Erosion will be controlled by the use of haul roads, excavation methods to minimize erosion, and steady employment of BMPs. Equipment will travel on designated haul roads, trucks and equipment traveling through the site will not disturb the existing ground, track mud and debris through the site, and have the potential of contaminating the waters. The haul road will be checked and inspected daily to ensure it is holding up and functioning properly.

Due to the duration of this project, considerable amounts of rain will be expected. We plan to mitigate sediment from draining into Port Gamble Bay during a rain event by the following means:

- Silt Fences
- Filter Fabric
- Straw Bales/Wattles
- Sand Bags
- Visqueen

In accordance with Specifications Section 352023 – 3.02, our aggregate material stockpiles will be:

- Located onsite, not impairing access

- Stockpiled by type of material
- Sized to accommodate anticipated volumes and rates of import
- Covered, lined, and bermed
- Kept off of exposed soils that have recently been excavated
- Inspected and recorded daily

All of our BMPs will be inspected and maintained with the same scrutiny as those placed around our stockpiles.

## **Conclusion**

We understand the importance of creating and following a plan to prevent stormwater pollution. We realize the significance in managing construction water and stormwater and will employ the necessary BMPs to ensure compliance with all Federal, State, and Local laws and regulations, while also ensuring completion of a successful project. Reference the attached drawing for an example of the BMPs that will be utilized on the project.

## **Attachments**

- A. Attachment A Port Gamble Site BMPs
- B. Attachment B Site Layout