

# Project Completion Report

Dickman Mill Piling and Debris Removal Project

Water Quality Certification Order No. 22587

Prepared for  
Washington State Department of Natural Resources

Prepared by  
Herrera Environmental Consultants, Inc.

In Association with  
Floyd | Snider and KPFF



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**Water Quality Certification Order No. 22587**

Prepared for  
Washington State Department of Natural Resources  
Aquatic Resources Division  
Olympia, Washington 98504

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April 14, 2025

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# List Of Abbreviations and Acronyms

Abbreviation/Acronym	Definition
BMP	Best management practice
DNR	Department of Natural Resources
Ecology	Washington State Department of Ecology
EPA	Environmental Protection Agency
ESA	Endangered Species Act
JARPA	Joint Aquatic Resources Permit Application
MMBIZ	Marine Mammal Behavioral Impact Zone
MHHW	Mean higher-high water
MLLW	Mean lower-low water
MMMP	Marine Mammal Monitoring Plan
NMFS	National Marine Fisheries Service
NOAA	National Oceanic & Atmospheric Administration
NTU	Nephelometric turbidity units
NWP	Nationwide Permit
OHWM	Ordinary high water mark
PCBs	Polychlorinated biphenyls
Project	Dickman Mill Piling and Debris Removal Project
PSO	Protected Species Observer
SIM	Selected ion monitoring
SSNP	Salish Sea Nearshore Programmatic
SRKW	Southern Resident Killer Whales
SVOCs	Semivolatile organic compounds
USACE	U.S. Army Corps of Engineers
WAC	Washington Administrative Code
WQC	Water Quality Certification
WQMPP	Water Quality Monitoring and Protection Plan

# Executive Summary

This Project Completion Report has been prepared by Herrera Environmental Consultants, in association with Floyd | Snider, and KPFF, on behalf of the Washington State Department of Natural Resources for the Dickman Mill Piling and Debris Removal Project. The Project is located within the southwestern quadrant of Commencement Bay, and includes aquatic lands managed by DNR and Metro Parks Tacoma, located offshore of the Dickman Mill Park at 2423 Ruston Way in Tacoma, Washington. The Dickman Mill property is a former lumber mill and modern-day park owned and operated by Metro Parks Tacoma.

The Project is one of four projects with derelict structures called Washington's Filthy Four, for which DNR secured a total of \$10.8 million, including \$3.5 million for the Dickman Mill site. A set of existing authorizations held by DNR for the derelict piling removal program allows for creosote removal throughout Puget Sound. However, given the known presence of low-level sediment contamination in and adjacent to the Project area, and as a result of early agency negotiation, DNR committed to placement of a sand and gravel habitat mix across the Project. This fill activity therefore triggered the need for an individual set of environmental permits and approvals for the Project. Among the suite of permits and approvals issued for the Project, Water Quality Certification Order No. 22587 was issued by the Washington State Department of Ecology (Ecology). This Project Completion Report provides documentation and information required to comply with the conditions of that Water Quality Certification Order.

The Project design called for the removal of approximately 1,200 creosote pilings, remnant superstructures, and large debris from aquatic lands located offshore of Dickman Mill Park. The actual number of piles removed included 986 fully extracted piles and 379 piles cut below the mudline by divers because they could not be fully extracted. Pilings were extracted either by using a vibratory hammer followed by direct pulling or by direct pulling using a choker chain without the vibratory hammer. Overwater demolition of remnant superstructures consisted of removing minor amounts of miscellaneous dock decking attached to pilings, and divers assisted in removing wood, metal, tires, and other debris larger than 2 square feet at the sediment surface. The project design also called for placement of a thin, 6-inch layer of sand and gravel habitat mix in dense pile areas and some individual piles outside those areas to enhance benthic habitat. All work for the Project was completed in one mobilization during the 2024/2025 in-water work window.

Monitoring for Endangered Species Act-listed Southern Resident Killer Whales (*Orcinus orca*) and humpback whales (*Megaptera novaeangliae*) in the Marine Mammal Behavioral Impact Zone was performed according to the Marine Mammal Monitoring Plan (Floyd | Snider 2024) and amendment prepared for the Project. Monitoring was conducted during piling removal work on 22 days from November 20 through December 26, 2024. Protected Species Observers observed orca whales on two occasions (December 11 and 16, 2024), but the mammals were either outside of the monitoring zone or were observed when the vibratory hammer was not being used, so no notification to stop work was given.

Water quality monitoring was conducted according to the Water Quality Monitoring Plan prepared for the Project (Herrera 2024a). A combination of instrumented and visual monitoring, including observations of petroleum sheens or distressed or dying fish if present, was conducted during overwater work and in-water activities. Water quality monitoring was conducted for a total of 41 days during all active construction activities (i.e., during all pile pulling, debris removal, pile cutting, and sand and gravel mix placement). Instrumented monitoring with turbidity measurements was completed on a total of eight days, and visual monitoring was performed during the other 33 days of construction work.

An oil sheen was observed on the water surface on a total of 15 days during construction. On 14 of those days, the sheen was inside the work area surrounded by the turbidity curtain and oil boom. On one occasion, a slight oil sheen was observed outside the turbidity curtain and the contractor was immediately notified. The contractor closed a gap identified in the curtain and circled the sheen area to contain it using a section of oil boom deployed from a skiff.

Slight turbidity was observed during routine visual monitoring on the last two days of January 2025, during the second and third days of the sand and gravel placement. Based on these observations, Herrera Monitors resumed instrumented monitoring and measured elevated turbidity (i.e., more than 5 Nephelometric Turbidity Units above background) on February 5, 2025, during the first set of morning measurements. Herrera monitors immediately shared these results with the contractor, the contractor modified their operations for the remainder of that day and thereafter by lowering the Bombay box into the water before opening the doors, and subsequent water quality readings remained in compliance with the approved water quality criteria.

After piling and debris removal work was completed, a sand and gravel habitat mix was placed over the two dense pile fields, and within a 2-foot radius of where each isolated pile was removed. The total sand and gravel habitat mix applied was 3,557 tons to 6.68 acres for average thickness of 6.89 inches.

Prior to construction, 1,874 tons of creosote was estimated to be removed with a potential value of 4,673 credits using the Salish Sea Nearshore Programmatic calculator. At project completion, the total documented tonnage of material disposed offsite was 1,165 tons, and 5 percent (58 tons) of this total was conservatively assumed to be non-creosote material associated with debris removal. Based on this revised tonnage of creosote removed, a total of 3,015 credits were generated.

The total Project cost was \$3,033,000, and included Design, Permitting Coordination, Construction, and Construction Management and Monitoring.

# 1. Introduction

This Project Completion Report was prepared by Herrera Environmental Consultants (Herrera), in association with Floyd | Snider and KPFF, on behalf of the Washington State Department of Natural Resources (DNR) for the Dickman Mill Piling and Debris Removal Project (Project). The Project is located within the southwestern quadrant of Commencement Bay, and includes aquatic lands managed by DNR and Metro Parks Tacoma, located offshore of Dickman Mill Park (Park) at 2423 Ruston Way in Tacoma, Washington (Figure 1).

DNR acts as stewards of more than 2.6 million acres of state-owned aquatic lands, and is responsible for ensuring protection of habitat and fostering public access and water-dependent activities for future generations. In the 2023 legislative session, DNR secured \$10.8 million to remove what it called Washington's Filthy Four derelict structures, including \$3.5 million for the Dickman Mill Site. The Site is the second and one of the more public of the Filthy Four.

The Dickman Mill property is a former lumber mill and modern-day park owned and operated by Metro Parks Tacoma (Parks). In 1998, Parks demolished and removed all upland structural remnants of historical lumber mill operations, and remnants remained of in-water structures, such as wooden planks and pilings from a large wharf and pier. The Project executed in 2024 to 2025 consisted of removing 1,357 creosote-treated pilings by fully extracting 986 piles and cutting 379 piles below mudline, and removing associated remnant superstructures and large debris from aquatic lands offshore of Dickman Mill Park. The Project also included placing a sand and gravel habitat mix after all removal work was completed.

The removal of creosote pilings, remnant superstructures, and large debris occurred during one mobilization within the 2024/2025 in-water work window (August 16 to February 15). The Project included the following overwater and in-water activities:

- Removal by vibratory extraction or direct pulling of pilings, and divers cutting other pilings below mudline if they could not be extracted or pulled; the majority of pilings at the site were clustered in the western dense pile field, and the eastern dense pile field within the eastern pile area, in the subtidal region below 0 feet Mean Lower-Low Water (MLLW) (Figure 2).
- Overwater demolition of remnant superstructures, consisting of minor amounts of miscellaneous dock decking attached to some pilings concurrent with piling removal.
- Diver-assisted removal of wood, metal, tires, and other debris larger than 2 square feet at the sediment surface.
- Placement of a minimum of 6 inches of a sand and gravel habitat mix in both dense pile fields, and within a 2-foot radius of where each isolated pile was removed.

The following sections describe the site history and previously completed sediment investigations, project design, permitting and agency coordination, construction and monitoring activities, calculated conservation credits, and a summary of total project cost. Appendix A provides a technical memorandum

summarizing the site history and sediment investigations and Appendix B provides copies of preconstruction project presentations to Ecology. Appendix C provides a photographic log and Appendix D includes Nationwide Permit (NWP) Certificate of Compliance with the Department of the Army Permit. Appendix E presents a Post Construction Report by the contractor, Orion Marine Group (Orion), that includes: daily pile removal logs, locations and volumes of debris removed, sand/gravel quantities and placement, dive hours and completed work days, disposal truck tickets, and pile cutoff locations. Appendix F and Appendix G include the water quality monitoring field forms and marine mammal monitoring field forms, respectively.

## 1.1. General Project Information

General project information is as follows:

- Water Quality Certification: Order No. 22587
- Location: aquatic lands offshore of Dickman Mill Park, 2423 Ruston Way, Tacoma, WA, 98402
- Contractor: Orion Marine Group located at 1010 South 336th Street, Suite 202, Federal Way, WA, 98003
- Consultant project manager: George Iftner, LG, of Herrera located at 2200 Sixth Avenue, Suite 1100, Seattle, WA 98121, 206.697.0312, giftner@herrerainc.com
- Consultant permitting lead: Tessa Gardner-Brown of Floyd | Snider located at 601 Union Street, Suite 600, Seattle, WA 98101, 206.292.2078, tessa.gardner-brown@floydsnider.com
- Consultant for as-built drawings: Kelvin Kong, PE, of KPFF located at 1601 Fifth Avenue, Seattle, WA, 98101, 206.576.0626, kelvin.kong@kpff.com
- Total piles fully extracted: 986
- Total piles cut below mudline: 379
- Total piles removed: 1,357
- Total piles remaining in project area: 0
- Average pile diameter: 14 inches
- Approximate pile length: 30 to 50 feet
- Total estimated weight of creosote timber and debris: 1,165.52 tons
- Total estimated weight of creosote-contaminated wastewater (disposed off-site): 107.75 tons
- Total sand and gravel habitat mix applied: 3,557.0 tons to 6.68 acres for average thickness of 6.89 inches
- Total Project cost: \$3,033,000 for Design and Permitting Coordination, Construction, and Construction Management and Consulting.

Figure 1. Vicinity Map for the Dickman Mill Piling and Debris Removal Project, Tacoma, Washington.



- Roads
- Highway
- Streams
- Parks
- City Limits
- Project Area

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- Ordinary High Water Mark - 11.78 ft
- Railroad
- Metro Parks Tacoma Property Parcel
- WdNR Aquatic Parcel
- Eelgrass Bed
- Western Dense Pile Field
- Eastern Dense Pile Field
- Eastern Pile Area
- Beach Cap Area (2001)
- Piling and Debris Removal Project Boundary



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## 2. Site History and Sediment Investigation Background

Brief summaries of the Site history and sediment investigations are provided in the following two subsections and additional details are provided in the memorandum included in Appendix A.

### 2.1. Site History

The Dickman Mill operated continuously from 1899 to 1977, and in 1979 most of the structures at the site were destroyed in a fire (Ecology 2025). The mill facility was built upon land that was created by fill placed into the tide flat of Commencement Bay. Structures on the property included a large overwater wharf at the west end of the Site, a boiler house, a sawmill building, an office building, a machine shop, an auto shed, a concrete water tank, a decked area above tidelands at the east end of the Site, a sawdust burner, and a large pier. The mill was initially powered by steam, and then it was converted to electric power generated by burning hog fuel in the sawdust burner between 1926 and 1927.

Parks purchased the eastern portion of the property in 1991 and the western portion in 1993. In 1998, in preparation for developing the Site into a public park, Parks demolished remaining remnants of the original sawmill buildings and removed them from the Site. In 2000 to 2001, the upland portions of the former mill were remediated and over 3,600 tons of concrete and contaminated material were excavated and disposed offsite. Over 1,600 cubic yards of contaminated materials including creosote timber, oily wood waste, and sediment were also removed from tide channels and wetland areas onsite. A soil cover was added to the upland area to prevent exposure to remaining contamination, and the sediment cleanup area was covered with pea gravel to improve intertidal habitat. The excavated tide channel and wetland areas were filled with a clean soil cap as well. Following the remediation, remnant creosote-treated pilings that once supported the overwater wharf, decked area, and pier remained (Herrera 2024b).

### 2.2. Upland and Sediment Investigations

From 1985 to 2000, upland and intertidal investigations completed at the Site mapped contamination of intertidal sediments and upland soils with metals (copper, lead, mercury, arsenic), individual PAH compounds, and cPAH concentrations in excess of Site cleanup standards (Herrera 2024a). Additionally, oil residues and sulfur oxidizing bacterial mats have been observed on upland and intertidal substrates.

In 1999, Parks entered into an Agreed Order with Ecology to conduct remedial actions at the Site in support of future upland development. Upland remedial activities were conducted at the Site in 2000 and 2001. Post-construction sediment cap monitoring was conducted from 2003 through 2005 to determine erosion and stability of the cap. Ecology concluded there was no evidence of significant cap erosion and approved the discontinuation of post-construction cap monitoring.

On February 1, 2007, following remedial activities, Parks and Ecology entered into a Restrictive Covenant regarding the Dickman Mill property. The Restrictive Covenant was required, as a result of decisions made during Remedial Action to leave residual concentrations of PAHs underneath the sediment cap in the tidal channel. The Restrictive Covenant dictates limitations, restrictions, and uses of the property to ensure long-term protection for the cleanup completed at the Site.

In 2015, DNR collected 10 surface sediment samples within and surrounding the remnant piling fields adjacent to the Site (Mott MacDonald 2020). Each sample was analyzed for metals and semivolatile organic compounds (SVOCs), including PAHs, total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), total organic carbon (TOC), sulfide, ammonia, total volatile solids (TVS), total solids, and grain size. Five samples were additionally analyzed for dioxins/furans, and it was noted that petroleum sheens were observed in some of the samples.

Modeling was completed to anticipate what sediment erosion might occur within the piling field after piling removal. The modeling demonstrated 1) that a typical 2-year storm event would induce minimal erosion of sediments within the piling field and 2) that a more energetic 50-year storm would cause relatively mild erosion (Mott MacDonald 2021). Gravel and coarse sands were not anticipated to be significantly mobilized, while finer sediment size fractions (*e.g.*, clay, silt, and remnant sawdust) were anticipated to be transported to the southeast into deeper water within Commencement Bay

In 2022, DNR divers surveyed a subsampling of existing pilings within the western dense piling field, in support of their work to characterize the sediment, the condition of pilings, and the presence of eelgrass and benthic vegetation, as well as any debris. More than 90 percent of the 42 pilings surveyed were observed to be intact and in good condition with minimal degradation (DNR 2022). The survey also noted debris including wood, metal rebar, and wood pieces with attached metal.

In 2022, in preparation for piling and debris removal, NewFields and Herrera conducted extensive investigation to characterize for DNR the nature and extent of contaminants (vertical and horizontal) and the potential impacts of wood waste on the benthic habitat within the Dickman Mill sediment area. The specific study objectives for the 2022 Dickman Mill sediment investigation were to:

- Evaluate the potential impact of piling removal on intertidal beach geomorphology.
- Assess the potential impacts of wood debris to subtidal benthic habitat using imaging analysis.
- Determine the nature and extent (vertical and horizontal) of contamination within the offshore areas of Dickman Mill, with a focus on PAHs and dioxins/furans.
- Evaluate the toxicity of contaminants and wood debris in offshore sediment areas using bioassays.

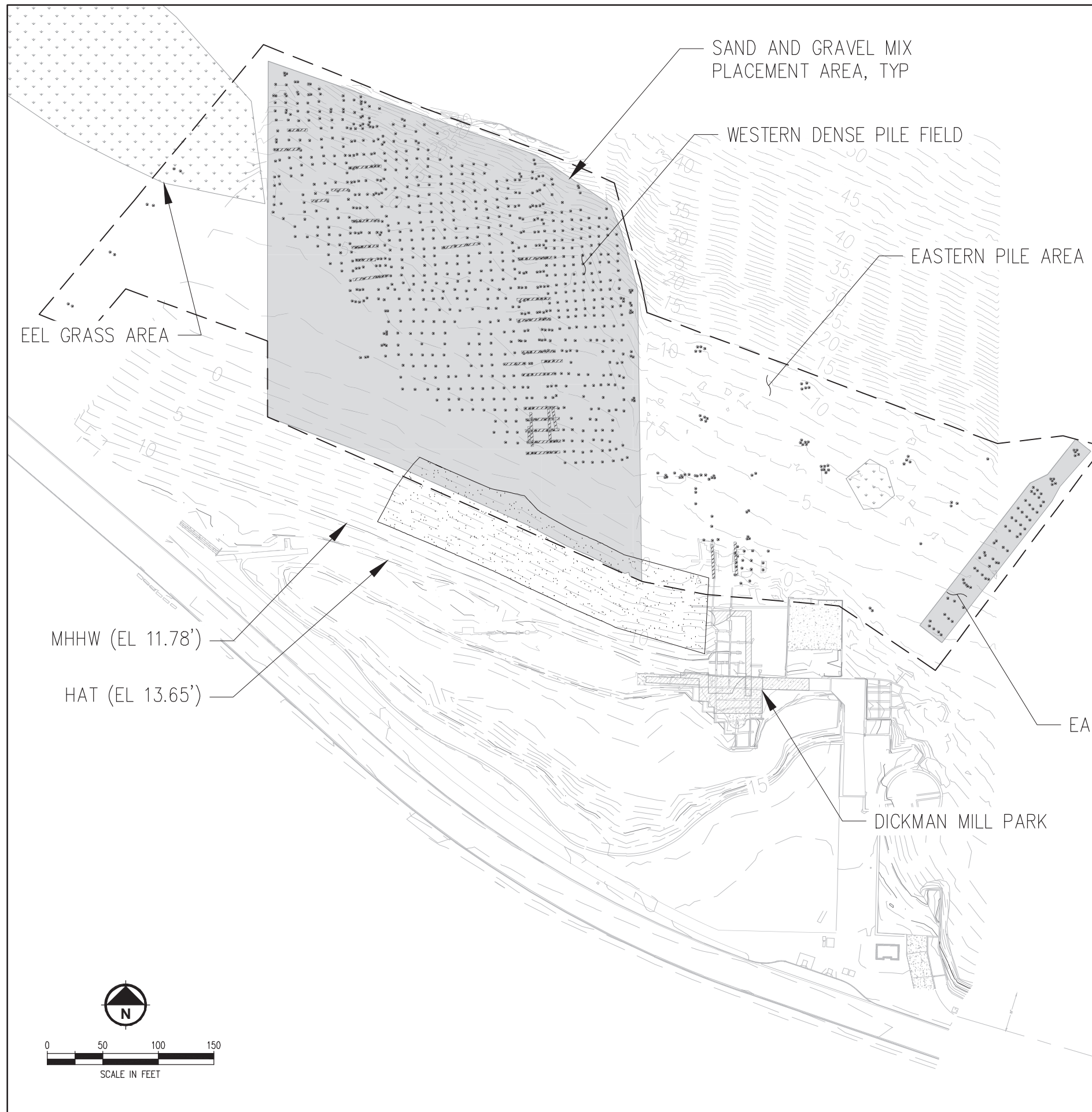
The geomorphic assessment conducted for the 2022 sediment investigation did not find significant evidence that the present and predicted future condition of the dense pile field would function as a breakwater for the restored beach. The 2022 sediment investigation results clearly indicate that movement of surface or subsurface sediment outside of the dense pile or east pile areas during piling removal would not impact sediment contamination, the benthic invertebrate community, or human/ecological health in these or adjacent areas.

### 3. Project Plan

This section details the approach taken for the Project, which was conducted on behalf of the DNR. The Project aimed to remove creosote-treated piles and debris from the designated aquatic lands in Commencement Bay, while staying within the permitted in-water work window and the allocated DNR budget. The Project also aims to improve the benthic habitat in the western and eastern dense pile fields after the removal work by placing a sand and gravel habitat mix.

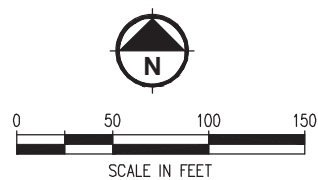
To achieve these goals, the Project utilized specific methods for pile and debris identification, and habitat mix design. Specifically, pile identification involved a combination of underwater dive surveys, conducted by DNR in 2022, and a 2024 drone survey to visually verify pile locations. The design of the sand and gravel habitat mix considered both the gradation and thickness, balancing the need for stability with effective benthic habitat enhancement without causing turbidity during placement. Further details on these methodologies are provided later in this section. The Project Site Plan is presented in Figure 3.

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# LEGEND

- 10 --- CONTOUR
- MHHW --- MHHW (EL 11.78')
- HAT --- HIGHEST ASTRONOMICAL TIDE (HAT) (EL 13.65')
- ⊗ DEMO EXISTING CREOSOTE-TREATED TIMBER PILES, SEE NOTES ABOVE
- DEMO EXISTING TIMBER SUPERSTRUCTURES
- ↓ APPROXIMATE EELGRASS AREA
- EXISTING GRAVEL CAP AREA
- █ 6" THICK SAND AND GRAVEL HABITAT MIX PLACEMENT LIMIT



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## SITE PLAN FOR THE DICKMAN MILL PILING AND DEBRIS REMOVAL PROJECT, TACOMA, WASHINGTON

DATE: 2025-03-25

SCALE: AS SHOWN

DRAWN BY: KK

FIGURE 3

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## 3.1. Project Objectives and Constraints

The project objectives were to remove all creosote treated piles and debris from the Project area within the permitted work window and available DNR budget, and place a sand and gravel habitat mix throughout the western and eastern dense pile fields to enhance the benthic habitat after piling and debris removal.

To identify and quantify the pilings for removal, a combination of underwater and aerial survey methods was utilized. A dive survey, conducted by DNR in 2022, documented the quantity, location, and condition of each piling within the Project area. This data was used as the basis to develop the pile map used in construction documents. Additionally, the project team visually verified the location of each pile with a drone during the low tide in 2024.

Eelgrass beds are present within the Project area. Specifically, one large bed is located west of the western dense pile field and another small bed is in the eastern pile area. The locations of these eelgrass beds, as mapped by DNR, were included in the construction drawings. To protect these eelgrass areas, the Project prohibited the contractor from anchoring or spudding barges within 25 feet of any identified eelgrass boundary.

## 3.2. Piling, Structure, and Debris Removal

The Project team identified approximately 1,200 creosote-treated piles for removal. The majority of the existing Dickman Mill facility dock superstructures had deteriorated or been removed prior to the commencement of this Project. However, minor remnants (totaling less than 20 tons) of timber structural beams and pile caps remained and required removal. The existing seabed, as documented by the 2022 DNR Dive Survey, was relatively clean and free of debris. The initial estimate for underwater debris removal was 5 diver-assisted work days.

The anticipated removal sequence involved the contractor first removing all remaining timber superstructures, followed by the removal of the pilings. This superstructure and piling removal phase was estimated to take approximately one and a half months. Subsequently, the contractor was expected to spend approximately 5 to 10 days removing debris and addressing any pilings that could not be successfully extracted.

## 3.3. Sand and Gravel Habitat Mix Design

The sand and gravel habitat mix was placed in areas most heavily disturbed by piling removal activities to enhance benthic habitat. These areas primarily include the western and eastern dense pile fields. For isolated piles outside of these dense areas, the contractor was required to place the habitat mix within a 2-foot radius of each removed pile location (see Figure 3). To minimize impacts to eelgrass, placement of the habitat mix was prohibited within any eelgrass area, including its 25-foot buffer zone. In the western dense pile field, the habitat mix extended shoreward beyond the pile disturbance area to cover existing

sediments up to an elevation of +2 feet MLLW, providing protection for a previously placed pea gravel cap.

The design of the sand and gravel habitat mix considered both the gradation and thickness, balancing the need for stability with effective benthic habitat enhancement without causing turbidity during placement. A six-inch thickness for the habitat mix was selected to adequately enhance the benthic habitat. Clean sand was used to reduce existing contaminant concentrations in surface sediments for meeting Washington State Sediment Management Standards (SMS) (WAC 173-204 WAC) for protection of biological resources and human health. Clean gravel was included in the habitat mix to provide coarse materials for enhancing benthic habitat quality, better match the existing sediment gradation, and reduce erosion of the habitat mix. The amount of fines (silt and clay) was low to reduce turbidity during placement. Habitat mix specifications were 40 to 60 percent gravel, 40 to 60 percent sand, and not to exceed 1 percent fines.

## 4. Permitting and Agency Coordination

At the beginning of the permitting process, Floyd | Snider reviewed the existing set of authorizations held by DNR for the derelict piling removal program. This set of authorizations allow for creosote removal throughout the Puget Sound, providing great benefit to DNR related to its ability to implement piling removal projects efficiently. These authorizations should be leveraged to the maximum extent practicable. However, the existing authorizations allow for removal only; they do not authorize fill activities, which was a critical component of the Project. Given the known presence of low-level sediment contamination in and adjacent to the Project area and as a result of early agency negotiation, DNR committed to placement of a sand and gravel mix across the site. This is considered a fill activity and therefore triggered the need for an individual set of environmental permits and approvals for the Project.

In December 2023 and January 2024, Floyd | Snider initiated early agency coordination with federal, state, and local regulators. The primary purpose of this early coordination was to introduce the Project and ensure that the regulators understood its benefits to the aquatic environment, and to confirm that streamlined permitting pathways and exemptions could be used for an expedited permitting process. This was needed because the Project had to be completed within the 2023-2025 biennium, and with the duration needed for design, bidding and construction, permitting became the critical path schedule task. Floyd | Snider submitted the comprehensive set of permit applications in February 2024 and acquired all permits within 6-months, by August 2024. This allowed construction to begin in November 2024 and to be completed before close of the in-water work window in mid-February 2025.

The suite of permits and approvals are provided in Table 1 along with a summary of the key coordination topics with each entity. The collaboration from each of the regulatory agencies and willingness to work quickly on behalf of this meaningful Project cannot go unmentioned and was critical to the permitting success of this Project.

**Table 1. Summary of Permits and Approvals Issued for the Dickman Mill Piling and Debris Removal Project, Tacoma, Washington.**

<b>Federal Permits and Consultations</b>	
<p>US Army Corps of Engineers (USACE): Nationwide Permit (NWP) 27 for Aquatic Habitat Restoration, Enhancement and Establishment Activities</p>	<p>The primary purpose of the Project was to restore habitat function and quality of the nearshore environment by removing derelict creosote-treated piling that leach chemicals into the sediment and water column. This allowed for authorization under NWP 27 for Aquatic Habitat Restoration. USACE agreed to this regulatory approach during early agency coordination and led all federal consultations during project permitting.</p>
<p>National Marine Fisheries Services (NMFS) and US Fish and Wildlife Services (USFWS): Endangered Species Act (ESA) Section 7 Consultation using the Salish Sea Nearshore Programmatic (SSNP)</p>	<p>Through early coordination with NMFS, the Project was determined to be consistent with project design criteria (PDC) 11 of the SSNP for habitat enhancement activities. This allowed the programmatic consultation to be leveraged and significantly minimized the duration of federal consultation.</p> <p>While projects with habitat enhancement activities are not required to complete the Nearshore Calculator as part of Section 7 consultation, the DNR Creosote Removal Program was directed to capture credits generated by the project. Creosote removal is one of the most highly valued actions and capturing these credits with the Puget Sound Nearshore Conservation Credit Program can generate a revenue stream to support other DNR or state efforts in the future.</p> <p>Floyd   Snider quantified the potential value of piling and debris removal, with an initial estimate of 4,673 credits. The initial credit estimate was based on the assumed tonnage of creosote to be removed, which was determined by assumed length and diameter of the piling. The project team estimated that the length of piling below mudline was approximately 2-times greater than the as-built length of piling above mudline.</p> <p>The total estimated tonnage of creosote removed is confirmed after construction using disposal weigh tickets, and the resulting value suggests that the actual embedded depth was less than the estimate (refer to Section 7 for more detail).</p> <p>While the ability to use SSNP significantly reduced the overall permitting duration, it does require project proponents to follow several general construction measures. For this Project, a marine mammal monitoring plan was requested by NMFS with an initial stipulation that work should not occur if a protected marine mammal was in the area. Following extensive negotiations with NMFS, Floyd   Snider reached an outcome that committed to marine mammal monitoring and documentation of marine mammals within a behavioral impact zone during construction, but with the stop work order only applying to ESA-listed marine mammals (Southern Resident Killer Whale and the humpback whale) – not all marine mammals. This avoided a potential significant disruption to project construction.</p>
<p>US Environmental Protection Agency (EPA): Review given proximity to Commencement Bay Nearshore Tidel flats Superfund site</p>	<p>The waterward portion of the Project area is located within the Commencement Bay Nearshore Tidel flat Superfund site. While this area is not currently identified for sediment clean-up, Floyd   Snider facilitated an early coordination meeting with EPA to introduce the Project, to confirm use of EPA best management practices for piling removal, to describe that a sand and gravel mix would be placed across the Project area, and to summarize the coordination and support from the Washington State Department of Ecology (Ecology).</p> <p>EPA understood the benefit of removing the creosote-treated piling and the BMPs that would avoid or minimize resuspension of low-level sediment contamination during and after construction. EPA concurred with the Project during its formal review as part of the federal permitting process.</p>

**Table 1 (continued). Summary of Permits and Approvals Issued for the Dickman Mill Piling and Debris Removal Project, Tacoma, Washington.**

<b>Federal Permits and Consultations (continued)</b>	
Department of Archaeology and Historic Preservation (DAHP): Section 106 Consultation	The piling and debris proposed to be removed by the Project were remnant structures from the historic lumber mill that existed formerly at the site. During review of the permit application, USACE requested a cultural resources assessment with a recommendation of site eligibility and an effect determination. A cultural resources assessment was prepared and ultimately determined that the pilings proposed for removal do not contribute to the significance of the Dickman Mill site and therefore their removal should not constitute an adverse effect to the historic property. While this request and assessment process added scope and complexity to the regulatory review, it did not increase schedule or change the project outcome. USACE and DAHP concurred with the findings.
<b>State Permits and Approvals</b>	
Ecology: Water Quality Certification and Coastal Zone Management Act Certification	<p>Previous sediment sampling across the Project area indicated the presence of low-level sediment contamination. Subsequent hydrodynamic modeling indicated that the sediment was stable and was generally not eroding or moving outside of the Project area, and that this would not change as a result of piling removal. As part of the project scope development and early coordination with Ecology, the project team proposed and DNR committed to place 6-inches of a sand and gravel mix across the project area. This would further stabilize the existing sediment and would provide some tolerance for localized sediment movement that naturally occurs within a wave-swept environment. This information and proposal was reviewed with Ecology (refer to Appendix B) and Ecology agreed that “placement of clean material... will address concerns about potential shoreline erosion and would result in no monitoring plan requirement.” Ecology did request that the placement area be extended to +2-feet Mean Lower Low Water to cover a portion of the beach cap area; DNR complied with this request and modified the Project accordingly.</p> <p>The approach for sand and gravel placement was the primary focus of Ecology coordination prior to project construction, though the team did also coordinate and obtain approval for the water quality monitoring approach, which is further summarized in Section 5.5.</p>
Washington State Department of Fish and Wildlife (WDFW): <i>Hydraulic Project Approval (HPA)</i>	<p>During the initial regulatory coordination, Floyd   Snider and WDFW considered whether the Project could be considered a Fish Habitat Enhancement Project (FHEP). Characterization as an FHEP relieves applicants from the requirement to complete review under the State Environmental Policy Act (SEPA) and provides relief from local permitting requirements, which can reduce overall permitting durations. Ultimately, WDFW determined that the FHEP pathway is most appropriate for culvert or barrier removal projects and not general structure (e.g., piling) removal. A standard HPA was obtained for the Project.</p> <p>A key commitment in the HPA application was to avoid impacts to adjacent eelgrass beds. This was done by requiring the contractor to have GPS mapping of the surveyed eelgrass boundaries, move from east to west so that barge movements were not atop eelgrass bed, and to ensure that anchoring remained outside of the eelgrass bed boundaries.</p>
Washington State Department of Natural Resources: <i>Environmental Review under SEPA</i>	Floyd   Snider reviewed the Project against the 2006 environmental checklist for the DNR Creosote Removal Program to determine whether additional environmental review was required and concluded that the Project was consistent with the existing SEPA analysis. A brief memorandum was prepared to document the findings for the project record.

**Table 1 (continued). Summary of Permits and Approvals Issued for the Dickman Mill Piling and Debris Removal Project, Tacoma, Washington.**

<b>Local Permits and Approvals</b>	
City of Tacoma: Shoreline Exemption	The City of Tacoma, similar to many municipalities across the state, provides an exemption from the need to obtain a Shoreline Substantial Development Permit for projects that are “designed to improve fish and wildlife habitat.” A brief consistency analysis was prepared to demonstrate that the Project would improve fish and wildlife habitat, and included an email of support from WDFW.
Metro Parks Tacoma: Memorandum of Understanding with Right of Entry	The shoreline property adjacent to the Project area is owned by Parks. In early coordination with Parks to notify them of the Project, they suggested that an Interlocal Agreement (ILA) would be helpful to document the scope and extent of the Project, and obligations of DNR and Parks. Generally, the obligations of DNR were defined as completing the Project as proposed. Parks memorialized its agreement to remove known artwork that existed on one of the pilings and nesting boxes. The ILA was expanded to include a right of entry and description of authorized activities given that the Contractor may have needed to cross Parks property to access the Project area. Given the close proximity of the Project to Parks property and the adjacent Dickman Mill Park, DNR also invited Parks to participate in the weekly meetings during construction to stay apprised of overall progress.

Following the permitting process and during construction, there were three primary negotiations with the regulatory agencies, as summarized below.

1. **Reduction of marine mammal monitors.** NMFS originally requested three marine mammal monitors and this was included in the initial monitoring plan. However, prior to construction, the project team suggested a plan that would station monitors at two of the monitoring stations (Browns Point and Dune Peninsula) and the Dune Peninsula monitor would check the third site (Tacoma Chinese Reconciliation Park) in the morning to be sure no mammals were present in the inner bay area. In addition, a monitoring location was moved from Dash Point to Browns Point for a better view of the inner bay. This would create a visual “gate” between the greater Puget Sound and the Project area, provide good visibility across the Project area, and eliminate the need for a third monitor to observe the inner bay area full time. This change was approved by NMFS prior to construction. Refer to Section 5.6 for a summary of the marine mammal monitoring throughout construction.
2. **Method for sand and gravel placement.** During pre-construction coordination with Ecology on the proposed Work Plan, the approach for sand and gravel placement was discussed. The Contractor described that releasing material at the waterline provides for better control of material placement compared to blind placement below the water surface. During construction the Contractor elected to change from the originally-assumed mechanical dredge bucket to a Bombay Box. The Bombay Box was filled with 6-inches of material, moved into position using the tracking software, and then released directly into the water. This construction method was approved by Ecology.
3. **Method for cutting broken pilings.** During a daily site visit, a construction manager observed the use of an air-lift dredge by divers to remove sediment surrounding a broken piling to allow cutting it at a depth of 2 feet. An air-lift dredge is similar to hydraulic jetting but uses air instead of water to pump sediments into a pipe and deposit them nearby. Hydraulic jetting is typically prohibited by project permits and the divers were directed to stop the activity. Water quality monitors had also

been onsite during the air-lift dredging but had not observed any turbidity plume or water quality violations. In a debrief with the Contractor, the project team understood that air-lift dredging was helping the divers to reach the specified 2 feet below mudline prior to cutting the remaining broken piling. The air-lift dredging was meaningfully accelerating the process and safer for the divers compared to hand excavation, and through video review, hand excavation was also shown to have the greater turbidity levels. Floyd | Snider notified Ecology of the violation but also requested authorization to resume use of air-lift dredging with water quality monitoring every 4 hours for the first 2 days, and then continued visual monitoring thereafter. Ecology agreed to the proposal following internal coordination and consultation with USEPA. Refer to Section 5.5 for a summary of the water quality monitoring throughout construction.

Construction was completed in February 2025 and post-construction notifications were submitted soon after to the regulatory agencies in accordance with project permits. This Project Completion Report has also been prepared to satisfy additional post-construction reporting requirements from Ecology, and will provide added context to the federal regulators.

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# 5. Construction and Monitoring Activities

## 5.1. Contractor Procurement

The Project was delivered using the design-bid-build method, adhering to the competitive bidding process outlined in RCW 39.04, which mandates awarding the contract to the lowest responsible bidder. The bid advertisement was published in multiple newspapers in August 2024, including the Daily Journal of Commerce, Tacoma News Tribune, and The Olympian. Following this process, Orion Marine Group (Orion) was identified as the lowest responsible bidder and was awarded the contract in September 2024.

## 5.2. Construction Schedule

All construction activities were conducted by Orion from 11/15/2024 to 02/15/2025. KPFF and Herrera staff provided construction oversight support throughout the duration of the work. Table 2 provides a summary of the project construction schedule, and a photographic log with representative photos of the work is included in Appendix C.

<b>Table 2. Construction Schedule for the Dickman Mill Piling and Debris Removal Project, Tacoma, Washington.</b>						
<b>Construction Activity</b>	<b>Sep-24</b>	<b>Oct-24</b>	<b>Nov-24</b>	<b>Dec-24</b>	<b>Jan-25</b>	<b>Feb-25</b>
Bid Award	X					
Mobilize/Setup on Site			X			
Piling and Superstructure Removal			X	X		
Debris Removal and Pile Cutting				X	X	
Final Sweep Area					X	
Sand and Gravel Habitat Mix Placement					X	X
Substantial Completion						X

Orion began mobilization in late November 2024. This included bringing a barge-mounted crane to the site. Silt curtains and oil absorbent booms were placed at the location of construction activities. Following initial instrumental water quality monitoring by Herrera, Orion conducted continuous visual turbidity monitoring from skiffs and by the crane operator. KPFF and Herrera also performed independent visual monitoring to verify no water quality impacts were caused by construction activities. All heavy equipment used water-based hydraulic fluids. No onshore access was needed.

Pile and superstructure removal started in the eastern pile field and progressed to the west. Initial full pile extraction occurred from mid-November to mid-January. After this, there were 21 days of diver-assisted work removing debris and cutting piles. All removed materials were placed in a barge, and the piles wastewater within the barge were then transferred to Orion's yard in Tacoma. Off-site hauling of these materials took place in late January and February 2025.



After the diver-assisted activities, Orion placed the sand and gravel habitat mix from late December 2024 until January 2025.

## 5.3. Piling and Debris Removal

This section summarizes activities and provides documentation of piling and debris removal. The NWP Certification Documenting Completion of Authorized Activity is included in Appendix D. Orion's Post Construction Report is provided in Appendix E and contains the following project documentation information:

- Daily pile removal logs
- Location and volume of debris removed
- Sand/gravel quantity and placement
- Dive hours and completed work days
- Disposal truck tickets
- Pile cutoff locations

### 5.3.1. Direct Pull and Vibratory Hammer-Assisted Piling Removal

Orion's initial extraction method involved using a vibratory hammer to loosen each pile before direct pulling with a choker chain. This method allowed vibration to stop as soon as the pile was loose in order to minimize resuspension of contaminated sediment. However, field observations indicated that direct pulling proved to be largely effective without the need for the vibratory hammer. The project team communicated these observations to Laura Inouye at the Department of Ecology. Following this communication, it was agreed that direct pulling would be the primary pile removal method, with the vibratory hammer employed only in situations where piles proved difficult to remove directly. This adaptation of the removal process improved efficiency and minimized unnecessary vibration.

Daily piling removal logs are presented in Orion's Post Construction Report in Appendix E, and key details regarding pile removal are summarized as follows:

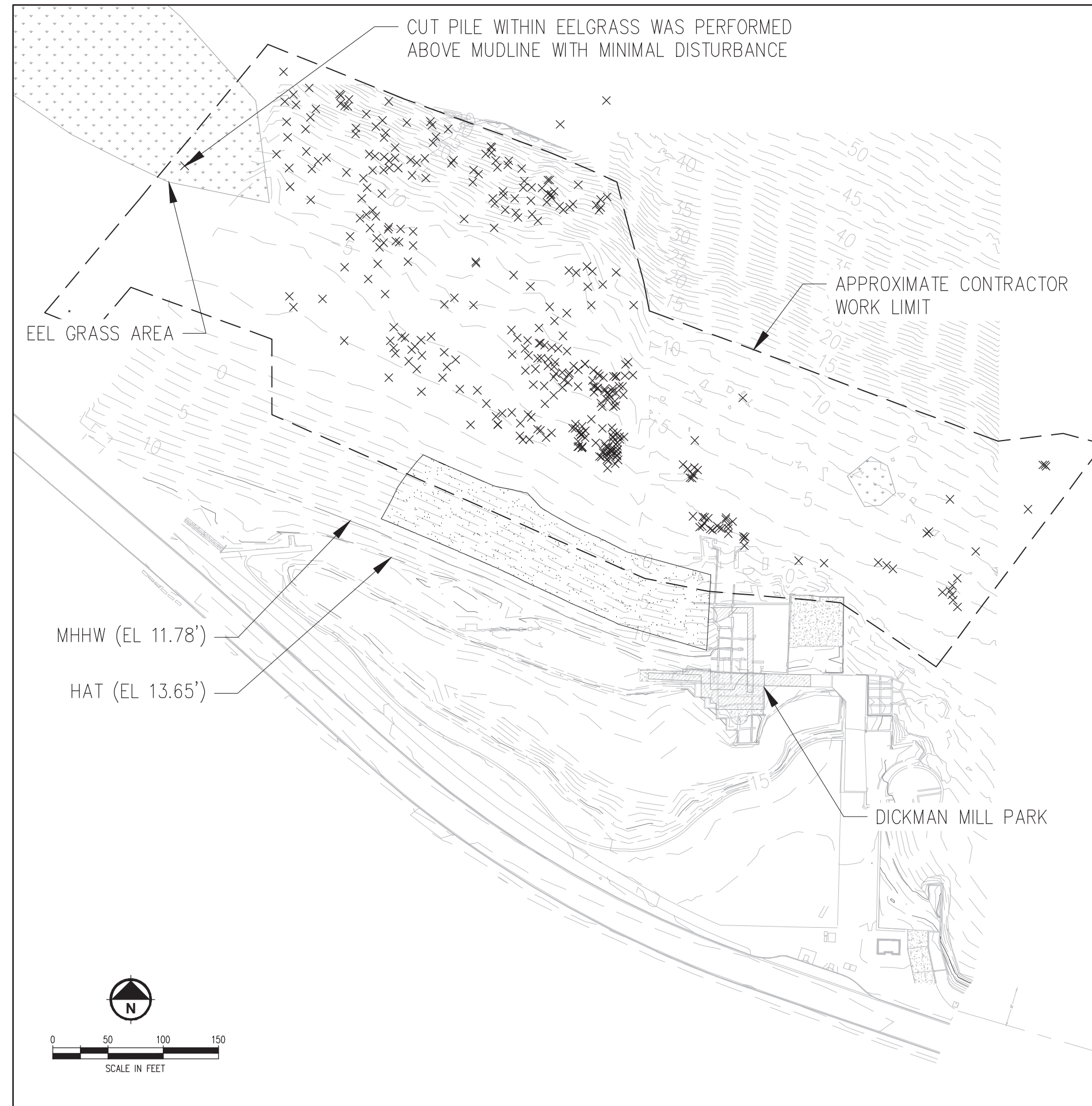
- Initial extraction method: Vibratory hammer to loosen, then direct pull.
- Revised method: Direct pull, with vibratory hammer used as needed.
- Total piles fully extracted: 986
- Total piles cut below mudline: 379
- Average pile diameter: 14 inches
- Approximate pile length: 30 to 50 feet
- Estimated weight of creosote timber and debris: approximately 1,165.52 tons
- Weight of creosote-contaminated wastewater: 107.75 tons (disposed off-site)

### 5.3.2. Diver-Assisted Cutting of Pilings Below Mudline

Crux Diving, as a subcontractor to Orion, performed all diving-assisted work, including debris removal and cutting piles below the mudline. Diver-assisted cutting of pilings below mudline required divers to excavate 2 feet below the mudline before cutting piles with an underwater pneumatic saw, followed by covering the resulting holes with the sand and gravel habitat mix. A total of 379 pilings required cutting below the mudline, largely because their condition had deteriorated, and they broke off during extraction attempts. Cut pile locations are shown in Figure 4.

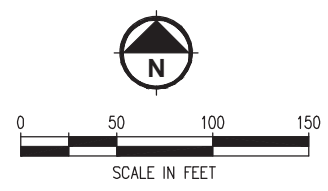
The contractor initially performed the excavation at mudline using an air lift method and concerns were raised within the project team about compliance with permit requirements. Consequently, the contractor paused excavation with the air lift method, and transitioned to hand digging per contract requirement. The project team then coordinated with Ecology to address potential concerns about the air lift method, and confirmed through that it would not negatively impact water quality (see Section 4 of this report for more information). With agency approval, the contractor resumed using the air lift method, which allowed for efficient cutting of the remaining pile stubs within the allowed fish window. The diving operations spanned a total of 21 days.

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# LEGEND

- 10 ----- CONTOUR
- MHHW ----- MHHW (EL 11.78')
- HAT ----- HIGHEST ASTRONOMICAL TIDE (HAT) (EL 13.65')
- x AS-BUILT PILE CUT OFF LOCATION (QTY: 379)
- [Pattern: Downward arrows] APPROXIMATE EELGRASS AREA
- [Pattern: Dotted] EXISTING GRAVEL CAP AREA



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<b>AS-BUILT PILE CUT OFF PLAN FOR THE DICKMAN MILL PILING AND DEBRIS REMOVAL PROJECT, TACOMA, WASHINGTON</b>	
<b>DATE:</b> 2025-03-25	<b>SCALE:</b> AS SHOWN
<b>DRAWN BY:</b> KK	<b>FIGURE 4</b>

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### 5.3.3. Diver Verification Surveys

From 1/22 to 1/27/2025, prior to placement of sand and gravel habitat mix, divers conducted underwater surveys to ensure that all piling had been removed or cut below mudline, and all debris larger than two feet had been removed from the site. Verification included KPFF review of video taken by divers.

### 5.3.4. Piling, Debris, and Wastewater Disposal

The removed piles, debris, and barge-contained wastewater were transferred to Orion's yard in Tacoma. Off-site hauling and disposal occurred in late January and February. The removed materials consisted primarily of creosote-treated timber, weighing an estimated 1165.52 tons, and 107.75 tons of creosote-contaminated wastewater. Divers also retrieved a small amount of debris, such as tires, which constituted less than 1% of the total disposed material. All pilings and debris were loaded onto Orion's barge, offloaded at their Tacoma yard, and then transported by train to Waste Management's Columbia Ridge Landfill in Oregon. The wastewater was tested and disposed of at an approved off-site facility.

Manifests for Landfill Disposal of Piling and Debris are presented in Orion's Post Construction Report in Appendix E.

## 5.4. Sand and Gravel Habitat Mix Placement

The project team designed the sand and gravel habitat mix to a minimum of 6 inches and allowed contractor to place up to 8 inches. This accounted for field constructability and potential variations in material placement. The contractor used a 5.8-foot by 10.9-foot bucket, with each bucket holding a 0.5-foot depth of material. This bucket is commonly known as the "Bombay Box" in the industry. The contractor recorded the location of each bucket placement and provided a bucket placement map to the project team to show placement of the materials are located per the design documents. Bucket placement locations are shown in Figure 5. The habitat mix was placed over a period of 8 days from January 28 through February 7, 2025. The materials arrived in two barge loads, with each load taking 4 days to apply from Tuesday through Friday of each week within the placement period.

The sand and gravel habitat mix material was sourced from Cal Portland's aggregate plant in Dupont, Washington. To verify the material was free of sediment contaminants of concern per the project specifications, the contractor submitted laboratory reports of sand and gravel sample analysis for total metals (arsenic, cadmium, chromium, copper, lead, mercury, silver, and zinc) by EPA Methods 6020B/7471B, polychlorinated biphenyls (PCBs) by EPA Method 8082A, semivolatile organic compounds (SVOCS) by EPA Method 8270E-SIM, and polychlorinated dibenzodioxins/furans by EPA Method 1613B. The laboratory analytical results confirmed that no concentrations of sediment contaminants of concern in the material samples exceeded the marine sediment quality standards listed in Table I of the Sediment Management Standards in WAC 173-204-320.

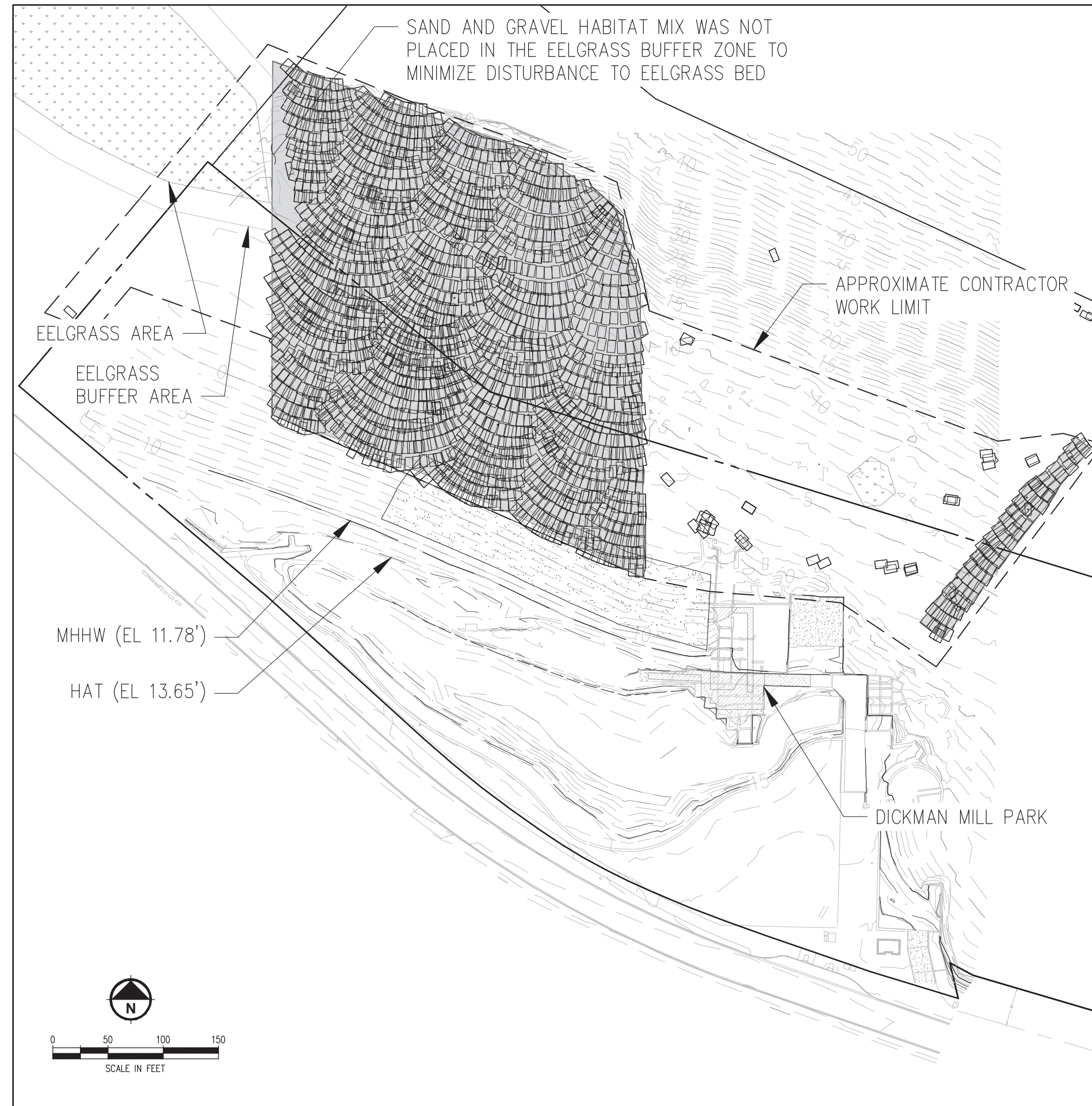
To verify the material gradation met requirements, the contractor and Herrera each performed sieve tests on material samples before placement with similar percent passing results for 2-inch gravel (100 percent

for both tests), 1-inch gravel (83 and 77 percent, respectively), 2-millimeter sand (48 and 47 percent, respectively), and 74-micron fines (0.6 and 0.1 percent, respectively).

To verify the placed material quantity and thickness met requirements, the contractor conducted daily measurements of material mass applied and material density to determine the volume of material placed each day to a known area. The contractor used barge draft readings before and after placement to estimate the daily mass, and truck weight tickets of the total materials delivered from the quarry to adjust the barge draft values for calculating the daily tons of material placed. The bucket locations were mapped and used to calculate the daily placement area. The daily mass was converted to a daily volume and divided by the daily area to calculate the average material thickness in the area for each placement day.

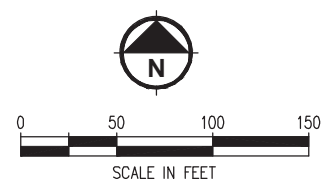
The total mass of sand and gravel habitat mix applied to the site was 3,557.0 tons, which is equivalent to a volume of 67,113 cubic feet based on an average density of 106 pounds per cubic foot. The total area placed was 116,926 square feet (6.68 acres), which included 109,377 square feet (93 percent of total) in the western dense pile field, 5,642 square feet (5 percent of total) in the eastern dense pile field, and 1,907 square feet (2 percent of total) for individual piles in the remaining eastern pile area. The average material thickness was 6.89 inches and ranged from 5.2 to 9.1 inches on a daily basis. Documentation for placement of the sand and gravel habitat mix is presented in Orion's Post Construction Report in Appendix E.

The contractor's initial method of placing the sand and gravel habitat mix was to open the doors of the Bombay box several feet above the water surface. However, due to visual turbidity observations on January 30 and 31, 2025, the contractor revised their operations for the second week of placement by lowering the Bombay box into the top of the water column before opening the doors. Additionally, Herrera obtained a second 5-gallon bucket sample of the sand and gravel mix on February 4, 2025 from the contractor's barge, and submitted it to HWA Geosciences, Inc. for testing to assess the fines content. The test results confirmed that the sample met the project specification of not to exceed 1 percent fines.



# LEGEND

- 10 ----- CONTOUR
- MHHW ----- MHHW (EL 11.78')
- HAT ----- HIGHEST ASTRONOMICAL TIDE (HAT) (EL 13.65')
- [Solid Gray Box] SAND AND GRAVEL HABITAT MIX PLACEMENT LIMIT
- [Box with Downward Arrows] APPROXIMATE EELGRASS AREA
- [Box with Dotted Pattern] EXISTING GRAVEL CAP AREA
- [Small Rectangle] AS-BUILT SAND AND GRAVEL HABITAT MIX PLACEMENT BUCKET MARK BASED ON ACTUAL PILE LOCATIONS



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<b>AS-BUILT SAND AND GRAVEL HABITAT MIX PLACEMENT BUCKET MAP FOR THE DICKMAN MILL PILING AND DEBRIS REMOVAL PROJECT, TACOMA, WASHINGTON</b>	
<b>DATE:</b> 2025-03-25	<b>SCALE:</b> AS SHOWN
<b>DRAWN BY:</b> KK	<b>FIGURE 5</b>

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## 5.5. Water Quality Monitoring

Water quality monitoring was conducted according to the Water Quality Monitoring and Protection Plan (WQMPP) prepared for the Project (Herrera 2024b). A combination of instrumented and routine visual monitoring was conducted during overwater work and in-water activities below MHHW. A brief summary of the monitoring methods and any deviations from the WQMPP are described below, followed by the monitoring results and corrective actions.

### 5.5.1. Monitoring Methods

#### 5.5.1.1. Organization and Responsibilities

The Herrera consulting team implemented the WQMPP during all construction activities. Trained water quality scientists at Herrera served as Monitors to conduct water quality monitoring, prepared the monitoring reports, and inspected the Contractor's implementation of BMPs. KPFF engineers lead the Contractor construction oversight and served as Monitors to assist Herrera with visual water quality monitoring as needed. In addition, the Contractor designated an environmental lead to provide continuous visual monitoring from the barge and skiffs during construction activities. Together, Herrera, KPFF, and Contractor staff maintained frequent communications on a daily basis via phone, text, and email to discuss visual observations and turbidity measurements recorded during the work, and corrective actions, if needed. Water quality monitoring was conducted on all days during construction, except during deployment of turbidity curtain and oil boom, and when the barge was swapped out.

Herrera provided a zodiac boat and monitoring equipment (i.e., YSI Pro DSS multimeter with turbidity sensor) as needed during instrumented monitoring. A boating safety plan was prepared and followed for all over-water monitoring.

#### 5.5.1.2. Instrumented Monitoring

Per the WQMPP, instrumented monitoring was performed to avoid or minimize the potential for turbidity exceedances at the 150-foot point of compliance. Instrumented monitoring was conducted during the following activities:

- Piling and debris removal, including demolition of remnant superstructures associated with pilings
- Placement of clean sand and gravel after piling removal

Instrumented monitoring was implemented every 4 hours for 2 days in the first 7 days of any of the aforementioned activities. If there were no exceedances of water quality criteria after the first 7 days of removal of pilings and debris or placement of clean sand and gravel, then the monitoring was reduced to routine visual monitoring (described below). Monitors also recorded observations of petroleum sheens if present and looked for distressed or dying fish in the vicinity of the construction activities.

### 5.5.1.3. Routine Visual Monitoring

Routine visual monitoring was also conducted per the WQMPP during the same activities listed above for instrumented monitoring. Visual monitoring for turbidity was conducted continuously during construction and also included observations for petroleum sheens and distressed or dying fish in the vicinity of the construction activities. Monitors also observed the turbidity curtain and oil absorbent booms to look for gaps or portions that may have become detached, and relayed any needed corrective actions to the Contractor.

#### *Monitoring Stations and Depths*

During all instrumented monitoring, monitoring occurred at the stations described in the WQMPP that included:

1. Background Station - approximately 300 feet upcurrent of the point of construction activity.
2. Early Warning Station - approximately 100 feet downcurrent of the point of construction activity.
3. Compliance Stations - two monitoring stations at a distance of 150 feet downcurrent of the point of construction activity.

Monitoring was conducted multiple depths in the water column at each station:

- Surface—Within 3 feet (approximately 1 meter) of the water surface
- Middle—At mid-depth in the water column
- Bottom—Within 3 feet (approximately 1 meter) of the mudline

Turbidity measurements from each of the three depths were compared to each of the three corresponding depths at the Background Station to determine if an exceedance occurred. Turbidity results were evaluated to determine compliance and results were shared the same day with the Contractor.

### 5.5.2. Monitoring Results and Corrective Actions

Water quality monitoring was conducted for a total of 41 days during all active construction activities (i.e., during all pile pulling and debris removal, pile cutting, and sand and gravel mix placement). Instrumented monitoring with turbidity measurements was completed on a total of eight days, and routine visual monitoring was performed during the other 33 days of construction work. A copy of all field forms documenting the instrumented and visual water quality monitoring is included in Appendix F.

#### 5.5.2.1. Oil Sheen Observations

An oil sheen was observed on the water surface on a total of 15 days during construction. On 14 of those days, the sheen was observed inside the work area surrounded by the turbidity curtain, and was absorbed by an oil boom tethered inside the curtain. On one occasion, a slight oil sheen was observed outside the turbidity curtain and oil boom, and the contractor was immediately notified. The contractor closed a gap identified in the curtain and circled the sheen area to contain it using a section of oil boom deployed from a skiff.

### 5.5.2.2. Turbidity Observations

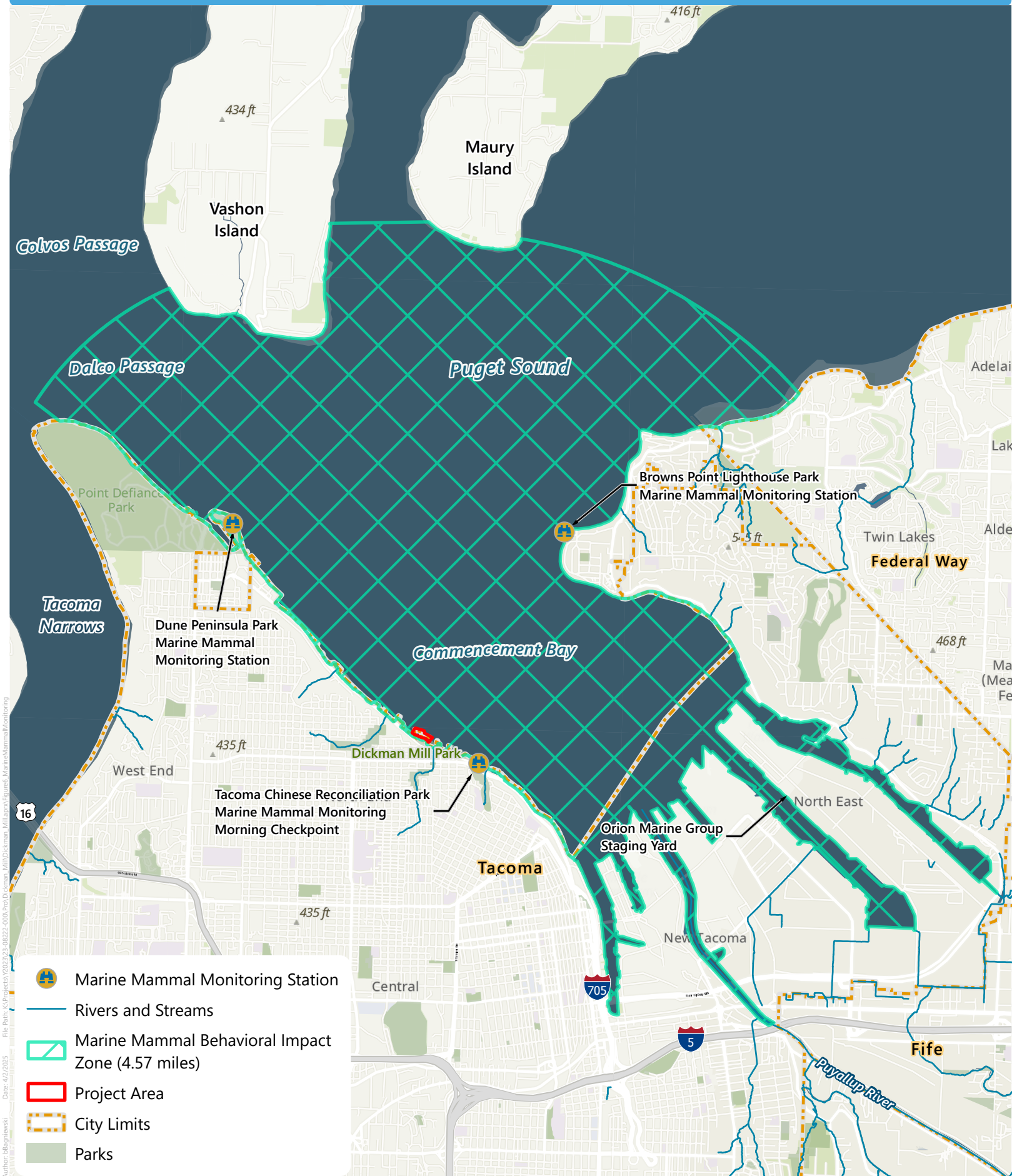
No turbidity impacts were observed during any visual or instrumented monitoring of piling and debris removal, including when divers were using the air-lift dredge to excavate sediment from pilings before cutting.

Turbidity criteria were not exceeded from instrumented monitoring during the first two days of placing the sand and gravel habitat mix. However, a low level of turbidity was visually observed during routine visual monitoring on January 30 and 31, 2025, during the third and fourth days of placing the sand and gravel habitat mix. Based on these observations, Herrera Monitors resumed instrumented monitoring at the site on February 4 and 5, 2025 when material placement resumed with the second barge load. On the morning of February 5, 2025 during the first set of measurements from 9:18 to 9:50 am, turbidity at the early warning station (15 NTU) and point of compliance station (17 NTU) exceeded the allowable turbidity criterion (i.e., were more than 5 NTU above the upcurrent background station turbidity reading of 2.7 NTU).

Herrera immediately discussed the turbidity observations with KPFF and Orion's operator on the barge and noted that the contractor had been releasing the sand and gravel mix with the doors of the Bombay box opening approximately 5- to 10-feet above the water surface. Orion modified their operations for the remainder of that day and the two subsequent days of sand and gravel placement by lowering the Bombay box into the water before opening the doors. The reduction in turbidity with the modified release method was immediately noticeable and verified by a second set of measurements from 10:47 to 11:06 am that were in compliance (i.e., turbidity at the early warning station and point of compliance stations were less than 5 NTU above background). Instrumented turbidity measurements from 1:18 to 1:32 pm on February 5, 2025 remained in compliance with the turbidity criteria, and visual monitoring resumed on February 6 and 7, 2025 showing no turbidity impacts for the last two days of sand and gravel placement.

## 5.6. Marine Mammal Monitoring

Monitoring for Endangered Species Act (ESA)-listed Southern Resident Killer Whales (SRKW) (*Orcinus orca*) and humpback whales (*Megaptera novaeangliae*) in the Marine Mammal Behavioral Impact Zone (MMBIZ) was performed according to the Marine Mammal Monitoring Plan (MMMP) prepared for the Project (Floyd | Snider 2024) and the approved amendment modifying the number of observers and monitoring locations. Other marine mammals observed were also documented. A brief description of the monitoring methods and locations are described below, followed by the monitoring results. The marine mammal monitoring locations in relation to the site are shown in Figure 6.



File Path: K:\Projects\2022\23-08222-000\Pro-Dickman\_Mill\Dickman\_Mill\Map\Figures\_MarineMammalMonitoring  
 Date: 4/2/2025  
 Author: bBagniewski

### 5.6.1. Monitoring Methods and Locations

Marine mammal monitoring was provided continuously throughout the piling removal phase of the Project by Herrera Protected Species Observers (PSOs). Each day, prior to the start of active pile removal when the vibratory hammer might be used, the Lead PSO and trained PSO would monitor the Orca Network website and Facebook page for reports of recent whale sightings near the MMBIZ.

One PSO arrived at Browns Point Lighthouse Park while a second PSO would visit Tacoma Chinese Reconciliation Park to visually confirm that the inner portion of Commencement Bay was clear of protected species. The second PSO then moved to Dune Peninsula Park. Visual monitoring, using 8 or 10 power binoculars continued from Browns Point Lighthouse Park and Duke Peninsula Park for the duration of piling removal. The Lead PSO monitored weather conditions to verify visibility was suitable for monitoring.

Herrera PSOs coordinated daily with Orion’s construction superintendent and KPFF’s Resident Engineer to discuss potential work restrictions if protected species were observed. Early each morning, once the MMBIZ was observed to be free of SRKW and humpback whales, the Lead PSO notified the construction superintendent and Resident Engineer it was okay to start work. Coordination between the Lead PSO and construction superintendent and Resident Engineer continued via text and telephone calls throughout each day, noting times when the vibratory hammer was being used for piling removal, and warning of whale sightings that may influence work activities. If weather conditions limited visibility, or SRKW or humpback whales were observed in the MMBIZ, the lead PSO would notify the construction superintendent and Resident Engineer to not use the vibratory hammer for pile removal during that time. Once visibility was restored, the whales left the area, or whales had not been observed for 15 minutes, Herrera communicated a notification to resume work with vibratory hammer if needed. Observations continued each day for 15 minutes past the end of piling removal work.

As a conservative measure, any orca whales observed were assumed to be SRKW, to avoid the risk of misidentifying SRKW.

### 5.6.2. Monitoring Observations and Corrective Actions

Herrera PSOs monitored during piling removal on 22 days from November 20, 2024 through December 26, 2024, and were always notified when the vibratory hammer was used. Herrera staff observed orca whales on two occasions (December 11 and 16, 2024), but the mammals were either outside of the monitoring zone (MMBIZ) or were observed when the vibratory hammer was not being used, so no notification to stop work was given.

Other marine mammals observed in the MMBIZ included Harbor seals (*Phoca vitulina*), California sea lions (*Zalophus californianus*), and Harbor porpoises (*Phocoena phocoena*). Marine mammal feeding, travel, and rest patterns appeared to be unchanged in response to piling removal activities, including during use of the vibratory hammer. The number of individuals was consistent except on days of extreme weather conditions. Several marine mammals would exit and reenter the MMBIZ throughout the day while work was being performed. A copy of the field forms for marine mammal monitoring are included in Appendix G.

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## 6. Conservation Credits

Prior to construction, Floyd | Snider used the SSNP calculator to estimate the potential value of piling and debris removal for the Project to be 4,673 credits. This value was approved by NMFS on June 18, 2024. As described in Section 4, the initial estimate of credits was based on an estimated tonnage of 1,874 tons of creosote to be removed, which assumed the length of piling below mudline was approximately 2-times greater than the as-built length of piling above mudline.

The total tonnage of material disposed at the Columbia Ridge Landfill and Recycling Center was documented to be 1,165 tons based on truck tickets between December 19, 2024 and February 27, 2025 (Appendix E). Up to 5 percent (58 tons) of this total is conservatively estimated to be non-creosote material associated with debris that was removed from the site. Therefore, the total estimated creosote removed is 1,107 tons – 60 percent of what was originally estimated. The discrepancy between this final value and the original estimate is because the length of piling embedded below mudline was less than 2-times the length of piling above mudline.

The SSNP calculator has been updated to reflect the post-project tonnage of creosote removed (1,107 tons), which resulted in 3,015 credits generated. This information will be provided to NMFS through post-construction reporting.

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## 7. Total Project Cost

Project costs are summarized in Table 3 for three project tasks. The cost of construction by the Contractor (\$2,206,000) represents 73 percent of the total project cost (\$3,033,000). Consultant costs accounted for the remaining \$827,000 of the project cost for design, permitting coordination, construction management, marine mammal monitoring, and project close out.

**Table 3. Project Cost Summary.**

<b>Task</b>	<b>Cost<sup>a</sup></b>
Design and Permitting Coordination	\$307,000
Construction Cost <sup>b</sup>	\$2,206,000
Construction Management, Marine Mammal Monitoring and Project Close Out	\$520,000
Total	\$3,033,000

<sup>a</sup> Costs are rounded to the nearest thousand.

<sup>b</sup> Construction cost, which includes 10.3% sales tax, is approximate and preliminary at the time of this report.

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## 8. References

DNR. 2022. DNR Dive Team Dickman Mill Survey. Washington State Department of Natural Resources, Olympia, Washington.

Ecology. 2025. Dickman Mill Site Background reviewed March 13, 2025, at the Washington State Department of Ecology's Cleanup and Tank Search webpage <<https://apps.ecology.wa.gov/cleanupsearch/site/3112>>

Floyd | Snider. 2024a. Marine Mammal Monitoring Plan Memorandum for the Dickman Mill Piling Removal Project. Prepared for the Washington State Department of Natural Resources by Floyd | Snider, Seattle, Washington. July 23, 2024.

Floyd | Snider. 2024b. Marine Mammal Monitoring Plan Memorandum for the Dickman Mill Piling Removal Project. Prepared for the Washington State Department of Natural Resources by Floyd | Snider, Seattle, Washington. July 23, 2024.

Herrera. 2024a. Dickman Mill Site History and Sediment Data Summary. Prepared for the Washington State Department of Natural Resources by Herrera Environmental Consultants, Seattle, Washington. January 12.

Herrera. 2024b. Water Quality Monitoring and Protection Plan for the Dickman Mill Piling Removal Project. Prepared for the Washington State Department of Natural Resources by Herrera Environmental Consultants, Seattle, Washington. February 6, 2024 (Revised March 27, 2024).

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# Appendix A

## Site History and Sediment Investigation Summary

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# TECHNICAL MEMORANDUM

**Date:** January 12, 2024  
**To:** Tim Goodman and Abby Barns, WDNR  
**Copy to:** Tessa Gardner-Brown, Floyd | Snider  
**From:** Rob Zisette, Herrera Environmental Consultants  
**Subject:** Dickman Mill Site History and Sediment Data Summary

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This memorandum was prepared in order to summarize the site history and sediment data for the Dickman Mill Site (Site) located in Tacoma, Washington. It provides background information in planning for piling and debris removal by the Washington State Department of Natural Resources (DNR). It is based on information presented and summarized by NewFields and Herrera (2023) in the 2022 Sediment Investigation.

## Site History

The Dickman Mill Site was the location of a lumber mill operated continuously from 1889 until its decommissioning in 1977. The mill facility was built upon land that was created by fill placed into the tide flat of Commencement Bay. Structures on the property included a large overwater wharf at the west end of the Site, a boiler house, a sawmill building, an office building, a machine shop, an auto shed, a concrete water tank, a decked area above tidelands at the east end of the Site, a sawdust burner, and a pier. The mill was initially powered by steam, and then it was converted to electric power generated by burning hog fuel in the sawdust burner between 1926 and 1927. The mill buildings were partially destroyed by fire in 1978.

Metro Parks Tacoma (Parks) purchased the eastern portion of the property in 1991 and the western portion in 1993. In 1998, in preparation for developing the Site into a public park, Parks demolished remaining remnants of the original sawmill buildings and removed them from the Site. Remnant creosote-treated pilings that once supported the overwater wharf, decked area, and pier remain today.

## 1985–2000 Upland and Intertidal Site Investigations

Environmental investigations conducted since 1985 have mapped the contamination of intertidal sediments and upland soils with metals (copper, lead, mercury, arsenic), individual PAH compounds, and cPAH concentrations in excess of Site cleanup standards (Ecology 2017). Additionally, oil residues and sulfur oxidizing bacterial mats have been observed on upland and intertidal substrates. Site cleanup standards were defined by media and elevation relative to mean lower low water (MLLW). Intertidal sediments were evaluated for metals relative to Ecology-promulgated Sediment Quality Standards (SQS). Intertidal sediment PAH and PCB concentrations were screened against Commencement Bay Sediment

Quality Objectives (SQOs) promulgated by the Environmental Protection Agency's 1989 Record of Decision for the Commencement Bay Superfund Site. Upland soils, defined as soils at elevations greater than +14 feet MLLW, were screened against soil cleanup standards defined by Washington's Model Toxics Control Act (MTCA) Methods A and B, depending on individual analyte (see Ecology 2017, Table 1).

In 1999, Parks entered into an Agreed Order with Ecology to conduct remedial actions at the Site in support of future upland development (Ecology 1999). Upland remedial activities were conducted at the Site in 2000 and 2001. The upper 1 foot of sediment containing concrete rubble and wood debris was excavated from the northwest beach and replaced with 1 foot of pea gravel to improve the habitat quality of the substrate. Confirmatory testing of the remaining sediment below the emplaced gravel showed no elevated chemicals of concern (COCs) (Hart Crowser 2001). A minimum of 2 feet of soil cover was placed in upland areas consisting of 1 foot of structural fill covered by 1 foot of topsoil. An estimated 1,675 cubic yards of contaminated materials, including shredded creosote timber, lead, and petroleum, were excavated from the upland tidal channel as part of the cleanup action (Hart Crowser 2001). Ultimately, due to constraints of the tide, equipment, and stability of the excavation, complete removal of oily materials was unachievable within the tidal channel. The tidal channel was capped with at least 2 feet of clean cap material. Two years of post-construction confirmational groundwater monitoring showed that construction activities did not appear to have significantly impacted groundwater quality at the Site. Groundwater monitoring was discontinued (Ecology 2017).

Post-construction sediment cap monitoring was conducted from 2003 through 2005 to determine erosion and stability of the cap. Ecology concluded there was no evidence of significant cap erosion and approved the discontinuation of post-construction cap monitoring (Ecology 2017).

Following remedial activities, Parks and Ecology entered into a Restrictive Covenant regarding the Dickman Mill property on February 1, 2007. The Restrictive Covenant was required, as a result of decisions made during Remedial Action to leave residual concentrations of PAHs underneath the sediment cap in the tidal channel. The Restrictive Covenant dictates the limitations, restrictions, and uses of the property to ensure long-term protection for the cleanup completed at the Site (Ecology 2007).

## 2015 Subtidal Sediment Investigation and Remediation

In 2015, the DNR collected 10 surface sediment samples within and surrounding the remnant piling fields adjacent to the Site (Figure 1) (Mott MacDonald 2020). Each sample was analyzed for metals and semi-volatile organic compounds (SVOCs), including PAHs, total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), total organic carbon (TOC), sulfide, ammonia, total volatile solids (TVS), total solids, and grain size. Five samples were additionally analyzed for dioxins/furans. A slight sheen was observed in two samples within the northeast and southeast quadrants of the northwest pile field. and in two samples immediately adjacent to the seaward end of the relict pier. Heavy sheen was observed in one sample within the center of the northwest piling field.

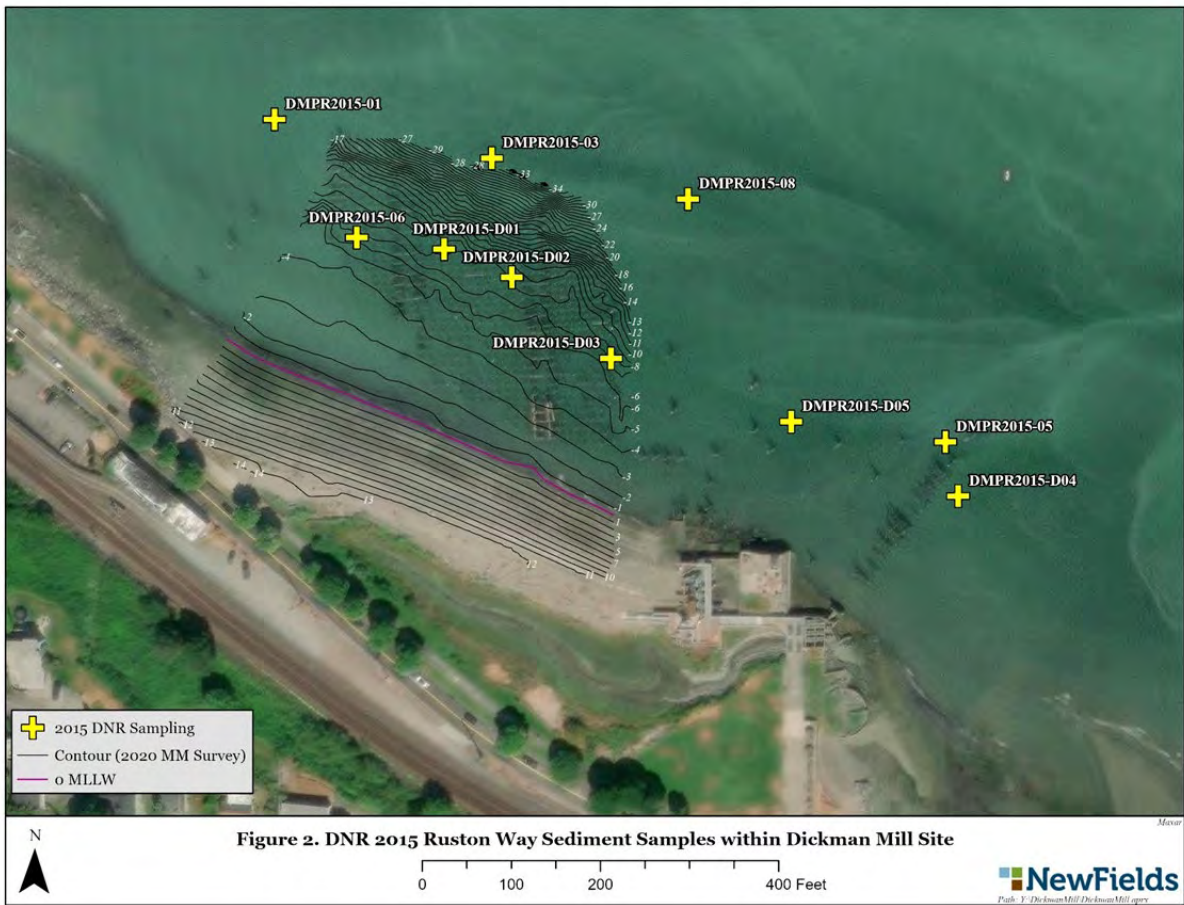


Figure 1. 2015 Subtidal Sediment Sampling Locations at Dickman Mill.

Modeling of sediment erosion within the piling field after piling removal demonstrated 1) that a typical 2-year storm event would induce minimal erosion of sediments within the piling field and 2) that a more energetic 50-year storm would cause relatively mild erosion (Mott MacDonald 2021). Gravel and coarse sands were not anticipated to be significantly mobilized, while finer sediment size fractions (e.g., clay, silt, and remnant sawdust) were anticipated to be transported to the southeast into deeper water within Commencement Bay.

## 2022 Diver Survey

DNR divers recently surveyed a subsampling of existing pilings within the northwest piling field, in support of their work to characterize the sediment, the condition of pilings, and the presence of eelgrass and benthic vegetation, as well as any debris. Figure 2 presents pile condition and debris observations. More than 90 percent of the 42 pilings surveyed were observed to be intact and in good condition with minimal degradation (DNR 2022).



Piling condition rating: 1= not degraded, 2 = moderately degraded, 3 = very degraded

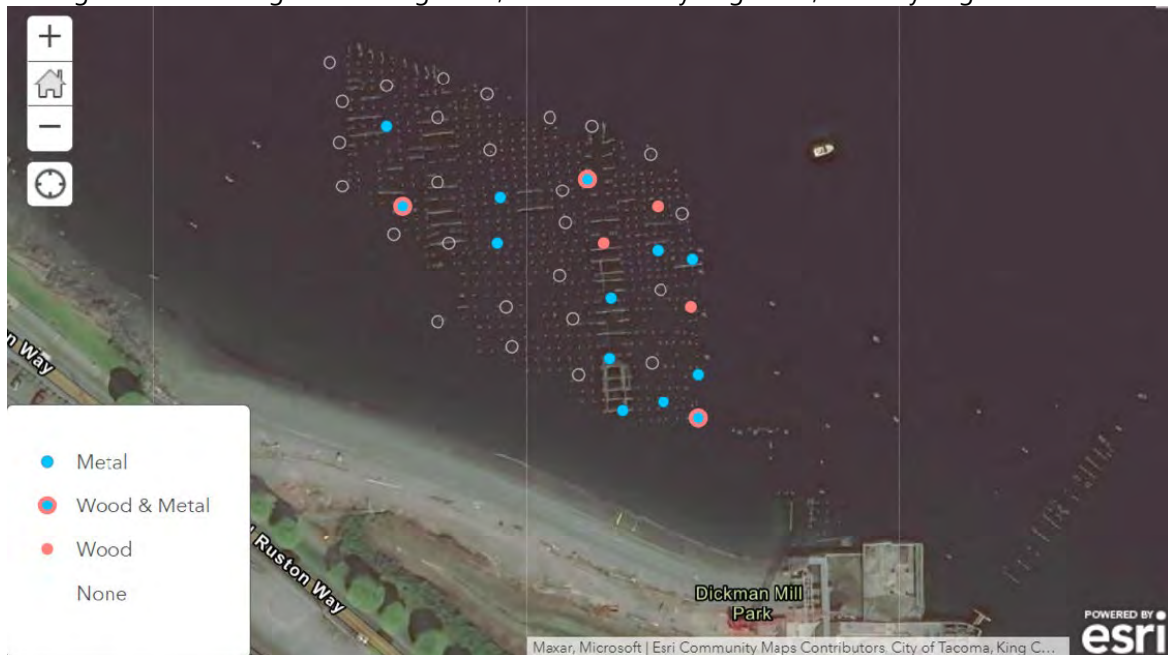


Figure 2. Pile Condition (top) and Debris (bottom) Observed During 2022 DNR Diver Survey (Source: DNR 2022).

The sediment type within the piling field was predominantly shell hash on either mud or sand substrate. Finer muds were predominant in the western portion of the piling field, while the eastern portion was characterized by coarser sands with observations of a mixture of cobbles and shell hash in the shoreward edge of the piling field.

Debris in the piling field included wood, metal rebar, and wood pieces with attached metal. Wood debris ranged in size from short stumps to whole pilings, with some large pieces silted in place on the sediment bed. Debris was present throughout the piling field but became more abundant proceeding southeastward across the field. The area to the west of the piling field was characterized by a healthy bed of eelgrass. No eelgrass beds were observed within the piling field.

## 2022 Sediment Investigation

In preparation of piling and debris removal, NewFields and Herrera (2023) conducted extensive investigation to characterize for DNR the nature and extent of contaminants (vertical and horizontal) and the potential impacts of wood waste on the benthic habitat within the Dickman Mill sediment area. The specific study objectives for the 2022 Dickman Mill sediment investigation were to:

- Evaluate the potential impact of piling removal on intertidal beach geomorphology.
- Assess the potential impacts of wood debris to subtidal benthic habitat using imaging analysis.
- Determine the nature and extent (vertical and horizontal) of contamination within the offshore areas of Dickman Mill, with a focus on PAHs and dioxins/furans.
- Evaluate the toxicity of contaminants and wood debris in offshore sediment areas using bioassays.

## Beach Geomorphology Evaluation

The geomorphic assessment conducted for 2022 sediment investigation did not find significant evidence that the present and predicted future condition of the dense pile field would function as a breakwater for the restored beach. Observations derived from aerial photographs and supported by the beach test pit excavations support the conclusion that the intertidal sediment cap has remained relatively stable since its construction, though it may be subject to partial mobilization during large storms. The continued presence of the sediment cap, 2 decades without significant erosion, and the apparent minimal protection provided by the pile field suggest that the piles can be safely removed with causing significant erosion of the cap or other parts of the shoreline.

## Wood Debris and Benthic Habitat Analysis

The investigation included conducting sediment profile imaging (SPI) to a depth of 20 cm at 33 locations. Plan view (PV) images of the sediment surface were collected at 41 locations. Imaging results provided information on the distribution and amount of wood debris present in the system and its impact to the benthic habitat.

Low amounts of wood debris were observed at the Site. Ecology's (2013) impact threshold of 20 percent by volume was exceeded at only six locations across the Site. However, these six locations contained stage III benthic infaunal communities and high apparent redox potential discontinuity (RPD) depths comparable to other nearby locations where wood debris was less or absent and where oxidized sediments were unpolluted. Thus, the presence of wood debris at volumes that might cause concern (20 percent or greater) does not appear to have a significant negative impact to the benthic community at the Dickman Mill Site.

The planned removal of the pilings is expected to reduce the source of wood debris to Dickman Mill sediments and to improve the benthic habitat quality across the site.

## Sediment Sampling and Analysis

Surface and subsurface sediment samples were collected from 18 locations within three study areas: dense pile field, east pile area, and outside area (Figure 3). Surface grab samples were collected to a depth of 10 cm at nine locations. Sediment cores were collected at nine locations. Sediment cores were analyzed at depth intervals of 0–1 feet, 1–3 feet, and 3–5 feet. However, due to subsurface obstructions, the 3–5 feet interval samples were only obtained at three locations. Varied numbers of samples were analyzed for grain size and other conventionals (29 samples), PAHs (29 samples), dioxins/furans (21 samples), other semivolatile organic compounds (11 samples), and metals (10 samples). In addition, one surface sample exceeding total HAPH and mercury criteria was analyzed for three bioassay tests.

For temporal, spatial, and depth comparison, the sediment characterization results are grouped by each Site area (Dense, East, and Other) and by study/depth type (2015 surface, 2022 surface, and 2022 subsurface) for the following parameters of interest: fines, mercury, total LPAH, total HPAH, total cPAH, and total dioxins/furans. Appendix A includes a series of box plots (Figures A1–A3) and a table of area means (Table A1). The box plots present the minimum, maximum, interquartile range, median (horizontal line), mean (solid triangle), and outliers (empty circle), and display the number of samples (n) and benthic criteria (SQS and CSL if applicable and within range).

## Grain Size

Surface sediments in all three project areas were comprised primarily of sand (~60 percent) with gravel (10–20 percent), silt (10–20 percent), and clay (10 percent). Percent fines (silt + clay) were similar among the 2015 and 2022 surface sediments showing lower mean fines in the dense pile field (16–19 percent) than the east pile or outside areas (20–27 percent) (Figure A1). Subsurface sediments in 2022 had higher mean fines in the dense pile area (35 percent) and lower mean fines in the outside area (13 percent in one sample).

## Metals

No metals in the sediment samples exceeded SQS, except for occasional minor exceedances of the mercury SQS (but not the CSL) outside the dense pile field in 2022 (in 2 of 6 surface samples and 1 of 3 subsurface samples, see Figure A1). In 2022, metals were not tested in dense pile area. However, based on the 2015 surface sample results, metals were likely similar to or lower than values observed in east pile and outside areas. For example, the mean mercury for 2015 surface samples was much lower in the dense pile area (0.10 mg/kg DW) than in the east pile and outside areas (0.30–0.32 mg/kg DW).

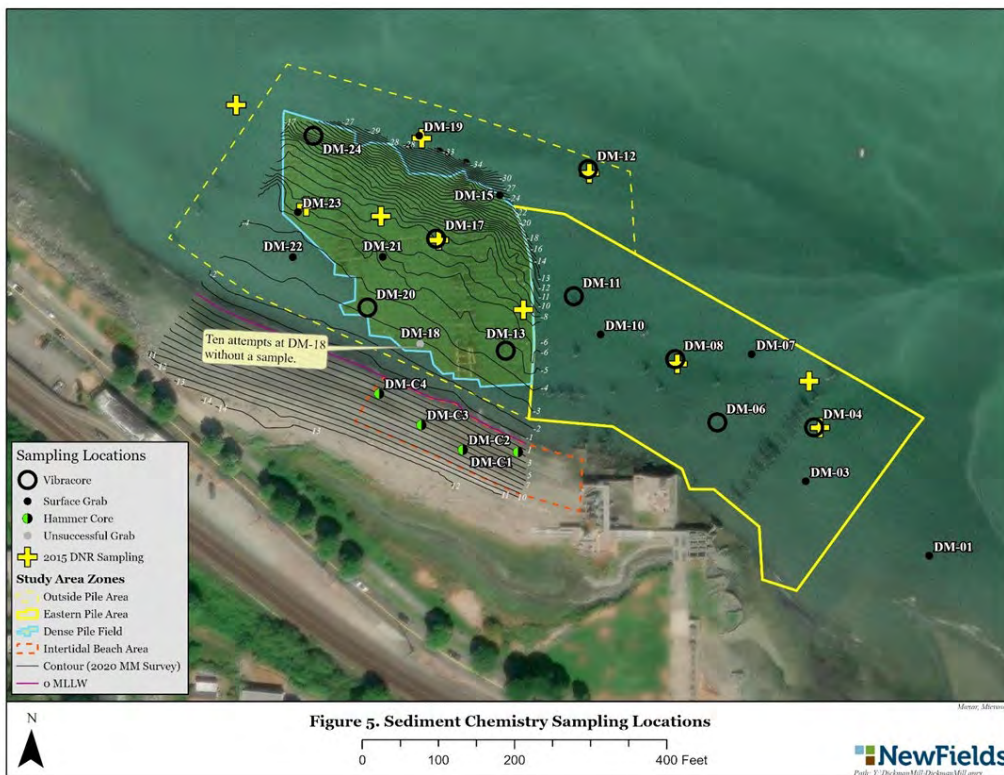


Figure 3. 2022 Sediment Study Areas (top) and Chemistry Sampling Locations (bottom).

## PAHs

In 2022, PAHs rarely exceeded SQS criteria for surface and subsurface samples (see Figure A2). Only the following exceedances were observed:

- In 2015, total LPAHs only exceeded the SQS and CSL (5,200 µg/kg DW from AETs for both criteria) for one or more samples in each of the three areas. In 2022, total LPAHs significantly decreased to below the SQS in all areas.
- Total HPAHs exhibited a similar pattern to total LPAHs between years, areas, and depth types. In 2015, total HPAHs exceeded the SQS or CSL (12,000 and 17,000 µg/kg DW from AETs, respectively) for one or more samples in each of the three areas. In 2022, total HPAHs significantly decreased to below the CSL in all areas except for one of the six subsurface samples in the east pile area.

Total cPAH TEQ in surface samples significantly decreased in all areas from 2015 to 2022 (see Figure A3). In 2022, the mean cPAH TEQ in surface samples exceeded natural background for Puget Sound (21 µg/kg DW) by an order of magnitude in all areas (518, 685, and 518 µg/kg DW in the dense, east, and outside areas, respectively). This finding has been a key driver in the decision to place clean material at the site after the planned piling removal.

In 2022, an insufficient number of samples were collected to test for statistically significant differences in PAH concentrations among the three site areas and two depth types. However, the lack of overlapping interquartile ranges (25th–75th percentiles) among the site areas and depth types indicates that PAH concentrations were not substantially different between the site areas and depth types (Figures A1–A3).

## SVOCs

In 2022, no phthalates, chlorinated hydrocarbons, phenols, or miscellaneous SVOCs exceeded SQS in the 5 surface samples and 1 subsurface sample from the Dense Pile Area or in the 2 surface and 4 subsurface samples from the East Area.

## Dioxins

In 2022, the mean dioxins/furans TEQ in surface samples was lower in the dense pile area (25 ng/kg DW for 5 samples) than in the east area (35 ng/kg DW for 4 samples). However, it was not lower in the outside area (12 ppb for 2 samples) and showed no increase with depth in any area. In 2015, similar results were observed for surface samples collected from the dense and east pile areas. Compared to the Puget Sound background (4 ng/kg DW), the average dioxins/furans TEQ concentrations in all areas and depths suggest potential impacts to human and ecological health from the bioaccumulation of dioxins/furans up the food chain. As noted for cPAHs, this finding has been a key driver in the decision to place clean material at the site after the planned piling removal. One exception is that a low dioxins/furans concentration (1.6 ng/kg DW) was observed in one subsurface sample collected from the outside area.

The dioxins/furans source assessment provided multiple lines of evidence that pentachlorophenol (PCP) in treated wood decking (or other wood materials) was the major source and hog fuel boiler ash was a minor source of the observed dioxins/furans in site sediments. Wood waste in the sediments was not treated with PCP and was not a major dioxins/furans source.

## Bioassays

One surface sample from the outside area containing near maximum mercury and total HPAH concentrations tested negative in all 3 bioassay tests. These results indicated a lack of benthic toxicity in concurrence with the SPI and PV imaging survey results. Together with the 2015–2022 data comparison, these results indicate that PAH concentrations have recovered from the high values observed in 2015 and no longer pose a toxic threat to benthic community. However, compared to the Puget Sound background, the average cPAH concentrations in all areas and depths suggest potential impacts to human and ecological health from the bioaccumulation of PAHs up the food chain. As previously noted, this finding along with dioxins/furans exceeding background have been a key driver in the decision to place clean material at the site after the planned piling removal.

## Conclusions

The 2022 sediment investigation results clearly indicate that movement of surface or subsurface sediment outside of the dense pile or east pile areas during piling removal would not impact sediment contamination, the benthic invertebrate community, or human/ecological health in these or adjacent areas.

## References

DNR 2022. DNR Dive Team Dickman Mill Survey. Washington State Department of Natural Resources, Olympia, Washington.

Ecology. 1999. Agreed Order No. DE 99TC-S138. Washington Department of Ecology, Olympia, Washington. April 12, 1999.

Ecology. 2007. Restrictive Covenant Regarding Dickman Mill Property. Washington Department of Ecology, Olympia, Washington. February 1, 2007.

Ecology. 2017. Dickman Mill Period Review Report, Final. Washington Department of Ecology, Olympia, Washington. December 2017.

Ecology. 2021. Sediment Cleanup User's Manual (SCUM). Guidance for Implementing the Cleanup Provisions of the Sediment Management Standards, Chapter 173-204 WAC. Publication No. 12-09-057. Washington Department of Ecology, Olympia, Washington. Third Revisions December 2021.

Hart Crowser, Inc. 2001. Final Cleanup Completion Report, Dickman Mill Property, Tacoma, Washington. Prepared for Metro Parks of Tacoma by Hart Crowser, Seattle, Washington. December 21, 2001.

NewFields and Herrera. 2023. 2022 Dickman Mill Sediment Investigation, Tacoma, Washington, Final Report. Prepared for Washington State Department of Natural Resources, Aquatic Resources Division, Olympia, Washington by NewFields, Edmonds, Washington and Herrera Environmental Consultants, Seattle, Washington. June 30, 2023

Mott MacDonald. 2020. Dickman Mill Sediment Transport Study, Task 1 – Technical Summary Memorandum. December 17, 2020.

Mott MacDonald. 2021. Dickman Mill Sediment Transport Study, Task 2 – Results Summary. July 20, 2021.

# Appendix A

## Box Plots and Table of Means



Figure A2. Sediment Total LPAH and HPAH in Dickman Mill Site Areas.

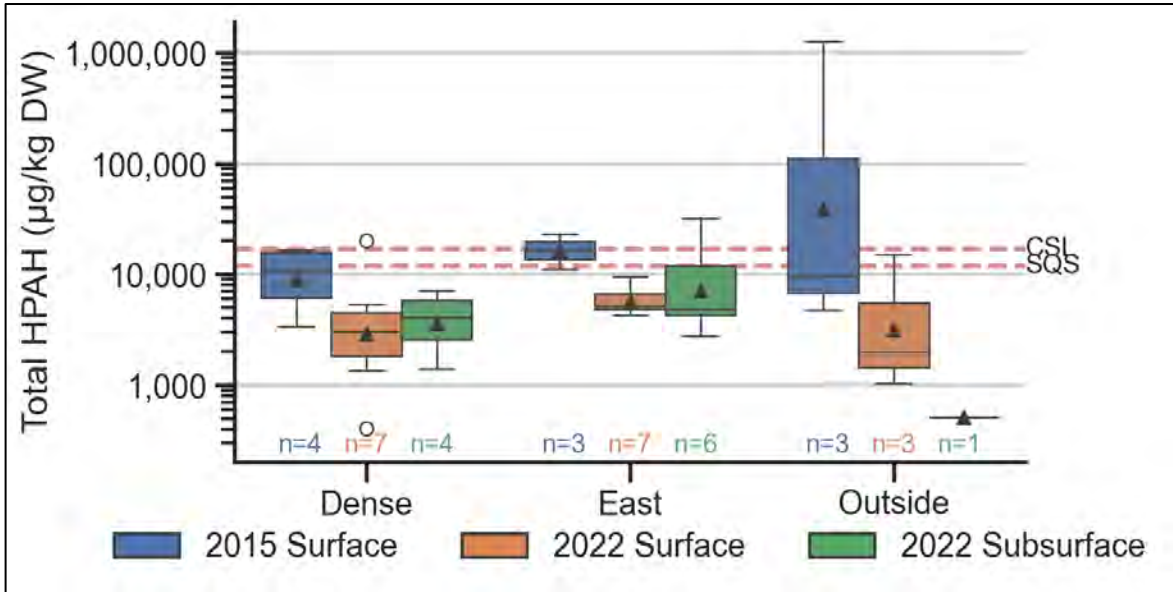
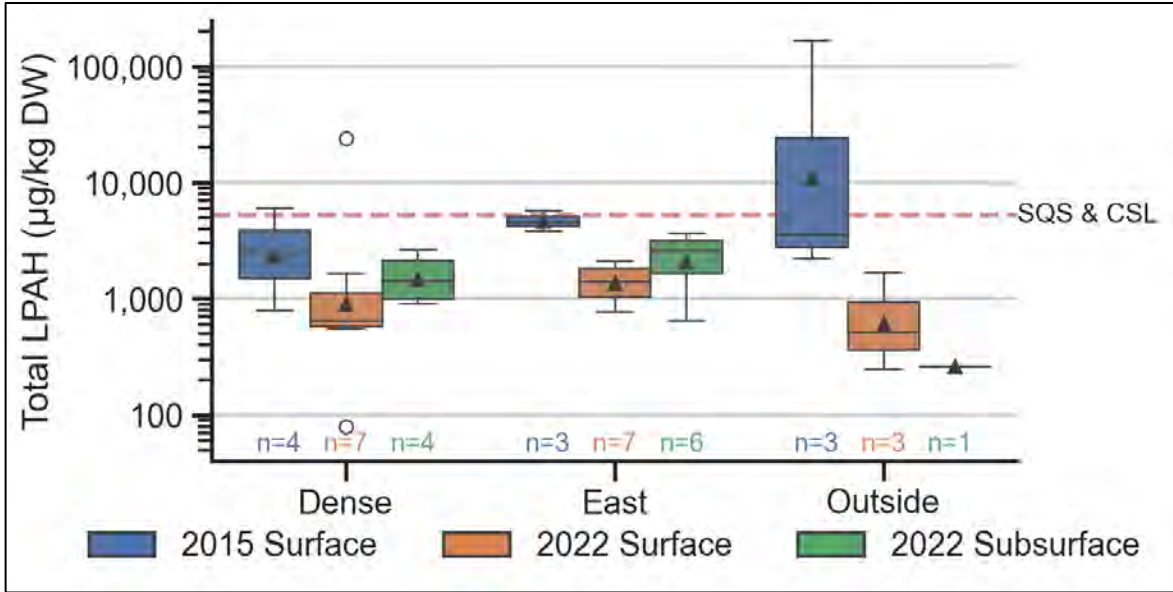
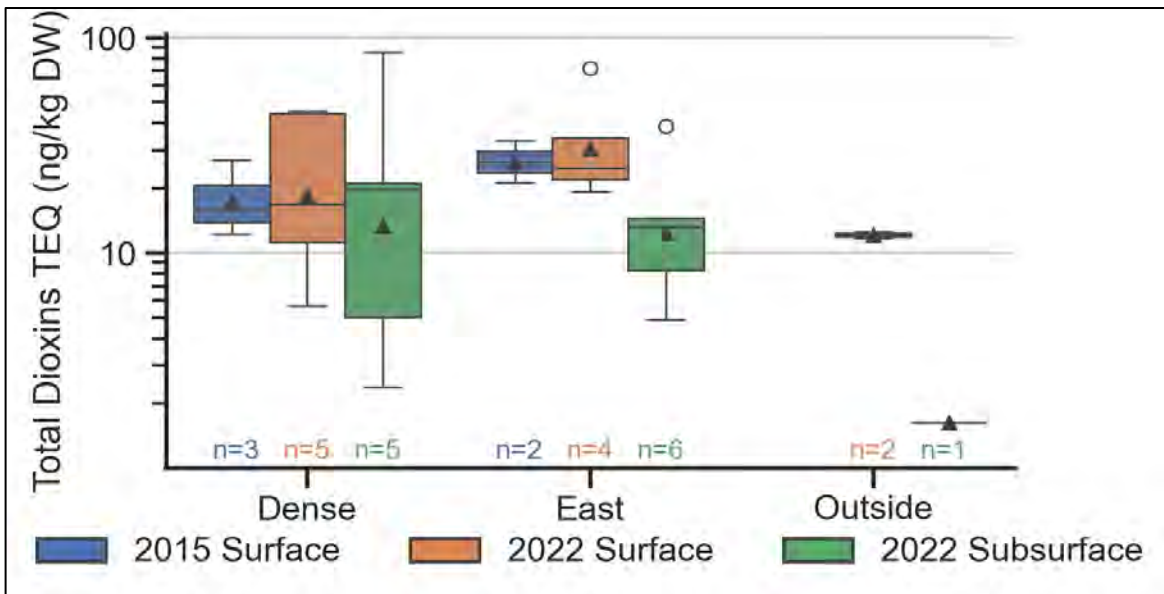
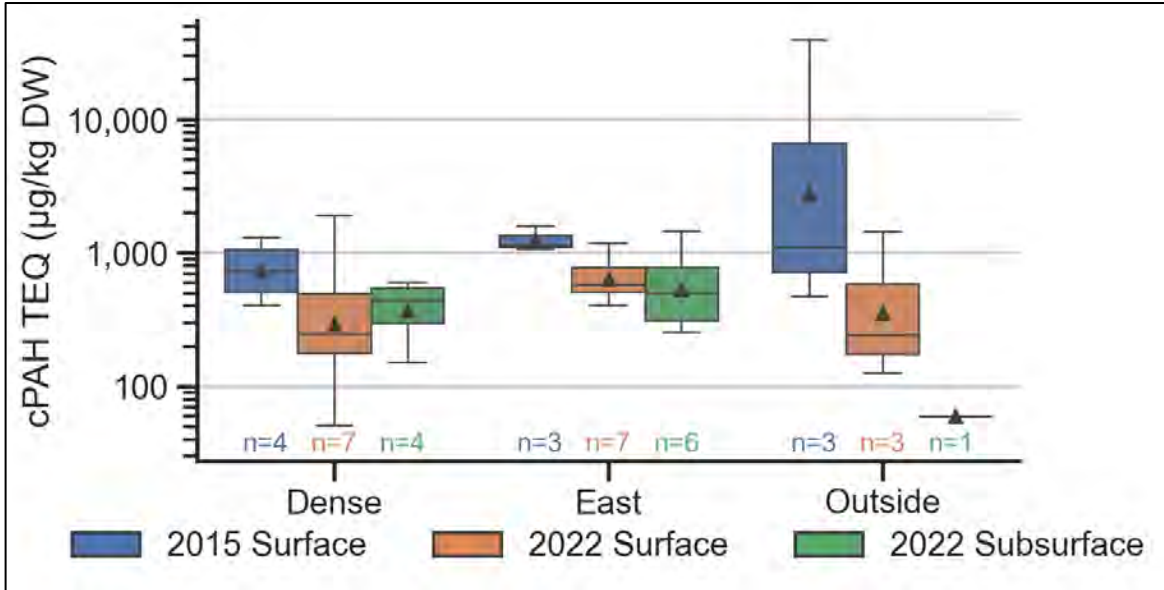


Figure A3. Sediment Total cPAH and Total Dioxins in Dickman Mill Site Areas.



**Table A1. Dickman Mill Sediment Chemistry Means by Study and Area.**

	<b>Fines (% DW)</b>	<b>Mercury (mg/kg DW)</b>	<b>Total LPAH (µg/kg DW)</b>	<b>Total HPAH (µg/kg DW)</b>	<b>cPAH TEQ (µg/kg DW)</b>	<b>Dioxins TEQ (ng/kg DW)</b>
<b>SMS Criteria</b>						
Benthic SQS	-	0.41	5,200	12,000	-	-
Benthic CSL	-	0.59	5,200	17,000	-	-
Puget Sound Background	-	0.20	-	-	21	4
<b>Group Means</b>						
2015 Dense Surface	14.7	0.103	3,030	10,900	816	18.3
2022 Dense Surface	18.6	NA	4,030	5,220	518	24.8
2022 Dense Subsurface	34.6	NA	1,650	4,280	417	26.8
2015 East Surface	26.5	0.323	4,760	17,000	1,280	27.2
2022 East Surface	26.4	0.290	1,450	5,990	685	35.3
2022 East Subsurface	25.8	0.463	2,390	10,700	655	15.3
2015 Outside Surface	27.6	0.307	57,800	431,000	13,700	NA
2022 Dense Surface	18.6	NA	4,030	5,220	518	24.8
2022 Outside Subsurface	13.1	0.026	263	516	60.4	1.63

# Appendix B

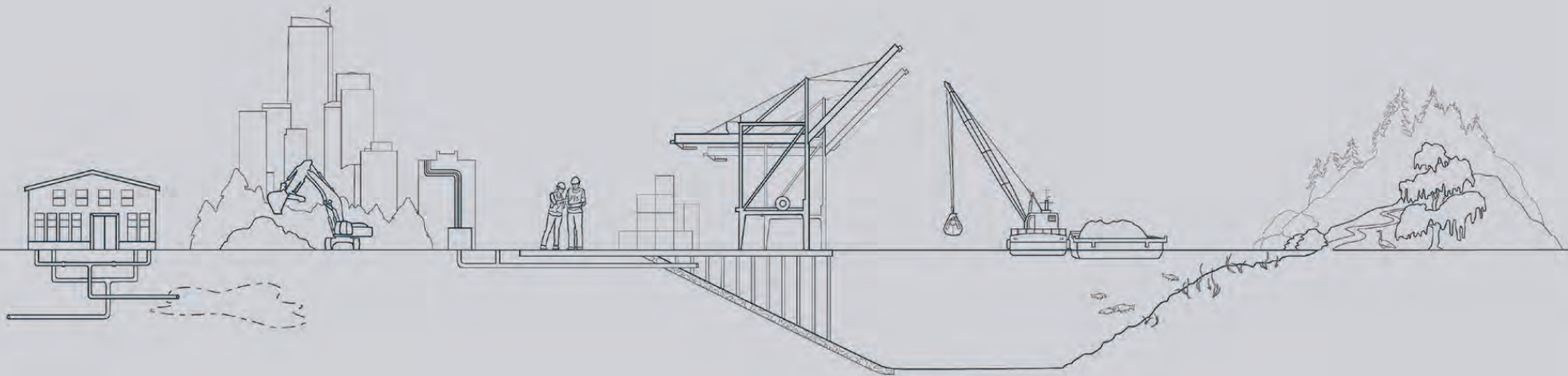
## Project Presentations to Ecology

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# Dickman Mill Piling Removal Project

Washington State Department of Natural Resources

December 8, 2023

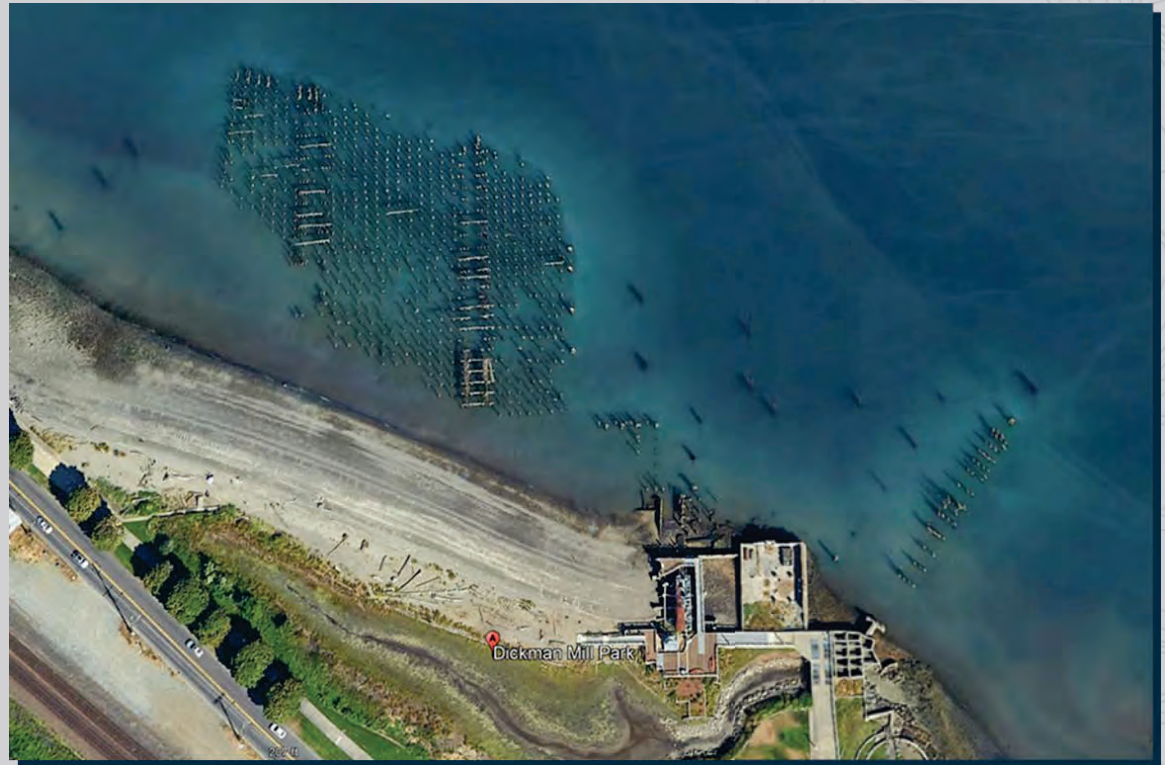


# Project Team Introductions



# Project Overview

- The Washington State Department of Natural Resources (DNR) proposes to remove approximately 1,000 timber piles adjacent to the Dickman Mill Cleanup Site/Tacoma Parks property.
- DNR has received a 2023–2025 FY funding allocation from State legislature to complete the project.
- Funding allocation offers a unique opportunity to address ongoing releases of piling-associated contaminants during the 2024–2025 work window—requiring an aggressive project schedule.



# Project Timeline

Task/Activity	2023-Q4	2024-Q1	2024-Q2	2024-Q3	2024-Q4	2025-Q1	2025-Q2
Agency Coordination							
Piling Removal Work Plan							
Permitting Authorizations							
Design Plans and Specifications							
Contractor Advertisement & Selection							
Construction					In-water work window		
Completion Report & Close-Out							Funding expires: June 30, 2025

# Project Opportunity and Benefits

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- Provides immediate and meaningful environmental benefit
  - Removes approximately 1,000 – 1,200 creosote-treated piling from Commencement Bay
  - Piling removal eliminates source of creosote-associated contaminants to sediments
  - Removes impediment to fish passage
  - Improves habitat conditions in nearshore environment
- Utilizes state funding, limited to the 2023–2025 FY

# Background

- 1889 – 1977: Lumber mill operated continuously until decommissioning.
- 1991 – 1993: Property purchased by Tacoma Parks.
- 1999: Parks entered into an Agreed Order with Ecology to conduct remedial actions.
- 2000 – 2001: Remedial actions were completed by Parks, which included uplands cleanup and excavation and placement of a 1-foot cap in a portion of the intertidal area.
  - Pilings associated with Dickman Mill in-water structures were left in place.

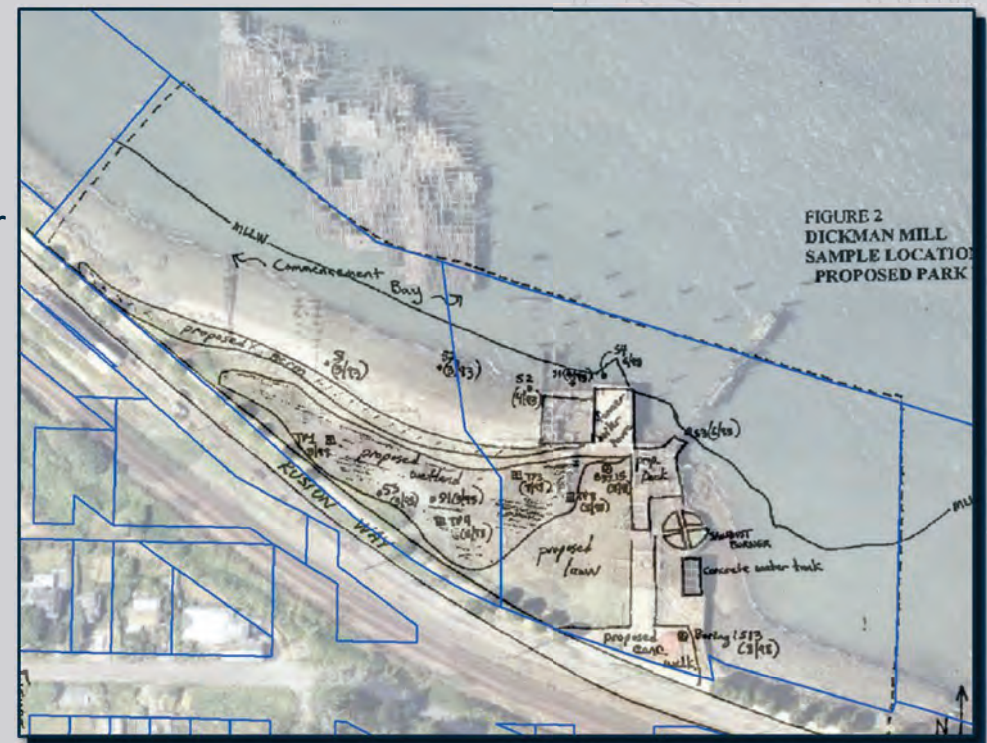


FIGURE 2  
DICKMAN MILL  
SAMPLE LOCATION  
PROPOSED PARK

Agreed Order Site Plan figure overlaid with current parcel boundaries

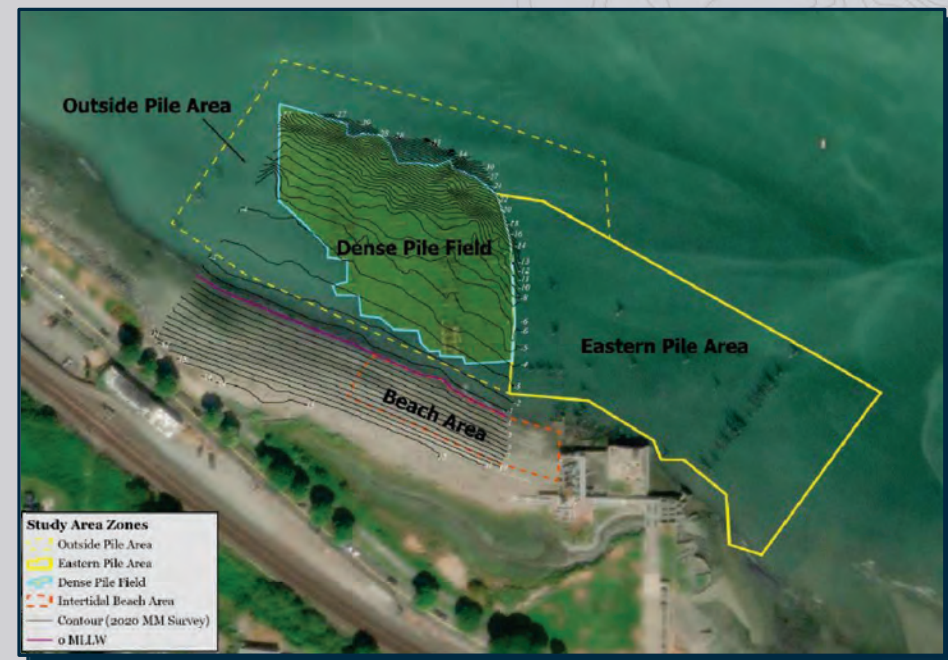
# Recent Investigations

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- 2020/2021 Mott MacDonald Sediment Transport Study and Engineering Assessment
  - Risk of erosion and the release of piling-associated sediment contamination due to pile removal was evaluated:
    - Pile removal anticipated to result in minimal erosion offshore of the intertidal beach cap and in the piling field during frequent storm events (e.g., 2-year storm); however, some erosion may occur during rare extreme events (e.g., 4–8 inches in a 50-year storm).
    - Mott MacDonald notes that a prior study by Anchor QEA in 2017 recommended placement of a top layer of material over piling field after pile removal.
- 2022 DNR Diver Survey
  - More than 90% of piles determined to be in good condition.
  - Significant debris present within piling field; some debris likely to present challenges to removal, such as metal rebar, underwater cross members, and smaller wood pieces.

# Recent Investigations

- 2022 – 2023 NewFields-Herrera Sediment Investigation
  - SPI and Plan View Imaging Survey
    - Wood debris observed but does not appear to have a significant negative impact to the benthic community.
  - Sediment Chemistry and Bioassay Results
    - Elevated PAHs were reported, along with dioxins/furans at concentrations greater than natural background. Limited bioassay testing was conducted, and benthic toxicity was not observed.
  - Beach Geomorphology Assessment
    - Did not find significant evidence that the piling field serves as a breakwater for the beach (minimal wave height reduction through piles aligned with waves).
    - Observed evidence of beach cap movement but no offsite erosion of gravel cap in 23 years since construction, indicating future erosion without piles is not likely.



## Case Study – Harbor Island Dock Demolition (2022)

- Demolition of a derelict, creosote-treated timber dock located on the western shoreline of Harbor Island within the Superfund Site.
  - Derelict dock was 72,700 square feet with approximately 1,800 creosote-treated piles
  - Significant building material debris present within footprint of dock
- Removal of all creosote-treated piling to improve environmental conditions
- Included excavation of the top 1 foot of debris-laden sediment and placement of a 1-foot-deep cover layer of rounded gravel
- Piling removal was within contaminated sediments, therefore USEPA's *BMPs for Piling Removal and Placement in Washington State (February 2016)* were implemented.
- No turbidity exceedances throughout construction
- No long-term monitoring requirement

# Case Study – Harbor Island Dock Demolition (2022)

- Site was left in a stable condition, minimizing future potential for shoreline and sediment erosion
- Contributed to DNR’s creosote removal program efforts



## Dickman Mill Pile Removal Approach – Overview

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- Remove an estimated 1,000 – 1,200 piles with vibratory extraction for disposal at a Subtitle D landfill
- Remove large debris for off-site disposal
- Monitor water quality during piling and debris removal
- Place a fish mix/sand mix across the piling field—material thickness and composition will be determined during engineering design
- Conduct construction verification post-placement to confirm material placed in accordance with design specifications

# Project Approach – Piling and Debris Removal Design

- BMPs and engineering controls
  - Pile pulling will be conducted in accordance with USEPA's *BMPs for Piling Removal and Placement in Washington State (February 2016)*.
  - A fish mix/sand mix will be placed within the piling field.
    - Minimizes exposure of environmental receptors to sediments within the piling field
    - Controls potential sediment movement within the piling field
    - Beyond the standard USEPA BMPs and the standard permitting requirement to backfill the piling hole with sand
    - Material thickness and composition will be determined during engineering design

# Project Approach – Proposed Monitoring

---

## ■ Water Quality Monitoring and Protection Plan

- A water quality monitoring plan for turbidity will be implemented during removal activities, in accordance with the Section 401 Water Quality Certification for the project.
- This ensures that turbidity does not leave the immediate work area.

## ■ Construction Verification

- Confirm specified piling and debris removal
- Confirm fish mix/sand layer application rate to achieve target thickness

## Project Permitting – Next Steps

---

- Agency coordination to begin as soon as possible
- Schedule provides 6 months to obtain all authorizations
- DNR has programmatic authorizations for piling removal
  - Placement of fish mix/sand mix must be authorized with agencies
  - New or amended authorizations may be needed
- Must also confirm the BMPs or agency requirements that need to be included in bid documents

## Agency Coordination – Next Steps

---

- Proposed Ecology engagement and notification process:
  - Quarter 1 2024: Piling Removal Project Work Plan submitted in Quarter 1 2024
    - Project team available to meet with Ecology to discuss document if requested
  - Quarter 2 2024: Notification of receipt of all project permits
  - Quarter 3 2024: Notification of contractor selection
  - Quarter 2 2025: Notification of project completion w/ close-out report and monitoring results
- Meeting with the USEPA Remedial Project Manager is scheduled for December 13<sup>th</sup>, 2023
- Continued coordination with Metro Parks Tacoma

# Discussion

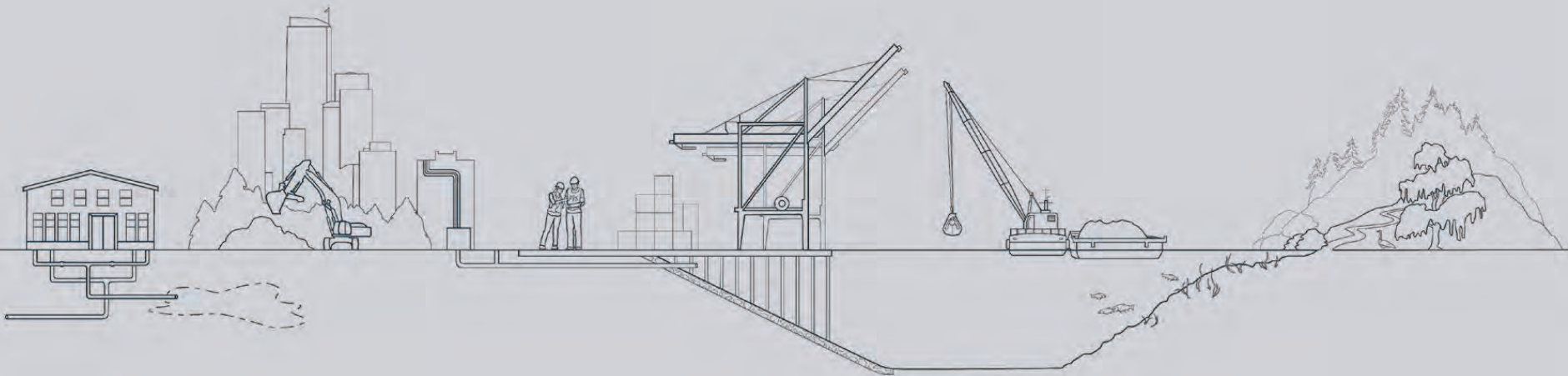
---

- Questions?

# Dickman Mill Piling Removal Project

Washington State Department of Natural Resources

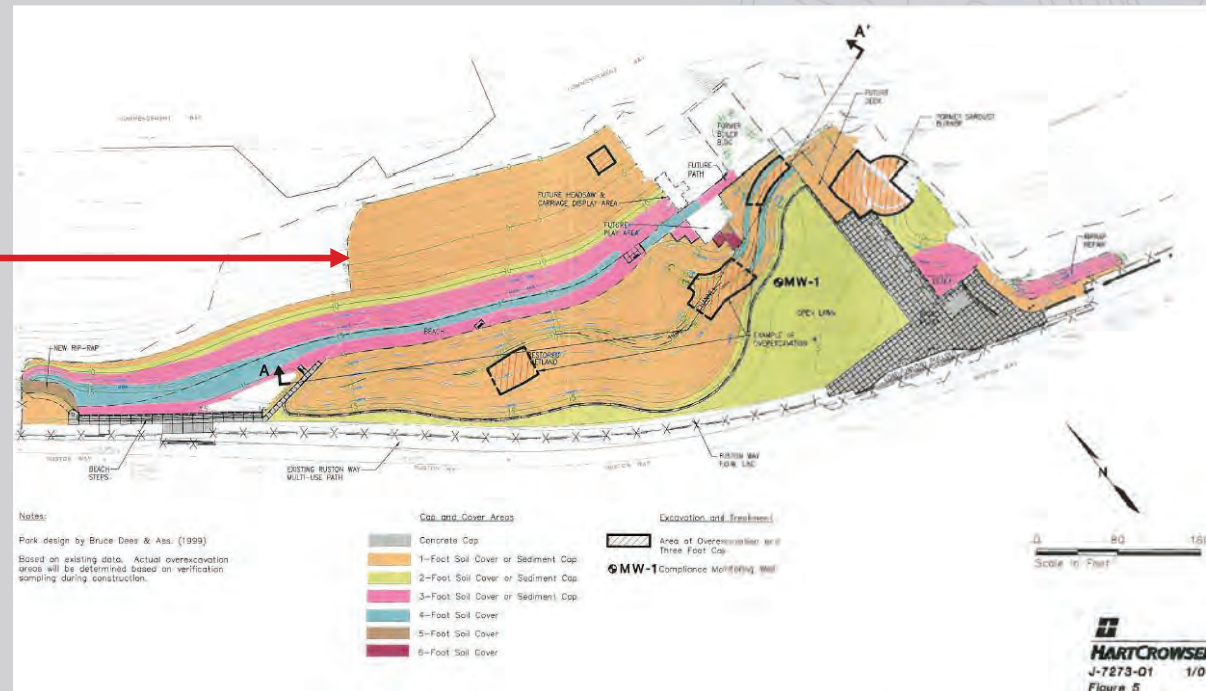
April 12, 2024



# Beach Cap Construction (Hart Crowser 2000)

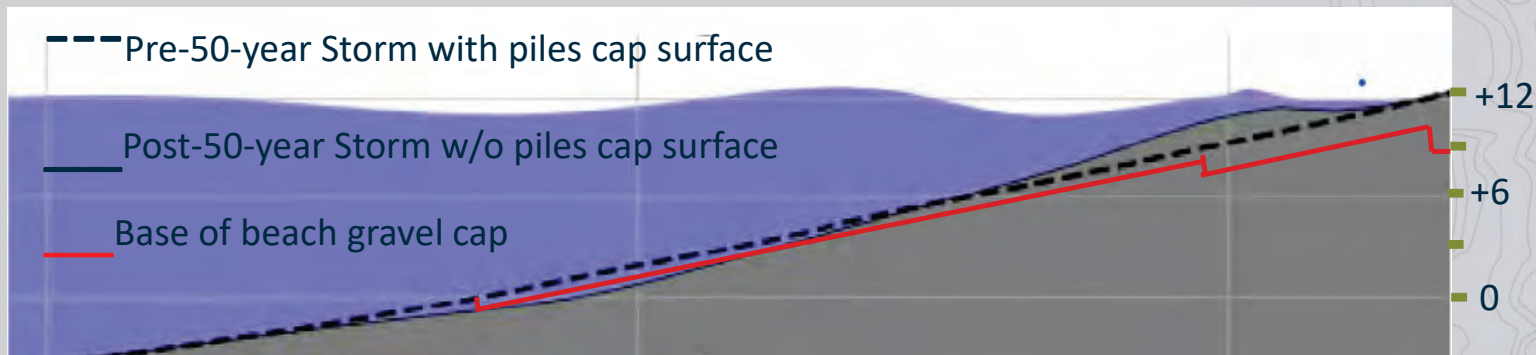
Constructed beach cap due to metals (As, Cu, and Pb) exceeding SQS including:

- 1 ft cap if  $< 2 \times \text{SQS}$  (0 to +9 ft MLLW) (orange) and small 3 ft excavation area
- 2 ft cap if  $2\text{-}3 \times \text{SQS}$  (+9 to +11 ft MLLW) (yellow)
- 3 ft cap if  $> 3 \times \text{SQS}$  and  $> \text{MCUL}$  (+11 to +14 ft MLLW) (pink)



# Beach Erosion Modeling (Mott MacDonald 2021)

- MIKE21 and SWAN for hydrodynamics, does not model pile effects explicitly on waves so assumed generic 75% wave transmission through dense pile field
- XBEACH-G for beach sediment movement (1 dimension in one direction to shore only) with and without dense pile field.
- Predicted negligible effects for 2-year storm and 4 to 8 inches of erosion in part of beach for 50-year on-shore storm due to extra 25% wave height from pile removal.
- Digging estimated cap thickness of ~0.5 ft at MLLW (1 ft cap) and 1.5 ft cap at MHHW (3 ft cap) implying 50% erosion since 2000 capping.



# Evidence of No Effect on Beach Cap from Pile Removal

---

Geomorphic analysis by Herrera (2023) found that:

1. Model does not accurately predict beach erosion because:
  - Developed for sandy coastal sediments exposed to swell, not coarse Puget Sound sediments dominated by swash transport
  - Only predicts waves pushing sediment to shore but not offshore movement from wave-slosh return and gravitational motion or longshore movement from longshore currents or river plumes
  - Model inputs not well documented and appear to have limited data for grain-size analysis of beach materials, which is critical for model accuracy

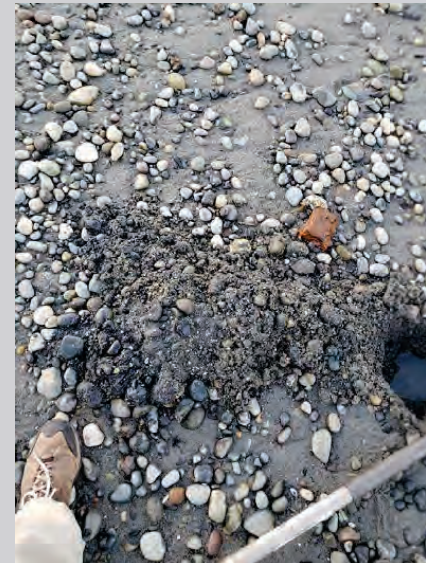
# Evidence of No Effect from Pile Removal on Beach Cap

2. Wave observations at low tide (0.5 ft MLLW) during winter storm (4-8 mph winds with gusts exceeding 10 mph and 6-inch chop) showed:
  - >75% transmission through piles in line with waves that is unlikely to decrease from higher waves
  - Significant swash was present at water line.



# Evidence of No Effect from Pile Removal on Beach Cap

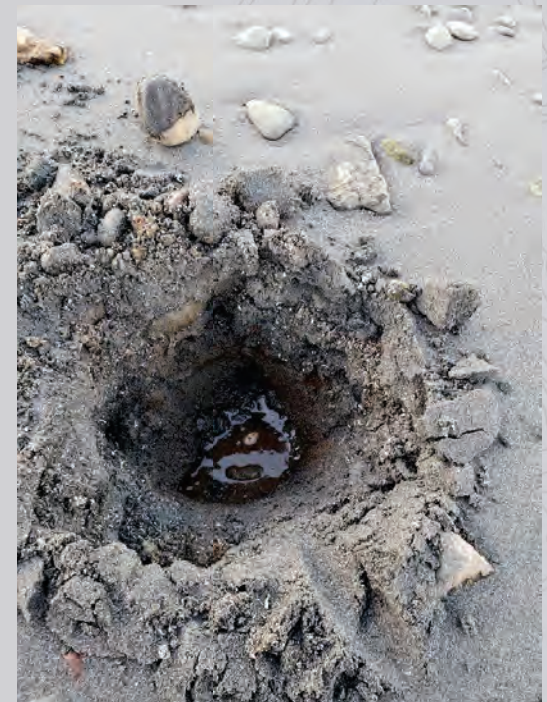
3. Test pits at +2 ft MLLW showed gravel cap material mixed with deposited sand and shell hash to bottom of pits at 1-2 ft deep.



One of two test pits in central cap area with gravel, sand, and shell

# Evidence of No Effect from Pile Removal on Beach Cap

4. Test pit outside (west) of cap had no gravel cap material and was primarily sand and minor shell hash indicating depositional conditions in this area.
5. Test pit at east end of cap area had no gravel cap material and was primarily anoxic silty sand that was likely deposited on top of the cap material.



One test pit outside (west) of cap area without gravel

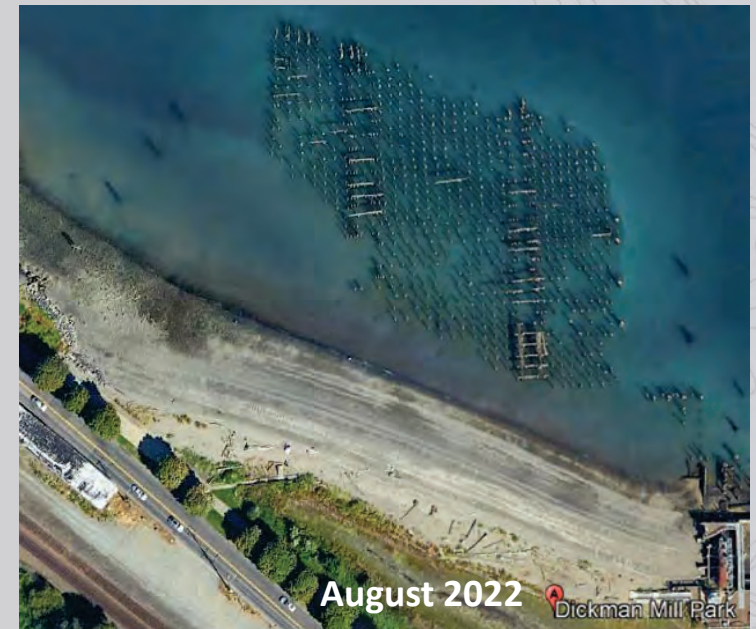
# Evidence of No Effect from Pile Removal on Beach Cap

6. Sediment coring to 1 ft at four beach locations from +1 to +5 ft MLLW indicated cap materials were stable:
- Could not penetrate more than 1 foot using a hammer corer due to compaction of underlying materials
  - Consistent gravel (46-60%), sand (37-51%) and silt <4%; low TOC; high sulfide in easternmost station
  - Only arsenic > SQS (57 ppm) at 89-151 ppm and highest at easternmost station due to deposition of offsite sources from southeasterly long-shore currents and swash.



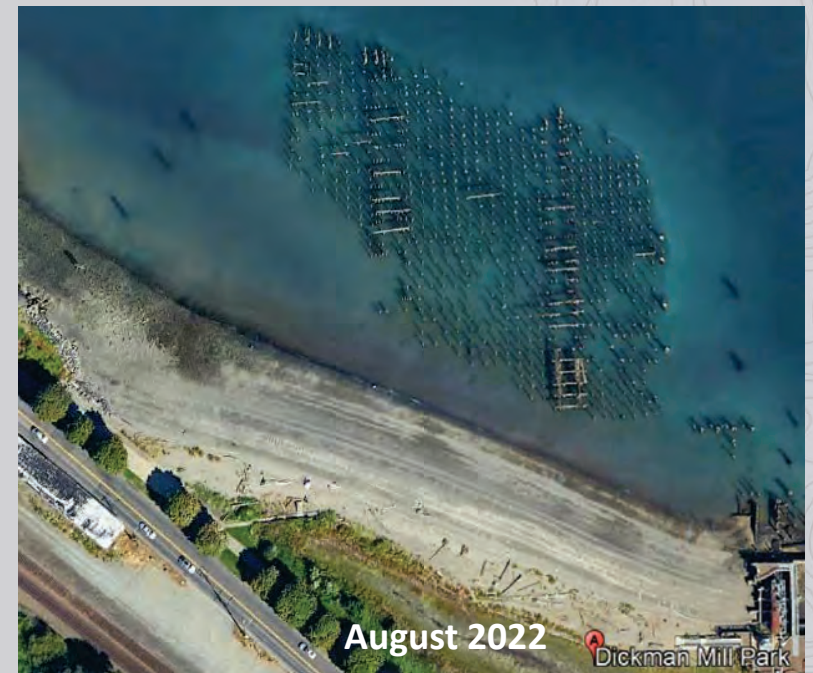
# Evidence of No Effect from Pile Removal on Beach Cap

7. Google Earth images show the beach has not significantly changed position since placement of the cap 23 years ago both within and west of the cap area when 38% chance of 50-year storm event in that period..



# Evidence of No Effect from Pile Removal on Beach Cap

- Minimal wave-protection by the pile field is declining over time as piles decay and will likely be lost entirely before 2050.



# Conclusion & Discussion

---

Multiple lines of evidence clearly indicate that the piles can be removed without significant erosion of the beach cap or other parts of the shoreline remediation.

Beach material composition or erosion monitoring will not be able to determine if changes in cap materials observed over time were caused by pile removal or would have occurred without pile removal.

# Appendix C

## Photographic Log

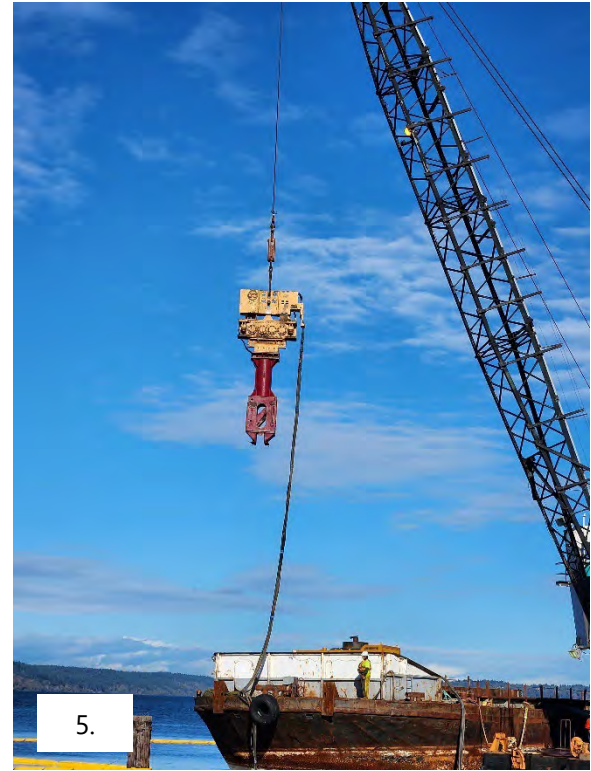
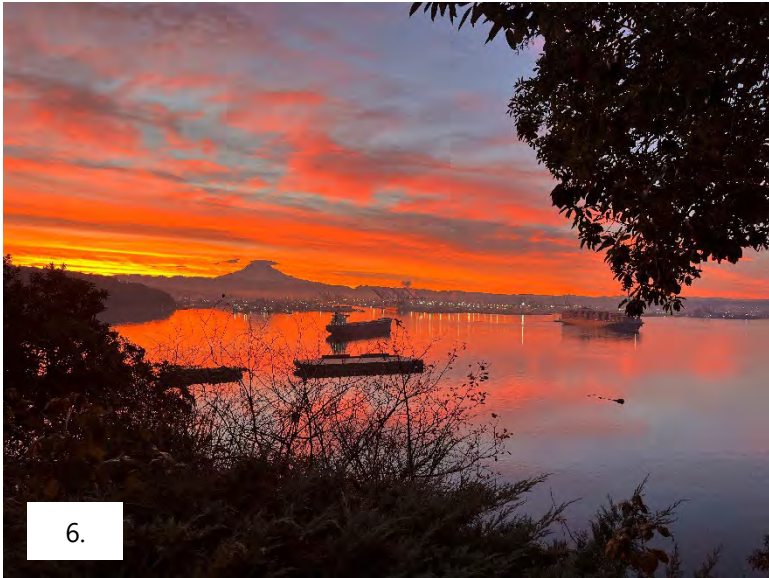
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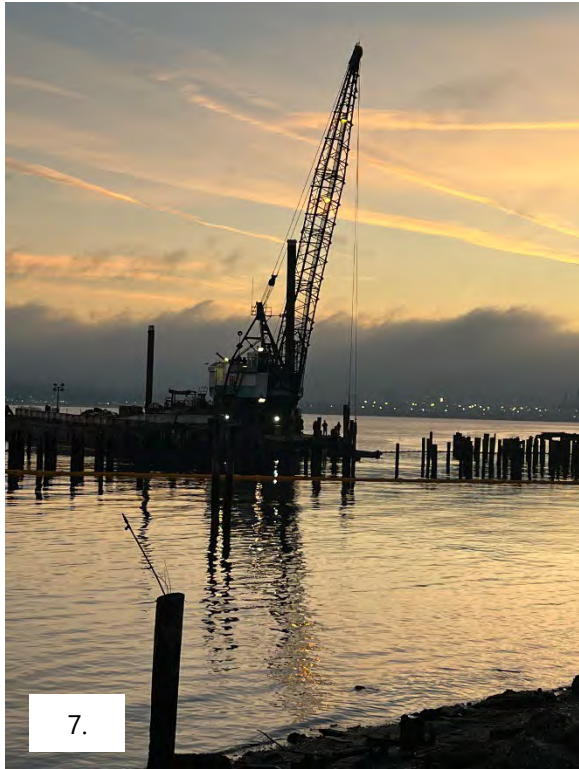
# Dickman Mill Piling and Debris Removal Project

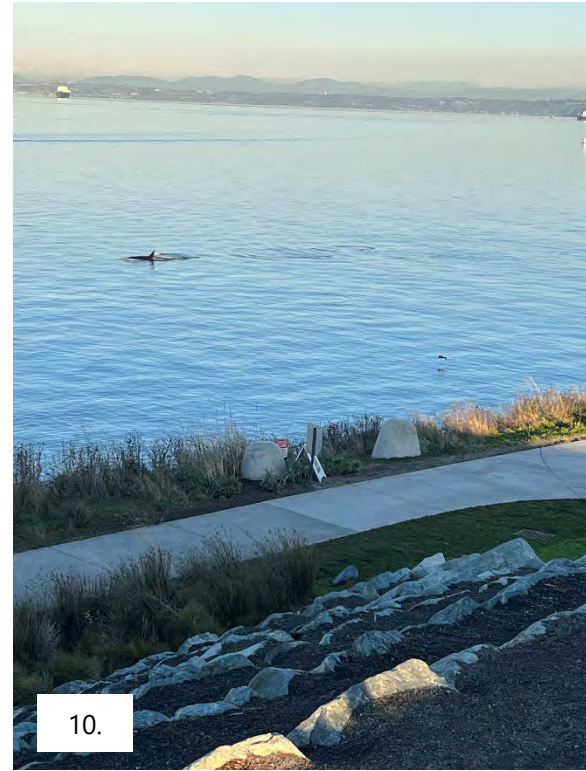
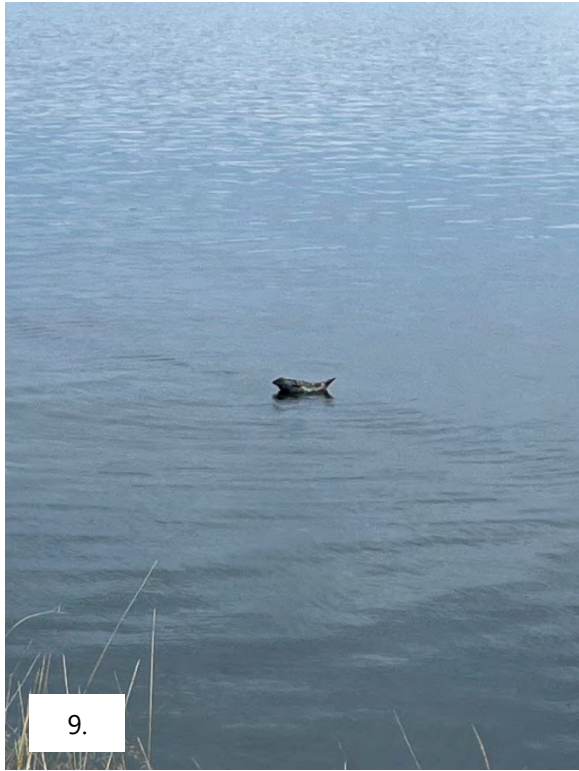
## Photographic Log

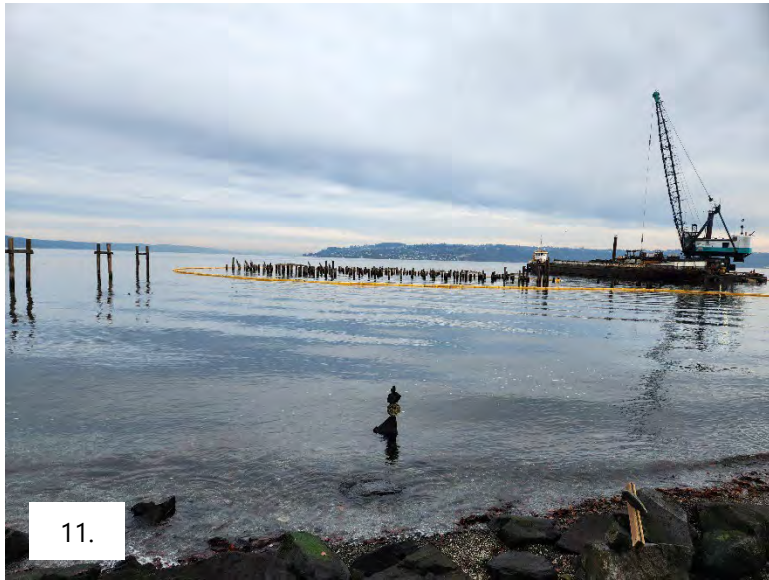
Photo Number	Photo Description
1	First day of piling removal work by Orion Marine Group (Orion), November 20, 2024.
2	Turbidity curtain and oil absorbent boom surrounding the piling removal work area, November 20, 2024.
3	Herrera staff pausing during instrumented water quality monitoring from zodiac boat, November 20, 2024.
4	Turbidity curtain and oil absorbent booms surrounding the piling removal work area, November 22, 2024.
5	Vibratory hammer being deployed from barge in the work area, November 22, 2024.
6	Sunrise check for marine mammals, inner Commencement Bay near Brown's Point, December 6, 2024.
7	Early morning piling removal, December 10, 2024.
8	One of Herrera's two marine mammal monitors, at Dune Peninsula Park, December 11, 2024.
9	Harbor seal resting on underwater breakwater structure near Dune Peninsula Park, December 11, 2024.
10	Orca whale at Dune Peninsula Park after the end of daily piling removal work, December 11, 2024.
11	Piling removal and water quality visual monitoring in the Western Dense Pile Field, December 11, 2024.
12	Bubbles generated by divers using air lift method to excavate 2 feet below mudline to cut broken piles, December 31, 2024.
13	Water quality within work area on December 31, 2024, while divers were cutting broken piles below mudline.
14	Water quality adjacent to work area, January 2, 2025, during pile cutting below mudline.
15	Bubbles generated by air lift-assisted excavation to cut piles below mudline, January 15, 2025.
16	Water quality monitoring near end of work shift, January 21, 2025.
17	Dickman Mill Park from the east, with all piling removed, January 29, 2025.
18	Orion placing gravelly sand with Bombay box in the Western Dense Pile Field, January 29, 2025.
19	Orion crane, and barge carrying gravelly sand to be placed in the Western Dense Pile Field, February 4, 2025.
20	Gravelly sand field sieve test for fines, in conjunction with water quality monitoring, February 4, 2025.
21	Gravelly sand field test for fines, in conjunction with water quality monitoring, February 4, 2025.
22	Water quality monitoring during gravelly sand placement, February 5, 2025.
23	Dickman Mill Site on last day of project work, February 6, 2025.

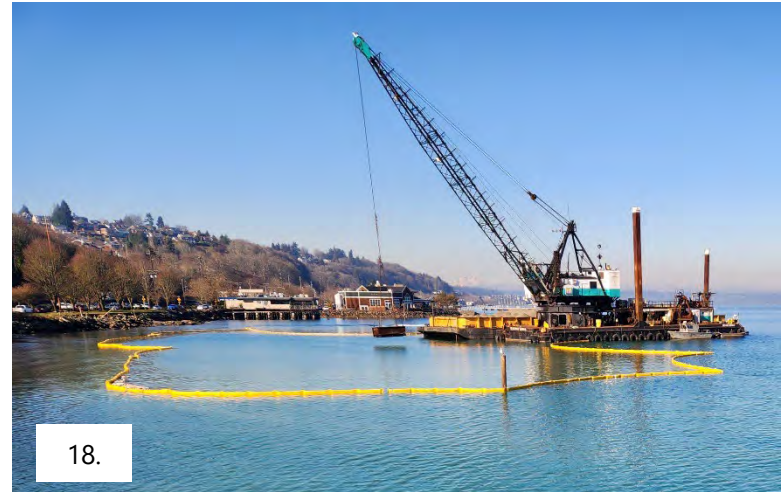
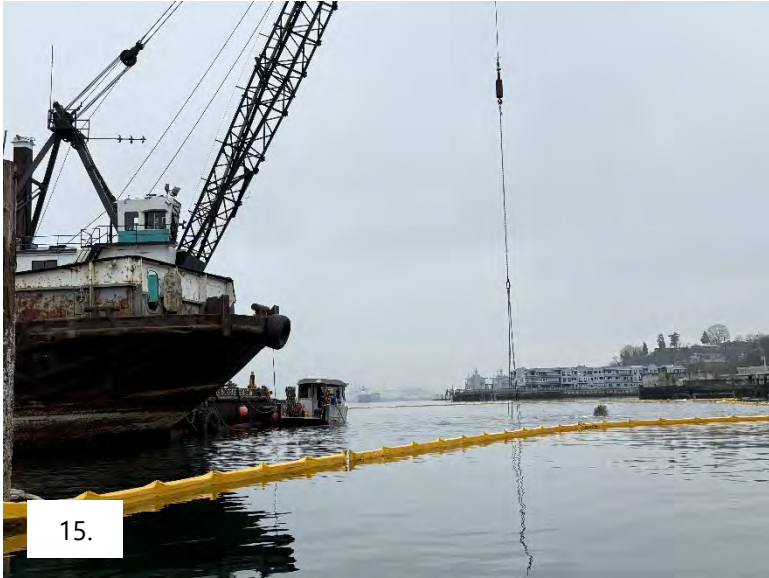






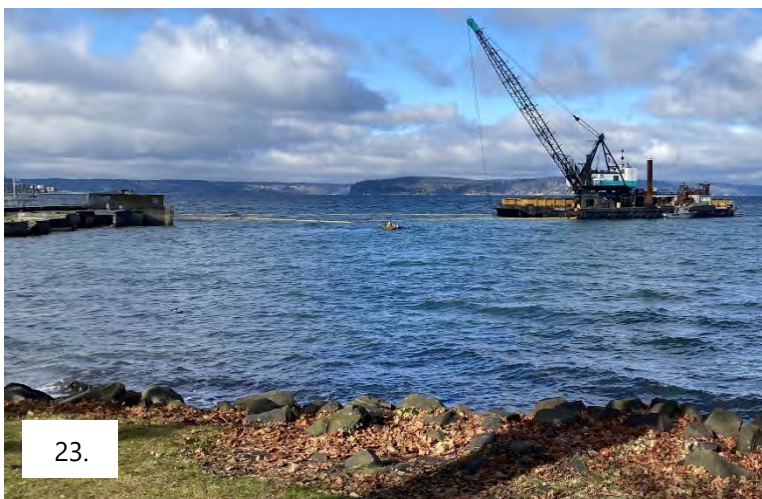












# Appendix D

## NWP Certificate of Compliance with Department of the Army Permit

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US Army Corps  
of Engineers ®  
Seattle District

## CERTIFICATE OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT



Permit Number: NWS-2024-200

Name of Permittee: Washington State Department of Natural Resources

Date of Issuance: August 19, 2024

Upon completion of the activity authorized by this permit, please check the applicable boxes below, date and sign this certification, and return it to the following email or mailing address:

NWS.Compliance@usace.army.mil                      OR                      Department of the Army  
U.S. Army Corps of Engineers Seattle  
District, Regulatory Branch  
4735 E. Marginal Way S, Bldg 1202  
Seattle, Washington 98134-2388

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of your authorization, your permit may be subject to suspension, modification, or revocation.

<input checked="" type="checkbox"/>	<p>The work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of this permit.</p> <p>Date work complete: February 25, 2025</p> <p><input type="checkbox"/> Photographs and as-built drawings of the authorized work (OPTIONAL, unless required as a Special Condition of the permit). <a href="#">(Completion Report to be provided later)</a></p>
-------------------------------------	---

<input type="checkbox"/>	<p>If applicable, the mitigation required (e.g., construction and plantings) in the above-referenced permit has been completed in accordance with the terms and conditions of this permit (not including future monitoring).</p> <p>Date work complete: _____ <input checked="" type="checkbox"/> N/A</p> <p><input type="checkbox"/> Photographs and as-built drawings of the mitigation (OPTIONAL, unless required as a Special Condition of the permit).</p>
--------------------------	---

<input checked="" type="checkbox"/>	<p>Provide phone number/email for scheduling site visits (must have legal authority to grant property access).</p> <p>Printed Name: <u>Tim Goodman</u></p> <p>Phone Number: <u>360-995-2500</u>                      Email: <u>timothy.goodman@dnr.wa.gov</u></p>
-------------------------------------	---

Printed Name: Timothy Goodman

Signature: *Timothy Goodman*

Date: March 4, 2025

# Appendix E

## Post Construction Report

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**Am Test Inc.**  
13600 NE 126th Place Suite C  
Kirkland, WA  
(425) 885-1664  
www.amtestlab.com



**Professional  
Analytical  
Services**

December 27, 2024

Herrera Environmental  
2200 Sixth Ave, Suite 1100  
Seattle, WA 98121  
Attention: Rob Zisette

**Project:** Dickman Mill Piling Project

**Project Number:** 12/05/24

**COC Number:** 43523

Rob Zisette:

Enclosed please find the analytical data for your Dickman Mill Piling Project project.

Your sample(s) were received on Friday, December 6, 2024 and properly maintained prior to the subsequent analysis. The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA, Standard Methods or the Army Corps of Engineers.

Following the analytical results you will find the Quality Control (QA/QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Aaron Young". The signature is written in a cursive style with a long, sweeping tail on the letter "j".

**Aaron Young**  
**President**  
aarony@amtestlab.com

**Am Test Inc.**  
13600 NE 126th Place Suite C  
Kirkland, WA  
(425) 885-1664  
www.amtestlab.com



**Professional  
Analytical  
Services**

## ANALYSIS REPORT

**Date Received:** 12/06/24

**Date Reported:** 12/27/24

**Herrera Enviromental**

2200 Sixth Ave, Suite 1100

Seattle, WA 98121

Attention: Rob Zisette

Project Name: Dickman Mill Piling Project

Project #: 12/05/24

---

### Reported Samples

Lab ID	Sample	Matrix	Qualifiers	Date Sampled	Date Received
A24L0140-01	Dickman Sand & Gravel Mix	Solid		12/05/2024	12/06/2024



**ANALYSIS REPORT**

**Date Received:** 12/06/24

**Date Reported:** 12/27/24

**Herrera Enviromental**

2200 Sixth Ave, Suite 1100

Seattle, WA 98121

Attention: Rob Zisette

Project Name: Dickman Mill Piling Project

Project #: 12/05/24

**AMTEST Identification Number: A24L0140-01**

**Client Identification: Dickman Sand & Gravel Mix**

**Sampling Date: 12/05/24 09:30**

**Conventional Chemistry Parameters by APHA/EPA Methods**

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
% Solids	96.4	%			SM 2540G_2011	AY	12/26/2024

**Sieve Analysis**

PARAMETER	RESULT	UNITS	Q	R.L.	METHOD	ANALYST	DATE
Sieve 4"	ND	% Retained		0.100	ASTM D422	AY	12/27/2024
Sieve 2"	ND	% Retained		0.100	ASTM D422	AY	12/27/2024
Sieve 1"	23.5	% Retained		0.100	ASTM D422	AY	12/27/2024
Sieve #10 (2.0 mm)	29.5	% Retained		0.100	ASTM D422	AY	12/27/2024
Sieve #200 (0.075 mm)	46.9	% Retained		0.0000100	ASTM D422	AY	12/27/2024
% Passed	0.100	%		0.100	ASTM D422	AY	12/27/2024
Total Weight Analyzed	582	g		0.100	ASTM D422	AY	12/27/2024

**Am Test Inc.**  
13600 NE 126th Place Suite C  
Kirkland, WA  
(425) 885-1664  
www.amtestlab.com



**Professional  
Analytical  
Services**

## ANALYSIS REPORT

**Date Received:** 12/06/24  
**Date Reported:** 12/27/24

**Herrera Enviromental**  
2200 Sixth Ave, Suite 1100  
Seattle, WA 98121  
Attention: Rob Zisette  
Project Name: Dickman Mill Piling Project  
Project #: 12/05/24

---

### Notes and Definitions

Item	Definition
<b>Dry</b>	Sample results reported on a dry weight basis.
<b>ND</b>	Analyte NOT DETECTED at or above the reporting limit.
<b>RPD</b>	Relative Percent Difference
<b>%REC</b>	Percent Recovery
<b>Source</b>	Sample that was matrix spiked or duplicated.



# AmTest Chain of Custody Record

13600 NE 126<sup>th</sup> PL, Suite C, Kirkland, WA 98034

Ph (425) 885-1664 Fx (425) 820-0245

www.amtestlab.com

A24L0140-01

Chain of Custody No. **43523**

<b>Client Name &amp; Address:</b> Rob Zisette + Kelvin Kong (Herrera) (KPIFF)	<b>Invoice To:</b>
<b>Contact Person:</b>	<b>Invoice Contact:</b>
<b>Phone No:</b> 206-930-6585 + 206-576-0626	<b>PO Number:</b>
<b>Fax No:</b>	<b>Invoice Ph/Fax:</b>
<b>E-mail:</b> kelvin.kong@kpiiff.com rzisette@herrerainc.com	<b>Invoice E-mail:</b>
<b>Report Delivery: (Choose all that apply)</b> Mail / Fax / Email / Posted Online	<b>Data posted to online account: YES / NO</b> <b>Web Login ID:</b>

**Special Instructions:**

**Requested TAT: (Rush must be pre-approved by lab)**  
 Standard RUSH ( 5 Day / 3 Day / 48 HR / 24 HR )  
 Temperature upon Receipt: 7.5°C

Project Name: Dickman Mill Piling Project		Date Sampled	Time Sampled	Matrix	No. of containers	Analysis Requested										
Project Number:	grainsize					4" 2' 1"	#10, #20	↑	DA 12/19/24						QA/QC	
AmTest ID	Client ID (35 characters max)															
01	Dickman Sand & Gravel Mix	12/5/24	9:30	Soil	1											

<b>Collected/Relinquished By:</b> Yashvi Patel	<b>Date:</b> 12/6/24	<b>Time:</b> 9:27	<b>Received By:</b> KH	<b>Date:</b> 12/6/24	<b>Time:</b> 9:27
<b>Relinquished By:</b>	<b>Date:</b>	<b>Time:</b>	<b>Received By:</b>	<b>Date:</b>	<b>Time:</b>
<b>Relinquished By:</b>	<b>Date:</b>	<b>Time:</b>	<b>Received By:</b>	<b>Date:</b>	<b>Time:</b>

COMMENTS:

# Particle Size Distribution Report

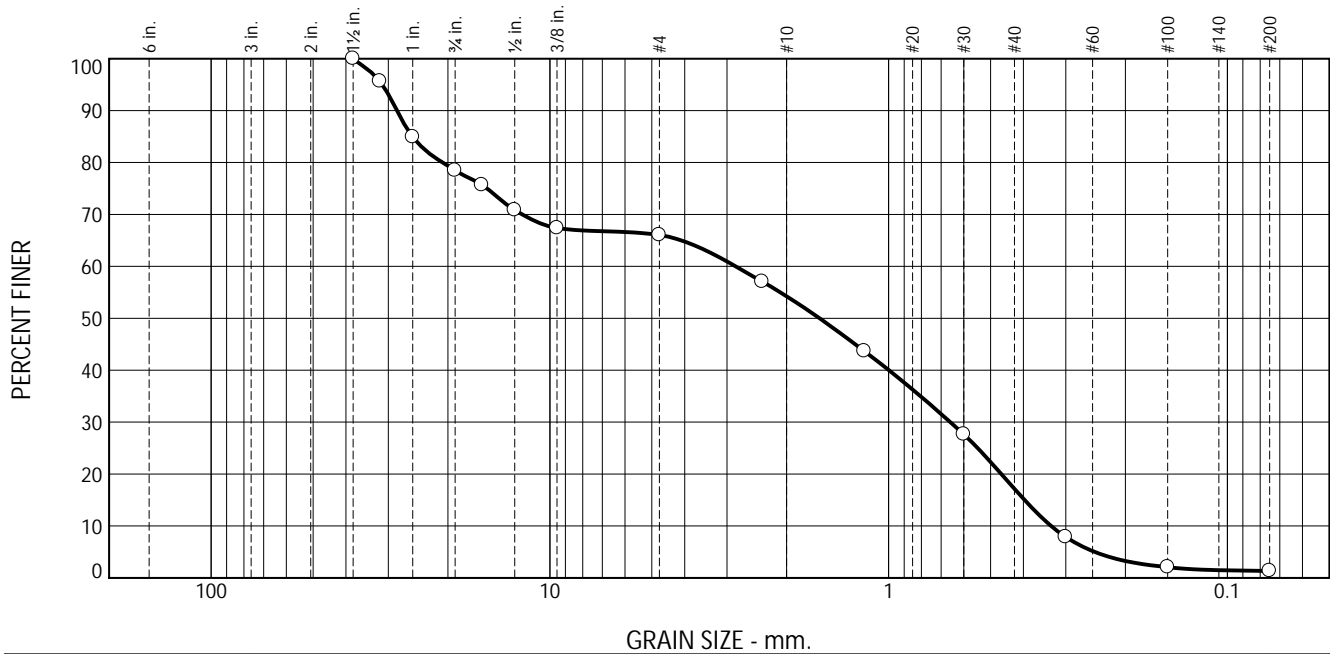
Project: Dickman Mill - Tacoma, WA

Project No.: 2012-103 T400

Client: Herrera Environmental Consultants

Sample Number: GS-2

Sample Date: 2/4/2025



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0	22	12	12	37	16	1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100		
1-1/4"	96		
1"	85		
3/4"	78		
5/8"	76		
1/2"	71		
3/8"	67		
#4	66		
#8	57		
#16	44		
#30	28		
#50	8		
#100	2		
#200	1.3		

Material Description

Dark brown, poorly graded SAND with gravel

Atterberg Limits

PL=                      LL=                      PI=

Coefficients

D<sub>85</sub>= 25.4765      D<sub>60</sub>= 2.8287      D<sub>50</sub>= 1.5995  
D<sub>30</sub>= 0.6579      D<sub>15</sub>= 0.3968      D<sub>10</sub>= 0.3314  
C<sub>u</sub>= 8.54            C<sub>c</sub>= 0.46

Classification

USCS= SP                      AASHTO=

Remarks

Natural Moisture: 3.1%

\* (no specification provided)

Figure 1

Checked By: CTM



## Dickman Mill Piling and Debris Removal

### Post Construction Report

Project No. DNR 14-E22  
WQ Certification Order No. 22587

PREPARED FOR:



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

## Table of Contents

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Location and Volume of Debris Removed .....	46
Sand/Gravel Quantity and Placement .....	47
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Pile Cutoff Locations .....	175



/// **PREDICTABLE EXCELLENCE.**

February 27, 2025

Washington Department of Natural Resources  
P.O. Box 47031  
Olympia, WA 98504-7030  
Attention: Timothy Goodman

**RE: DNR 24-E22 Completion**

Dear Mr. Goodman:

This Letter/statement is to confirm Orion's standing that we've completed the above referenced project per the contract plans and specifications. Orion completed all work at, or above contract required standards and have removed all visible pile and debris within the project limits. Upon removal Orion placed the minimum required thickness or greater of new clean sand/gravel per the contract requirements at all required locations.

We thank you for this opportunity and look forward to future projects together.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Strong".

Justin Strong  
Area Manager  
Orion Marine Contractors, Inc.

[oriongroup Holdings Inc. com](http://oriongroup Holdings Inc. com)

1010 S. 336th Street | Suite 202 | Federal Way, WA | 98003  
253.552.1140



















































Dickman Mill Piling Log

Date: 1/3/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
38	1/3/2025	W	Diver Cut	3' / 14"	(-122.47087643, 47.27810388) (-122.47086172, 47.27810257) (-122.470837347, 47.27809351) (-122.4708531, 47.27809468) (-122.4708769, 47.27809137) (-122.47085189, 47.27808724) (-122.47087742, 47.27808245) (-122.4708602, 47.27807871) (-12..47087919, 47.27809372) (-122.47086042, 47.27807064) (-122.47087909, 47.27806648) (-122.47085939, 47.27806235) (-122.47088126, 47.27806414) (-122.47086273, 47.27805662) (-122.47088212, 47.27805799) (-122.47088367, 47.27805733) (-122.47088672, 47.27805245) (-122.4708617, 47.27804832) (-122.47088569, 47.27804416) (-122.47086136, 47.27804556) (-122.47085701, 47.27803642) (-122.47089354, 47.27806709) (-122.47090268, 47.27806913) (-122.4709076, 47.27807571) (-122.4709126, 47.27805733) (-122.47089803, 47.2780544) (-122.47091238, 47.27805338) (-122.47090066, 47.278047) (-122.47091863, 47.27804267) (-122.47092464, 47.27804368) (-122.47089863, 47.27803659) (-122.4708912, 47.27803425) (-122.4708669, 47.27802635) (-122.47095791, 47.27813537) (-122.47091685, 47.27811356) (-122.47094361, 47.27510524) (-122.47097899, 47.27808958) (-122.47093993, 47.27807716)	Pile cut 2' below mudline. 4 out of 38 pile were pile that we broke previously.	

Dickman Mill Piling Log

Date: 1/6/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
16	1/6/2025	W	Diver Cut	3' / 14"	(-122.47089486, 47.27801529) (-122.4710018, 47.27806761) (-122.47098743, 47.27806705) (-122.4710049, 47.27806632) (-122.47098989, 47.27806386) (-122.47101515, 47.27812289) (-122.47099131, 47.27811789) (-122.47102525, 47.27811257) (-122.47101617, 47.27811165) (-122.47099829, 47.27810269) (-122.47097911, 47.27810715) (-122.47098621, 47.2781007) (-122.47099371, 47.27809755) (-122.47099444, 47.27809551) (-122.47100483, 47.27807979) (-122.47098918, 47.27806522)	Pile cut 2' below mudline. Divers found all of these pile, they were not previous pile that we broke.	

Dickman Mill Piling Log

Date: 1/7/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
1	1/7/2025	W	Direct Pull w/ Diver Assist	30' / 14"		Pulled in full. Was a pile that we previously broke.	
24	1/7/2025	W	Diver Cut	3' / 14"	(-122.47092891, 47.27847073) (-122.47102647, 47.27849792) (-122.47098775, 47.27851462) (-122.470968, 47.27850245) (-122.47105342, 47.2785031) (-122.47098275, 47.27846395) (-122.4708808, 47.27850152) (-122.47093228, 47.27892734) (-122.47093225, 47.2782438) (-122.47096826, 47.27841839) (-122.471093, 47.27866244) (-122.471027, 47.27871649) (-122.47105597, 47.27866027) (-122.47104437, 47.2786685) (-122.47107897, 47.27865343) (-122.47109849, 47.278865159) (-122.4711147, 47.27869852) (-122.47112343, 47.27868339) (-122.47112757, 47.278689) (-122.47114014, 47.27867197) (-122.47113635, 47.27869288) (-122.47112475, 47.27570514) (-122.47113803, 47.27872639) (-122.47113162, 47.27872658)	Pile cut 2' below mudline. 4 of the 24 were pile that we previously broke, the rest were found by divers.	



Dickman Mill Piling Log

Date: 1/9/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
22	1/9/2025	W	Diver Cut	3' / 14"	(-122.47120321, 47.2782519) (-122.471133, 47.27821539) (-122.47109737, 47.27819282) (-122.47106653, 47.27821279) (-122.47117283, 47.27821811) (-122.47119269, 47.27829018) (-122.47114629, 47.27828425) (-122.4711209, 47.27826551) (-122.47109463, 47.27827462) (-122.47109062, 47.27824658) (-122.47125236, 47.27829122) (-122.47112859, 47.27817098) (-122.47117715, 47.27813694) (-122.47118902, 47.27814308) (-122.47137598, 47.27820015) (-122.47128384, 47.2781444) (-122.47129842, 47.27811645) (-122.47121662, 47.27812105) (-122.47114277, 47.27810522) (-122.47110137, 47.27809934) (-122.47124866, 47.27814757) (-122.47130603, 47.27813711)	Pile cut 2' below mudline. 10 of the 22 were pile that we previously broke, the rest were found by divers.	

Dickman Mill Piling Log

Date: 1/10/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
23	1/10/2025	W	Diver Cut	3' / 14"	(-122.47129863, 47.27811675) (-122.47121674, 47.27809033) (-122.47118188, 47.27808152) (-122.47115281, 47.27810752) (-122.47112123, 47.27808694) (-122.47120574, 47.27808051) (-122.47144033, 47.27820259) (-122.47148865, 47.27825637) (-122.47150053, 47.27829245) (-122.4715046, 47.27822991) (-122.47145807, 47.2782754) (-122.47169775, 47.27831776) (-122.47168498, 47.27830026) (-122.47165656, 47.27832943) (-122.471678, 47.2782868) (-122.4716288, 47.27826813) (-122.47161929, 47.27829685) (-122.47159931, 47.27824867) (-122.47160808, 47.27830549) (-122.47158611, 47.27832155) (-122.47154915, 47.27833147) (-122.47158142, 47.2782836) (-122.47168659, 47.27835168)	Pile cut 2' below mudline. 5 of the 23 were pile that we previously broke, the rest were found by divers.	

Dickman Mill Piling Log

Date: 1/13/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
28	1/13/2025	W	Diver Cut	3' / 14"	(-122.47123411, 47.27875298) (-122.47128276, 47.27877187) (-122.47115904, 47.27870594) (-122.47119648, 47.27870716) (-122.47122449, 47.27872265) (-122.47128641, 47.27876155) (-122.47132363, 47.27875466) (-122.47132977, 47.27877132) (-122.47134929, 47.27880579) (-122.47136686, 47.27878709) (-122.47134572, 47.27879107) (-122.47134572, 47.27880402) (-122.47117038, 47.2786248) (-122.47119817, 47.27867419) (-122.47122763, 47.27870608) (-122.47130088, 47.27869579) (-122.47129869, 47.27868527) (-122.47133724, 47.2786774) (-122.47141029, 47.27874625) (-122.47139072, 47.27873693) (-122.47125733, 47.2786787) (-122.47141204, 47.27871608) (-122.47132984, 47.27860469) (-122.4713289, 47.27866451) (-122.47129118, 47.27865021) (-122.47125195, 47.27864309) (-122.47124315, 47.2786315) (-122.47119329, 47.27864022)	Pile cut 2' below mudline. These pile were all found by the divers.	

Dickman Mill Piling Log

Date: 1/14/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
23	1/14/2025	W	Diver Cut	3' / 14"	(-122.47143999, 47.27862461) (-122.47125429, 47.27848826) (-122.47139783, 47.2781144) (-122.47139283, 47.27851589) (-122.47139418, 47.27851947) (-122.47158007, 47.2781934) (-122.47146861, 47.27842847) (-122.148096, 47.27838502) (-122.47139766, 47.27841128) (-122.47150381, 47.27841134) (-122.47173142, 47.27856072) (-122.4716248, 47.27859042) (-122.47174179, 47.27868266) (-122.47175026, 47.27850747) (-122.47185355, 47.27857435) (-122.47177395, 47.27863988) (-122.47169993, 47.2782263) (-122.47167087, 47.27859611) (-122.47168726, 47.27856531) (-122.47174562, 47.27854882) (-122.47171621, 47.27859436) (-122.47164049, 47.27851517) (-122.47162396, 47.27855563)	Pile cut 2' below mudline. 11 out of 23 were pile that we previously broke. The rest were found by the divers.	

Dickman Mill Piling Log

Date: 1/15/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
23	1/15/2025	W	Diver Cut	3' / 14"	(-122.47158317, 47.27872326) (-122.47171966, 47.27876383) (-122.47171695, 47.27874704) (-122.471737, 47.27877396) (-122.47173755, 47.27874071) (-122.47177822, 47.27873974) (-122.47168483, 47.27874698) (-122.47163337, 47.27872951) (-122.47181113, 47.27871949) (-122.47181511, 47.27866899) (-122.47185676, 47.7862344) (-122.47179673, 47.27869626) (-122.47181943, 47.27861964) (-122.47179715, 47.27862972) (-122.47176187, 47.27862596) (-122.47178214, 47.27859625) (-122.47171368, 47.27859974) (-122.47175736, 47.27857133) (-122.47167517, 47.27856291) (-122.47187153, 47.27849772) (-122.47178398, 47.27846979) (-122.47172142, 47.27843311) (-122.47119244, 47.27846153)	Pile cut 2' below mudline. 5 out of 23 were pile that we previously broke. The rest were found by the divers.	

Dickman Mill Piling Log

Date: 1/16/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
1	1/16/2025	Addendum #1	Orion Dig and Cut	10' / 14"	(-122.47334, 47.27855)	This was the single pile west of the construction zone that was marked on sheet D1.3 per Addendum#1	
18	1/16/2025	W	Diver Cut	5' / 14"	(-122.4715062, 47.27884692) (-122.47154965, 47.27882665) (-122.47157122, 47.27886402) (-122.47148426, 47.27876989) (-122.47149099, 47.27876218) (-122.47156006, 47.27881144) (-122.47156526, 47.27885559) (-122.47165769, 47.27886041) (-122.47173361, 47.27883306) (-122.47173944, 47.27882172) (-122.47169822, 47.27879774) (-122.47177045, 47.27877515) (-122.47169751, 47.27877178) (-122.47163992, 47.27876845) (-122.47161809, 47.27876117) (-122.47174616, 47.27886406) (-122.47179138, 47.27877981) (-122.47158858, 47.27877295)	Pile cut 2' below mudline. All of these pile were found by the divers. They were not pile that we previously broke.	



Dickman Mill Piling Log

Date: 1/21/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
19	1/21/2025	W	Diver Cut	5' / 16"	(-122.47209037, 47.27881632) (-122.47209573, 47.27885474) (-122.47210422, 47.27890472) (-122.47207351, 47.27892244) (-122.47201577, 47.27894005) (-122.47206341, 47.27889741) (-122.47199062, 47.27888853) (-122.47200983, 47.27886736) (-122.47211161, 47.27897884) (-122.47202597, 47.2788372) (-122.47208213, 47.27874009) (-122.47200049, 47.27866235) (-122.47197763, 47.27875873) (-122.47187323, 47.27873275) (-122.47212922, 47.27877354) (-122.47207702, 47.27869437) (-122.47194643, 47.27876831) (-122.47202113, 47.27878226) (-122.47199936, 47.27873919)	Pile cut 2' below mudline. 3 of the 19 pile were pile that we previously broke.	



Dickman Mill Piling Log

Date: 1/23/2025

COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
4	1/23/2025	C	Diver Cut	6' / 14"	(-122.4705361, 47.27789927) (-122.47055297, 47.27787476) (-122.47050627, 47.27786848) (-122.47038779, 47.277831)	Pile cut 2' below mudline. These were the pile near the walkway of the park that we could not get with the crane during our initial direct pulling method of removal back in November.	
10	1/23/2025	C	Diver Cut	3' / 14"	(-122.46984527, 47.27778302) (-122.46986825, 47.27779099) (-122.4698999, 47.27779818) (-122.47009662, 47.27779317) (-122.47019001, 47.27779734) (-122.47081371, 47.27842149) (-122.47098601, 47.27827194) (-122.47098601, 47.27827194) (-122.47100924, 47.27825693) (-122.47095464, 47.27825712)	Pile cut 2' below mudline. All pile were found by the divers and not pile that we previously broke.	

**Dickman Mill Piling Log**

Date: 1/24/2025

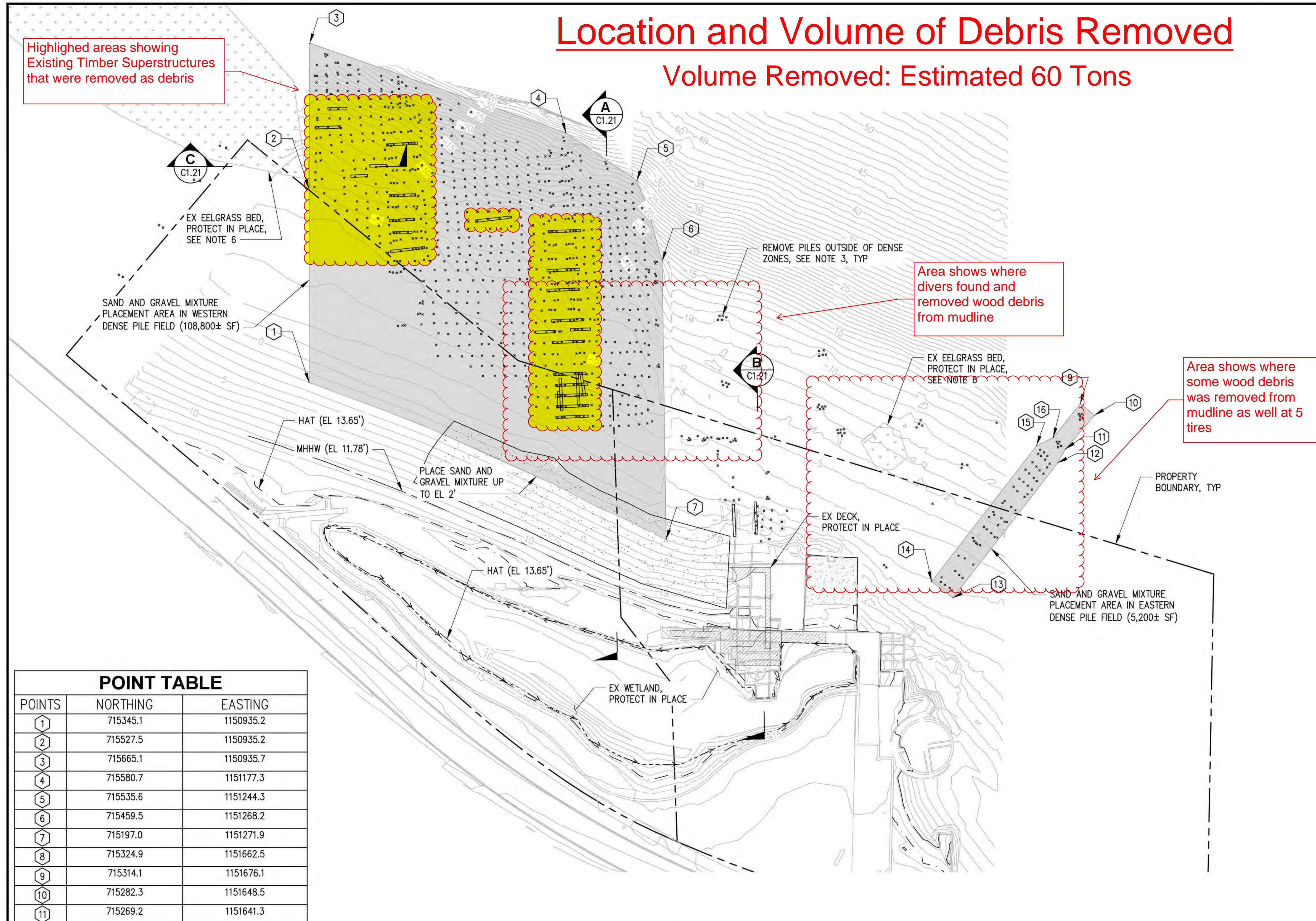
COUNT	DATE	APPRX. LOCATION	REMOVAL METHOD	Pile Size	GPS POINT	NOTES	Cut date
		E - Eastern Field C - Center W - Western Field	Vibro Hammer/Direct Pull Cut Diver Cut Direct Pull	Length (ft.) / Dia. (in.)	Coordinates in Decimal Degrees if pile snapped below mudline or cut		
10	1/24/2025	W	Diver Cut	3' / 14"	(-122.47096024, 47.27866757) (-122.47094249, 47.2786616) (-122.47094923, 47.27865531) (-122.47112445, 47.27869146) (-122.47092106, 47.27868815) (-122.47094482, 47.27868138) (-122.47125718, 47.27835202) (-122.47134221, 47.27816788) (-122.47186591, 47.27831533) (-122.47164438, 47.27832593)	Pile cut 2' below mudline. All pile were found by the divers and not pile that we previously broke.	





# Location and Volume of Debris Removed

Volume Removed: Estimated 60 Tons



## NOTES

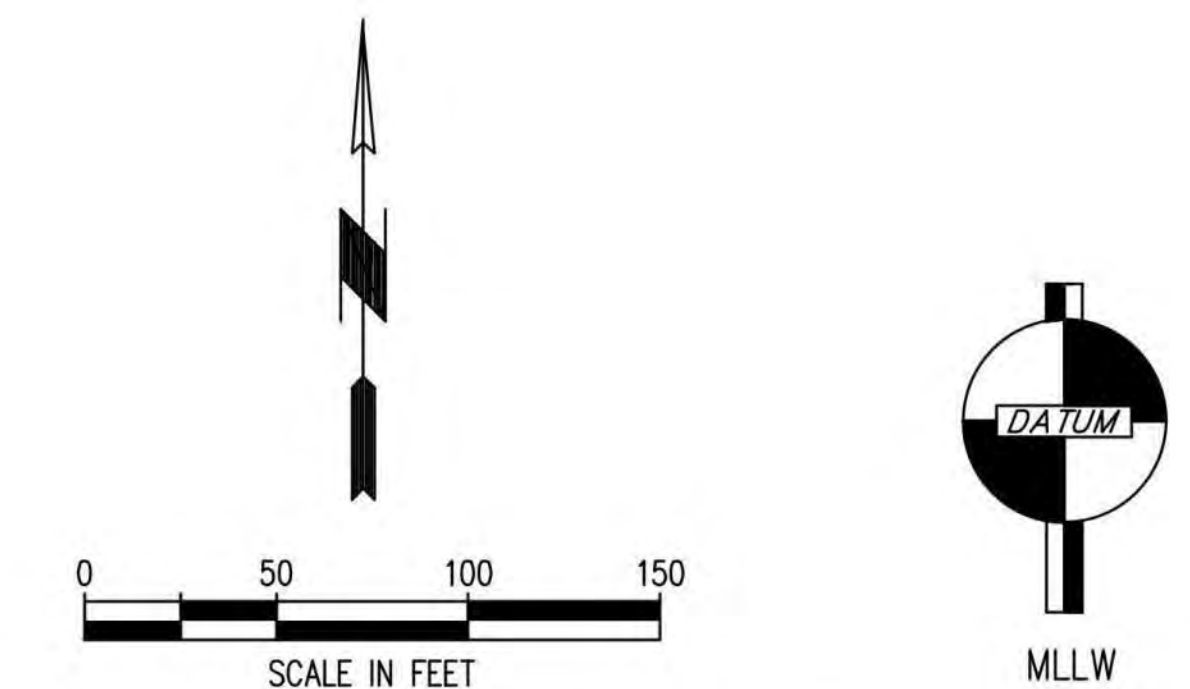
1. ALL ELEVATIONS SHOWN ARE IN MLLW VERTICAL DATUM.
2. FOR PILES WITHIN DENSE PILE FIELDS, PLACE 6" OF SAND AND GRAVEL MIXTURE (2,120± CY) AFTER PILE REMOVAL, SEE C1.21. CONTRACTOR SHALL CONFIRM SAND AND GRAVEL PLACEMENT EXTENDS A MINIMUM OF 2' BEYOND CENTERLINE OF ALL PILES TO COMPLETELY COVER PILE REMOVAL FIELD.
3. FOR PILES OUTSIDE OF DENSE PILE FIELDS, PLACE 6" GRAVELLY SAND MIX (30 CY±) WITHIN 2' RADIUS OF THE EXTRACTED PILE AFTER PILE IS REMOVED, SEE C1.11.
4. SEE SHEET D1.1 AND SPECIFICATIONS FOR DEBRIS REMOVAL PRIOR TO MATERIAL PLACEMENT.
5. SEE SPECIFICATIONS FOR FURTHER MATERIAL PLACEMENT REQUIREMENTS.
6. SEE SHEET G1.3 FOR ENVIRONMENTAL CONTROLS, INCLUDING SEDIMENT CURTAIN AND AVOIDING IMPACTS TO EEL GRASS BEDS.

## LEGEND

- — — — — PROPERTY BOUNDARY
- - - - - 10' - - - - - EXISTING CONTOUR
- - - - - MHHW - - - - - EXISTING MHHW (EL 11.78')
- - - - - HAT - - - - - EXISTING HAT (EL 13.65')
- EXISTING CREOSOTE-TREATED TIMBER PILE
- — — — — EXISTING REMNANT TIMBER SUPERSTRUCTURES
- APPROXIMATE EELGRASS AREA
- 6" THICK SAND AND GRAVEL MIXTURE PLACEMENT LIMIT, SEE NOTE 2 AND SPECIFICATIONS
- EXISTING SAND CAP AREA
- ⊗ HORIZONTAL CONTROL POINTS (SEE TABLE)

POINT TABLE		
POINTS	NORTHING	EASTING
1	715345.1	1150935.2
2	715527.5	1150935.2
3	715665.1	1150935.7
4	715580.7	1151177.3
5	715535.6	1151244.3
6	715459.5	1151268.2
7	715197.0	1151271.9
8	715324.9	1151662.5
9	715314.1	1151676.1
10	715282.3	1151648.5
11	715269.2	1151641.3
12	715141.8	1151542.3
13	715157.3	1151522.3
14	715285.5	1151621.4
15	715293.1	1151637.1

**GRAVELLY SAND PLACEMENT PLAN**  
SCALE = 1:50



**HERRERA**  
Science + Planning + Design  
herrerainc.com

**kpff**  
1601 5th Avenue, Suite 1300  
Seattle, Washington 98101  
(206) 382-0600 Fax (206) 382-0500



NO.	DATE	BY	REVISION



**DICKMAN MILL PILING AND DEBRIS REMOVAL**

**SAND AND GRAVEL MIX PLACEMENT PLAN**

DRAWN: YJP	PROJECT NO.: 2300206
DESIGN: KK	SCALE: AS SHOWN
CHECKED: NAW	DATE: 07/26/2024
DRAWING NO.	<b>C1.1</b>
SHEET NO.	<b>11 OF 13</b>

BID SET

## Material Placement Tracking - Final Project Totals

Measure draft at end of each shift to compare with previous days reading to KP 2 Material Barge

The "Tonnage Placed" column below refers to the tonnage placed calculated based on the average draft taken and the displacement chart. The "Adjusted Tonnage Placed" column takes the Tonnage Placed and adjusts its value to match the amount of material that was loaded on the barge. Reference "Loaded Amount from Dupont" Load 1 and Load 2

DATE	Average Draft	Displ Chart TNs	Tonnage Place	Adjusted tonnage placed	Area Covered (sf)	Avg Thickness (inches)	Adjusted Avg Thickness (inches)
Monday, 1/27/2025 - <b>Load #1</b>	9.35	1832.20					
Tuesday, January 28, 2025	7.73	1393.70	438.5	451.0	16,183.0	6.1	6.3
Wednesday, January 29, 2025	5.95	908.00	485.7	499.5	14,757.0	7.5	7.7
Thursday, January 30, 2025	3.83	354.00	554.0	569.8	15,928.0	7.9	8.1
Friday, January 31, 2025	2.65	105.30	248.7	255.8	8,418.0	6.7	6.9
			<b>1,726.9</b>	<b>1,776.0</b>	<b>55,286.0</b>	<b>7.07</b>	<b>7.27</b>

Loaded amount from Dupont for Load 1  
1,776.00 tn

Adjusted Tonnage Factor  
2.84%

DATE	Average Draft	Displ Chart TNs	Tonnage Place	Adjusted tonnage placed	Area Covered (sf)	Avg Thickness (inches)	Adjusted Avg Thickness (inches)
Monday, 2/3/2025 - <b>Load #2</b>	9.53	1879.40					
Tuesday, February 4, 2025	7.56	1348.60	530.8	538.8	23,262.0	5.2	5.2
Wednesday, February 5, 2025	5.80	886.50	462.1	469.1	16,372.0	6.4	6.5
Thursday, February 6, 2025	4.56	569.70	316.8	321.6	10,721.6	6.7	6.8
Friday, February 7, 2025	2.71	125.00	444.7	451.4	11,284.3	8.9	9.1
			<b>1,754.4</b>	<b>1,781.0</b>	<b>61,639.9</b>	<b>6.44</b>	<b>6.54</b>

Load 2 - from Dupont  
1,781.00 tn

Adjusted Tonnage Factor  
1.52%

<b>PROJECT TOTALS:</b>	<b>3,481.3</b>	<b>3,557.0</b>	<b>116,925.9</b>	<b>6.74</b>	<b>6.89</b>
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Total Material  
3,557.00 tn

### Daily Density Checks

Date	Weight
Monday, January 27, 2025	105
Tuesday, January 28, 2025	107
Wednesday, January 29, 2025	105
Thursday, January 30, 2025	103
Friday, January 31, 2025	105
Tuesday, February 4, 2025	106
Wednesday, February 5, 2025	107
Thursday, February 6, 2025	108
Friday, February 7, 2025	108

### Bombay Box Calculations

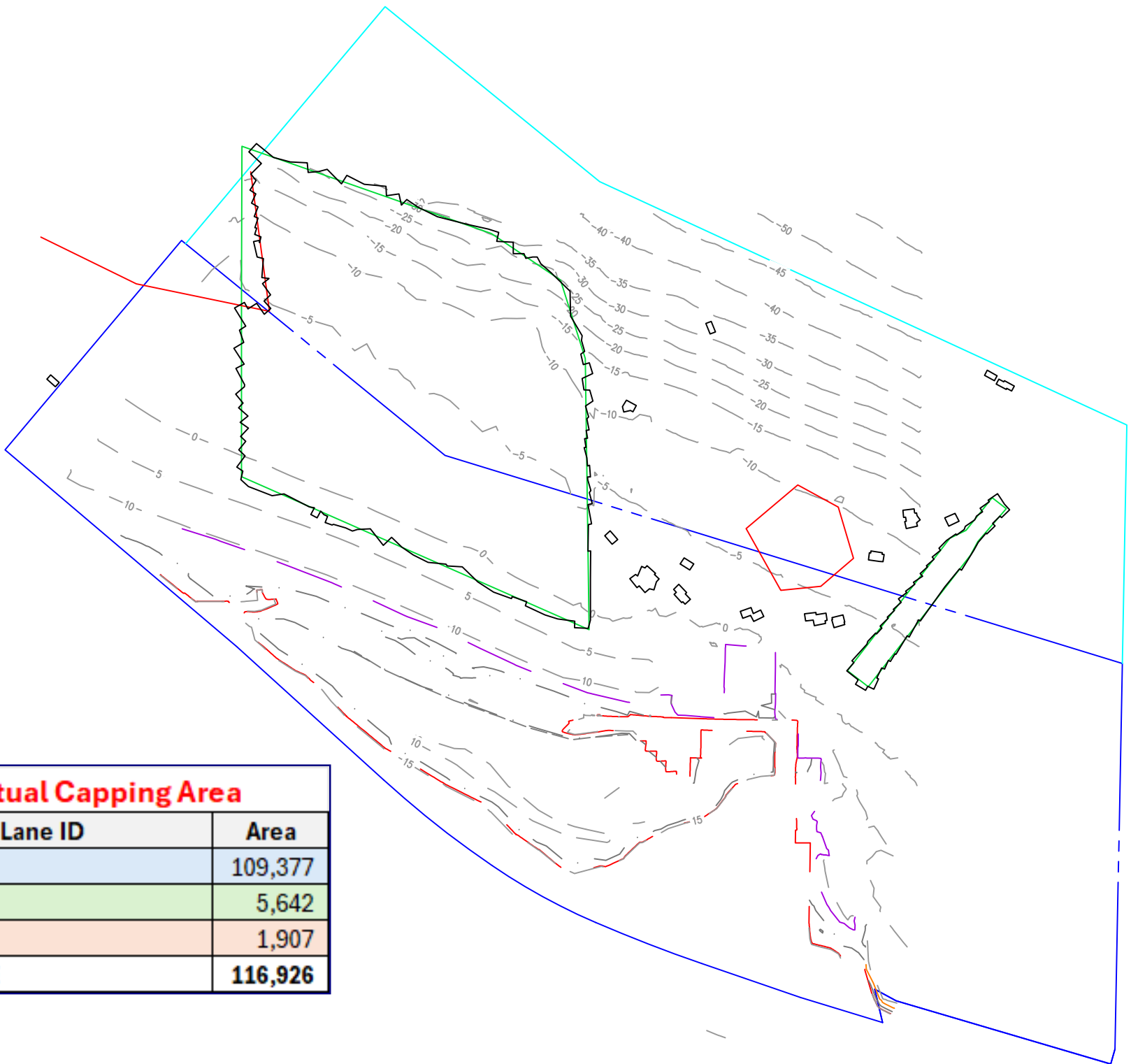
Width	5.8	ft
Length	10.9	ft
Depth	0.5	Min thickness of placement is 6", max paid thickness is 8"
Volume	31.8	cf
Volume	1.2	cy

A 1.4CY bucket was used on the loader to load material into the Bombay Box.  
Every Bombay Box placed is 1.4cy worth of material

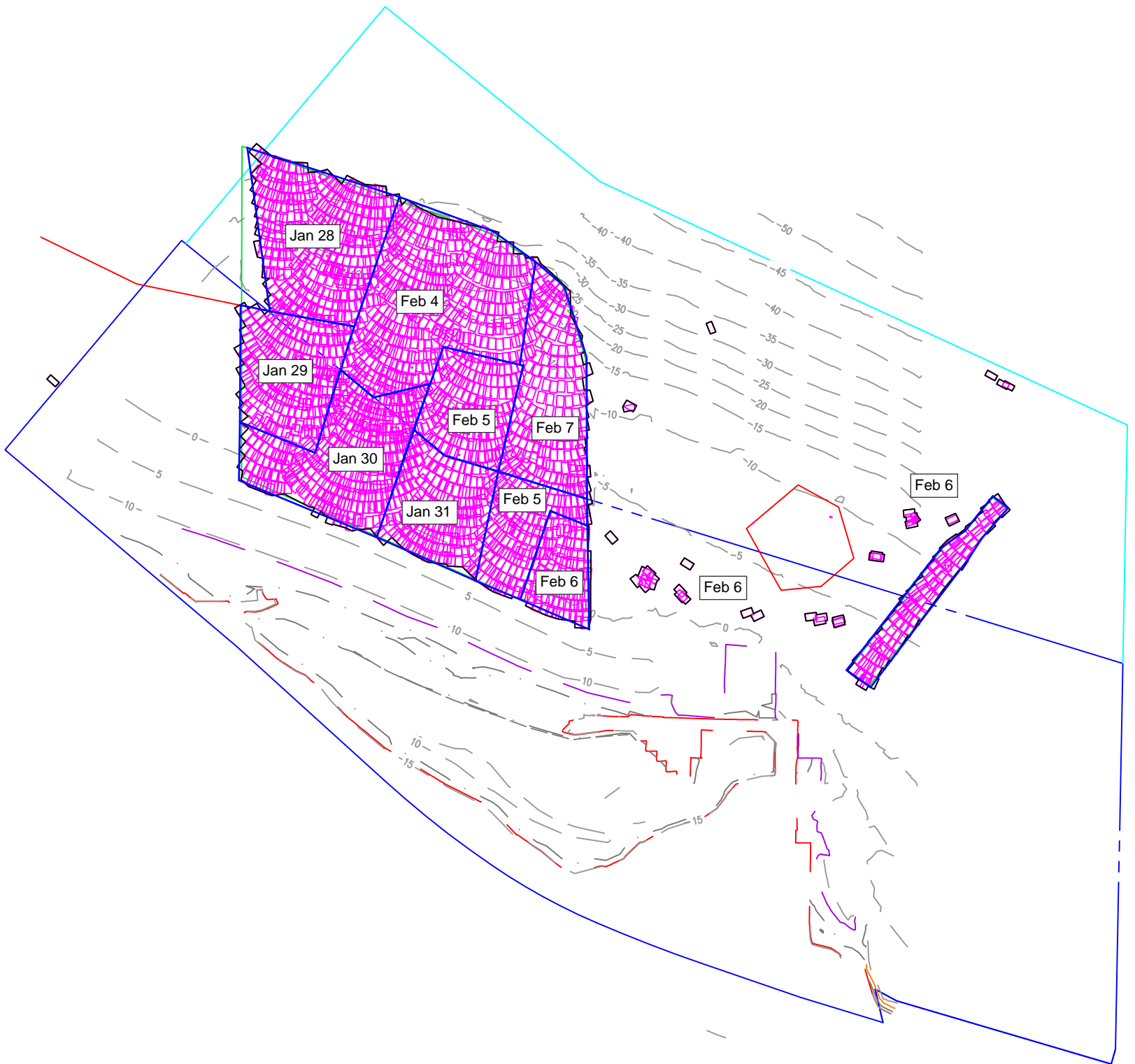
### KP2 Barge Dimensions

Length	180	ft
Width	50	ft
Draft	12	ft

**AVG Density, (lb/cf) 106.00**



<b>Actual Capping Area</b>	
<b>Lane ID</b>	<b>Area</b>
WEST	109,377
EAST	5,642
CENTER	1,907
<b>TOTAL SITE</b>	<b>116,926</b>



# CalPortland - Aggregate Submittal



Date: November 20, 2024

Product Number: 7113

Product Description: Dickman Mill Capping Material

Specification Number: Attached

Source: Pioneer Aggregates

Location: DuPont, WA

WSDOT Pit Number: B-335

**Specification:**

4" square	100% passing	% Fracture	-
2" square	85-100	Sand Equivalent	-
1" square	60-90	L.A. Wear	-
U.S. No. 10	40-60	Degradation:	-
U.S. No. 200	0-1	Dust Ratio	-

Specific Gravity: 2.741

% Fracture: NA

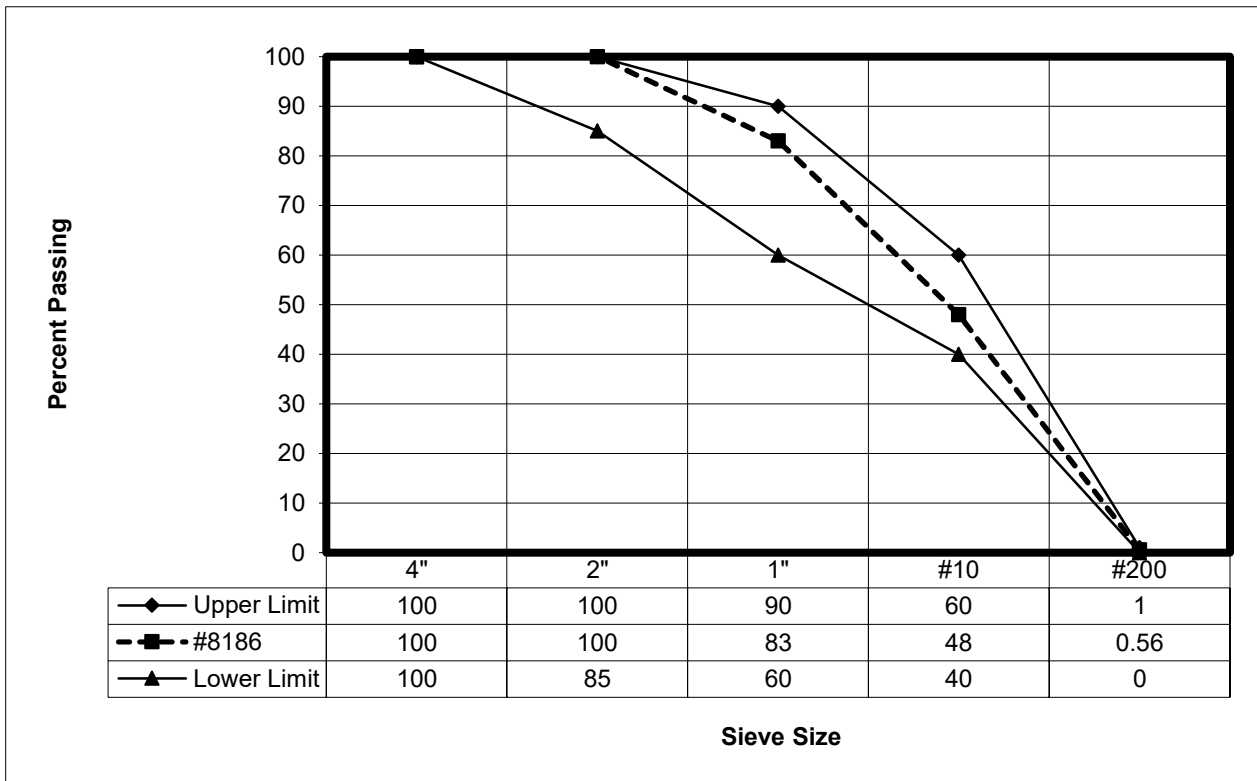
Absorption: 0.75

Sand Equivalent: PASS

L.A. Abrasion: 12.0%

Dust Ratio: 0

Degradation: 76



# GLACIER NORTHWEST

Phone (253) 912-8500

Fax (253) 912-8510

## Today's Loading Schedule

## DUPONT

Date: 1/23/2025 Time: 10:49

Hauler: 999

Barge #: KP2

Customer: 1021766 Orion

Order:

P.O.: P235-221970

Ticket#	Product	Ordered	Loaded
<u>3364614</u>	<u>7113</u>	<u>1760</u>	<u>1776</u>

TOTALS: 1760 1776

Load Number: 24757

Capacity:

Comments:

# GLACIER NORTHWEST

Phone (253) 912-8500

Fax (253) 912-8510

## Today's Loading Schedule

## DUPONT

Date: 2/3/2025 Time: 12:26

Hauler: 999

Barge #: KP2

Customer: 1021766 Orion

Order:

P.O.: P235-221970

Ticket#	Product	Ordered	Loaded
	<u>7113</u>	<u>1760</u>	<u>1781</u>

TOTALS: 1760 1781

Load Number: 24764

Capacity:

Comments:

<b>Dive Hours/Days</b>		
Date	Dive Day	Dive Hours
12/26/2025	1	8
12/27/2025	2	8
12/30/2025	3	8
12/31/2025	4	8
1/2/2025	5	8
1/3/2025	6	8
1/6/2025	7	8
1/7/2025	8	8
1/8/2025	9	8
1/9/2025	10	8
1/10/2025	11	8
1/13/2025	12	8
1/14/2025	13	8
1/15/2025	14	8
1/16/2025	15	8
1/17/2025	16	8
1/21/2025	17	8
1/22/2025	18	8
1/23/2025	19	8
1/24/2025	20	8
1/27/2025	21	8

**Total Dive Days**  
21

**Total Dive Hours**  
168

### Creosote Piling and Debris Disposal

Date	Profile #	Ticket #	Material	Facility	Vehicle #	Material Quantity	Material Unit
12/19/2024	144149OR	891177	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484180	19.84	TON
12/19/2024	144149OR	891180	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483743	18.94	TON
12/19/2024	144149OR	891183	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483342	18.85	TON
12/19/2024	144149OR	891186	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483826	20	TON
12/19/2024	144149OR	891190	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484148	18.51	TON
12/20/2024	144149OR	891437	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483673	19.57	TON
12/21/2024	144149OR	891438	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483138	20.25	TON
12/20/2024	144149OR	891439	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483422	20.4	TON
12/20/2024	144149OR	891440	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484122	14.84	TON
12/20/2024	144149OR	891441	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	480579	16.34	TON
12/21/2024	144149OR	891584	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483980	21.18	TON
12/23/2024	144149OR	891585	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	480537	18.87	TON
12/19/2024	144149OR	891586	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484189	19.79	TON
12/23/2024	144149OR	891587	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483820	18.41	TON
12/21/2024	144149OR	891755	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483370	21.38	TON
12/24/2024	144149OR	891756	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483570	21.38	TON
12/24/2024	144149OR	891757	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483586	19.57	TON
12/24/2024	144149OR	891758	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484169	16.36	TON
12/27/2024	144149OR	892026	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483774	23.47	TON
12/27/2024	144149OR	892027	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483999	21.33	TON
12/27/2024	144149OR	892028	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483362	21.3	TON
12/27/2024	144149OR	892029	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483869	19.3	TON
12/25/2024	144149OR	892030	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484211	18.89	TON
12/21/2024	144149OR	892033	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483317	17.3	TON
12/25/2024	144149OR	892204	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483117	25.7	TON
12/28/2024	144149OR	892209	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483829	21.31	TON
12/28/2024	144149OR	892212	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483684	22.38	TON
12/25/2024	144149OR	892220	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484240	20.58	TON
12/28/2024	144149OR	892224	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483532	14.52	TON
12/28/2024	144149OR	892225	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483668	16.6	TON
12/31/2024	144149OR	892695	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483462	22.01	TON
1/1/2025	144149OR	892877	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483591	17.59	TON
1/1/2025	144149OR	892878	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484145	20.22	TON
1/1/2025	144149OR	892880	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483169	19.19	TON
1/6/2025	144149OR	893042	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	480584	20.86	TON

1/8/2025	144149OR	893171	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484227	21.61	TON
1/8/2025	144149OR	893172	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483996	19.25	TON
1/7/2025	144149OR	893173	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483230	20.24	TON
12/18/2024	144149OR	893174	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483598	19.78	TON
1/8/2025	144149OR	893455	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483725	21.06	TON
1/8/2025	144149OR	893456	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483940	21.25	TON
1/9/2025	144149OR	893591	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483415	26.52	TON
1/9/2025	144149OR	893592	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483815	21.3	TON
1/9/2025	144149OR	893593	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	480631	24.76	TON
1/1/2025	144149OR	893601	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484292	15.83	TON
1/6/2025	144149OR	893602	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483188	19.98	TON
1/2/2025	144149OR	893733	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484076	18.29	TON
1/11/2025	144149OR	894003	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484033	18.25	TON
1/13/2025	144149OR	894004	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484062	23.05	TON
1/14/2025	144149OR	894022	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484264	21.81	TON
12/18/2024	144149OR	895084	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484288	20.87	TON
1/30/2025	144149OR	896199	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483052	14.9	TON
1/30/2025	144149OR	896200	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483832	10.99	TON
1/30/2025	144149OR	896201	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484262	16.86	TON
2/1/2025	144149OR	896312	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483033	11.26	TON
2/1/2025	144149OR	896452	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	484279	21.32	TON
2/3/2025	144149OR	896453	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483582	18.18	TON
2/3/2025	144149OR	896454	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483828	25.29	TON
2/4/2025	144149OR	896515	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	483348	21.04	TON
2/27/2025	144149OR	899044	Treated/Weathered Wood	Columbia Ridge Landfill & Recycling Center	200186	4.9	TON
<b>Total Tonnage Disposed:</b>						<b>1165.62</b>	<b>TONS</b>

<b>Creosote Water Disposal</b>		
Total Gallons Disposed	25600	Gallons
Avg Weight of Water	8.34	lbs per Gallon
Tonnage Water Disposed	106.75	Tons
Total Solids Disposed	1	Ton
<b>Total Tonnage Disposed</b>	<b>107.75</b>	<b>Tons</b>



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891177

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 12/22/2024 Vehicle# 484180 Volume  
 Payment Type Credit Account Container 484180  
 Manual Ticket# 1164458 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98140 lb*
In	12/19/2024 08:30:39	MANUAL WT	cwalsh3		Tare	58460 lb*
Out	12/22/2024 08:30:39		cwalsh3		Net	39680 lb
			* Manual Weight		Tons	19.84

Comments SWAP

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.84	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma

WASTE PROFILE: 1441490R

Address: 1857 Taylor way  
Tacoma, WA

Contact: Matt

CONTAINER #: 484180

Contact Phone#: 253-905-1806

<b>TIME:</b>	<b>DRIVER REQUIRED TO UN-TARP/TARP LOAD</b>
SHIPPER IN: <u>6</u> (00)(15)(30)(45)(AM)(PM)	<input type="checkbox"/>
SHIPPER OUT: <u>6</u> (00)(15)(30)(45)(AM)(PM)	

<b>Deliver To:</b>	<b>Transporter Name:</b>	<b>Disposal Facility:</b>
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

**CONTAINER INSPECTION**

TRUCK # 936

CHASSIS # 708057

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

HARRIET SUNGHEBRAR  
(PRINT)

**DRIVER NAME**

Harricket 12/18/24  
(SIGN) DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891180

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/22/2024 Vehicle# 483743 Volume  
 Payment Type Credit Account Container 483743  
 Manual Ticket# 1164455 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	99120 lb*
In	12/19/2024 08:34:06	MANUAL WT	cwalsh3		Tare	61240 lb*
Out	12/22/2024 08:34:06		cwalsh3		Net	37880 lb
			* Manual Weight		Tons	18.94

Comments SWAP

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.94	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN

## BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman mill

WASTE PROFILE: 1441490R

Address: 1851 Taylor way  
Tacoma WA

Contact: MATT

CONTAINER #: 483743

Contact Phone#: 253 905 1806

SHIPPER IN		SHIPPER OUT	
<u>0615</u>	TIME: <u>0630</u>		
(00)(15)(30)(45)(AM)(PM)		(00)(15)(30)(45)(AM)(PM)	

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 945

**CONTAINER INSPECTION**

CHASSIS # 707291

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Jan Rothenduhler  
(PRINT)

**DRIVER NAME**

Jan  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cowdeninc.com](http://www.cowdeninc.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891183

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/22/2024 Vehicle# 483342 Volume  
 Payment Type Credit Account Container 483342  
 Manual Ticket# 1164454 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98080 lb*
In	12/19/2024 08:36:04	MANUAL WT	cwalsh3		Tare	60380 lb*
Out	12/22/2024 08:36:04		cwalsh3		Net	37700 lb
			* Manual Weight		Tons	18.85

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.85	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill,  
 Address: 1857 Taylor way  
Paloma, WA.

WASTE PROFILE: 1441490R

Contact: Math.  
 Contact Phone#: 253-905-1806

CONTAINER #: 483342

**TIME:**

SHIPPER IN: 10 (00)(15)(30)(45)(AM)(PM) SHIPPER OUT: 10 (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
 Union Pacific Intermodal  
 Facility ARGO Yard  
 402 South Dawson  
 Seattle WA 98108  
 206-764-1541

**Transporter Name:**  
 Cowden Brothers  
 Trucking, LLC  
 3880 Hannegan Rd  
 Bellingham, WA 98226  
 425-220-9154

**Disposal Facility:**  
 Columbia Ridge Landfill  
 18177 Cedar Springs Lane  
 Arlington, OR 97812  
 503-454-2030

TRUCK # 936  
 CHASSIS # 742244

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

HARPREET SINGH  
 (PRINT) BROR

**DRIVER NAME**

Harpreet Singh  
 (SIGN) 12/17/24  
 DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cowdeninc.com](http://www.cowdeninc.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891186

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/22/2024 Vehicle# 483826 Volume  
 Payment Type Credit Account Container 483826  
 Manual Ticket# 1164456 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	96560 lb*
In	12/19/2024 08:37:45	MANUAL WT	cwalsh3		Tare	56560 lb*
Out	12/22/2024 08:37:45		cwalsh3		Net	40000 lb
			* Manual Weight		Tons	20.00

Comments DELIVERY

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.00	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 DEL U SPW-DELIVERY	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orient Marine WASTE PROFILE: 1441490R

Address: 1851 Taylor Way

Tacoma WA

Contact: John Anderson

CONTAINER #: 483826

Contact Phone# 253-267-4814

<b>TIME:</b>	<b>DRIVER REQUIRED TO UN-TARP/TARP LOAD</b>
SHIPPER IN: <u>10</u> (00)(15)(30)(45)(AM)(PM) SHIPPER OUT: <u>11</u> (00)(15)(30)(45)(AM)(PM)	<input type="checkbox"/>

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # <u>934</u>	<b>CONTAINER INSPECTION</b>
CHASSIS # <u>703876</u>	( ) DOOR LATCHES BROKEN
	( ) DOOR LATCHES WILL NOT LATCH
	( ) DOOR SEALS LEAK
	( ) GARBAGE INSIDE CONTAINER
	( ) MISSING CRANK HANDLE
	( ) MISSING ROPES
	( ) MISSING/BROKEN BUNGE CORDS
	( ) ONE ( ) TWO ( ) THREE ( ) FOUR
	( ) RAMP IS DAMAGED
	( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
	( ) TARP RIGHT SIDE MISSING CLAMP
	( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
	( ) TARP IS TORN
	( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
	( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**  
Ryan Long  
(PRINT)

**DRIVER NAME**  
Ryan Long  
(SIGN) 12-17-24  
DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891190

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 12/22/2024 Vehicle# 484148 Volume  
 Payment Type Credit Account Container 484148  
 Manual Ticket# 1164457 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	97440 lb*
In	12/19/2024 08:39:53	MANUAL WT	cwalsh3		Tare	60420 lb*
Out	12/22/2024 08:39:53		cwalsh3		Net	37020 lb
			* Manual Weight		Tons	18.51

Comments DELIVERY

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.51	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 DEL U SPW-DELIVERY	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name Dickman Mill/Orion Marine

WASTE PROFILE: 144149OR

Address: 1851 Taylor Way

Tacoma WA

Contact: John Anderson

CONTAINER #: 484148

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN <u>6</u> (00)(15)(30) <u>45</u> AM (PM)	SHIPPER OUT <u>7</u> (00)(15)(30) <u>45</u> AM (PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

<p><b>Deliver To:</b> Union Pacific Intermodal Facility ARGO Yard  402 South Dawson Seattle WA 98108  206-764-1541</p>	<p><b>Transporter Name:</b> Cowden Brothers Trucking, LLC  3880 Hannegan Rd Bellingham, WA 98226  425-220-9154</p>	<p><b>Disposal Facility:</b> Columbia Ridge Landfill  18177 Cedar Springs Lane Arlington, OR 97812  503-454-2030</p>
--	--	--

TRUCK # 934  
  
CHASSIS # 707290

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME  
Ryan Long  
(PRINT)

DRIVER NAME  
Ryan Long  
(SIGN)      12-18-24  
DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891437

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/23/2024 Vehicle# 483673 Volume  
 Payment Type Credit Account Container 483673  
 Manual Ticket# 1164568 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	94080 lb*
In	12/20/2024 13:24:40	MANUAL WT	cwalsh3		Tare	54940 lb*
Out	12/23/2024 13:24:40		cwalsh3		Net	39140 lb
			* Manual Weight		Tons	19.57

Comments SWAP 15 MIN SB

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.57	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				
7 SB HRLY SPW-STANDB	100	0.25	Each				

Driver`s Signature

# COWDEN

## BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill / Orion Marine WASTE PROFILE: 1441490R

Address: 1851 Taylor Way  
Tacoma WA

Contact: John Anderson

CONTAINER #: 483673

Contact Phone#: 253-267-4818

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD  <input type="checkbox"/>
SHIPPER IN <u>9</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT <u>10</u> (00)(15)(30)(45)(AM)(PM)	

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425 220-9154

503-454-2030

TRUCK # 934

CHASSIS # 703

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 12-18-24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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 Ph: (541) 454-2030

Reprint  
 Ticket# 891438

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/23/2024 Vehicle# 483138 Volume  
 Payment Type Credit Account Container 483138  
 Manual Ticket# 1164692 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98780 lb*
In	12/21/2024 13:27:44	MANUAL WT	cwalsh3		Tare	58280 lb*
Out	12/23/2024 13:27:44		cwalsh3		Net	40500 lb
			* Manual Weight		Tons	20.25

Comments SWAP

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.25	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN

## BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orion Marina WASTE PROFILE: 144149 OR

Address: 1851 Taylor Way  
Tacoma WA

Contact: John Anderson

CONTAINER #: 483138

Contact Phone#: 253-267-4818

TIME:	
SHIPPER IN <u>7</u> <input type="radio"/> (00)(15)(30)(45) AM <input checked="" type="radio"/> (PM)	SHIPPER OUT <u>7</u> <input type="radio"/> (00)(15)(30)(45) AM <input checked="" type="radio"/> (PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 934

CHASSIS # 70806

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 12-20-24  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891439

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/23/2024 Vehicle# 483422 Volume  
 Payment Type Credit Account Container 483422  
 Manual Ticket# 1164567 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98440 lb*
In	12/20/2024 13:29:58	MANUAL WT	cwalsh3		Tare	57640 lb*
Out	12/23/2024 13:29:58		cwalsh3		Net	40800 lb
			* Manual Weight		Tons	20.40

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.40	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill Tacoma.

WASTE PROFILE: 1441490R

Address: 1851 Taylor Way  
Tacoma, WA.

Contact: John

CONTAINER #: 483422

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN: <u>6</u> (00)(15)(30)(45)(AM)(PM) <input checked="" type="checkbox"/>	SHIPPER OUT: <u>6</u> (00)(15)(30)(45)(AM)(PM) <input checked="" type="checkbox"/>

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 936

**CONTAINER INSPECTION**

CHASSIS # 708057

- DOOR LATCHES BROKEN
- DOOR LATCHES WILL NOT LATCH
- DOOR SEALS LEAK
- GARBAGE INSIDE CONTAINER
- MISSING CRANK HANDLE
- MISSING ROPES
- MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- RAMP IS DAMAGED
- TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- TARP RIGHT SIDE MISSING CLAMP
- TARP HOLDING RODS ( ) BENT ( ) BROKEN
- TARP IS TORN
- TARP ROLL BAR ( ) BENT ( ) BROKEN
- TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

HARPREET SINGH BRAR  
(PRINT)

**DRIVER NAME**

Harpreet Singh 12/19/24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Reprint  
 Ticket# 891440

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 12/23/2024 Vehicle# 484122 Volume  
 Payment Type Credit Account Container 484122  
 Manual Ticket# 1164569 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	88360 lb*
In	12/20/2024 13:32:19	MANUAL WT	cwalsh3		Tare	58680 lb*
Out	12/23/2024 13:32:19		cwalsh3		Net	29680 lb
			* Manual Weight		Tons	14.84

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	14.84	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN

## BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma

WASTE PROFILE: 1441490R

Address: 1807 Taylor way  
Tacoma, WA

Contact: Math

CONTAINER #: 484122

Contact Phone#: 253-905-1806

<b>TIME:</b>	
SHIPPER IN: <u>9</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>9</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 936

**CONTAINER INSPECTION**

CHASSIS # 910

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

HARPREET SINGH  
(PRINT)

BRAR

**DRIVER NAME**

Harpreet Singh  
(SIGN) 12/18/24  
DATE

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Reprint  
 Ticket# 891441

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 480  
 Ticket Date 12/23/2024 Vehicle# 480579 Volume  
 Payment Type Credit Account Container 480579  
 Manual Ticket# 1164566 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	88540 lb*
In	12/20/2024 13:36:35	MANUAL WT	cwalsh3		Tare	55860 lb*
Out	12/23/2024 13:36:35		cwalsh3		Net	32680 lb
			* Manual Weight		Tons	16.34

Comments SWAP

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	16.34	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Pickemox mill  
 Address: 1851 Taylor way  
Tacoma  
 Contact: MATT  
 Contact Phone#: 253 905 1806

WASTE PROFILE: 14414902  
480579  
 CONTAINER #: 48B

TIME: 0915

SHIPPER IN 0900 (00)(15)(30)(45)(AM)(PM) SHIPPER OUT: (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

<b>Deliver To:</b>	<b>Transporter Name:</b>	<b>Disposal Facility:</b>
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 945  
 CHASSIS # 922

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME  
Jan Rothendubler  
 (PRINT)

DRIVER NAME  
Jan R  
 (SIGN) DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891584

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/24/2024 Vehicle# 483980 Volume  
 Payment Type Credit Account Container 483980  
 Manual Ticket# 1164694 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101140 lb*
In	12/21/2024 15:50:53	MANUAL WT	CWALSH3		Tare	58780 lb*
Out	12/24/2024 15:50:53		CWALSH3		Net	42360 lb
			* Manual Weight		Tons	21.18

Comments swap

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.18	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN

## BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickmons Mill  
 Address: 1851 Taylor way  
Tacoma  
 Contact: Matt  
 Contact Phone#: 253 905 1806

WASTE PROFILE: 1441490R  
 CONTAINER #: 483980

0630                      TIME:                      0645

SHIPPER IN: (00)(15)(30)(45)(AM)(PM)      SHIPPER OUT: (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
 Union Pacific Intermodal  
 Facility ARGO Yard

**Transporter Name:**  
 Cowden Brothers  
 Trucking, LLC

**Disposal Facility:**  
 Columbia Ridge Landfill

402 South Dawson  
 Seattle WA 98108

3880 Hannegan Rd  
 Bellingham, WA 98226

18177 Cedar Springs Lane  
 Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 945  
 CHASSIS # 706057

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

(PRINT)

**DRIVER NAME**

(SIGN)

DATE

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Reprint  
 Ticket# 891585

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 480  
 Ticket Date 12/24/2024 Vehicle# 480537 Volume  
 Payment Type Credit Account Container 480537  
 Manual Ticket# 1164815 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	96480 lb*
In	12/23/2024 15:48:14	MANUAL WT	CWALSH3		Tare	58740 lb*
Out	12/24/2024 15:48:14		CWALSH3		Net	37740 lb
			* Manual Weight		Tons	18.87

Comments REPLACEMENT TICKET FOR TICKET Nbr 891583

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.87	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill / Orion Marine WASTE PROFILE: 144149 OR

Address: 1851 Taylor Way  
Tacoma WA

Contact: John Anderson

CONTAINER #: 480537

Contact Phone#: 253-267-4818

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD <input type="checkbox"/>
SHIPPER IN: <u>10</u> ( ) (15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>10</u> ( ) (15)(30)(45)(AM)(PM)	

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 934

CHASSIS # 609

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Ryan Long  
(PRINT)

DRIVER NAME

Ryan Long 12-20-21  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891586

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 12/24/2024 Vehicle# 484189 Volume  
 Payment Type Credit Account Container 484189  
 Manual Ticket# 1164695 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	97920 lb*
In	12/19/2024 15:56:00	MANUAL WT	CWALSH3		Tare	58340 lb*
Out	12/24/2024 15:56:00		CWALSH3		Net	39580 lb
			* Manual Weight		Tons	19.79

Comments SWAP 15 MIN SB

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.79	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				
7 SB HRLY SPW-STANDB	100	0.25	Each				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Talama.

WASTE PROFILE: 1441490R

Address: 1851 Taylor Way  
Talama, WA.

Contact: John

CONTAINER #: 484189

Contact Phone#: 253-267-481A

<b>TIME:</b>	
SHIPPER IN: <u>9</u> (00)(15)(30)(45)(AM)(PM) <input checked="" type="checkbox"/>	SHIPPER OUT: <u>10</u> (00)(15)(30)(45)(AM)(PM) <input checked="" type="checkbox"/>

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 936

**CONTAINER INSPECTION**

CHASSIS # 702

- DOOR LATCHES BROKEN
- DOOR LATCHES WILL NOT LATCH
- DOOR SEALS LEAK
- GARBAGE INSIDE CONTAINER
- MISSING CRANK HANDLE
- MISSING ROPES
- MISSING/BROKEN BUNGE CORDS
- ONE  TWO  THREE  FOUR
- RAMP IS DAMAGED
- TARP BAR, RIGHT SIDE  BENT  BROKEN
- TARP RIGHT SIDE MISSING CLAMP
- TARP HOLDING RODS  BENT  BROKEN
- TARP IS TORN
- TARP ROLL BAR  BENT  BROKEN
- TARP STRAPS  BENT  MISSING

**DRIVER NAME**

HARPREET SINGH BRAR  
(PRINT)

**DRIVER NAME**

Harpreet Singh 12/19/24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cowdeninc.com](http://www.cowdeninc.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891587

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/24/2024 Vehicle# 483820 Volume  
 Payment Type Credit Account Container 483820  
 Manual Ticket# 1164817 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	94600 lb*
In	12/23/2024 15:59:21	MANUAL WT	CWALSH3		Tare	57780 lb*
Out	12/24/2024 15:59:21		CWALSH3		Net	36820 lb
			* Manual Weight		Tons	18.41

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.41	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Pickman mill  
 Address: 1851 Taylor way  
Tacoma WA  
 Contact: Matt  
 Contact Phone# 253 905 1806

WASTE PROFILE: 1441490R

CONTAINER #: 483820

0845	TIME: 0900	
SHIPPER IN (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT (00)(15)(30)(45)(AM)(PM)	

DRIVER REQUIRED TO UN-TARP/TARP LOAD

<p><b>Deliver To:</b>                  Union Pacific Intermodal                  Facility ARGO Yard                  402 South Dawson                  Seattle WA 98108                  206-764-1541</p>	<p><b>Transporter Name:</b>                  Cowden Brothers                  Trucking, LLC                  3880 Hannegan Rd                  Bellingham, WA 98226                  425-220-9154</p>	<p><b>Disposal Facility:</b>                  Columbia Ridge Landfill                  18177 Cedar Springs Lane                  Arlington, OR 97812                  503-454-2030</p>
---	---	--

TRUCK # 945

CHASSIS # 707393

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Jan Reichenbichler  
 (PRINT)

DRIVER NAME

[Signature]  
 (SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cbwtl.com](http://www.cbwtl.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891755

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/26/2024 Vehicle# 483370 Volume  
 Payment Type Credit Account Container 483370  
 Manual Ticket# 1164816 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101240 lb*
In	12/21/2024 12:08:34	MANUAL WT	jaday		Tare	58480 lb*
Out	12/26/2024 12:08:34		jaday		Net	42760 lb
			* Manual Weight		Tons	21.38

Comments Swap 12/18

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.38	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman M.H Tacoma

WASTE PROFILE: 14414902

Address: 1851 Taylor Way  
Tacoma WA 98421

Contact: John Anderson

CONTAINER #: 483370

Contact Phone#: 253-267-4818

TIME:	
SHIPPER IN: <u>8:15</u> (00)(15)(30)(45) (AM) (PM)	SHIPPER OUT: <u>8:45</u> (00)(15)(30)(45) (AM) (PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**

Union Pacific Intermodal  
Facility ARGO Yard

402 South Dawson  
Seattle WA 98108

206-764-1541

**Transporter Name:**

Cowden Brothers  
Trucking, LLC

3880 Hannegan Rd  
Bellingham, WA 98226

425-220-9154

**Disposal Facility:**

Columbia Ridge Landfill

18177 Cedar Springs Lane  
Arlington, OR 97812

503-454-2030

TRUCK # 937

**CONTAINER INSPECTION**

CHASSIS # 707290

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

MARCO S MITCHELL  
(PRINT) WDL425PC2333

**DRIVER NAME**

[Signature] 12-20-24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891756

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/26/2024 Vehicle# 483570 Volume  
 Payment Type Credit Account Container 483570  
 Manual Ticket# 1164907 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/CUST PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101240 lb*
In	12/24/2024 12:10:27	MANUAL WT	jaday		Tare	58480 lb*
Out	12/26/2024 12:10:27		jaday		Net	42760 lb
			* Manual Weight		Tons	21.38

Comments Swap 12/20

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.38	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman mill / Orion Marine

WASTE PROFILE: 144149012

Address: 1851 Taylor Way  
Tacoma

Contact: \_\_\_\_\_

CONTAINER #: 483570

Contact Phone#: \_\_\_\_\_

<b>TIME:</b>	<b>DRIVER REQUIRED TO UN-TARP/TARP LOAD</b>
SHIPPER IN <u>07</u> (00)(15)(30)(45)(PM) SHIPPER OUT <u>07</u> (00)(15)(30)(45)(PM)	<input type="checkbox"/>

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 938  
CHASSIS # 708061

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**  
Lane Renskers  
(PRINT)

**DRIVER NAME**  
[Signature]  
(SIGN) DATE 12-23-21



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891757

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/26/2024 Vehicle# 483586 Volume  
 Payment Type Credit Account Container 483586  
 Manual Ticket# 1164908 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	94620 lb*
In	12/24/2024 12:12:22	MANUAL WT	jaday		Tare	55480 lb*
Out	12/26/2024 12:12:22		jaday		Net	39140 lb
			* Manual Weight		Tons	19.57

Comments Swap 12/20

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.57	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name Dickman Mill / Orion Marine

WASTE PROFILE: 144149OR

Address: 1851 Taylor Way

Tacoma WA

Contact: John Anderson

CONTAINER #: 483584

Contact Phone# 253-267-4818

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD <input type="checkbox"/>
SHIPPER IN <u>7</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT <u>7</u> (00)(15)(30)(45)(AM)(PM)	

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 934

CHASSIS # 707291

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Ryan Long  
(PRINT)

DRIVER NAME

Ryan Long 12-23-24  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 891758

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 12/26/2024 Vehicle# 484169 Volume  
 Payment Type Credit Account Container 484169  
 Manual Ticket# 1164909 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	93160 lb*
In	12/24/2024 12:18:14	MANUAL WT	jaday		Tare	60440 lb*
Out	12/26/2024 12:18:14		jaday		Net	32720 lb
			* Manual Weight		Tons	16.36

Comments Swap 12/20

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	16.36	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892026

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/28/2024 Vehicle# 483774 Volume  
 Payment Type Credit Account Container 483774  
 Manual Ticket# 1165120 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	104300 lb*
In	12/27/2024 12:11:08	MANUAL WT	jaday		Tare	57360 lb*
Out	12/28/2024 12:11:08		jaday		Net	46940 lb
			* Manual Weight		Tons	23.47

Comments Swap 12/23

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	23.47	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman mill

WASTE PROFILE: 144149 OR

Address: 1851 Taylor way  
Tacoma

Contact: matt

CONTAINER #: 483774

Contact Phone#: 253 9051806

0915	TIME: 0930	
SHIPPER IN: _____ (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: _____ (00)(15)(30)(45)(AM)(PM)	

DRIVER REQUIRED TO UN-TARP/TARP LOAD

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 945

CHASSIS # 923

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Jon Reichenbuhler  
(PRINT)

DRIVER NAME

[Signature]  
(SIGN) \_\_\_\_\_ DATE \_\_\_\_\_

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892027

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/28/2024 Vehicle# 483999 Volume  
 Payment Type Credit Account Container 483999  
 Manual Ticket# 1165122 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98640 lb*
In	12/27/2024 12:12:50	MANUAL WT	jaday		Tare	55980 lb*
Out	12/28/2024 12:12:50		jaday		Net	42660 lb
			* Manual Weight		Tons	21.33

Comments 1 Hour 15 Mis SB Swap 12/23

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.33	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	1.25	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill Tacoma

WASTE PROFILE: 1441490R

Address: 1857 Taylor Way  
Tacoma, WA

Contact: Jan

CONTAINER #: 483999

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN <u>6</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT <u>8</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD

Deliver To:  
Union Pacific Intermodal  
Facility ARGO Yard

Transporter Name:  
Cowden Brothers  
Trucking, LLC

Disposal Facility:  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 922

**CONTAINER INSPECTION**

CHASSIS # 708061

- DOOR LATCHES BROKEN
- DOOR LATCHES WILL NOT LATCH
- DOOR SEALS LEAK
- GARBAGE INSIDE CONTAINER
- MISSING CRANK HANDLE
- MISSING ROPES
- MISSING/BROKEN BUNGE CORDS
- ONE ( ) TWO ( ) THREE ( ) FOUR
- RAMP IS DAMAGED
- TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- TARP RIGHT SIDE MISSING CLAMP
- TARP HOLDING RODS ( ) BENT ( ) BROKEN
- TARP IS TORN
- TARP ROLL BAR ( ) BENT ( ) BROKEN
- TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

HARPREET SINGH  
(PRINT)

BRAR

DRIVER NAME

Harpreet Singh  
(SIGN)

12/28/24  
DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4700

[WWW.COWDENBROS.COM](http://WWW.COWDENBROS.COM)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892028

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/28/2024 Vehicle# 483362 Volume  
 Payment Type Credit Account Container 483362  
 Manual Ticket# 1165119 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101880 lb*
In	12/27/2024 12:15:02	MANUAL WT	jaday		Tare	59280 lb*
Out	12/28/2024 12:15:02		jaday		Net	42600 lb
			* Manual Weight		Tons	21.30

Comments 30 Mis SB Swap 12/23

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.30	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.50	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma  
 Address: 1857 Taylor Way,  
Tacoma WA.  
 Contact: Jon  
 Contact Phone# 253-267-4818

WASTE PROFILE: 144149OR

CONTAINER #: 483362

SHIPPER IN <u>10</u> (00)(15)(30)(45)(AM)(PM)	TIME:	SHIPPER OUT <u>11</u> (00)(15)(30)(45)(AM)(PM)
---	-------	--

DRIVER REQUIRED TO UN-TARP/TARP LOAD

<b>Deliver To:</b>	<b>Transporter Name:</b>	<b>Disposal Facility:</b>
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 922  
 CHASSIS # 703879

- CONTAINER INSPECTION**
- ( ) DOOR LATCHES BROKEN
  - ( ) DOOR LATCHES WILL NOT LATCH
  - ( ) DOOR SEALS LEAK
  - ( ) GARBAGE INSIDE CONTAINER
  - ( ) MISSING CRANK HANDLE
  - ( ) MISSING ROPES
  - ( ) MISSING/BROKEN BUNGE CORDS
  - ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
  - ( ) RAMP IS DAMAGED
  - ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
  - ( ) TARP RIGHT SIDE MISSING CLAMP
  - ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
  - ( ) TARP IS TORN
  - ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
  - ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**  
HARPREET SINGH  
 (PRINT) BRAR

**DRIVER NAME**  
Harpreet Singh  
 (SIGN) 12/28/24  
 DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892029

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/28/2024 Vehicle# 483869 Volume  
 Payment Type Credit Account Container 483869  
 Manual Ticket# 1165121 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	94600 lb*
In	12/27/2024 12:17:00	MANUAL WT	jaday		Tare	56000 lb*
Out	12/28/2024 12:17:00		jaday		Net	38600 lb
			* Manual Weight		Tons	19.30

Comments 30 Mis SB Swap 12/23

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.30	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.50	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman mill

WASTE PROFILE: 141490R

Address: 1851 Taylor way  
Tacoma

Contact: mat  
Contact Phone#: 253 905 1804

CONTAINER #: 483869

<u>0615</u>	TIME: <u>0715</u>
SHIPPER IN (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 945

**CONTAINER INSPECTION**

CHASSIS # 707057

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME  
Jon Rothenbuhler  
(PRINT)

DRIVER NAME  
[Signature]  
(SIGN) DATE

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 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892030

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 12/28/2024 Vehicle# 484211 Volume  
 Payment Type Credit Account Container 484211  
 Manual Ticket# 1164989 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	97600 lb*
In	12/25/2024 12:18:45	MANUAL WT	jaday		Tare	59820 lb*
Out	12/28/2024 12:18:45		jaday		Net	37780 lb
			* Manual Weight		Tons	18.89

Comments Live Load

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.89	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name Dickman Mill / Orion Marine

WASTE PROFILE: 1441490R

Address 1851 Taylor Way

Tacoma WA

Contact John Anderson

CONTAINER #: 464211

Contact Phone# 253-267-4818

TIME:	
SHIPPER IN <u>9</u> (00)(15)(30)(45) (AM)(PM)	SHIPPER OUT <u>10</u> (00)(15)(30)(45) (AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 934

CHASSIS # 707290

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 12-23-24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892033

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 12/24/2024 Vehicle# 483317 Volume  
 Payment Type Credit Account Container 483317  
 Manual Ticket# 1164693 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	89480 lb*
In	12/21/2024 12:40:07	MANUAL WT	cwalsh3		Tare	54880 lb*
Out	12/24/2024 12:40:07		cwalsh3		Net	34600 lb
			* Manual Weight		Tons	17.30

Comments SWAP

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	17.30	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orion Marine

WASTE PROFILE: 15414902

Address: 1851 Taylor Way

Tacoma WA

Contact: John Anderson

CONTAINER #: 483317

Contact Phone#: 253-267-4818

**TIME:**

SHIPPER IN: 10 ( ) (15) (30) (45) (AM) (PM) SHIPPER OUT: 10 ( ) (15) (30) (45) (AM) (PM)

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD



**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 934

CHASSIS # 707291

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 12-19-24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892204

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/01/2025 Vehicle# 483117 Volume  
 Payment Type Credit Account Container 483117  
 Manual Ticket# 1164988 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	112040 lb*
In	12/25/2024 07:26:13	MANUAL WT	jaday		Tare	60640 lb*
Out	01/01/2025 07:26:13		jaday		Net	51400 lb
			* Manual Weight		Tons	25.70

Comments No Delivery 12/20

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	25.70	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill  
 Address: 1851 Taylor way  
Tacoma WA  
 Contact: Matt  
 Contact Phone# 253 405 1806

WASTE PROFILE: 144148 R

CONTAINER #: 483117

SHIPPER IN <u>0630</u>	TIME: <u>0645</u>	SHIPPER OUT _____
(00)(15)(30)(45)(AM)(PM)		(00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 945

CHASSIS # 708057

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Jon Reichenbuhler  
(PRINT)

DRIVER NAME

[Signature]  
(SIGN) DATE \_\_\_\_\_

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892209

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/01/2025 Vehicle# 483829 Volume  
 Payment Type Credit Account Container 483829  
 Manual Ticket# 1165200 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	102320 lb*
In	12/28/2024 07:28:28	MANUAL WT	jaday		Tare	59700 lb*
Out	01/01/2025 07:28:28		jaday		Net	42620 lb
			* Manual Weight		Tons	21.31

Comments No Delivery 12/26

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.31	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma WASTE PROFILE: 1441490R

Address: 1851 Taylor way  
Tacoma, WA.

Contact: John CONTAINER #: 483829

Contact Phone# 253-267-4818

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD <input type="checkbox"/>
SHIPPER IN <u>6</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>6</u> (00)(15)(30)(45)(AM)(PM)	

<b>Deliver To:</b> Union Pacific Intermodal Facility ARGO Yard 402 South Dawson Seattle WA 98108  206-764-1541	<b>Transporter Name:</b> Cowden Brothers Trucking, LLC 3880 Hannegan Rd Bellingham, WA 98226  425 220 9154	<b>Disposal Facility:</b> Columbia Ridge Landfill 18177 Cedar Springs Lane Arlington, OR 97812  503-454-2030
--	--	---

TRUCK # 942

CHASSIS # 708061

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

HARPREET SINGH  
(PRINT) BRAR

**DRIVER NAME**

Harpreet Singh 12/27/24  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892212

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/01/2025 Vehicle# 483684 Volume  
 Payment Type Credit Account Container 483684  
 Manual Ticket# 1165199 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	104360 lb*
In	12/28/2024 07:30:59	MANUAL WT	jaday		Tare	59600 lb*
Out	01/01/2025 07:30:59		jaday		Net	44760 lb
			* Manual Weight		Tons	22.38

Comments No Delivery 12/26

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	22.38	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickinson Mill

WASTE PROFILE: 144149OR

Address 1851 Taylor Hwy  
Tacoma

Contact: matt

CONTAINER #: 483684

Contact Phone#: 253 9051800

<u>0615</u>	TIME: <u>0630</u>	
SHIPPER IN _____ (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT _____ (00)(15)(30)(45)(AM)(PM)	

DRIVER REQUIRED TO UN-TARP/TARP LOAD

<p><b>Deliver To:</b> Union Pacific Intermodal Facility ARGO Yard  402 South Dawson Seattle WA 98108  206 764-1541</p>	<p><b>Transporter Name:</b> Cowden Brothers Trucking, LLC  3880 Hannegan Rd Bellingham, WA 98226  425-220-9154</p>	<p><b>Disposal Facility:</b> Columbia Ridge Landfill  18177 Cedar Springs Lane Arlington, OR 97812  503-454-2030</p>
--	--	--

TRUCK # 945  
CHASSIS # 208057

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME  
Jon Reichenbuhler  
(PRINT)

DRIVER NAME  
Jon Reichenbuhler  
(SIGN) DATE \_\_\_\_\_



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892220

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/01/2025 Vehicle# 484240 Volume  
 Payment Type Credit Account Container 484240  
 Manual Ticket# 1164990 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	99440 lb*
In	12/25/2024 07:38:59	MANUAL WT	jaday		Tare	58280 lb*
Out	01/01/2025 07:38:59		jaday		Net	41160 lb
			* Manual Weight		Tons	20.58

Comments No Delivery 12/23

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.58	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill

WASTE PROFILE: 1441490R

Address: 1891 Taylor way

Tacoma

Contact: matt

CONTAINER #: 484240

Contact Phone# 253 905 1806

SHIPPER IN: <u>0845</u> (00)(15)(30)(45)(AM)(PM)	TIME: <u>0900</u>	SHIPPER OUT: _____ (00)(15)(30)(45)(AM)(PM)
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DRIVER REQUIRED TO UN-TARP/TARP LOAD

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 745

**CONTAINER INSPECTION**

CHASSIS # 938

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME  
Jon Reichenbuhler  
(PRINT)

DRIVER NAME  
[Signature]  
(SIGN) DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892224

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/01/2025 Vehicle# 483532 Volume  
 Payment Type Credit Account Container 483532  
 Manual Ticket# 1165197 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	87560 lb*
In	12/28/2024 07:41:07	MANUAL WT	jaday		Tare	58520 lb*
Out	01/01/2025 07:41:07		jaday		Net	29040 lb
			* Manual Weight		Tons	14.52

Comments No Delivery 12/26

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	14.52	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

## BILL OF LADING

### Generator/Shipper

Name Dickman mill

WASTE PROFILE: 144149 OR

Address 1851 Taylor way  
Tacoma

Contact: MATT

CONTAINER #: 483532

Contact Phone#: 253 905 1806

SHIPPER IN <u>0830</u> (00)(15)(30)(45)(AM)(PM)	TIME: <u>0900</u>	SHIPPER OUT (00)(15)(30)(45)(AM)(PM)	DRIVER REQUIRED TO UN-TARP/TARP LOAD
			<input type="checkbox"/>

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 945

CHASSIS # 924

### CONTAINER INSPECTION

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME  
Jon Rothenbuhler  
(PRINT)

DRIVER NAME  
[Signature]  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cowdenrv.com](http://www.cowdenrv.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892225

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/01/2025 Vehicle# 483668 Volume  
 Payment Type Credit Account Container 483668  
 Manual Ticket# 1165198 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	92000 lb*
In	12/28/2024 07:43:23	MANUAL WT	jaday		Tare	58800 lb*
Out	01/01/2025 07:43:23		jaday		Net	33200 lb
			* Manual Weight		Tons	16.60

Comments 15 Mins SB No Delivery 12/27

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	16.60	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.25	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill Tacoma

WASTE PROFILE: 1441490R

Address: 1857 Taylor way.  
Tacoma, WA

Contact: John

CONTAINER #: 483668

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN: <u>9</u> ( ) (15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>9</u> ( ) (15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

<b>Deliver To:</b> Union Pacific Intermodal Facility ARGO Yard  402 South Dawson Seattle WA 98108  206-764-1541	<b>Transporter Name:</b> Cowden Brothers Trucking, LLC  3880 Hannegan Rd Bellingham, WA 98226  425-220-9154	<b>Disposal Facility:</b> Columbia Ridge Landfill  18177 Cedar Springs Lane Arlington, OR 97812  503-454-2030
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TRUCK # 942  
CHASSIS # 923

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME  
HARPREET Singh BRAR  
(PRINT)

DRIVER NAME  
Harpreet Singh  
(SIGN)      DATE 12/27/24

3880 Hannegan Rd, Bellingham, WA 98226 \* (360)592-4200

[www.cowdenbros.com](http://www.cowdenbros.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892695

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/05/2025 Vehicle# 483462 Volume  
 Payment Type Credit Account Container 483462  
 Manual Ticket# 1165358 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	103080 lb*
In	12/31/2024 08:47:08	MANUAL WT	jaday		Tare	59060 lb*
Out	01/05/2025 08:47:08		jaday		Net	44020 lb
			* Manual Weight		Tons	22.01

Comments No Delivery

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	22.01	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill/Orion Marine

WASTE PROFILE: 1441490R

Address: 1851 Taylor Way

Taloma WA

Contact: John Anderson

CONTAINER #: 483462

Contact Phone#: 253-267-4818

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD  <input type="checkbox"/>
SHIPPER IN: <u>6</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>7</u> (00)(15)(30)(45)(AM)(PM)	

<b>Deliver To:</b>	<b>Transporter Name:</b>	<b>Disposal Facility:</b>
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 934

CHASSIS # 70T291

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Ryan Long  
(PRINT)

DRIVER NAME

Ryan Long 12:30-24  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892877

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/03/2025 Vehicle# 483591 Volume  
 Payment Type Credit Account Container 483591  
 Manual Ticket# 1165433 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	91960 lb*
In	01/01/2025 13:28:20	MANUAL WT	CWALSH3		Tare	56780 lb*
Out	01/03/2025 13:28:20		CWALSH3		Net	35180 lb
			* Manual Weight		Tons	17.59

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	17.59	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orion Marine

WASTE PROFILE: 1441490R

Address: 1851 Taylor Way  
Tacoma WA

Contact: John Anderson

CONTAINER #: 483591

Contact Phone#: 253-267-4818

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD <input type="checkbox"/>
SHIPPER IN: <u>9</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>9</u> (00)(15)(30)(45)(AM)(PM)	

<b>Deliver To:</b>	<b>Transporter Name:</b>	<b>Disposal Facility:</b>
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 934  
CHASSIS # 913

- CONTAINER INSPECTION**
- ( ) DOOR LATCHES BROKEN
  - ( ) DOOR LATCHES WILL NOT LATCH
  - ( ) DOOR SEALS LEAK
  - ( ) GARBAGE INSIDE CONTAINER
  - ( ) MISSING CRANK HANDLE
  - ( ) MISSING ROPES
  - ( ) MISSING/BROKEN BUNGE CORDS
  - ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
  - ( ) RAMP IS DAMAGED
  - ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
  - ( ) TARP RIGHT SIDE MISSING CLAMP
  - ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
  - ( ) TARP IS TORN
  - ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
  - ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**  
Ryan Long  
(PRINT)

**DRIVER NAME**  
Ryan Long  
(SIGN)      12-30-24  
DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892878

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/03/2025 Vehicle# 484145 Volume  
 Payment Type Credit Account Container 484145  
 Manual Ticket# 1165435 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98060 lb*
In	01/01/2025 13:30:18	MANUAL WT	CWALSH3		Tare	57620 lb*
Out	01/03/2025 13:30:18		CWALSH3		Net	40440 lb
			* Manual Weight		Tons	20.22

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.22	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: DICKMAN MILL  
 Address: 1851 TAYLOR WAY  
TACOMA WA

WASTE PROFILE: 144M90R

Contact: \_\_\_\_\_

CONTAINER #: 484145

Contact Phone# \_\_\_\_\_

<b>TIME:</b>	
SHIPPER IN <u>5</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>5</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
 Union Pacific Intermodal  
 Facility ARGO Yard

**Transporter Name:**  
 Cowden Brothers  
 Trucking, LLC

**Disposal Facility:**  
 Columbia Ridge Landfill

402 South Dawson  
 Seattle WA 98108

3880 Hannegan Rd  
 Bellingham, WA 98226

18177 Cedar Springs Lane  
 Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 940  
 CHASSIS # 708057  
922

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

JEREMY SKEOKS  
 (PRINT)

**DRIVER NAME**

[Signature]  
 (SIGNATURE)      12-31-24  
 DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 892880

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/03/2025 Vehicle# 483169 Volume  
 Payment Type Credit Account Container 483169  
 Manual Ticket# 1165432 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	93680 lb*
In	01/01/2025 13:33:35	MANUAL WT	CWALSH3		Tare	55300 lb*
Out	01/03/2025 13:33:35		CWALSH3		Net	38380 lb
			* Manual Weight		Tons	19.19

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.19	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill / Orion Marine

WASTE PROFILE: 144149012

Address: 1851 Taylor Way  
Tacoma WA

Contact: John Anderson

CONTAINER #: 483169

Contact Phone#: 253-267-4818

TIME:  
SHIPPER IN: 6 (00)(15)(30)(45) (AM)(PM) SHIPPER OUT: 70 (00)(15)(30)(45) (AM)(PM)

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 934

**CONTAINER INSPECTION**

CHASSIS # 708061

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 12-31-24  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893042

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 480  
 Ticket Date 01/07/2025 Vehicle# 480584 Volume  
 Payment Type Credit Account Container 480584  
 Manual Ticket# 1165729 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	99560 lb*
In	01/06/2025 09:26:28	MANUAL WT	jaday		Tare	57840 lb*
Out	01/07/2025 09:26:28		jaday		Net	41720 lb
			* Manual Weight		Tons	20.86

Comments 1 Hour 45 Mins SB Delivery 12/11

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.86	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 DEL U SPW-DELIVERY	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma

WASTE PROFILE: 144149 OR

Address: 1851 Taylor Way  
Tacoma

Contact: \_\_\_\_\_

CONTAINER #: 480584

Contact Phone#: \_\_\_\_\_

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD  <input type="checkbox"/>
SHIPPER IN <u>07</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT <u>09</u> (00)(15)(30)(45)(AM)(PM)	

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

TRUCK # 938

CHASSIS # 707394

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Lane Ronskers  
(PRINT)

**DRIVER NAME**

[Signature] 1-3-25  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893171

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/08/2025 Vehicle# 484227 Volume  
 Payment Type Credit Account Container 484227  
 Manual Ticket# 1165892 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101700 lb*
In	01/08/2025 11:02:19	MANUAL WT	jaday		Tare	58480 lb*
Out	01/08/2025 11:02:19		jaday		Net	43220 lb
			* Manual Weight		Tons	21.61

Comments Swap 1/6

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.61	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mill Tacoma

WASTE PROFILE: 1441490R  
~~103878~~

Address: 1851 Tayler way  
Tacoma

Contact: Math

CONTAINER #: 484227

Contact Phone#: 253-905-1806

TIME:  
SHIPPER IN: 7 (00)(15)(30)(45)(AM)(PM) SHIPPER OUT: B (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD



Deliver To:  
Union Pacific Intermodal  
Facility ARGO Yard

Transporter Name:  
Cowden Brothers  
Trucking, LLC

Disposal Facility:  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 936

**CONTAINER INSPECTION**

CHASSIS # 708065

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

HARROBT SIMIN BRAR  
(PRINT)

DRIVER NAME

Harrobt Simin  
(SIGN) DATE 01/07/20

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893172

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/08/2025 Vehicle# 483996 Volume  
 Payment Type Credit Account Container 483996  
 Manual Ticket# 1165891 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	93540 lb*
In	01/08/2025 11:03:53	MANUAL WT	jaday		Tare	55040 lb*
Out	01/08/2025 11:03:53		jaday		Net	38500 lb
			* Manual Weight		Tons	19.25

Comments Swap 1/6

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.25	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name Dickman Mill/Orion Marine

WASTE PROFILE: 144149 OR

Address: 1851 Taylor Way  
Tacoma WA

Contact: John Anderson

CONTAINER #: 483996

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN. <u>7</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT. <u>8</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 934

**CONTAINER INSPECTION**

CHASSIS # 708061

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 1-7-25  
(SIGN) DATE

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 18177 Cedar Springs Lane  
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 Ph: (541) 454-2030

Reprint  
 Ticket# 893173

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/08/2025 Vehicle# 483230 Volume  
 Payment Type Credit Account Container 483230  
 Manual Ticket# 1165805 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	95340 lb*
In	01/07/2025 11:05:38	MANUAL WT	jaday		Tare	54860 lb*
Out	01/08/2025 11:05:38		jaday		Net	40480 lb
			* Manual Weight		Tons	20.24

Comments 15 Mins SB Live Load

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.24	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.25	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma

WASTE PROFILE: 14414902

Address: 1851 Taylor Way  
Tacoma, WA 98421

Contact: MAIT Cottingham

CONTAINER #: 483230

Contact Phone#: 253-905-1806

<b>TIME:</b>	<b>DRIVER REQUIRED TO UN-TARP/TARP LOAD</b>
SHIPPER IN: <u>8:45</u> (00)(15)(30)(45)(AM)(PM)	<input type="checkbox"/>
SHIPPER OUT: <u>9:30</u> (00)(15)(30)(45)(AM)(PM)	

<b>Deliver To:</b>	<b>Transporter Name:</b>	<b>Disposal Facility:</b>
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

<b>TRUCK #</b> <u>937</u>	<b>CONTAINER INSPECTION</b>
<b>CHASSIS #</b> <u>708065</u>	( ) DOOR LATCHES BROKEN
	( ) DOOR LATCHES WILL NOT LATCH
	( ) DOOR SEALS LEAK
	( ) GARBAGE INSIDE CONTAINER
	( ) MISSING CRANK HANDLE
	( ) MISSING ROPES
	( ) MISSING/BROKEN BUNGE CORDS
	( ) ONE ( ) TWO ( ) THREE ( ) FOUR
	( ) RAMP IS DAMAGED
<b>DRIVER NAME</b>	( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
<u>MARKIE MITCHELL</u>	( ) TARP RIGHT SIDE MISSING CLAMP
(PRINT) <u>WDL H25 PC 2333</u>	( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
<b>DRIVER NAME</b>	( ) TARP IS TORN
<u>[Signature]</u>	( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
(SIGN)	( ) TARP STRAPS ( ) BENT ( ) MISSING
<b>DATE</b> <u>1-6-24</u>	



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893174

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/08/2025 Vehicle# 483598 Volume  
 Payment Type Credit Account Container 483598  
 Manual Ticket# 1164414 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	94680 lb*
In	12/18/2024 11:07:35	MANUAL WT	jaday		Tare	55120 lb*
Out	01/08/2025 11:07:35		jaday		Net	39560 lb
			* Manual Weight		Tons	19.78

Comments Swap 12/16

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.78	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orien Marine

WASTE PROFILE: 14414902

Address: 1851 Taylor Way

Tacoma WA

Contact: John Anderson

CONTAINER #: 483598

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN: <u>7</u> (00)(15)(30)(45) <input checked="" type="radio"/> AM <input type="radio"/> PM	SHIPPER OUT: <u>8</u> (00)(15)(30)(45) <input type="radio"/> AM <input checked="" type="radio"/> PM

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard  
  
402 South Dawson  
Seattle WA 98108  
  
206-764-1541

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC  
  
3880 Hannegan Rd  
Bellingham, WA 98226  
  
425-220-9154

**Disposal Facility:**  
Columbia Ridge Landfill  
  
18177 Cedar Springs Lane  
Arlington, OR 97812  
  
503-454-2030

TRUCK # 934  
  
CHASSIS # 707291

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**  
Ryan Long  
(PRINT)

**DRIVER NAME**  
Ryan Long  
(SIGN)      12-17-24  
DATE



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893455

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/09/2025 Vehicle# 483725 Volume  
 Payment Type Credit Account Container 483725  
 Manual Ticket# 1165889 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101980 lb*
In	01/08/2025 12:27:05	MANUAL WT	jaday		Tare	59860 lb*
Out	01/09/2025 12:27:05		jaday		Net	42120 lb
			* Manual Weight		Tons	21.06

Comments 15 Mins SB Live Load

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.06	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.25	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma

WASTE PROFILE: 1441490R

Address: 1851 TAYLOR WAY

Tacoma WA, 98421

Contact: Matt Cottingham

CONTAINER #: 483725

Contact Phone#: 253-905-1806

<b>TIME:</b>	
SHIPPER IN: <u>11:45</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>12:30</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 937  
CHASSIS # 708061

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

MARCO MITCHELL  
(PRINT) WPL 425 PC 2333

**DRIVER NAME**

[Signature] 1-6-24  
(SIGN) DATE

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Reprint  
 Ticket# 893456

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/09/2025 Vehicle# 483940 Volume  
 Payment Type Credit Account Container 483940  
 Manual Ticket# 1165890 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101920 lb*
In	01/08/2025 12:30:00	MANUAL WT	jaday		Tare	59420 lb*
Out	01/09/2025 12:30:00		jaday		Net	42500 lb
			* Manual Weight		Tons	21.25

Comments Live Load

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.25	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN

## BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman mill

WASTE PROFILE: 144149 OR

Address: 1851 Taylor Wy  
Tolema, WA

Contact: \_\_\_\_\_

CONTAINER #: 483940

Contact Phone#: \_\_\_\_\_

<b>TIME:</b>	
SHIPPER IN <u>10</u> (00)(15)(30)(45)(PM)	SHIPPER OUT: <u>11</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 938

CHASSIS # 708060

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Lane Rensker  
(PRINT)

**DRIVER NAME**

[Signature] 1-6-25  
(SIGN) DATE

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Reprint  
 Ticket# 893591

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/10/2025 Vehicle# 483415 Volume  
 Payment Type Credit Account Container 483415  
 Manual Ticket# 1166016 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	112460 lb*
In	01/09/2025 11:55:14	MANUAL WT	CWALSH3		Tare	59420 lb*
Out	01/10/2025 11:55:14		CWALSH3		Net	53040 lb
			* Manual Weight		Tons	26.52

Comments SWAP

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	26.52	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Pickman mill

WASTE PROFILE: 194149OR

Address: 1851 Taylor way  
Tacoma

Contact: Andy

CONTAINER #: 483415

Contact Phone#: 253 267 4818

<u>0615</u>	<b>TIME:</b> <u>0645</u>	
SHIPPER IN: ____ (00)(15)(30)(45)(AM)(PM) SHIPPER OUT: ____ (00)(15)(30)(45)(AM)(PM)		

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD



**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 945

CHASSIS # 202

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Jon Reichenbuhler  
(PRINT)

DRIVER NAME

Jon Reichenbuhler  
(SIGN) DATE

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Reprint  
 Ticket# 893592

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/10/2025 Vehicle# 483815 Volume  
 Payment Type Credit Account Container 483815  
 Manual Ticket# 1166017 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	101860 lb*
In	01/09/2025 11:56:48	MANUAL WT	CWALSH3		Tare	59260 lb*
Out	01/10/2025 11:56:48		CWALSH3		Net	42600 lb
			* Manual Weight		Tons	21.30

Comments SWAP 15 MIN SB

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.30	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.25	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orion Marine

WASTE PROFILE: 144149OR

Address: 1851 Taylor Way

Tacoma WA

Contact: John Anderson

CONTAINER #: 443815

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN: <u>6</u> (00)(15)(30)(45)AM(PM)	SHIPPER OUT: <u>7</u> (00)(15)(30)(45)AM(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 934

CHASSIS # 707394

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 1-8-24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893593

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 480  
 Ticket Date 01/10/2025 Vehicle# 480631 Volume  
 Payment Type Credit Account Container 480631  
 Manual Ticket# 1166015 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	99060 lb*
In	01/09/2025 11:58:39	MANUAL WT	CWALSH3		Tare	49540 lb*
Out	01/10/2025 11:58:39		CWALSH3		Net	49520 lb
			* Manual Weight		Tons	24.76

Comments LIVE LOAD 15 MIN SB

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	24.76	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.25	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orion Marine WASTE PROFILE: 14414902

Address: 1851 Taylor Way

Tacoma WA

Contact: John Anderson

CONTAINER #: 480631

Contact Phone#:

<b>TIME:</b>	
SHIPPER IN: <u>10</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>11</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**

Union Pacific Intermodal  
Facility ARGO Yard

402 South Dawson  
Seattle WA 98108

206-764-1541

**Transporter Name:**

Cowden Brothers  
Trucking, LLC

3880 Hannegan Rd  
Bellingham, WA 98226

425-220-9154

**Disposal Facility:**

Columbia Ridge Landfill

18177 Cedar Springs Lane  
Arlington, OR 97812

503-454-2030

TRUCK # 934

CHASSIS # 708061

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKE
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKE
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 1-7-24  
(SIGN) DATE

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[www.cowdeninc.com](http://www.cowdeninc.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893601

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/03/2025 Vehicle# 484292 Volume  
 Payment Type Credit Account Container 484292  
 Manual Ticket# 1165436 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	89100 lb*
In	01/01/2025 13:35:55	MANUAL WT	cwalsh3		Tare	57440 lb*
Out	01/03/2025 13:35:55		cwalsh3		Net	31660 lb
			* Manual Weight		Tons	15.83

Comments deliveryt REPLACEMENT TICKET FOR TICKET Nbr 892881 SB 1.5 HOURS

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	15.83	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 DEL U SPW-DELIVERY	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill

WASTE PROFILE: 1441490K

Address: 1851 Taylor Way

TAGMA, WA

Contact: \_\_\_\_\_

CONTAINER #: 484292

Contact Phone#: \_\_\_\_\_

<b>TIME:</b>	
SHIPPER IN: <u>7</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>9</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

Deliver To:	Transporter Name:	Disposal Facility:
Union Pacific Intermodal Facility ARGO Yard	Cowden Brothers Trucking, LLC	Columbia Ridge Landfill
402 South Dawson Seattle WA 98108	3880 Hannegan Rd Bellingham, WA 98226	18177 Cedar Springs Lane Arlington, OR 97812
206-764-1541	425-220-9154	503-454-2030

**CONTAINER INSPECTION**

TRUCK # 940

CHASSIS # 122

- DOOR LATCHES BROKEN
- DOOR LATCHES WILL NOT LATCH
- DOOR SEALS LEAK
- GARBAGE INSIDE CONTAINER
- MISSING CRANK HANDLE
- MISSING ROPES
- MISSING/BROKEN BUNGE CORDS
- ONE  TWO  THREE  FOUR
- RAMP IS DAMAGED
- TARP BAR, RIGHT SIDE  BENT  BROKEN
- TARP RIGHT SIDE MISSING CLAMP
- TARP HOLDING RODS  BENT  BROKEN
- TARP IS TORN
- TARP ROLL BAR  BENT  BROKEN
- TARP STRAPS  BENT  MISSING

**DRIVER NAME**

Jeremy Stracki  
(PRINT)

**DRIVER NAME**

[Signature] 12-31-21  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893602

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 01/07/2025 Vehicle# 483188 Volume  
 Payment Type Credit Account Container 483188  
 Manual Ticket# 1165730 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98340 lb*
In	01/06/2025 09:29:10	MANUAL WT	jaday		Tare	58380 lb*
Out	01/07/2025 09:29:10		jaday		Net	39960 lb
			* Manual Weight		Tons	19.98
Comments	1 Hour 30 mins SB Delivery 12/11 REPLACEMENT TICKET FOR TICKET Nbr 893043					

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	19.98	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 DEL U SPW-DELIVERY	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma  
Address: 1851 Taylor Way

WASTE PROFILE: 144149OR

Contact: Matt

CONTAINER #: 483188

Contact Phone#: 253-905-1806

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD <input type="checkbox"/>
SHIPPER IN: <u>8</u> (00)(15)(30)(45)AM(PM)	SHIPPER OUT: <u>10</u> (00)(15)(30)(45)AM(XPM)	

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 939

**CONTAINER INSPECTION**

CHASSIS # 873

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

DAVID FLORES

(PRINT)

**DRIVER NAME**

[Signature] 1/3

(SIGN)

DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 893733

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/03/2025 Vehicle# 484076 Volume  
 Payment Type Credit Account Container 484076  
 Manual Ticket# 1165434 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	93820 lb*
In	01/02/2025 13:38:41	MANUAL WT	cwalsh3		Tare	57240 lb*
Out	01/03/2025 13:38:41		cwalsh3		Net	36580 lb
			* Manual Weight		Tons	18.29

Comments 30 min sb REPLACEMENT TICKET FOR TICKET Nbr 892882

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.29	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.50	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill/Orion Marine WASTE PROFILE: 1441490R

Address: 1851 Taylor Way  
Tacoma WA

Contact: John Anderson

CONTAINER #: 484076

Contact Phone#: 253-267-4818

TIME:	
SHIPPER IN <u>9</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT <u>10</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 934

CHASSIS # 707291

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Ryan Long  
(PRINT)

**DRIVER NAME**

Ryan Long 12-31-24  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 894003

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/16/2025 Vehicle# 484033 Volume  
 Payment Type Credit Account Container 484033  
 Manual Ticket# 1166229 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	94480 lb*
In	01/11/2025 10:03:55	MANUAL WT	cwalsh3		Tare	57980 lb*
Out	01/16/2025 10:03:55		cwalsh3		Net	36500 lb
			* Manual Weight		Tons	18.25

Comments LIVE LOAD 1.5 HR SB

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.25	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	1.50	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma,

WASTE PROFILE: 1441490R

Address: 1851 Taylor Way,  
Tacoma, WA.

Contact: Matt

CONTAINER #: 484033

Contact Phone#: 253-905-1806

<b>TIME:</b>	
SHIPPER IN: <u>9</u> (00)(15)(30)(45)(AM)(PM) <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	SHIPPER OUT: <u>11</u> (00)(15)(30)(45)(AM)(PM) <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**

Union Pacific Intermodal  
Facility ARG0 Yard

402 South Dawson  
Seattle WA 98108

206-764-1541

**Transporter Name:**

Cowden Brothers  
Trucking, LLC

3880 Hannegan Rd  
Bellingham, WA 98226

425-220-9154

**Disposal Facility:**

Columbia Ridge Landfill

18177 Cedar Springs Lane  
Arlington, OR 97812

503-454-2030

TRUCK # 936

CHASSIS # 707290

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Harpreet Singh Brar  
(PRINT)

**DRIVER NAME**

Harpreet Singh 01/09/25  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 894004

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/16/2025 Vehicle# 484062 Volume  
 Payment Type Credit Account Container 484062  
 Manual Ticket# Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	99800 lb*
In	01/13/2025 10:06:38	MANUAL WT	cwalsh3		Tare	53700 lb*
Out	01/16/2025 10:06:38		cwalsh3		Net	46100 lb
			* Manual Weight		Tons	23.05

Comments LIVE LOAD 30 MIN SB

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	23.05	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				
7 SB HRLY SPW-STANDB	100	0.50	Each				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman mill  
 Address: 1851 Taylor Way  
Tacoma WA

WASTE PROFILE: 1991490R

Contact: \_\_\_\_\_

CONTAINER #: 484062

Contact Phone#: \_\_\_\_\_

<u>0945</u>	<b>TIME:</b> <u>1045</u>	
SHIPPER IN _____ (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT _____ (00)(15)(30)(45)(AM)(PM)	

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD

**Deliver To:**  
 Union Pacific Intermodal  
 Facility ARGO Yard

**Transporter Name:**  
 Cowden Brothers  
 Trucking, LLC

**Disposal Facility:**  
 Columbia Ridge Landfill

402 South Dawson  
 Seattle WA 98108

3880 Hannegan Rd  
 Bellingham, WA 98226

18177 Cedar Springs Lane  
 Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 945

**CONTAINER INSPECTION**

CHASSIS # 919

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Jon Rothenbuhler

(PRINT)

**DRIVER NAME**

[Signature]

(SIGN)

DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 894022

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/16/2025 Vehicle# 484264 Volume  
 Payment Type Credit Account Container 484264  
 Manual Ticket# 1166439 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	99920 lb*
In	01/14/2025 12:52:14	MANUAL WT	cwalsh3		Tare	56300 lb*
Out	01/16/2025 12:52:14		cwalsh3		Net	43620 lb
			* Manual Weight		Tons	21.81

Comments SWAP 15 MIN SB

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.81	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	0.25	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: PICKMAN

WASTE PROFILE: 17414902

Address: \_\_\_\_\_

Contact: \_\_\_\_\_

CONTAINER #: 484264

Contact Phone#: \_\_\_\_\_

<b>TIME:</b>	
SHIPPER IN: <u>8</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>9</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO  
UN-TARP/TARP LOAD



**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 940

CHASSIS # 708053

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

JERRY M Y SKROCKI  
(PRINT)

**DRIVER NAME**

[Signature] 01-09-24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cowdenbrothers.com](http://www.cowdenbrothers.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 895084

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 01/23/2025 Vehicle# 484288 Volume  
 Payment Type Credit Account Container 484288  
 Manual Ticket# 1164415 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	98480 lb*
In	12/18/2024 09:20:12	MANUAL WT	jaday		Tare	56740 lb*
Out	01/23/2025 09:20:12		jaday		Net	41740 lb
			* Manual Weight		Tons	20.87

Comments Swap 12/16

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	20.87	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill

WASTE PROFILE: 1441490R

Address: 1851 Taylor Hwy

Tacoma, WA

Contact: Math

CONTAINER #: 484288

Contact Phone#: 253-905-1806

<b>TIME:</b>	
SHIPPER IN: <u>7</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>7</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 936

**CONTAINER INSPECTION**

CHASSIS # 708057

- DOOR LATCHES BROKEN
- DOOR LATCHES WILL NOT LATCH
- DOOR SEALS LEAK
- GARBAGE INSIDE CONTAINER
- MISSING CRANK HANDLE
- MISSING ROPES
- MISSING/BROKEN BUNGE CORDS
- ONE  TWO  THREE  FOUR
- RAMP IS DAMAGED
- TARP BAR, RIGHT SIDE  BENT  BROKEN
- TARP RIGHT SIDE MISSING CLAMP
- TARP HOLDING RODS  BENT  BROKEN
- TARP IS TORN
- TARP ROLL BAR  BENT  BROKEN
- TARP STRAPS  BENT  MISSING

**DRIVER NAME**

HARPREET SINGH  
(PRINT)

BRAR

**DRIVER NAME**

Harpreet Singh 12/17/24  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cowdeninc.com](http://www.cowdeninc.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896199

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 02/01/2025 Vehicle# 483052 Volume  
 Payment Type Credit Account Container 483052  
 Manual Ticket# 1167865 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	88040 lb*
In	01/30/2025 11:47:03	MANUAL WT	jaday		Tare	58240 lb*
Out	02/01/2025 11:47:03		jaday		Net	29800 lb
			* Manual Weight		Tons	14.90

Comments Swap 1/28

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	14.90	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

938

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill

WASTE PROFILE: 1441490R

Address: \_\_\_\_\_

Contact: \_\_\_\_\_

CONTAINER #: 483052

Contact Phone#: \_\_\_\_\_

<b>TIME:</b>	
SHIPPER IN <u>07</u> (00)(15)(30)(45)(PM)	SHIPPER OUT <u>08</u> (00)(15)(30)(45)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

<b>Deliver To:</b> Union Pacific Intermodal Facility ARGO Yard  402 South Dawson Seattle WA 98108  206-764-1541	<b>Transporter Name:</b> Cowden Brothers Trucking, LLC  3880 Hannegan Rd Bellingham, WA 98226  425-220-9154	<b>Disposal Facility:</b> Columbia Ridge Landfill  18177 Cedar Springs Lane Arlington, OR 97812  503-454-2030
--	--	---

TRUCK # 938

CHASSIS # 606

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Lane Renskers  
(PRINT)

**DRIVER NAME**

[Signature] 1-29-25  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896200

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 02/01/2025 Vehicle# 483832 Volume  
 Payment Type Credit Account Container 483832  
 Manual Ticket# 1167866 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	79260 lb*
In	01/30/2025 11:48:54	MANUAL WT	jaday		Tare	57280 lb*
Out	02/01/2025 11:48:54		jaday		Net	21980 lb
			* Manual Weight		Tons	10.99

Comments Swap 1/28

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	10.99	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN

## BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: DICKMAN MILL TACOMA  
 Address: 1851 TAYLOR WAY

WASTE PROFILE: 144149 OR

Contact:

CONTAINER #: 483832

Contact Phone#:

TIME:	
SHIPPER IN <u>10</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT <u>10</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
 Union Pacific Intermodal  
 Facility ARGO Yard

**Transporter Name:**  
 Cowden Brothers  
 Trucking, LLC

**Disposal Facility:**  
 Columbia Ridge Landfill

402 South Dawson  
 Seattle WA 98108

3880 Hannegan Rd  
 Bellingham, WA 98226

18177 Cedar Springs Lane  
 Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 939

CHASSIS # 708064

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

DAVID FLORES

(PRINT)

**DRIVER NAME**

[Signature]

(SIGN)

1/29

DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896201

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 02/02/2025 Vehicle# 484262 Volume  
 Payment Type Credit Account Container 484262  
 Manual Ticket# 1167989 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	89840 lb*
In	01/30/2025 11:50:48	MANUAL WT	jaday		Tare	56120 lb*
Out	02/02/2025 11:50:48		jaday		Net	33720 lb
			* Manual Weight		Tons	16.86

Comments Swap 1/29

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	16.86	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mills

WASTE PROFILE: 144149 OR

Address:

Tacoma, WA

Contact:

CONTAINER #: 484262

Contact Phone#:

<b>TIME:</b>	
SHIPPER IN <u>09</u> ( <del>00</del> ) ( <del>15</del> ) ( <del>30</del> ) ( <del>45</del> ) ( <del>AM</del> ) ( <del>PM</del> )	SHIPPER OUT <u>09</u> ( <del>00</del> ) ( <del>15</del> ) ( <del>30</del> ) ( <del>45</del> ) ( <del>AM</del> ) ( <del>PM</del> )

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 938

CHASSIS # 708065

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Lane Renskers  
(PRINT)

**DRIVER NAME**

Aure 1-30-25  
(SIGN) DATE

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896312

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 02/03/2025 Vehicle# 483033 Volume  
 Payment Type Credit Account Container 483033  
 Manual Ticket# 1168107 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	80500 lb*
In	02/01/2025 09:16:00	MANUAL WT	jaday		Tare	57980 lb*
Out	02/03/2025 09:16:00		jaday		Net	22520 lb
			* Manual Weight		Tons	11.26

Comments Live Load

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	11.26	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature



Columbia Ridge Landfill and Recycling Center  
 a subsidiary of Waste Management  
 18177 Cedar Springs Lane  
 Arlington, Oregon 97812-6512  
 (541) 454-2030

**Bill Of Lading**

Date scheduled for pickup \_\_\_\_\_

Time scheduled for pickup \_\_\_\_\_

Generator Name and Loading Address <u>DICKMAN MILL Tualuma</u> <u>1851 TAYLOR WAY</u>  Contact Person: <u>ANDY</u> Telephone Number: <u>253 209 2736</u>	Waste Profile # <u>144149 OR</u>  Waste Type <input type="checkbox"/> CDL <input type="checkbox"/> Contaminated Soil <input type="checkbox"/> Asbestos <input type="checkbox"/> Other _____
---	---

Acknowledgement of Loading:

Company Name: CBT Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Name: \_\_\_\_\_  
Generator's Authorized Representative Please Print

Deliver to: <small>Union Pacific Seattle Intermodal Facility (ARGO Yard)          402 South Dawson Street          Seattle, Washington 98108          Phone (206) 764-1541 or Night (206) 764-1438</small>	Disposal Facility: <small>Columbia Ridge Landfill and Recycling Center          18177 Cedar Springs Lane          Arlington, Oregon 97812-6512          Phone # (541) 454-2030</small>
---	---

Container Inspection Upon Pickup:

	Yes	No
Tarp in good serviceable condition	<input type="checkbox"/>	<input type="checkbox"/>
Container is in good condition	<input type="checkbox"/>	<input type="checkbox"/>
No free standing water	<input type="checkbox"/>	<input type="checkbox"/>
Container is empty and clean	<input type="checkbox"/>	<input type="checkbox"/>

Circle ONE **DROP ONLY** PICK UP ONLY SWAP WTL

Loading 10:00 AM Unloading \_\_\_\_\_

Start Time \_\_\_\_\_ Box # In \_\_\_\_\_ Liners 0 1 2 Start Time \_\_\_\_\_

End Time 10:30 AM Box # Out \_\_\_\_\_ Liners 0 1 2 End Time \_\_\_\_\_

Transporter Name: CBT Truck/Chassis # 708055

Driver Name: DAVID FLORES Driver Signature: \_\_\_\_\_  
Please Print

Remarks: 483 033



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896452

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 484 484180  
 Ticket Date 02/03/2025 Vehicle# 484279 Volume  
 Payment Type Credit Account Container 484279  
 Manual Ticket# 1168108 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	99780 lb*
In	02/01/2025 13:03:07	MANUAL WT	jaday		Tare	57140 lb*
Out	02/03/2025 13:03:07		jaday		Net	42640 lb
			* Manual Weight		Tons	21.32

Comments Live Load

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.32	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA

Driver`s Signature



**Columbia Ridge Landfill and Recycling Center**  
 a subsidiary of Waste Management  
 18177 Cedar Springs Lane  
 Arlington, Oregon 97812-6512  
 (541) 454-2030

**Bill Of Lading**

Date scheduled for pickup \_\_\_\_\_

Time scheduled for pickup \_\_\_\_\_

Generator Name and Loading Address

**DICKMAN MILL**  
**1831 TAYLOR WAY TACOMA**

Contact Person \_\_\_\_\_

Telephone Number \_\_\_\_\_

Waste Profile # **144149 OR**

Waste Type

- CDL
- Contaminated Soil
- Asbestos
- Other: \_\_\_\_\_

Acknowledgement of Loading:

Company Name: **CBT** Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Name: \_\_\_\_\_  
Generator's Authorized Representative Please Print

Deliver to:

Union Pacific Seattle Intermodal Facility (ARCO Yard)  
 402 South Main Street  
 Seattle, Washington 98108  
 Phone (206) 164-1241 or (800) 764-1438

Disposal Facility:

Columbia Ridge Landfill and Recycling Center  
 18177 Cedar Springs Lane  
 Arlington, Oregon 97812-6512  
 Phone # (541) 454-2030

Container Inspection Upon Pickup:

- |                                    | Yes                      | No                       |
|------------------------------------|--------------------------|--------------------------|
| Tarp in good serviceable condition | <input type="checkbox"/> | <input type="checkbox"/> |
| Container is in good condition     | <input type="checkbox"/> | <input type="checkbox"/> |
| No free standing water             | <input type="checkbox"/> | <input type="checkbox"/> |
| Container is empty and clean       | <input type="checkbox"/> | <input type="checkbox"/> |

Circle ONE: **DROP ONLY** PICK UP ONLY SWAP WTL

Loading

Start Time **12:15** Box # In \_\_\_\_\_ Liners 0 1 2 Start Time \_\_\_\_\_  
 End Time **2:45** Box # Out \_\_\_\_\_ Liners 0 1 2 End Time \_\_\_\_\_

Unloading

Transporter Name: **CBT** Truck Chassis # **708057**

Driver Name: **DAVID FLORES** Driver Signature: *[Signature]*

Remarks: **484279**



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896453

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 02/04/2025 Vehicle# 483582 Volume  
 Payment Type Credit Account Container 483582  
 Manual Ticket# 1168201 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	92380 lb*
In	02/03/2025 13:05:14	MANUAL WT	jaday		Tare	56020 lb*
Out	02/04/2025 13:05:14		jaday		Net	36360 lb
			* Manual Weight		Tons	18.18

Comments 30 Mins SB Swap 1/30-1/31=1

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	18.18	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				
7 SB HRLY SPW-STANDB	100	0.50	Each				

Driver`s Signature

# COWDEN BROTHERS-TRUCKING

**BILL OF LADING**

Generator/Shipper

Name: Dickman Mills

WASTE PROFILE: 144490R

Address:

Tacoma, WA

Contact:

CONTAINER #: 483582

Contact Phone#

<b>TIME:</b>	
SHIPPER IN <u>08</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT <u>09</u> (00)(15)(30)(45)(AM)(PM)

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**

Union Pacific Intermodal  
Facility ARGO Yard

402 South Dawson  
Seattle WA 98108

206-764-1541

**Transporter Name:**

Cowden Brothers  
Trucking, LLC

3880 Hannegan Rd  
Bellingham, WA 98226

425-220-9154

**Disposal Facility:**

Columbia Ridge Landfill

18177 Cedar Springs Lane  
Arlington, OR 97812

503-454-2030

TRUCK # 938

CHASSIS # 743205

**CONTAINER INSPECTION**

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Lane Renskers  
(PRINT)

**DRIVER NAME**

[Signature] 1-31-25  
(SIGN) DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

[www.cowdentrucking.com](http://www.cowdentrucking.com)



Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896454

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 02/04/2025 Vehicle# 483828 Volume  
 Payment Type Credit Account Container 483828  
 Manual Ticket# 1168202 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	114760 lb*
In	02/03/2025 13:07:19	MANUAL WT	jaday		Tare	64180 lb*
Out	02/04/2025 13:07:19		jaday		Net	50580 lb
			* Manual Weight		Tons	25.29

Comments 1 Hour SB Live Load

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	25.29	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				WA-TACOMA
3 WWM-P-Waste Water	100		%				WA-TACOMA
4 TET-WA-Customer Ex	100		%				WA-TACOMA
5 RAIL U SPW-RAIL UN	100	1	Load				WA-TACOMA
6 LOC U SPW-LOCAL TR	100	1	Load				WA-TACOMA
7 SB HRLY SPW-STANDB	100	1.00	Each				WA-TACOMA

Driver`s Signature

# COWDEN BROTHERS TRUCKING

BILL OF LADING

Generator/Shipper

Name: DICKMAN Mill Tacoma

Address: 1851 Taylor Way Tacoma WA

Contact: John Anderson

Contact Phone#: 253-267-4818

WASTE PROFILE: 1441490R

CONTAINER #: 483828

SHIPPER IN: 11 (00)(15)(30)(45)(AM)(PM) SHIPPER OUT: 12 (00)(15)(30)(45)(AM)(PM)

TIME:

DRIVER REQUIRED TO UN-TARP/TARP LOAD



Deliver To:

Union Pacific Intermodal Facility ARGO Yard

402 South Dawson Seattle WA 98108

206-764-1541

Transporter Name:

Cowden Brothers Trucking, LLC

3880 Hannegan Rd Bellingham, WA 98226

425-220-9154

Disposal Facility:

Columbia Ridge Landfill

18177 Cedar Springs Lane Arlington, OR 97812

503-454-2030

TRUCK # 932

CHASSIS # 057

### CONTAINER INSPECTION

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

DRIVER NAME

Fredy Herrera  
(PRINT) 38350

DRIVER NAME

[Signature]  
(SIGN) 1-31-25  
DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 896515

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 483  
 Ticket Date 02/04/2025 Vehicle# 483348 Volume  
 Payment Type Credit Account Container 483348  
 Manual Ticket# 1168294 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	102200 lb*
In	02/04/2025 07:38:36	MANUAL WT	jaday		Tare	60120 lb*
Out	02/04/2025 07:38:36		jaday		Net	42080 lb
			* Manual Weight		Tons	21.04

Comments Swap 1/30

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	21.04	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 RAIL U SPW-RAIL UN	100	1	Load				
6 LOC U SPW-LOCAL TR	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: DICKman Mill Tacoma

WASTE PROFILE: 144149OR

Address: 1851 Taylor way

Tacoma WA

Contact: John Anderson

CONTAINER #: 483348

Contact Phone#: 253-267-4818

<b>TIME:</b>	
SHIPPER IN: <u>7</u> (00)(15)(30)(45)AM(X)PM	SHIPPER OUT: <u>8</u> (00)(15)(30)(45)AM(X)PM

DRIVER REQUIRED TO UN-TARP/TARP LOAD

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard  
  
402 South Dawson  
Seattle WA 98108  
  
206-764-1541

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC  
  
3880 Hannegan Rd  
Bellingham, WA 98226  
  
425-220-9154

**Disposal Facility:**  
Columbia Ridge Landfill  
  
1817 Cedar Springs Lane  
Arlington, OR 97812  
  
503-454-2030

TRUCK # 932

**CONTAINER INSPECTION**

CHASSIS # 055

- DOOR LATCHES BROKEN
- DOOR LATCHES WILL NOT LATCH
- DOOR SEALS LEAK
- GARBAGE INSIDE CONTAINER
- MISSING CRANK HANDLE
- MISSING ROPES
- MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- RAMP IS DAMAGED
- TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- TARP RIGHT SIDE MISSING CLAMP
- TARP HOLDING RODS ( ) BENT ( ) BROKEN
- TARP IS TORN
- TARP ROLL BAR ( ) BENT ( ) BROKEN
- TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Fredy Herrera  
(PRINT) 3835C

**DRIVER NAME**

[Signature]  
(SIGN) 1-31-25  
DATE

3880 Hannegan Rd, Bellingham, WA 98226 • (360)592-4200

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Columbia Ridge  
 18177 Cedar Springs Lane  
 Arlington, OR, 97812  
 Ph: (541) 454-2030

Reprint  
 Ticket# 899044

Customer Name ORION MARINE CONTRACTORS 1441 Carrier 200  
 Ticket Date 02/27/2025 Vehicle# 200186 Volume  
 Payment Type Credit Account Container 200186  
 Manual Ticket# 1170067 Billing # 0003269  
 Hauling Ticket# Manifest  
 Destination UP/COW PO 1) P235 2) P235 3) P235 4) P235  
 Profile 144149OR (TREATED WOOD - WEATHERED: LF01)  
 Generator DICKMAN MILL-2423 DICKMAN MILL 2423 RUSTON WAY TACOMA

	Time	Scale	Operator	Inbound	Gross	59340 lb*
In	02/27/2025 10:17:00	MANUAL WT	CWALSH3		Tare	49540 lb*
Out	02/27/2025 10:17:00		CWALSH3		Net	9800 lb
			* Manual Weight		Tons	4.90

Comments DELIVERY 2/18

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Treated Wood-Tons-	100	4.90	Tons				WA-TACOMA
2 ENERGY-Energy Surc	100		%				
3 WWM-P-Waste Water	100		%				
4 TET-WA-Customer Ex	100		%				
5 LOC U SPW-LOCAL TR	100	1	Load				
6 DEL U SPW-DELIVERY	100	1	Load				
7 RAIL 20FT SPW-RAIL	100	1	Load				

Driver`s Signature

# COWDEN BROTHERS TRUCKING

**BILL OF LADING**

**Generator/Shipper**

Name: Dickman Mill Tacoma

WASTE PROFILE: 144149OR

Address: \_\_\_\_\_

Contact: \_\_\_\_\_

CONTAINER #: 200186

Contact Phone#: \_\_\_\_\_

<b>TIME:</b>		DRIVER REQUIRED TO UN-TARP/TARP LOAD  <input type="checkbox"/>
SHIPPER IN: <u>8</u> (00)(15)(30)(45)(AM)(PM)	SHIPPER OUT: <u>8</u> (00)(15)(30)(45)(AM)(PM)	

**Deliver To:**  
Union Pacific Intermodal  
Facility ARGO Yard

**Transporter Name:**  
Cowden Brothers  
Trucking, LLC

**Disposal Facility:**  
Columbia Ridge Landfill

402 South Dawson  
Seattle WA 98108

3880 Hannegan Rd  
Bellingham, WA 98226

18177 Cedar Springs Lane  
Arlington, OR 97812

206-764-1541

425-220-9154

503-454-2030

TRUCK # 931

**CONTAINER INSPECTION**

CHASSIS # 707287

- ( ) DOOR LATCHES BROKEN
- ( ) DOOR LATCHES WILL NOT LATCH
- ( ) DOOR SEALS LEAK
- ( ) GARBAGE INSIDE CONTAINER
- ( ) MISSING CRANK HANDLE
- ( ) MISSING ROPES
- ( ) MISSING/BROKEN BUNGE CORDS
- ( ) ONE ( ) TWO ( ) THREE ( ) FOUR
- ( ) RAMP IS DAMAGED
- ( ) TARP BAR, RIGHT SIDE ( ) BENT ( ) BROKEN
- ( ) TARP RIGHT SIDE MISSING CLAMP
- ( ) TARP HOLDING RODS ( ) BENT ( ) BROKEN
- ( ) TARP IS TORN
- ( ) TARP ROLL BAR ( ) BENT ( ) BROKEN
- ( ) TARP STRAPS ( ) BENT ( ) MISSING

**DRIVER NAME**

Chris Reeves  
(PRINT)

**DRIVER NAME**

Chris 2-25-25  
(SIGN) DATE

WDL169N

3880 Hannegan Rd, Bellingham, WA 98226 + (360)592-4200

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Coordinates for Pile Cut 2' Below Mudline	
Date	Decimal Coordinates
26-Dec	-122.46935824, 47.27793931
	-122.46964408, 47.27795922
	-122.46954546, 47.27783158
	-122.46966287, 47.27772793
	-122.46960975, 47.27776401
	-122.46962695, 47.27774516
30-Dec	-122.47039207, 47.27784772
	-122.47039338, 47.27785493
	-122.47038675, 47.2778531
	-122.47054277, 47.27789995
	-122.47052188, 47.327789726
	-122.47054457, 47.27787641
	-122.47051482, 47.27787078
	-122.47053617, 47.2778847
	-122.47048915, 47.27787848
	-122.47047359, 47.27787293
	-122.47044856, 47.27787256
	-122.47044948, 47.27788239
	-122.47044844, 47.27786061
	-122.47048187, 47.2778743
	-122.47045892, 47.27789583
	-122.47043357, 47.2778902
	-122.47045844, 47.027790023
	-122.40751388, 47.27791975
	-122.4705784, 47.27790132
	-122.47060206, 47.27801865
	-122.4705784, 47.27802247
	-122.47056521, 47.27801599
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	-122.47057944, 47.27808952
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-122.47058562, 47.2780056	
-122.47058579, 47.27799594	
-122.47061999, 47.2780291	
-122.47059326, 47.27799642	
31-Dec	-122.47040775, 47.27819791
	-122.47087177, 47.27824361
	-122.47083919, 47.27824521
	-122.47085982, 47.27821984
	-122.47081074, 47.27824747
	-122.47082863, 47.27827914
	-122.47083782, 47.2782737
	-122.47088172, 47.2781159
	-122.47088172, 47.27824384
-122.47087246, 47.27824245	

Count of Pile
379

\*This includes  
Addendum #1 Pile

2-Jan	-122.47093992, 47.27821286
	-122.47091273, 47.2782111
	-122.47093711, 47.27821329
	-122.47090464, 47.27818708
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	-122.47088229, 47.27821392
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	-122.47095766, 47.27823173
	-122.47095332, 47.27821685
	-122.4709386, 47.27824933
	-122.47092523, 47.27817614
	-122.47089447, 47.27818892
	-122.47087097, 47.27820188
	-122.47087024, 47.27817107
	-122.4708738, 47.27818154
	-122.47091962, 47.27816727
	-122.47084749, 47.27821885
	-122.47090119, 47.2782029
	-122.47091289, 47.27820679
	-122.47084311, 47.2781983
	-122.4708952, 47.2781973
	-122.47088405, 47.27820602
	-122.47087844, 47.27816843
3-Jan	-122.47087643, 47.27810388
	-122.47086172, 47.27810257
	-122.470837347, 47.27809351
	-122.4708531, 47.27809468
	-122.4708769, 47.27809137
	-122.47085189, 47.27808724
	-122.47087742, 47.27808245
	-122.4708602, 47.27807871
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6-Jan	-122.47089486, 47.27801529
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8-Jan	-122.47111991, 47.27841211
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9-Jan	-122.47120321, 47.2782519
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10-Jan	-122.47129863, 47.27811675
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13-Jan	-122.47123411, 47.27875298
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14-Jan	-122.47143999, 47.27862461
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	-122.47162396, 47.27855563
15-Jan	-122.47158317, 47.27872326
	-122.47171966, 47.27876383
	-122.47171695, 47.27874704
	-122.471737, 47.27877396
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16-Jan	-122.47334, 47.27855
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	-122.47179138, 47.27877981
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17-Jan	-122.47190512, 47.27892624
	-122.47172538, 47.27891167
	-122.47190086, 47.2789233
	-122.47190086, 47.27890337
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	-122.47187329, 47.27889662
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21-Jan	-122.47209037, 47.27881632
	-122.47209573, 47.27885474
	-122.47210422, 47.27890472
	-122.47207351, 47.27892244
	-122.47201577, 47.27894005

ADDENDUM #1 PILE

	-122.47206341, 47.27889741
	-122.47199062, 47.27888853
	-122.47200983, 47.27886736
	-122.47211161, 47.27897884
	-122.47202597, 47.2788372
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	-122.47197763, 47.27875873
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	-122.47207702, 47.27869437
	-122.47194643, 47.27876831
	-122.47202113, 47.27878226
	-122.47199936, 47.27873919
22-Jan	-122.46930859, 47.27805024
	-122.46929675, 47.27804704
	-122.46930103, 47.2780507
	-122.46971724, 47.27787743
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	-122.46963562, 47.27773212
	-122.46960636, 47.27769233
	-122.46962298, 47.27770921
23-Jan	-122.4705361, 47.27789927
	-122.47055297, 47.27787476
	-122.47050627, 47.27786848
	-122.47038779, 47.277831
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	-122.47095464, 47.27825712
24-Jan	-122.47096024, 47.27866757
	-122.47094249, 47.2786616
	-122.47094923, 47.27865531
	-122.47112445, 47.27869146
	-122.47092106, 47.27868815
	-122.47094482, 47.27868138
	-122.47125718, 47.27835202
	-122.47134221, 47.27816788
	-122.47186591, 47.27831533
	-122.47164438, 47.27832593

27-Jan	-122.47194864, 47.27841724
	-122.47206986, 47.27842159
	-122.47205394, 47.2783952
	-122.47246352, 47.27873911
	-122.47287028, 47.27837133

# Appendix F

## Water Quality Monitoring Field Forms

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# Marine Mammal Observation Sheet

Date: 11/20/2024 Observer: George Ritchotte

Project Name: Dickman Mill – Chinese Reconciliation Point and Dune Peninsula

Arrival/Departure Time: CRP: 09:34/09:53; Dune Peninsula: 10:06/11:14 Project No.: 23-08222-000

Weather: Partly sunny, light wind Contract No.: NA

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	10:48	Cloudy	Harbor seal	9	Near shore	Same animals as noted on Shawree's observation form

\* E.g., direction, distance estimate or mark on figure with sighting number



## Marine Mammal Observation Sheet

Date: 11/20/2024 Observer: Shawree Zhang

Project Name: Dickman Mill @ Dune Peninsula

Arrival/Departure Time: 10:50 AM / 3:45 PM Project No.: 23-08222-000

Weather: Partly cloudy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	11:40	Cloudy	California sea lion	4	Near shore	Swimming east
2	Morning to afternoon	Cloudy	Harbor seal	8-9	Near shore	Resting and swimming around rocks throughout the day

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/20/2024 Observer: Tina Mirabile

Project Name: Dickman Mill – Brown’s Point Lighthouse Park

Arrival/Departure Time: 10:00/15:45 Project No.: 23-08222-000

Weather: Calm in morning; wind picked up in afternoon; cloudy Contract No.: NA

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	10:00	Calm, cloudy	Harbor seal	1	NE of lighthouse	
2	12:00	Windy, cloudy	California sea lion	4	South to north of lighthouse	Swimming, barking, feeding
3	12:38	Windy, cloudy	California sea lion	4	South of lighthouse	
4	15:00	Windy, cloudy	California sea lion	4	North of lighthouse	Sea lions hang around Brown’s Point until 15:00
						Contractor was pulling piles, not vibing when marine mammals were present. No whales observed all day

\* E.g., direction, distance estimate or mark on figure with sighting number



# Marine Mammal Observation Sheet

Date: 11/21/2024 Observer: Shawree Zhang

Project Name: Dickman Mill @ Chinese Reconciliation Park (CRP) and Dune Peninsula (DP)

Arrival/Departure Time: 7:00 AM @ CRP | 7:20 AM @ DP / 4:00 PM Project No.: 23-08222-000

Weather: Partly cloudy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:15	Cloudy	Harbor seal	2	CRP, near shore	Swimming
2	8:00	Cloudy	Harbor seal	1	DP near shore	Resting on rocks
3	9:30	Cloudy	Harbor seal	1	Near shore	Swimming
4	10:02	Cloudy	California seal lion	1	Near shore	Swimming east
5	10:07	Cloudy	Harbor seal	2	Near shore	Resting
6	11:12	Cloudy	Harbor seal	1	~ 500 ft north	Swimming west
7	1:23	Cloudy	California seal lion	1	Near shore	Swimming west with fish in mouth during vibratory pile removal
8	1:38	Cloudy	California seal lion	2	Near shore	Swimming west during vibratory pile removal
9	2:24	Cloudy	Harbor seal	1	~ 200 ft north	Swimming west during vibratory pile removal
10	3:00 onwards	Cloudy	Harbor seal	1	Near shore	Sleeping on rocks during vibratory pile removal

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/21/24

Observer: Tina Mirabile

Project Name: Dickman Mill - Brown's point

Arrival/Departure

Time: 0700/1545

Project No.: 23-0822-000 task 2-23

Weather: Morning calm, afternoon light rain and wind

Contract No.: NA

Sighting #	Time	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:00	Calm	Harbor seal	1	Chinese Reconciliation Pt.	Floating/Pre-construction
2	8:00	Calm	Dall Porpoise	2	East of Brown's Point lighthouse	Swimming/pile pulling/no vibe
3	9:44	Calm	Harbor seal	1	Brown's	Slow swimming south adjacent to shoreline of lighthouse/pile pulling/no vibe
4	11:34 - 12:00	Calm	Harbor seal	1	South of lighthouse	Slow swimming from north to south and back south along shoreline adjacent to and past lighthouse. No vibe.
5	13:30	Light rain	Harbor seal	1	South of lighthouse	Same behavior -slow swimming as prior observations - but this time during vibe.
6	1431-14:38	Light rain	Sea lion	4	Fast swimming from south to north and then rounded east of lighthouse into bay.	Fast swimming/short dives, mostly on surface, perhaps chasing prey/ vibratory pile removal
7	1431-14:38	Light rain	Harbor seal	1	East of lighthouse	Loitering, not affected by sea lions swimming past/vibe
8	1450	Light rain	Sea lion (male)	1	Moving from south to north	Swimming, did not turn east of lighthouse into the bay/vibe
9	14:51 - 15:04	Light rain	Harbor seal	13	Moving from south to north past lighthouse and then turned into bay east of lighthouse	Swimming together in tight group / vibe
10	<u>15:08</u>	Light rain	Harbor seal	1	South of lighthouse	Hanging around, not swimming in any particular direction.
11	15:15	Light rain	Harbor seal	2	South of lighthouse.	Swimming north, joined by #10 seal recorded prior
12	15:25	Light rain and wind	Sea lion (#8) (male)	1	Returning past lighthouse to south	Swimming alone/vibe

\* E.g., direction, distance estimate or mark on figure with sighting number



# Marine Mammal Observation Sheet

Date: 11/22/2024 Observer: Shawree Zhang

Project Name: Dickman Mill @ Chinese Reconciliation Park (CRP) and Dune Peninsula (DP)

Arrival/Departure Time: 7:00 AM @ CRP | 7:30 @ DP/1:00 PM Project No.: 23-08222-000

Weather: Rainy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	8:33	Rain	Harbor seal	2-3	DP near shore	Swimming during vibratory pile removal
2	9:20	Rain	Harbor seal	1	Near shore	Resting
3	11:24	Rain	California seal lion	2	Near shore	Swimming east during vibratory pile removal
4	12:20	Partly cloudy	Harbor seal	4	Near shore	Resting

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/22/24 Observer: Tina Mirabile

Project Name: Dickman Mill –Brown’s point

Arrival/Departure Time: 7 00:13 00 Project No.: 23-0822-000 task 2-23

Weather: Variable rain, wind and sunshine Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
	7:03 - 7:15	Light Rain/low visible light		No species observed	Chinese Reconciliation Pt.	Pre-construction
1	9:00-9:15	Moderate rain	Harbor seal	1	Northwest of Brown’s Point lighthouse	Slow swimming alone/vibe
2	9:50	Windy, no rain	Harbor seal	1	East of Brown’s lighthouse	Head up/then gone/vibe
3	10:50	Sunny, light to moderate wind	Sea lion	5	South to north and then east of lighthouse	Fast swimming, lead swimmer barking/Vibe.
4	12:00	Sunny, light to moderate wind	Harbor seal	1	East of lighthouse	Head up/ back underwater/vibe

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/25/2024

Observer: George Ritchotte

Project Name: Dickman Mill

Arrival/Departure Time: Chinese Reconciliation Park: 07:30/07:46; Dune Peninsula: 07:46/16:00

Project No.: 23-08222-000

Weather: Variable clouds and rain, some sunbreaks. Light breeze, visibility: moderate to excellent

Contract No.: NA

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	07:34	Light rain, low clouds/fog; light breeze	Harbor seal	1	Chinese Reconciliation Point	Foraging
2	07:37	Same	Harbor seal	1	Chinese Reconciliation Point	Foraging
3	10:19	No rain, sun breaks	California sea lion	1	Dune Peninsula	Migrating through survey area
4	11:49	Same	California sea lion	2	Dune Peninsula	Migrating through survey area
5	15:16	Same	Harbor seal	6	Dune Peninsula	Foraging, loafing

\* E.g., direction, distance estimate or mark on figure with sighting number



# Marine Mammal Observation Sheet

Date: 11/25/2024 Observer: Shawree Zhang

Project Name: Dickman Mill @ Brown's Point Lighthouse Park

Arrival/Departure Time: 7:15 AM/3:40 PM Project No.: 23-08222-000

Weather: Cloudy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:20	Rainy	Harbor seal	1	Near shore	Swimming south
2	7:44	Rainy	California sea lion	3	Near shore	Swimming east
3	7:50	Rainy	Dall's porpoise	3-4	200-500 ft offshore	Swimming east, out of the bay
4	7:54	Rainy	California sea lion	1	Near shore	Swimming west
5	8:03	Rainy	Dall's porpoise	4	~500 ft offshore	Swimming west
6	8:09	Rainy	Harbor seal	1	Near shore	Swimming towards shore
7	8:42	Cloudy	Harbor seal	1	Near shore	Swimming west
8	10:06	Cloudy	California sea lion	1	Near shore	Swimming east
9	10:15	Cloudy	Harbor seal	1	~200 ft offshore	Swimming east
10	1:17	Cloudy	California sea lion	1	Near shore	Swimming east/Vibratory pile removal recently ended
11	3:10	Rainy	Harbor seal	1	Near shore	Swimming west

\* E.g., direction, distance estimate or mark on figure with sighting number





# Marine Mammal Observation Sheet

Date: 11/26/2024 Observer: Shawree Zhang

Project Name: Dickman Mill @ Brown's Point Lighthouse Park

Arrival/Departure Time: 7:15 AM/3:35 PM Project No.: 23-08222-000

Weather: Cloudy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	1:59	Cloudy	Dall's porpoise	2-3	~1000 ft offshore	Swimming south
2	2:02	Cloudy	Dall's porpoise	2-3	~200 ft offshore	Swimming east, headed into the bay
3	3:15	Cloudy	Dall's porpoise	1	~200 ft offshore	Swimming west

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/26/24 Observer: W. WATKINS  
 Project Name: DICKMAN MML - CHINESE RECONCILIATION PARK  
 Arrival/Departure Time: 6:50 / 7:10 Project No.: 23-08222-000 TASK 2-03  
 Weather: CLOUDY Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:05	CLOUDY	HARBOR SEAL	2	EAST 120° 250 YDS	MILLING / PRE-WORK

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/26/24 Observer: W. WATNIE  
 Project Name: DICKMAN MILL - DUNE PENINSULA  
 Arrival/Departure Time: 7:20 / Project No.: 23-08222-000 (TASK 2-03)  
 Weather: CLOUDY, LT BREEZE Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:35	CLOUDY	H. SEAL	1	10' OFF OF BANK	SLOW CRUISE / PREP WORK ACTIVITY
2	8:15	" "	" "	3	BREAKWATER COVE 20' OFF BANK	RESTING / PLAYING / ACTIVE WORK
3	10:30	" "	" "	1	300 YDS SE	MILLING / CRUISING / PULLING PILES
4	12:55	" "	" "	1	75 YDS NE	CRUISING / " "
5	3:27	" "	CALIFORNIA SEA LION	1	75 YDS OFFSHORE	CRUISING N → S / " "

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/27/2024 Observer: George Ritchotte

Project Name: Dickman Mill – Brown’s Point Lighthouse Park

Arrival/Departure Time: 07:30/13:00 Project No.: 23-08222-000

Weather: Partly sunny, light wind, visibility excellent Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	08:06	Partly cloudy	Harbor seal	1	Near shore	Migrating through survey area

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 11/27/24 Observer: W. WAINE

Project Name: DICKMAN MILL CHINESE REC PARK / DUNG PENINSULA

Arrival/Departure Time: 6:50 → 7:10 (CRD) 7:25-8:15 Project No.: Z3-OB222-000 TASK 2-03

Weather: CLOUDY / LT BREEZE <sup>↑ (DP)</sup> Contract No.: \_\_\_\_\_

CRP  
DP  
↓  
—

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	6:59	CLOUDY	H. SEAL	1	50' OFF BANK	MILLING / PRE WORK
2	7:25	" "	C. SEALION	1	" "	" " N→S " <span style="float:right">7:30</span>
3	7:45	" "	H. SEAL	1	10' OFF BANK	" " / VIBRO HAMMER
4	8:38	" " <sup>↑ BREEZE</sup>	H. SEAL	3	BREAKWATER CONIS AREA	RESTING / PILE REMOVAL <span style="float:right">8:08</span>
5	9:42	" "	C. SEALION	1	50' OFF BANK	CRUISING S→N " "
6	10:15	" "	H. SEAL	8	BREAKWATER COVE AREA	RESTING PLAYING " "

\* E.g., direction, distance estimate or mark on figure with sighting number

## Marine Mammal Observation Sheet

Date: 12/02/24

Observer: Christine Flauta

Project Name: \_\_\_\_\_

Arrival/Departure Time: 6:30 AM / 4:15 PM Project No.: \_\_\_\_\_

Weather: Overcast / Cloudy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:10	Overcast	Harbor seal	1	Brown Point	Paused
2	7:54	" "	" "	2	" "	" "
3	9:59	" "	Sea lion	1	" "	Resumed
4	10:29	" "	Harbor seal	1	" "	Crab shell not full
5	10:55	" "	Sea lion	4	" "	" "
6	10:55	" "	Harbor seal	1	" "	" "
7	11:33	" "	Harbor seal	1	" "	" "
8	11:36	" "	Sea lion	2	" "	Hammer
9	13:35	" "	Harbor porpoise	2	" "	Paused
10	13:56	" "	Harbor seal	1	" "	Hammer
11	14:26	" "	" "	3	" "	Paused
12	11:40	" "	" "	2	" "	" "
13	15:12	" "	" "	1	" "	" "



# Marine Mammal Observation Sheet

Date: Dec 2, 2024

Observer: M. Coleman

Project Name: Dickman Mill

Arrival/Departure Time: 9am. - 4:30pm.

Project No.: 23-08222-000

Weather: Foggy

Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
	9:10 AM.	Foggy	CA. Sea Lions	3	Dunes Pt.	swam together & headed to Ferry area. <i>blonde ones, too!</i>
	9:24	Foggy	Harbor seals	2	"	swam back into to Ferry area & back again.
	10:47	Foggy	Harbor seal	1	"	swimming alone out further towards Vashon Island.
	all day	Xtra Foggy	Wlk. birds	≈ 20	"	eating, swimming & diving in area <i>4 seals.</i>
	all day	Foggy	Sea Gulls	4	"	just a few, but didn't stay around.
	all day	Grey	wooden logs	3	"	floats by
	9:45	Grey	buoy	1	"	was at Vashon & moved left around the bend across the bay.
	1pm. - 4:30p	grey	Harbor seals	10+	"	hanging out in one area together resting & eating.

# Marine Mammal Observation Sheet

Date: 12/03/2024 Observer: George Ritchotte

Project Name: Dickman Mill – Brown’s Point site

Arrival/Departure Time: 07:44/11:22 (Regina Lionheart took over at 11:22) Project No.: 23-08222-000

Weather: Cold, light wind, some fog. Visibility OK Contract No.: NA

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	10:55	Sun breaks, improved visibility	California sea lion	1	10 m from shore	Swimming N to S past beach

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: December 3, 2024 Observer: Regina Lionheart

Project Name: Dickman Mill Pile Removal

Arrival/Departure Time: 11:15 – 3:30 Project No.: 23-08222-000

Weather: Partially sunny, mostly overcast, calm, cold Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	11:50	Glassy water, overcast	Harbor seal	1	Browns Point, 30 feet offshore	Head surfacing, nice toss and catch of a fish. Submerged shortly afterwards.
2	12:54	Glassy water, overcast	Harbor porpoise	1	Browns Point, 300 feet west of lighthouse	Fin showed a few times as it came up for air, then submerged again.
3	12:58	Glassy water, overcast	Harbor seal	1	Browns Point, 15 feet offshore from lighthouse	Swimming parallel to shore for about 30 feet, checking out the shoreline. Submerged after a few minutes.
4	13:19	Glassy water, overcast	Habor porpoise, Harbor seal	1 of each species	Browns Point, 500 feet offshore from lighthouse	Coming up for air a handful of times then quickly submerging again.

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/03/24

Observer: Tina Mirabile

Project Name: Dickman Mill –Dune Peninsula Park at Point Defiance

Arrival/Departure Time: 7 10:15:17

Project No.: 23-0822-000 task 2-23

task Weather: Morning low clouds and light wind, clearing in afternoon to partly sunny with high clouds and calm conditions

Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:13	Calm, low light, can't see Vashon shoreline clearly	Sea lion	2	Chinese Reconciliation Pt.	Pre-construction, diving and swimming north
2	7:13		Harbor seal	3		Pre-construction, 2 swimming towards Port, 1 seal just staying nearby
3	7:40		Harbor seal	3	North of dune point	Swimming/ dead pile pulling - no vibe
4	8:39-9:34+	Breeze picking up, low clouds but visibility clear to north and west	Harbor seal	6	North of point	Heads up, rolling on backs, sitting on rocks exposed during outgoing tide, all seals are hanging together/dead pile pulling - no vibe
5	10:37-11:32	Partly cloudy,	Harbor seal	7	North of point along exposed rocks at low tide	Same 6 seals plus one more. No change in behavior during vibratory hammer use.
6	13:11-15:17	Partly cloudy, good visibility	Harbor seal	8		Same 7 seals, plus one more = 8 in total. 3 seals remain hauled out on rocks. Others swimming or lolling around but none are leaving the area yet as tide is starting to come in and cover previously exposed rocks along shore. Dead pile pulling / no vibe

\* E.g., direction, distance estimate or mark on figure with sighting number



## Marine Mammal Observation Sheet

Date: Dec. 4, 2024 Observer: M. Coleman

Project Name: Pickman Mill

Arrival/Departure Time: 7am - 3:30p. Project No.: 23-08000-000

Weather: extra foggy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
	8:35am.	extra foggy	Harbor Seal	1	Brownes Pt.	Swam into bay & swam back again.
	all day	extra foggy	logs	7	"	floated by
	all day	foggy	blk. birds	10	"	swam around & etc. Not as many here
	9:55am.	foggy	trash pile	1	"	
	10am.	Grey	Harbor Seal	1	"	Swam into bay around cemer hung out for bit then left
	2p-3p.	foggy	Human	1	"	Person riding electric surf board. <span style="float: right;">to Part. area.</span>
	10:55am	Grey	Harbor seals	2	"	Swam @ shoreline then headed to Part.
	1pm - 1:50pm 2pm - 2:30pm	Grey	large vessels	2	"	Heading to Part
	all day	Grey	sea gulls	9	"	Don't really stay long

# Marine Mammal Observation Sheet

Date: 12/04/24 Observer: Tina Mirabile

Project Name: Dickman Mill –Dune Peninsula Park at Point Defiance, Tacoma, WA

Arrival/Departure Time: 7:06 -15:22 Project No.: 23-0822-000 task 2-23

task Weather: Low clouds, light wind Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:10	Calm, clear,	Harbor seal	1	Chinese Reconciliation Park	Pre-construction, head popped up.
2	7:20	Low fog moving over water which slight breeze	Harbor seal	2		Pre-construction, swimming east
3	7:41+	Clear, slight ripple on water	Harbor seal	3	North of Dune point	Pre-construction . seals have their heads up, swimming in direct vicinity of submerged row of rocks just offshore from the point.
4	10:11+	Cloudy, calm, fog on far horizon to east where port facilities are.	Harbor seal	8	North of point	Gained 5 more seals from prior 3. Heads up in water or sitting on exposed rocks as tide recedes. Hanging together/ 1 seal chased prey to shore but turned around back to rocks/no vibe.
5	11:41+	Low cloud/ fog at water line to far east at Port facilities. Otherwise clear visibility of water to west and north of point. Calm.	Harbor seal	12	North of point along exposed rocks at low tide	Gained 4 more seals in the rock area. 10 seals are hauled out on rocks. Two are in water but not swimming around. Clam shell then direct pile pulling/no vibe.
6	12:10 - 12:45	Calm, low fog clearing to east at Port facilities. Clear water views to west.	Sea lion	1	North of point	Passed east and west of point two times Swam off to west. Diving, feeding/no vibe.
7	12:15	Same as above	Harbor seal	1	East of point	Seal head up. Sea lion swam by, but the seal did not seem to be disturbed/no vibe

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
8	14:06-14:42	Wind picked up from east, low fog remains on east shoreline horizon where Port facilities are present. Good visibility to worksite crane and good to north and west of point.	Sea lion	2	Northeast of point	Swimming together in a circle than swam off to west/ no vibe
9	14:06-15:22	Same as above	Harbor seal	12	North of point	9 seals remain hauled out on rocks, 3 in water/no vibe.
No whale observations for the day: 12/4/2024						

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/5/2024

Observer: MAKIE MATSUMOTO-HORNUL

Project Name: DICK MILLS

Arrival/Departure Time: 7:00AM @ SITE, 15:10 DEPART

Project No.: 23-08222-000

Weather: CLEAR, SUNNY

Contract No.: WA 2.02

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:00	CLEAR	SEALION	1	CR PARK	TRAVELING 67°E, 15FT SHORE
2	7:35	CLEAR/SUN	SEALS	5	DUNEPT	SUNNING 47°NE - <del>THEIR</del> ALL DAY UNTIL 14:35
3	<del>12:20</del>	CLEAR/SUN	SEALION	1	DUNEPT	TRAVELING 35°NE, 25FT SHORE

15FT SHORE

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/5/24 Observer: W. WATNE

Project Name: DICKMAN MILL | BROWN PT LIGHTHOUSE

Arrival/Departure Time: 7:00 AM - 3:00 PM Project No.: 23-08222-TASK 2-03

Weather: SUNNY | COLD 38°F LT BREEZE Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:35	SUNNY   COLD	H. SEAL	1	N 343° 100 YD	CRUISING
2	8:41	" "	C. SEA LION	4	NW 300° 100 YD	CRUISING
3	8:55	" "	H. SEAL	1	S 121° 50 FT	CRUISING
4	10:48	" "	" "	1	W 290° 200 YD	" "
5	12:28	LT CLOUDS	" "	1	SW 235° 200 YD	" "
6	1:15	" "	" "	1	W 270° 300 YD	" "
7	2:31	PTLY SUNNY	" "	1	W 292° 50 FT	" "

\* E.g., direction, distance estimate or mark on figure with sighting number

NOTE: AS FOR JASON I @ ORION, They used clamshell & pulled pilings w/a USE OF HAMMER

## Marine Mammal Observation Sheet

Date: 12/6/2024 Observer: MAKIE MATSUMOTO-HERRERA  
 Project Name: DICK MILLS  
 Arrival/Departure Time: 7:00AM @ SITE, 14:35 DEPART Project No.: 23-08222-000  
 Weather: CLEAR THEN CLOUDY Contract No.: WQ 2.02

STAYED UNTIL SURVEY END  
 [Signature]

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:00	CLEAR/ <del>SEA</del>	SEAUON	1	OR PARK	TRAVELING 67°E, 15FT SHORE
2	7:10	CLEAR	SEALS	3	<del>DUNE PT</del> OR PARK	TRAVELING 67°E, 35 FT SHORE
3	7:35	CLEAR/CLOUDS	SEAL	4	DUNE PT	3 SUNNING 44°NE, 15FT SHORE
4	8:00	CLEAR/CLOUDS	SEAUON	1	DUNE PT	TRAVELING 98°E, 25FT SHORE
5	11:30	CLEAR/CLOUDS	SEAUON	1	DUNE PT	TRAVELING 114°E 25FT SHORE
6	14:05	CLOUD/WIND	SEAL	5	DUNE PT	DIFF GROUP TO CAN #2 OBS - TRAVELING 98°E, 40FT SHORE

\* E.g., direction, distance estimate or mark on figure with sighting number

## Marine Mammal Observation Sheet

Date: 12/6/24 Observer: W WATNE  
 Project Name: DICKMAN MILL PILING REMOVAL - BROWN POINT  
 Arrival/Departure Time: 6:50 AM 2:45 PM Project No.: 23-08222  
 Weather: Mostly Cloudy / LT Breeze 38° Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:41	PTLY CLOUDY INCREASE BREEZE	H. SEAL	1	MILLING AROUND POINT	CASUAL MILLING AROUND
2	8:50	" "	" "	1	" "	" (LIKELY SAME SEAL)
3	12:51	PTLY CLOUDY LT BREEZE	HARBOR PORPOISE	2-3	W 240° 300 YDS	CRUISING CURRENT SEAM/TIDE LINE
4	1:15	" "	C. SEA LION	1	NW 30 YDS	CRUISING SHORELINE

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/9/24 Observer: Jessie Bynum

Project Name: DICKMAN MILL MARINE MAMMAL MONITORING

WALKED AROUND  
Western shore  
every ~20 min

Arrival/Departure Time: 7:30 @ BROWN'S PT 15:03 Project No.: \_\_\_\_\_

Weather: CLOUDY AM, CLEAR → SUNNY PM Contract No.: \_\_\_\_\_

[FOG]

47°18'20"N 122°26'39"W

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	807	39°F	HARBOR SEAL	1	<del>BROWN PT</del> BROWN PT	HAMMER IN USE / SWIMMING AROUND SHORE
2	800	39°F	CORMORANTS	3	BROWN PT NW 1/4	HAMMER IN USE / FORAGING / DIVING FOR FOOD
3	1045	43°F	HARBOR SEAL	1	SE ~5'	HAMMER NOT IN USE / SWIMMING AROUND → SURFACING
4	1200	46°F	HARBOR SEAL	1	E ~1'	SWIMMING → SURFACING NEAR SHORE
5	1320	47°F	HARBOR SEAL	1	W → E ~1'	SWAM AROUND SHORE FROM WESTERN TO EASTERN SHORE
6	1430	47°F	BABY HARBOR SEAL	1	E ~1'	BABY HARBOR SEAL SWAM UP → RESTED ON LOG THEN SWAM BACK IN WATER
7	1503	46°F	—	—	—	END OF WORK DAY
8	1520	46°F	HUMPBACK OR MINK?	2-3	E ~30-40'	WHALE SPOT, 2 DORSAL FINS, CATCHED END OF SPOT → FIN THEN SUBMERGED

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/9/24 Observer: W WATNE

Project Name: DICKMAN MILL (DUNE PENINSULA)

Arrival/Departure Time: (7:00 CRP) 7:30 (DP) | 3:30 PM Project No.: 23-08222-000 TASK 2-03

Weather: Partly Cloudy / Lt Breeze Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
<u>1</u>	<u>7:11</u>	<u>PTLY CLOUDY LT BR</u>	<u>C. SEA LION</u>	<u>1</u>	<u>100 YDS EAST DICKMAN MILL</u>	<u>CRUISING TOWARD DICKMAN MILL SETTING UP EQUIPMENT</u>
<u>2</u>	<u>8:10</u>	<u>" "</u>	<u>" "</u>	<u>1</u>	<u>25 FEET OFF BANK</u>	<u>CRUISING NW * MAY BE SAME AS SITING #1??</u>
<u>3</u>	<u>8:25</u>	<u>" "</u>	<u>H. SEAL</u>	<u>1</u>	<u>IN/AROUND BREAKWATER</u>	<u>MILLING HAMMER START 8:30</u>
<u>4</u>	<u>8:40</u>	<u>" "</u>	<u>C SEA LION</u>	<u>2</u>	<u>CRUISING BY BREAKWATER</u>	<u>CRUISING HAMMER STOP 9:24</u>
<u>5</u>	<u>10:13</u>	<u>" "</u>	<u>H PORPOISE</u>	<u>2</u>	<u>N 300 YDS</u>	<u>CRUISING/FEEDING ON CURRENT SEAM</u>
<u>6</u>	<u>10:26</u>	<u>" "</u>	<u>H seal</u>	<u>3</u>	<u>ENG 75 YDS</u>	<u>MILLING</u>
<u>7</u>	<u>" "</u>	<u>" "</u>	<u>C SEA LION</u>	<u>1</u>	<u>" "</u>	<u>CRUISING</u>
<u>8</u>	<u>12:02</u>	<u>" "</u>	<u>H seals</u>	<u>7</u>	<u>N20° 50 YDS</u>	<u>SUNNING @ SURFACE</u>
<u>9</u>	<u>12:07</u>	<u>" "</u>	<u>C SEA LION</u>	<u>1</u>	<u>CRUISING SHORE - 10 YDS</u>	<u>CRUISING</u>
<u>10</u>	<u>1:11</u>	<u>" "</u>	<u>" "</u>	<u>2</u>	<u>" "</u>	<u>CRUISING FAST INND COMM. BAY</u>
<u>11</u>	<u>1:36</u>	<u>" "</u>	<u>H. SEAL</u>	<u>1</u>	<u>E 60° 400 YDS</u>	<u>SUNNING @ SURFACE</u>

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/10/2024

Observer: Jamie Byrum

Project Name: DICKMAN MILL MARINE MAMMAL MONITORING

Arrival/Departure Time: 730 - 1510 BROWN'S PT Project No.: \_\_\_\_\_

Weather: 36° - 44° MODERATE TO HEAVY CLOUDY Contract No.: \_\_\_\_\_  
FOG, CLEARED UP AROUND 1200

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	730	36°	HARBOR SEAL	1	W → E ~ 2'	SWIMMING AROUND LIGHTHOUSE ROCKS
2	800	36°	SEA LIONS	3	E ~ 10'	SETTING UP HAMMER / SWIMMING & SURFACING TO OTHER BAY
3	800	36°	<del>SEAS</del> SCOTERS	3-4	E ~ 20'	FORAGING FOR FOOD
4	905	37°	GULLS	3-4	W ~ 20'	FIGHTING OVER FOOD / HAMMER IN USE
5	1045	40° FOG lifting	GULL CORMORANT	1,1	E ~ 15'	HAMMER STOPPED / GULL STOLE FISH FROM CORMORANT
6	1215	43°	<del>SEAS</del> SCOTERS	12	E ~ 20'	HAMMER NOT IN USE / FORAGING FOR FOOD, FLOATING ON WATER SURFACE
7	<del>1345</del> 1345	44°	HARBOR SEAL	1	W ~ 15'	HAMMER NOT IN USE / POPPED UP TO SURFACE & SUBMERGED
	1509	44°	—	—	—	END OF WORK DAY

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/10/24 Observer: W WATNE

Project Name: DICKMAN MILL - CRP/DUNE PENINSULA

Arrival/Departure Time: 6:58 CRP | DE 7:48 | 3:25 PM Project No.: 23-08222-000 TASK 2-05

Weather: HIGH FOG, LT WIND | 38° 8" chop Contract No.: \_\_\_\_\_

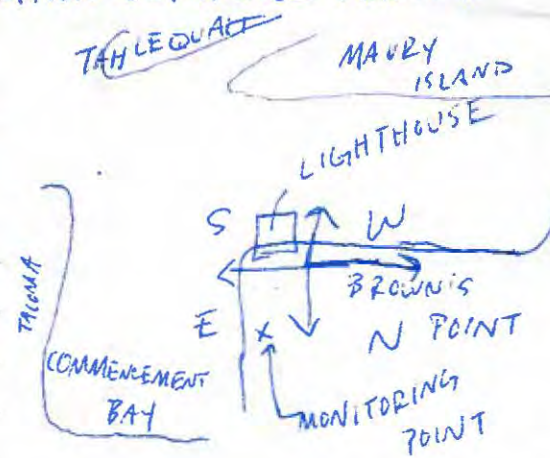
Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
CRP 1	7:15	HIGH FOG LT BREEZE	SEA LION	2	NW CRP 75 YDS	CRUISING NORTH   SETUP
2	7:28	" "	H SEAL	1	50 YDS OFF DICKMAN MILL	MILLING " "
DUNE PEN 3	8:19	VIS. DEGRADING	" "	1	INSIDE BREAKWATER	" " 8:24 HAMMER START *
4	9:11	HIGH FOG LT WIND	" "	3	OUTSIDE BREAKWATER	" " CAUSING BANK INTO COMM. BAY
5	9:49	" "	C. SEA LION	1	10 YDS OFF SHORE	" " 10:40 STOP HAMMER
6	10:48	SUNNY LT BREEZE	" "	1	" "	" " MILLING AROUND INTO CURRENT @ POINT
<del>7</del> 8	11:00 11:50	" "	" "	2 ?	FERRY LANE NEAR TACOMA	YACHT CLUB - POSSIBLE SIGHTING / NOT VERIFIED
9	12:15	" "	H. SEAL	5	BREAKWATER	MILLING/SUNNING
10	1:12	" "	H PORPOISE	2-3	NE 30° 300 YDS	CRUISE ALONG TIDE RIP
11	2:09	" "	C SEA LION	1	OUTSIDE BREAKWATER	CRUISE INTO COMMENCEMENTS BAY
12	2:41	" "	H SEAL	1	E 121° 300 YDS	MILLING
13	3:11	" "	C SEA LION	3	30 YDS N OF TACOMA YACHT	CLUB CRUISE TOWARD PT DEFIANCE

\* E.g., direction, distance estimate or mark on figure with sighting number

\* LOST VISIBILITY TO INNER BAY - STILL OK TO BROWN PT & OUTSIDE COMM. BAY 8:50

# Marine Mammal Observation Sheet

LOCATION REFERENCE DRAWING:



Date: 12/11/2024 Observer: Jaemie Bynum

Project Name: DICKMAN MILL MARINE MAMMAL MONITORING

Arrival/Departure Time: 730 - 1547 (A) BROWNS PT Project No.: \_\_\_\_\_

Weather: 37° - 48° CLOUDY W/ LIGHT FOG Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	740	37°	HARBOR SEAL	2	E ~ 1-2'	SURFACING ? SWIMMING AROUND SHORELINE
2	745	37°	SCOTERS	12	E ~ 30'	SWIMMING AROUND IN PACK ? FLOATING
3	800	37°	CORMORANTS	5-7	E ~ 20'	FLYING ACROSS EAST SIDE OF LIGHTHOUSE
4	810	37°	HARBOR PORPOISE	1	W ~ 50-100'	SWIMMING AROUND MIDDLE OF WESTERN BAY ENTRANCE → IN BAY
5	910	40°	SEA LION	1	E → W 20'	SWIMMING ? SURFACING AROUND LIGHTHOUSE ROCKS
6	1110	44°	SEAL [HARBOR] PORPOISE	1, 1	E ~ 5' E ~ 100'	HARBOR SEAL SWIMMING ? SURFACING AROUND LIGHTHOUSE ROCKS PORPOISE SWIMMING AROUND MIDDLE OF BAY
7	1210	46°	SEA LION	1	S ~ 5'	SEA LION SWIMMING AROUND ? SURFACING AROUND LIGHTHOUSE ROCKS
8	1300	48°	HARBOR PORPOISE	1	E ~ 500'	SWIMMING AROUND MIDDLE OF BAY
9	1410	48° CLEAR SUNNY	-	-	E ~ 30-40'	BOAT SPED OUT OF HARBOR, PORTION OF BOCK FROM HORN WATER WELLS ? DRIFTED INTO HARBOR; REPORTED NAVIGATIONAL HAZARD TO 911
11	11	11	-	-	11	
10	1435	48° CLEAR ? SUNNY	HARBOR SEAL	1	E ~ 50-70'	SWIMMING ? SURFACING AROUND MOUTH OF BAY / SETTING UP HAMMER
	1547	46° CLEAR ? SUNNY				END OF WORK DAY

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/11/24

Observer: W. WATNE

Project Name: DICKMAN MILL PILING REMOVAL CRP/DUNE PENINSULA

Arrival/Departure Time: (CRP) 6:55-7:40 (DP) 7:55-3:59 Project No.: 23-08222-000 TASK 2-03

Weather: CLOUDY, LT BREEZE 42° F Contract No.: \_\_\_\_\_  
WATER CALM

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:21	CLOUDY, CALM	C. SEA LION	2	OUTSIDE PIER PILINGS (N) BREAWATER	CRUISING NORTH
2	8:08	" "	H. SEAL	5		MILLING
3	8:37	" "	C. SEA LION	3	S. END OF BREAWATER	CRUISING SHORLINE INTO COMM. BAY
4	9:15	" "	H. SEAL	1	200 YDS OFF OWEN BEACH	MILLING
5	10:05	" "	H. SEAL	1	20 YDS OFF BANK	CRUISING SWITCHING BARGES
6	10:50	" "	H. SEAL	1	150 YDS N OF DUNE PENN/TACOMA BEACH HOUSE	CRUISING WEST YACHT CLUB 10:59
7	11:11	" "	C. SEA LION	2	10 YDS N OF DUNE PENN/TACOMA YACHT CLUB	CRUISING WEST
8	1:09	SUNNY, LT BREEZE	H. SEAL	1	MID CHANNEL BETWEEN JASON & DUNE PENN	MILLING
9	1:41	" "	" "	1	BETWEEN SHIPPIES BUOY NE 430	MILLING PULLING PILE 1:55
10	2:20	" "	SEA LION	1	DUE EAST 3/4 MILE	FEEDING ON SALMON
11	2:30	" "	H. SEAL	1	100 YDS NORTH PT DEFIANCE	MILLING START HAMMER
12	3:17	" "	OACA	3	100 FEET N OF DUNE PENINSULA	CRUISING WEST PAST 2:33 OWEN BEACH/PT DEFIANCE FINISHED HAMMER 3:18
13	3:31	" "	SEA LION	<del>1</del> 2	JUST N OF DUNE PENINSULA	TRAVEL WEST

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/12/2024      Observer: David Garcia  
 Project Name: Dickman Mill Piling Removal  
 Arrival/Departure Time: 7:30 am / 4:05 pm      Project No.: 23-UG222-000  
 Weather: cloudy, dry      Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:30 am	cloudy	(Steller's) Sea lion	10	Dune Penn.	Resting on rocks near shore / pulling pilings, No vibratory hammer
2	7:55 am	cloudy	Harbor seal	3	Dune Penn.	Swimming near shore / pulling pilings, No vibratory hammer
3	10:35 am	overcast	harbor seal	2	Dune Penn.	Swimming near shore / No vibratory hammer
4	2:30 pm	overcast	harbor seal	1	Dune Penn.	Swimming near shore / No hammer

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/12/24

Observer: Tina Mirabile

Project Name: Dickman Mill –Brown’s Point

Arrival/Departure Time: 7:06 -15:36

Project No.: 23-0822-000 task 2-23

Weather: Calm, light wind - smooth water surface. Drizzle rain off and on

Contract No.: \_\_\_\_\_

Sighting #	Time	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:07-7:25	Calm, clear view, no wind, light drizzle of rain		0 - no marine mammals observed.	Chinese Reconciliation Pt.	Pre-construction
2	7:57	Same as above		0 - no marine mammals present	Brown’s Point	Pre-construction
3	9:02	Same as above	Harbor seal	1	East of lighthouse	Head up, swimming/ No vibe
4	9:05	Same as above	Harbor seal	1	South of lighthouse	Head up, swimming /no vibe
5	9:35	Slight breeze has picked up	Harbor seal	2	South of lighthouse	Swimming north close to shoreline/no vibe
6	10:00-10:45	Cloudy, no rain, slight breeze, good visibility.	Sea lion male	1	North of lighthouse	Swimming from south to east of lighthouse. No change in behavior at beginning to end of vibratory hammer use.
7	12:37	Same as above	Harbor seal	1	East of lighthouse	Swimming west/no vibe
8	14:43	Light drizzle and wind. Calm surface water conditions with incoming tide	Harbor seal	1	South of lighthouse	Swimming northeast/no vibe.
13:56 End of day - no whales observed						

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/13/2024 Observer: David Garcia  
 Project Name: Dickman Mill Piling Removal  
 Arrival/Departure Time: 7:15am / 12:45 pm Project No.: 23-08222-000  
 Weather: clear upon arrival / cloudy + drizzle throughout + wed day Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:15	clear, some clouds	cr seal lion	1	Dune Penn	Resting on rocks / no hammer use
2	10:38	cloudy, light rain	harbor seal	1	Dune Penn	Swimming near shore / no hammer use

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/13/2024 Observer: Tina Mirabile

Project Name: Dickman Mill –Brown’s Point

Arrival/Departure Time: 7:15 -12:45 Project No.: 23-0822-000 task 2-23

Weather: Calm, light wind - smooth water surface. Drizzle rain off and on Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:15	Calm, cloudy, no rain	Sea lion (male)	1	Chinese Reconciliation Pt.	Swimming east from park towards harbor. Pre-construction
2	8:00	Light Rain, calm on water surface, no wind	Harbor seal	1	Brown’s Point	Northeast of lighthouse/ Pre-construction
3	10:00	Short break from rain, calm no wind.	Harbor seal	2	1 Seal Northeast of lighthouse, same seal as earlier observation 2 ( 2 <sup>nd</sup> seal) south of lighthouse.	Heads up, swimming in local vicinity/ No vibe
12:45 End of day - no whales observed						

\* E.g., direction, distance estimate or mark on figure with sighting number

## Marine Mammal Observation Sheet

Date: 12/10/24 Observer: D. Rapoza  
 Project Name: Dickman Mill  
 Arrival/Departure Time: 7:05 Project No.: 23-08222-000  
 Weather: Rainy, overcast, partly cloudy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:15	overcast	harbor seal	1	✓ 200 ft from shore	swimming towards Dash Pt.
2	8:56	partly cloudy	harbor seal	1	✓ 50 ft from shore	foraging w/in 300 yards of lighthouse on both sides
3	9:34	"	Sea lion	1	✓ 100 yds	commuting
4	10:31	"	harbor seal	2	✓ 5 <sup>00</sup> -600 yds	foraging
5	11:48	overcast	"	1	✓ 200 yards	commuting
6	12:36	"	"	1	100 yards	foraging near lighthouse
7	1:06	partly cloudy	"	1	200 ft from shore	commuting
8	1:24	overcast	"	2	100ft, 100 yds	from lighthouse
9	1:50	"	"	1	100ft from shore	commuting
10	2:31	"	"	2	"	"
11	2:31	"	Sea lion	1	"	"
12	2:57	partly cloudy	"	1	100 yards	commuting
13	3:13	"	orca	5-6	→	commuting near Mavy Island
14	3:30	"	"	"	→	Quartermaster Harbor @ Vashon

\* E.g., direction, distance estimate or mark on figure with sighting number

Stop work @ 3:20

monitored pod which went subsurface, resurfaced around 3:30 @ Quartermaster

# Marine Mammal Observation Sheet

Date: 12/16/24 Observer: Thea Foulk

Project Name: Dickman Mill Piling Removal Project

Arrival/Departure Time: 7:00 – 4:30 Project No.: 23-08222-000

Weather: Low to high 40s and sunny Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:08	41 and light rain	Sea lion	2	Chinese rec park	Swimming by
2	7:35	41 no rain	Seals	2	Dune	
3	7:50	43 and dry	Seal	1	Dune	Swimming and no construction
4	8:15	42 and dey	Sea lions	2-3	Dune	Passing by
5	8:45	43 and dry	Sea lion	1	Dune	
6	9:25	43 and sunny	Seals	7-10	Dune	Sleeping/low tide
7	11:20	46 and sunny	Seals and sea lion	7-10	Dune	Seals still sleeping, 1 sea lion swam by
8	12:15	47 and cloudy	Sea lion	1	Dune	Swimming. Started hammer approx. 12:10
9	1:05	48 and sunny	Sea lion	1	Dune	Swimming (likely same from earlier coming back the other way)
10	1:05	48 and sunny	Seal	1	Dune	Checking out a kayaker. Ended hammer work.
11	2:30	48 and sunny	seal	3	dune	A few still sleeping
13	3:00	47 and sunny	Sea lion	1	Dune	Just swimming by
14	4:25					Just a note: done with work for the day
15	4:40	46 and sunny	Orcas	3-5	Dune	Pod of transient orcas that had been making their way down from up North, pretty far away but in work zone. Work was done for the day though.

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/17/2024 at Brown's Point Observer: Rebecca Stebbing

Project Name: Dickman Mill Support

Arrival/Departure Time: 7:00 AM / 3:30 PM Project No.: 23-08222-000

Weather: Moderate to heavy rain, intermittent wind Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	0740	Rain	Seal	1	50ft south of lighthouse	Casually swimming around / Not using vibrating hammer
2	0754	↓	Seal	1	50ft north of lighthouse	Likely same seal / No hammer
3	0805		Seal	2	100ft east of lighthouse	Swimming around together / No hammer
4	0815		Seal	1	100ft north of lighthouse	Diving / No hammer
5	0837		Seal	1	150ft northwest of lighthouse	Likely same seal / No hammer
6	0845		Seal	4	150ft north of lighthouse	Swimming around together / No hammer
7	1150		Seal	1	50ft off lighthouse	Swimming, some diving / Using vibrating hammer
8	1245		Sea lion	1	50ft south of lighthouse, close to shore	Swimming by shore / Just finished using vibrating hammer
9	1505		Sea lion	1	50ft south of lighthouse, close to shore	Swimming by shore / No hammer

\* E.g., direction, distance estimate or mark on figure with sighting number



# Marine Mammal Observation Sheet

Date: 12/17/2024 Observer: Shawree Zhang

Project Name: Dickman Mill @ Chinese Reconciliation Park and Dune Peninsula

Arrival/Departure Time: 7:00 AM/3:30 PM Project No.: 23-08222-000

Weather: Raining Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:00 AM	Rainy	Seal or sea lion*	1	Nearshore, CRP	Swimming, came up for air and startled birds. *Unidentifiable species due to low visibility
2	8:34 AM	Rainy	California sea lion	1	Nearshore, DP	Swimming west
3	12:58 PM	Rainy	California sea lion	1	Nearshore, DP	Swimming west, approx. 13 minutes after vibratory pile use ended

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/18/24

Observer: Tina Mirabile

Project Name: Dickman Mill –Brown’s Point

Arrival/Departure Time: 8:00 – 14:00

Project No.: 23-08222-000 task 2-23

task Weather: Cloudy, strong wind, high tide conditions and white capping waves in the morning. Calm and clear in late afternoon.

Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	8:00	Cloudy, strong wind, white capping waves		0 - no whales or other marine mammals observed.	Brown’s Point	Pre-construction, crew delayed in boating to barge
2	10:00	Same as above		0 - no whales or marine mammals present		Direct pull/no vibe
3	12:30	Light wind, light waves, no white caps, clear conditions		0 - No whales or marine mammals present.		Direct pull/ no vibe
14:00 End of day - no whales observed / no vibe all day						

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

 Date: 12/18/24

 Observer: WAYNE WATNE

 Project Name: DICKMAN MILL - CRP | DUNE PENINSULA

 Arrival/Departure Time: 6:10-7:55 | 8:09-

 Project No.: 23-08222-TASK 02-03

 Weather: WINDY, CLOUDY, 1-3' SEAS W

Contract No.: \_\_\_\_\_

WHITECAPS - VISIBILITY TOUGH IN AREAS OF WHITECAPS

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
<del>1</del>						
1	8:36	WINDY CLOUDY	H SEAL	1		MILLING
2	8:37	" "	? SEA LION OR WHALE	1	NEAR VASHON ISLAND FERRY	FEEDING - BIRDS ALL AROUND SPLASHING OR BLOWS
3	9:19	" "	C SEALION	3	10 YDS NORTH OF DUNE PEN	CRUISING INTO C. BAY
4	9:25	" "	H SEALS	6	BREAKWATER AREA	MILLING
5	9:39	" "	C SEALION	1	250 YDS N OF DUNE PEN	CRUISING EAST
6	9:55	" "	H SEAL	1	50 YDS N OWEN BEACH	MILLING
7	11:08	" "	H SEAL	3	50 YDS N OF TACOMA YACHT CLUB	FLAG POLE CRUISING EAST
8	12:11	WIND DROPPING CLOUDY	C SEALION	3	10 YDS N OF DUNE PEN	CRUISING EAST / MILLING & TURNED TO WEST
9	12:39	WIND CLOUDY	H SEAL	8	BREAKWATER	HAULED OUT ON ROCKS / MILLING
10	1:13	" "	" "	1	50 YDS N OF DUNE PEN	MILLING
11	1:45	" "	C. SEALION	2	<del>CRP</del> 10 YDS N. DUNE PEN	CRUISING EAST ALONG SHORELINE
						END CALLED 1:54

\* E.g., direction, distance estimate or mark on figure with sighting number

# Marine Mammal Observation Sheet

Date: 12/19/24

Observer: Tina Mirabile

Project Name: Dickman Mill –Brown’s Point

Arrival/Departure Time: 8:00 – 14:00

Project No.: 23-08222-000 task 2-23

task Weather: Cloudy, calm, light wind

Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	8:00	Calm, clear view, light wind	Harbor seal	1	South of Brown’s Pt. lighthouse	Swimming slowly north/ Pre-construction
2	9:00-11:00+	Same as above	Harbor seal	1 - Same seal as previously noted	West of Brown’s Point lighthouse	Swimming slowly/ direct pull/clamshell bucket/No vibe
3	13:39	Calm no wind, sediment in water column from prior day storm.	Harbor seal	1 - same as noted previously	West and northeast of lighthouse	swimming/direct pull/ No vibe
14:00 End of day - no whales observed						

\* E.g., direction, distance estimate or mark on figure with sighting number

## Marine Mammal Observation Sheet

Date: 12/19/24 Observer: W WAYNE

Project Name: DICKMAN MILL - CRP/ DUNE PENINSULA

Arrival/Departure Time: 6:10-7:35 CRP | 7:45- DUNE P Project No.: 23-08222-TASK 2-03

Weather: CLOUDY, LT BREEZE Contract No.: \_\_\_\_\_

CRP  
DUNE  
PEN

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:15	CLOUDY LT BREEZE	H Seal	1	10 YDS OFF PIER N OF CRPARK	milling
2	7:27	" "	C SEALION	2	25 YDS OFF BOAT @ DICKMAN	CRUISING N OUT OF C. BAY
3	8:18	" "	H Seal	5	BREAKWATER	MILLING
4	9:17	" "	C Sealion	3	10 YDS N OF DUNE PEN	FAST CRUISE EAST
5	10:01	" "	" "	1	1/2 MI N OF DUNE PEN NEAR FERRY TERMINAL	milling/feeding
6	10:27	" "	H Seal	1	100 YDS N PT DEFIANCE	milling
7	11:33	" "	H Seal	1	10 YDS N OF DUNE PEN	" "
8	11:33	" "	C Sealion	1	" "	FEEDING/EATING FISH

\* E.g., direction, distance estimate or mark on figure with sighting number

\* A lot more small boat & yacht traffic than regularly observed

## Marine Mammal Observation Sheet

No Whales  
observed.

Date: 12/20/24 Observer: Nick Bartish  
 Project Name: Dickman Mill  
 Arrival/Departure Time: Arrive @ 07:15, depart @ 12:00 Project No.: 23-08222-000  
 Weather: Overcast, 45°F Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity

\* E.g., direction, distance estimate or mark on figure with sighting number

## Marine Mammal Observation Sheet

Date: 12/20/24 Observer: W. WATNE

Project Name: DICKMAN MILL CRP/DUNE PENINSULA

Arrival/Departure Time: 6:30-7:44 CRP | 8:10-10:05 DUNE P Project No.: 23-0822-TASK 2.03

Weather: Ptly Cloudy, LT BREEZE Contract No.: \_\_\_\_\_

CRP  
DUNE  
PEN

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
1	7:30	PTL CLOUDY LT BREEZE	C SEA LION	2	50 YDS OFF DICKMAN MILL	CRUISING N OUT OF BAY
2	8:15	" "	H SEAL	6	AREA AROUND BREAKWATER	MILLING
3	9:11	" "	C SEA LION	1	1/6 MILES OFF QUARTERMASTER BAY	FEEDING
4	9:25	" "	H SEAL	1	50 YDS OFF PT DEFIANCE	MILLING
5	9:36	" "	C SEA LION	1	10 YDS OFF DUNE PEN	FEEDING
6	10:10	" "	C SEA LION	3	" "	CRUISING S INTO C BAY
7	10:27	" "	H SEAL	1	50 YDS OFF OWEN BEACH	MILLING
						<del>CRUISING S INTO C BAY</del> DONE PULLING 10:53

\* E.g., direction, distance estimate or mark on figure with sighting number



# Marine Mammal Observation Sheet

Date: 12/26/24

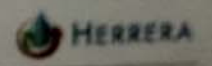
Observer: Christine Fluta

Project Name: \_\_\_\_\_

Arrival/Departure Time: 7:15 AM 3:00 PM Project No.: \_\_\_\_\_

Weather: High winds & cloudy Contract No.: \_\_\_\_\_

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Construction Activity
						No mammals observed



Date: 12/20/24 Observer: W WATNE  
 Project Name: DICKMAN MILL CRP/DUNE PEN MAMMAL MONITORING  
 Arrival/Departure Time: 7:14 CRP 7:54 | 8:01 DUNE PEN 2:45 Project No.: 23-08222-000 TASK 2  
 Weather: WINDY RAINY/DRIVING CLOUDY Contract No.: \_\_\_\_\_  
SW WIND 25 w/ GUSTS ↑ 50

Sighting #	Time of Day	Weather	Species	# of Individuals	Location*	Behavior/Constructi
0		WINDY CLOUDY				
1	8:11	" "	H SEALS	7	BREAKWATER	HAULING AT OR MILLING
2	8:49	" "	C SEA LION	1	10 YDS OFF N DUNE PEN	CRUISING WEST
3	9:40	" "	H SEAL	1	1/4 SW OWEN PARK	MILLING
4	12:18	" "	C SEA LION	2	10 YDS OFF N DUNE PEN	" " BACK & F ALONG BANK
5	1:58	" "	H SEAL	1	1/4 MI N OF PT DEFAULG	MILLING/CRUSII

CRP  
 DUNE  
 PEN

# Appendix G

## Marine Mammal Monitoring Field Forms

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Monitoring Personnel: Nick Butish

Date: 11/20/24

Construction Activity  
During Monitoring: Piling pulling

Activity Start Time: 13:00

**Current Field Conditions**

Weather: overcast, WPT

Temperature: 49°F

Any prior disturbances to water body?  
(Y/N) - Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: cal check performed

Field Notes (If necessary):  
Detailed field notes collected in notebook

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
\_\_\_\_\_  
\_\_\_\_\_

Was Ecology notified of exceedances and action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Did turbidity return to background after correction action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?  
\_\_\_\_\_  
\_\_\_\_\_



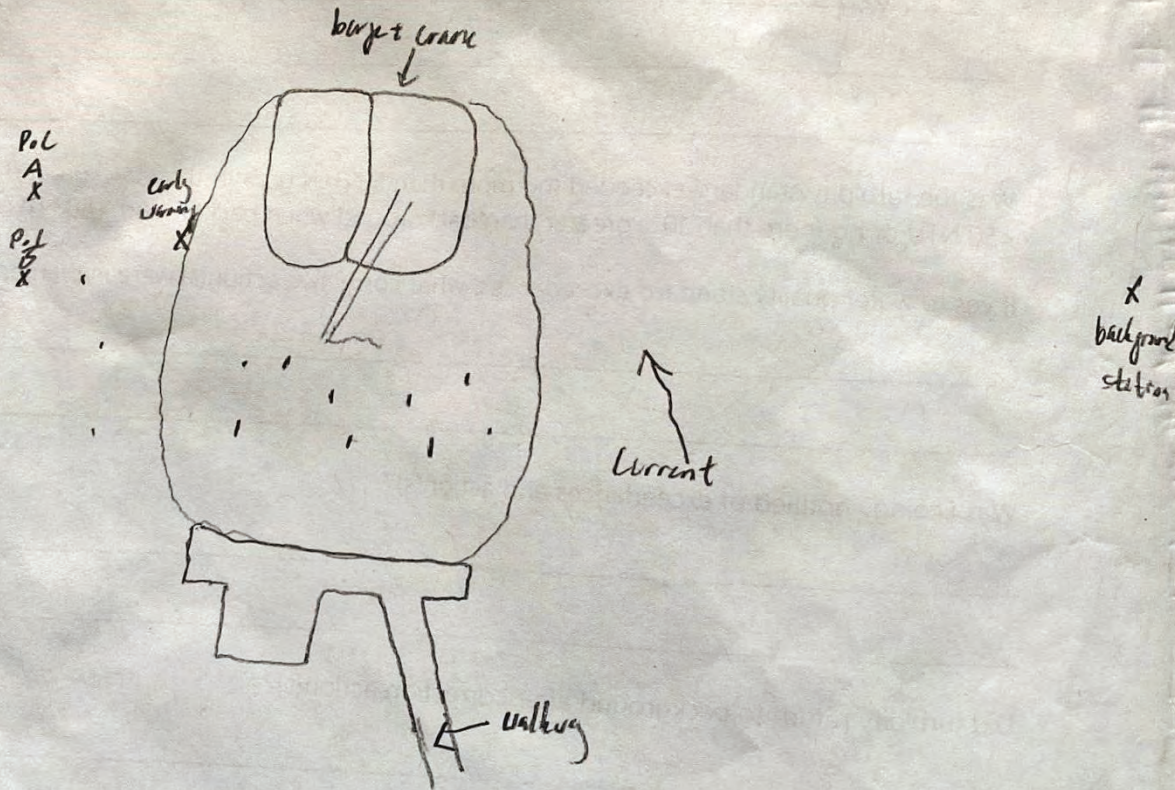
Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were observed inside work area and were contained by booms.

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



**Daily Water Quality Monitoring Form**

Monitoring Station		40 ft Background Station	36 ft Early Warning Station	36 ft Point of Compliance Station A	31 ft Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		13:15	13:32	13:45	14:00	
Northing		47.27777	47.27846	47.27859	47.27860	
Easting		-122.46787	-122.46287	-122.45057	-122.47068	
Tide Status		low	low	low	low	
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	0.57	1.32	0.87	0.66
		Confirm	0.57	0.71	0.67	0.62
	Exceedance/Elevation (Yes or No)		No	No	No	No
	Middle	Initial	0.67	0.69	0.69	0.91
		Confirm	0.55	0.60	0.50	0.85
	Exceedance/Elevation (Yes or No)		No	No	No	No
	Bottom	Initial	0.84	0.57	0.69	0.54
		Confirm	0.62	0.88	0.52	0.65
	Exceedance/Elevation (Yes or No)		No	No	No	No
	Visible turbidity evident?		No	No	No	No
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		NONE	NONE	NONE	NONE

Monitoring Personnel: Nick Borish, George Stone

Date: 11/21/24

Construction Activity

During Monitoring: Pile Removal

Activity Start Time: 08:00

Current Field Conditions

Weather: overcast, calm water

Temperature: 47°F

Any prior disturbances to water body?

(Y/N) - Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: No sample collection

Field Notes (If necessary):

Detailed field notes collected in notebook.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

Was Ecology notified of exceedances and action(s)?

Did turbidity return to background after correction action(s)?

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were observed at work area. Occasional sheens were observed  
which began. When observed, work was stopped until sheen was fully contained.

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:

Monitoring Personnel: Nick British Large Stone Date: 11/22/24

Construction Activity During Monitoring: Pipe install Activity Start Time: 07:45

**Current Field Conditions**

Weather: Cloudy Temperature: 48°F

Any prior disturbances to water body? (Y/N - Describe): water color higher than 11/20 samples

Daily meter calibration performed? (Y/N - Describe): cal check

Field Notes (If necessary):  
Detailed field notes collected in notebooks available upon request.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
\_\_\_\_\_  
\_\_\_\_\_

Was Ecology notified of exceedances and action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Did turbidity return to background after correction action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?  
\_\_\_\_\_  
\_\_\_\_\_

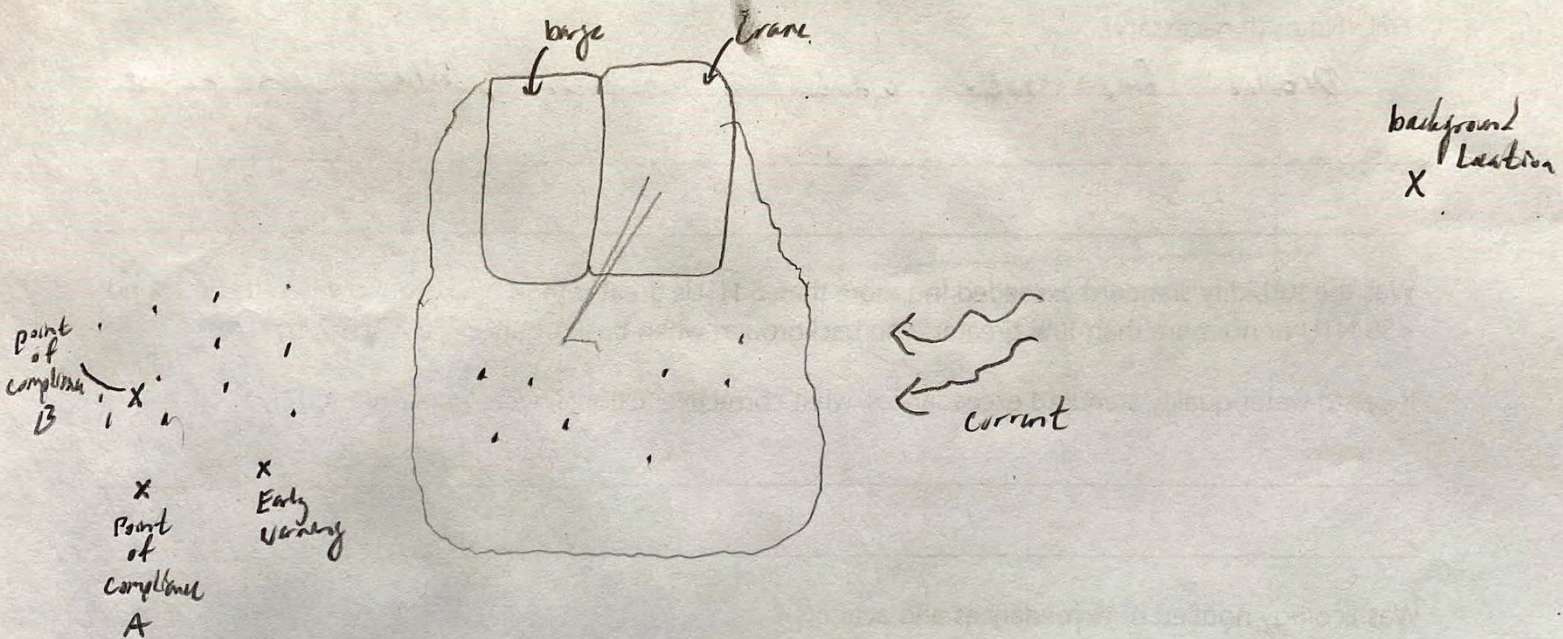
Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were observed in side of the boom. Minor amounts of sheen were observed outside the boom were immediately contained by boom.

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



**Daily Water Quality Monitoring Form**

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		09:08	09:22	09:37	09:45	
Northing		47.27746	47.27701	47.27714	47.27720	
Easting		-122.46923	-122.47107	-122.47126	-122.47130	
Tide Status		incoming	incoming	incoming	incoming	
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	3.13	2.78	2.33	1.79
		Confirm	3.03	2.13	2.40	1.80
	Exceedance/Elevation (Yes or No)		—	No	No	No
	Middle	Initial	1.35	1.17	1.81	1.00
		Confirm	1.47	1.20	1.83	1.02
	Exceedance/Elevation (Yes or No)		—	No	No	No
	Bottom	Initial	1.11	1.87	1.84	1.21
		Confirm	1.14	2.18	1.60	1.25
	Exceedance/Elevation (Yes or No)		✓	No	No	No
	Visible turbidity evident?		No	No	No	No
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No	

Dickman Mill

11/20/24

NB, LS

Sunny, 50°

On the water @ 10:10

- Piling removal began @ 10:10
- Use of chainsaw on first piling
- Current being west
- Boom open on west end. Orion closed before first piling

Wor remarks

- Boom closed @ 11:00

201

• Piling removal began @ 10:10. chainsaw piling fell into the water after removal @ 11:34 before being removed by crane. Material from inside piling fell into water inside the boom arch.

• Pile removal start @ 11:55

• Orion/EPFF is removing floating debris from boom area

• Collected measurements from 13:15 - 14:00, no excursions observed.

• lots of snags observed on the pilings being removed

• Workers expanded boom to assist for piling partially outside @ 15:08

NB, 05

Partly cloudy, 45°F

11/21/24

On the water at 8:00 AM, Piling was being pulled. Circled perimeter of boom and did not see any plumes.  
- only pulling, no vibratory removal as of 08:45

- 09:10 - Crane is having a difficult time removing piles. Trying to pull.
- 09:30 - observed small (~5 sqft) oil sheen within boom after piling was pulled.
- 09:56 - oil sheen observed on landward side of work area within boom. Notified Herrera PM + KPFF.
- 10:21 - Piling snapped in half during removal, most removed submerged.
- 10:25 - Another piling snapped in half.
- 10:45 - sheen on landward side of work area has disappeared but been absorbed by boom. Some areas of sheen remain near pilings being pulled. No visible turbidity plumes.
- 10:50 - Orion crew switched to vibratory apparatus and used it on a single piling.
- 11:00 - resumed pulling pilings. No sea-life on vibrated piling.
- 11:11 - No mud has been observed on pilings.
- 11:23 - sulfur odor after piling removed ~15ft from piling.
- 11:30 - Another piling snapped in half during removal. Lower boom still entangled.
- 11:41 - Orion has been adjusting boom to appropriately allow spacing between pilings being removed and the boom.
- 11:51 - sheen ~~not~~ appearing within boom immediately after piling removal. None observed outside of boom. Notified Herrera PM.
- 13:00 - some sheen observed outside of boom. Notified Orion, Herrera, + KPFF. Additional boom installed + sheen was contained or cleared up. Sheen spillage was near the overlook area.

NB, 15  
 Lang 48°F

Arrived onsite @ 7:30  
 First piling pulled @ 7:45

- ~~7:30~~ More waves than yesterday. Tide is rising.
- 7:30 - observed site from overlook, no visible shear
- 8:20 - boatel around perimeter, no shear or turbid water

Pile pulling

9:00 background sample  
 Depth: 15 ft Lat/long: 47.27746  
 -122.46823

3' : 3.13 NTU 3.03 NTU  
 8' : 1.35 NTU 1.47 NTU  
 12' : 1.11 NTU 1.14 NTU

100' sample @ 9:22 Depth 13 ft Lat/long: 47.27801  
 -122.47107

3' : 2.78 NTU 2.53 NTU No  
 6' : 1.17 NTU 1.20 NTU No  
 10' : 1.07 NTU 2.18 NTU No

150' sample @ 9:37 Depth 13 ft Lat/long: 47.27794  
 -122.47126

3' : 2.37 NTU 2.40 NTU No  
 6' : 1.81 NTU 1.83 NTU No  
 10' : 1.84 NTU 1.60 NTU No

150' sample B @ 9:45 Depth 14 ft Lat/long: 47.27820  
 -122.47130

3' : 1.74 NTU 1.80 NTU No  
 7' : 1.00 NTU 1.02 NTU No  
 11' : 1.28 NTU 1.25 NTU No

No visual plume or debris

11:00 - Sheen observed inside boom after pile removal. No  
sheen observed outside. No visible sediment plumes.

11:30 - several more plings pulled. Hammer used for one. No additional  
sheen or turb plume observed. Some residual sheen near boom along  
western edge of cofferdam. No sheen observed outside of boom.

11:50 - A small area  $> 5\% \text{ TL}$  of sheen observed outside of boom near starboard  
side of barge. Notified Orion. Sheen was cleared and additional boom was  
added. Work was stopped during boom replacement.

12:50 - Work done for the day.

Monitoring Personnel: Jason Andrade, KPFF Date: 11/25Construction Activity During Monitoring: pile pull, center field. Activity Start Time: 7Am

## Current Field Conditions

Weather: overcast Temperature: \_\_\_\_\_Any prior disturbances to water body?  
(Y/N - Describe): NDaily meter calibration performed? (Y/N - Describe): N

## Field Notes (If necessary):

A small amount of creosote was noted  
Orion, midaged directly.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt;50 NTU or no more than 10% greater than background when background &gt;50 NTUs)? (Y/N )

If yes to water quality standard exceedances, what corrective action(s) were implemented?

visual only

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

N/A

Were any petroleum sheens or distressed or dying fish observed?

no

Were any photographs taken as supporting documentation?

- yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

visual only

Monitoring Personnel: Jason Andrade, KPTF Date: 11/26/24Construction Activity  
During Monitoring: pile pull, center field Activity Start Time: 7 AM**Current Field Conditions**Weather: overcast Temperature: \_\_\_\_\_Any prior disturbances to water body?  
(Y/N - Describe): NDaily meter calibration performed? (Y/N - Describe): NField Notes (If necessary):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt;50 NTU or no more than 10% greater than background when background &gt;50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
visual only  
\_\_\_\_\_Was Ecology notified of exceedances and action(s)?  
N/A  
\_\_\_\_\_Did turbidity return to background after correction action(s)?  
N/A  
\_\_\_\_\_Were there any unusual conditions or critical activities that could have affected water quality?  
N/A  
\_\_\_\_\_

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



Daily Water Quality Monitoring Form

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, floating fish) If yes, describe.					

Visual only



Monitoring Personnel: George Iftner

Date: 11/27/2024

Construction Activity During Monitoring: pulling pile

Activity Start Time: 07:10 AM

Current Field Conditions

Weather: partly cloudy, 10 mph wind from NW

Temperature: 43° F

Any prior disturbances to water body?  
(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): NA - visual monitoring only

Field Notes (If necessary):

Yellow Turbidity curtain and oil absorbent booms in place.  
No petroleum Sheen observed. Orion staff in skiff  
drove boat around perimeter of work zone several times to  
check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO - based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NO

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume

NA =

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade, KPFF

Date: 12/02/24

Construction Activity During Monitoring: pile pull, Western Field

Activity Start Time: 7 AM

Current Field Conditions

Weather: overcast

Temperature: 37°

Any prior disturbances to water body?  
(Y/N - Describe): N

Daily meter calibration performed? (Y/N - Describe): N

Field Notes (If necessary):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

Visual only

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

N/A

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial			
		Confirm			
	Exceedance/Elevation (Yes or No)				
	Middle	Initial			
		Confirm			
	Exceedance/Elevation (Yes or No)				
	Bottom	Initial			
		Confirm			
	Exceedance/Elevation (Yes or No)				
	Visible turbidity evident?				
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

visual only

Monitoring Personnel: Nick Bartish

Date: 12/31/24

Construction Activity  
During Monitoring: Pile pulling

Activity Start Time: 07:30

**Current Field Conditions**

Weather: overcast, calm waters

Temperature: 38°F

Any prior disturbances to water body?

(Y/N) - Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: YSI cal check w/ turb standard

Field Notes (If necessary):

No visible sediment plumes on site. Some silt observed but only inside the boom. No silt observed outside work area. Orion crew boated around boom perimeter to confirm.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NA

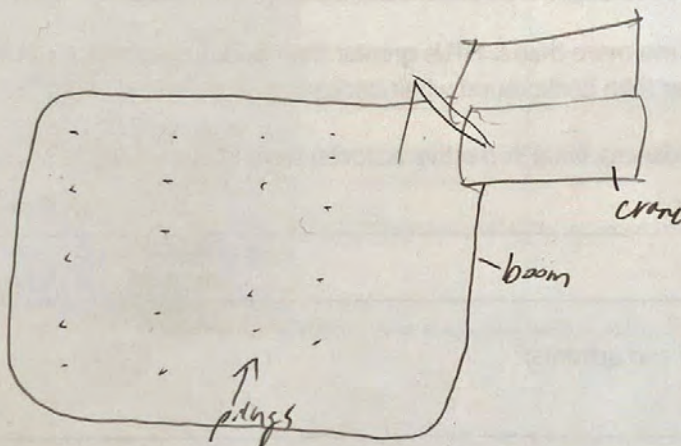
Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were contained within boom. No dead/dying fish observed.

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		<i>Visual</i>				
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	<i>Merit form only</i>			
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Monitoring Personnel: Orion, <sup>KPFF Overy phone call</sup> with Jacob.

Date: 12/04/24

Construction Activity During Monitoring: Pile pull, NPC

Activity Start Time: 7 AM

Current Field Conditions

Weather: Overcast, wind 3-4 mph.

Temperature: 35°

Any prior disturbances to water body?

(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): N/A visual monitoring only.

Field Notes (If necessary):

yellow turbidity curtain and oil absorbent booms in place. No petroteam skiff observed. Orion staff in skiff drove boat around work zone several times to check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

No - Based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?

N/A.

Did turbidity return to background after correction action(s)?

N/A.

Were there any unusual conditions or critical activities that could have affected water quality?

NO.

Were any petroleum sheens or distressed or dying fish observed?

NO.

Were any photographs taken as supporting documentation?

yes.

Sketch of project area, sampling locations, and any visible turbidity plume:

W/A.

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
Bottom	Initial					
	Confirm					
Exceedance/Elevation (Yes or No)						
Visible turbidity evident?						
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Nick Bartish Date: 12/5/14

Construction Activity  
During Monitoring: Pile pulling Activity Start Time: 07:32

**Current Field Conditions**

Weather: Partly cloudy, calm waters Temperature: 39°F

Any prior disturbances to water body?  
(Y/N) Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) Describe: cal check w/ tubs standard

**Field Notes (If necessary):**

No sediment pump observed. Shear observed, but was contained by boom. Orion boated around perimeter of site to maintain boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)?  
NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

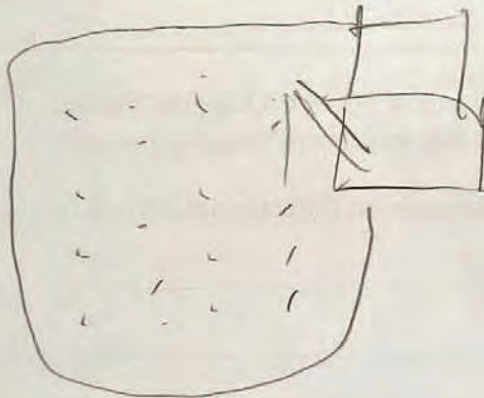
Were any petroleum sheens or distressed or dying fish observed?

Observed petroleum sheens were contained within booms. No  
dead/dying fish observed.

Were any photographs taken as supporting documentation?

Yes. KPFF collected drone footage.

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	<i>Visual Monitoring Only</i>			
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade KPFF Date: 12/06/24

Construction Activity During Monitoring: Pile pull, WPC Activity Start Time: 7 AM

Current Field Conditions

Weather: overcast 1-3 mph wind, NW Temperature: 39°

Any prior disturbances to water body?  
(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): N/A visual monitoring only.

Field Notes (if necessary):

yellow turbidity curtain and oil absorbent booms in place.  
No petroleum sheen observed. Orion staff in skiff  
drove boat around work zone several times to check  
turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO - based on visual monitoring of clear  
Water.

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

No.

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A.

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade Date: 12/09/24Construction Activity During Monitoring: Pile pull, WPC Activity Start Time: 7 AM

## Current Field Conditions

Weather: Mostly sunny wind 4 MPH Temperature: 45°Any prior disturbances to water body?  
(Y/N - Describe): N/ADaily meter calibration performed? (Y/N - Describe): N/A visual monitoring only.

## Field Notes (if necessary):

Yellow turbidity curtain and oil absorbent booms in place. No petroleum sheen observed. Orion staff in skiff drove boat around work zone several times to check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt; 50 NTU or no more than 10% greater than background when background &gt; 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO - based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

NO.

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					



Monitoring Personnel: Nick Bartish Date: 12/10/24Construction Activity  
During Monitoring: Pile Removal Activity Start Time: 07:30**Current Field Conditions**Weather: Clear Temperature: 38°F

Any prior disturbances to water body?

(Y/N) - Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): YSI Calibration checked w/ Job standard

Field Notes (If necessary):

No visible sediment plumes observed. Petroleum sheen observed inside of work area. No sheen observed outside of boom. Orion maintained boom and occasionally checked the perimeter.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt; 50 NTU or no more than 10% greater than background when background &gt; 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NA

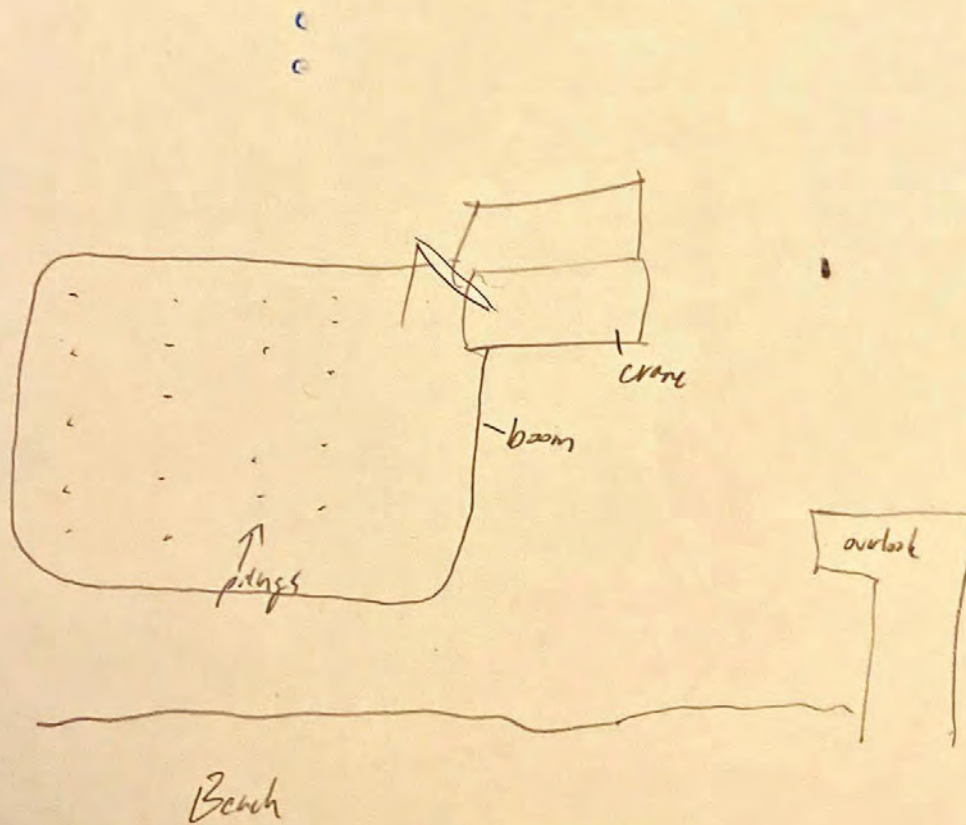
Were any petroleum sheens or distressed or dying fish observed?

No. Petroleum sheens were only observed inside the bay.  
fish were.

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time					
Northing					
Easting					
Tide Status					
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	<i>Visual Monitoring Only</i>		
		Confirm			
	Exceedance/Elevation (Yes or No)				
	Middle	Initial			
		Confirm			
	Exceedance/Elevation (Yes or No)				
	Bottom	Initial			
Confirm					
Exceedance/Elevation (Yes or No)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Monitoring Personnel: George Iftner Date: 12/11/24

Construction Activity During Monitoring: Pile pulling - West Dense pile field Activity Start Time: 8:00 AM

**Current Field Conditions**

Weather: cloudy 38° F, dry. Wind from NE 2 mph. Temperature: 38°

Any prior disturbances to water body? (Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): NA

**Field Notes (If necessary):**

G. Iftner onsite 9:15 am - 11:15 am. Yellow silt curtain in place w/ oil absorbent boom. 10:50 Orion Snapping cut barge that is full.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

No elevated turbidity observed

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NO

Were any petroleum sheens or distressed or dying fish observed?

No sheen observed, no distressed or dying fish

Were any photographs taken as supporting documentation?

YES

Sketch of project area, sampling locations, and any visible turbidity plume:

NA.

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

*visual monitoring only*

Monitoring Personnel: Nick Bartish

Date: 12/12/24

Construction Activity  
During Monitoring: Pile removal

Activity Start Time: 07:30

**Current Field Conditions**

Weather: cloudy, rain early morning

Temperature: 40°F

Any prior disturbances to water body?

(Y/N - Describe): \_\_\_\_\_

Daily meter calibration performed?  Y/N - Describe: YSI cal check w/ turb standard.

Field Notes (If necessary):

No sediment plume observed. Petroleum sheen observed inside boom during pile removal. Sheen was contained by boom. Orion maintained boom + checked for sheen around perimeter.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NA

Were any petroleum sheens or distressed or dying fish observed?

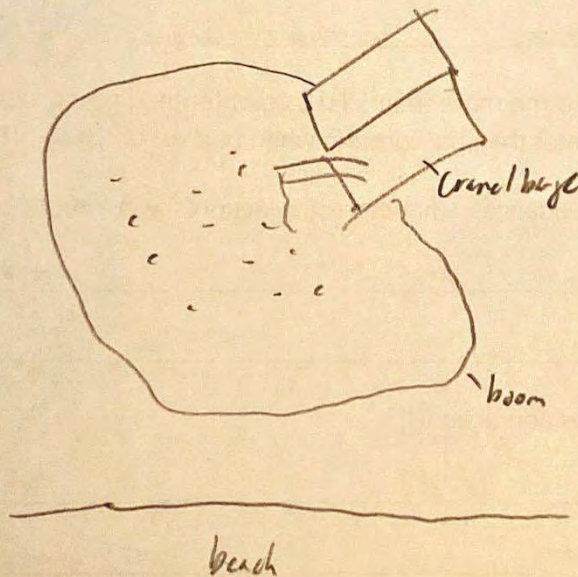
Petroleum sheens were observed but were contained within boom.

No dead/dying fish observed.

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	<i>Visual Monitoring only</i>			
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade Date: 12/13/24

Construction Activity During Monitoring: Pile pull, WPC Activity Start Time: 7 AM

Current Field Conditions  
Weather: overcast, light rain Temperature: 46°

Any prior disturbances to water body?  
(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): N/A Visual Monitoring only.

Field Notes (if necessary):  
yellow turbidity curtain and oil absorbent booms in place. No petroleum Sheen observed. Orion staff in skiff drove boat around work zone several times to check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
No - based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?  
N/A

Did turbidity return to background after correction action(s)?  
N/A

Were there any unusual conditions or critical activities that could have affected water quality?  
NO.

Were any petroleum sheens or distressed or dying fish observed?

No

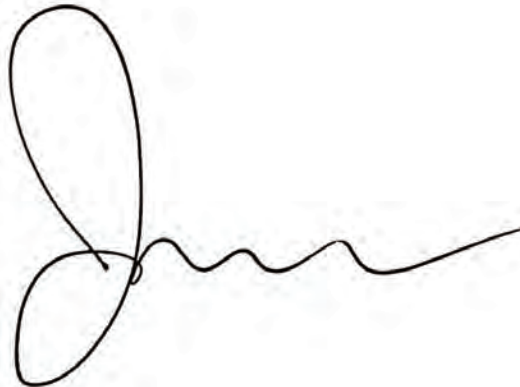
Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Jacob Isotalo (Orion) report to Nick Bartish (Herrera) Date: 12/30/2024

Construction Activity

During Monitoring: Diver assisted pile stub/debris removal \_\_\_\_\_ Activity Start Time: all day \_\_\_\_\_

Weather: cloudy, wind 5-10 mph \_\_\_\_\_ Temperature: 48 F \_\_\_\_\_

Any prior disturbances to water body? (Y/N – Describe): No \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):

None present \_\_\_\_\_

Instrument monitoring performed? (Y/N): No \_\_\_\_\_

Daily meter calibration performed? (Y/N – Describe): NA \_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NA \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA \_\_\_\_\_

Was Ecology notified of exceedances and action(s)? (Y/N) NA \_\_\_\_\_

Did turbidity return to background after correction action(s)?

NA \_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?

No \_\_\_\_\_

Were any petroleum sheens or distressed or dying fish observed?

Sheen occasionally inside adsorbent boom but none outside; no fish observed \_\_\_\_\_

Were any photographs taken as supporting documentation?

No \_\_\_\_\_

Sketch of project area, sampling locations, and any visible turbidity plume:

NA

Turbidity Monitoring Data Form for Date: 12/30/2024

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time		NA	NA	NA	NA
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Visible turbidity evident?				
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Shawree Zhang Date: 12/31/2024

Construction Activity

During Monitoring: Diver assisted pile stub/debris removal Activity Start Time: all day

Weather: Cloudy Temperature: 38 F

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):

None present

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): N/A

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

Hydraulic jet cutter observed in use

Were any petroleum sheens or distressed or dying fish observed?

Slight sheen inside oil boom, none outside. No fish observed

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

Turbidity Monitoring Data Form for Date: 12/31/2024

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time	N/A	N/A	N/A	N/A	
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: \_Shawree Zhang\_\_\_\_\_ Date: \_01/02/2025\_\_\_\_\_

Construction Activity

During Monitoring: \_\_ Diver assisted pile stub/debris removal\_\_\_\_\_ Activity Start Time: \_all day\_\_\_\_\_

Weather: \_Cloudy, drizzly\_\_\_\_\_ Temperature: \_47 F\_\_\_\_\_

Any prior disturbances to water body? (Y/N – Describe): \_\_\_\_ No\_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):

\_\_None present\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_No\_\_\_\_\_

Daily meter calibration performed? (Y/N – Describe): \_N/A\_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) \_\_\_\_N/A\_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A\_\_\_\_\_

Was Ecology notified of exceedances and action(s)? (Y/N) \_\_\_\_N/A\_\_\_\_\_

Did turbidity return to background after correction action(s)?

\_\_N/A\_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?

\_\_Hydraulic jet cutter observed in use\_\_\_\_\_

Were any petroleum sheens or distressed or dying fish observed?

\_\_Slight sheen inside oil boom, slight sheen observed outside at 10:50 am, oil boom was adjusted and sheen disappeared. No fish observed\_\_\_\_\_

Were any photographs taken as supporting documentation?

\_\_Yes\_\_\_\_\_

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A\_\_\_\_\_

Turbidity Monitoring Data Form for Date: 1/2/25

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time		N/A	N/A	N/A	N/A
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Field Notes (If necessary):

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Monitoring Personnel: Kellie Jaenicke Date: 4/3/25Construction Activity  
During Monitoring: pile removal Activity Start Time: 07:30**Current Field Conditions**Weather: cloudy, rain Temperature: 50°

Any prior disturbances to water body?

(Y/N – Describe): NODaily meter calibration performed? (Y/N – Describe): NOField Notes (If necessary):  

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Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt;50 NTU or no more than 10% greater than background when background &gt;50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO  

---

Was Ecology notified of exceedances and action(s)?

NO  

---

Did turbidity return to background after correction action(s)?

NO  

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Were there any unusual conditions or critical activities that could have affected water quality?

No  

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/06/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

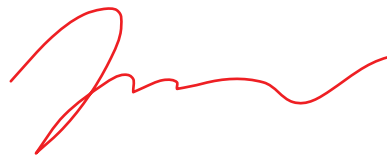
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Bortish Date: 1/7/25

Construction Activity During Monitoring: Diver Assisted Pile Removal Activity Start Time: 07:30

Weather: Partly cloudy Temperature: 38°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
No turbidity observed

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: Cal check with turbidity standard.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NA

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
Petroleum sheens observed only within the boom. No distressed or dead fish observed

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

*Visual Monitoring Only*

 Field Notes (If necessary):
 

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/08/25

Construction Activity  
During Monitoring: Diver Assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water. Per call in to Orion.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

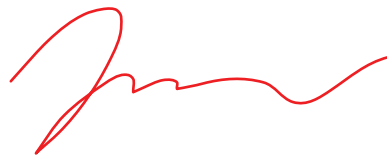
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Mill Bartish Date: 1/11/23

Construction Activity During Monitoring: Dive assisted pile pulling Activity Start Time: 09:30

Weather: Partly cloudy Temperature: 31°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
NA

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: cal check w/ turb standard

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

Were any petroleum sheens or distressed or dying fish observed?  
No petroleum sheens observed outside of boom. No distressed or dying fish.

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: <i>xx/xx/xxxx</i>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

*Visual Monitoring only*

Field Notes (If necessary):

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/10/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

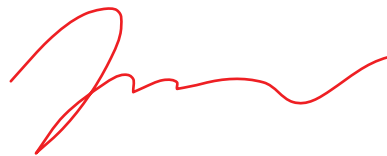
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/13/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 41

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

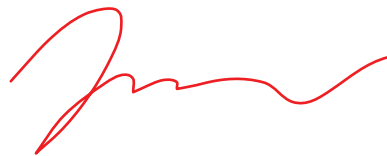
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Burtish, David Gault Date: 1/14/25

Construction Activity  
During Monitoring: Diver removal w/ Air Pump Activity Start Time: 7:47

Weather: overcast Temperature: 36°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
NO

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: YSI cal check with turbidity standard + DI water

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:  
see back

1/14/25

4.50A

Turbidity Monitoring Data Form for Date: xx/xx/xxxx						
Monitoring Station	Background Station <i>4.00 depth</i>	Early Warning Station <i>4.00 depth</i>	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	8:45	8:55	9:10	09:22		
Northing	47.2774667	47.2775894	47.2787663	47.2787742		
Easting	-122.4724443	-122.4723881	-122.4723264	-122.4726305		
Tide Status	<i>outgoing</i>	<i>absent</i>	<i>absent</i>	<i>outgoing</i>		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.00 NTU	0.38 NTU	0.50 NTU	0.38 NTU
		Confirm	0.01 NTU	0.28 NTU	0.48 NTU	0.40 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.91 NTU	0.04 NTU	0.12 NTU	0.20 NTU
		Confirm	0.84 NTU	0.05 NTU	0.08 NTU	0.29 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.92 NTU	0.56 NTU	0.44 NTU	0.30 NTU
		Confirm	0.87 NTU	0.53 NTU	0.36 NTU	0.29 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	No	No	No
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No	

Field Notes (If necessary):

*No excursions observed.*

	<u>BG</u>	<u>EW</u>	<u>PLA</u>	<u>PLB</u>
0.5	0.01	0.38	0.50	0.38
1	0.90	0.15	0.30	0.51
1.5	0.93	0.01	0.38	0.55
2	0.41	0.04	0.12	0.30
2.5	0.88	0.45	0.18	0.25
3	0.85	0.40	0.45	0.54
3.5	0.92	0.56	0.44	0.08
4	2.3	1.50	1.4	0.3
4.5	bottom	bottom	bottom	bottom

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Batish, David Lewis Date: 11/15/25

Construction Activity During Monitoring: Diver removal of pile cap Activity Start Time: 07:45

Weather: Overcast Temperature: 40

Any prior disturbances to water body? (Y/N - Describe): \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
NA

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): cal check w/ turbidity standard + DI water.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) N

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
Petroleum sheen contained within boom. NO dead/dying fish observed.

Were any photographs taken as supporting documentation?  
Yes

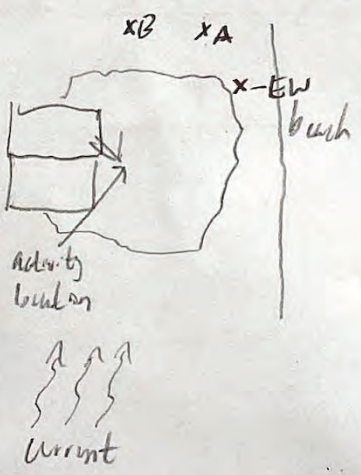
Sketch of project area, sampling locations, and any visible turbidity plume:  
see back

1/18/24

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>						
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	12:40	12:51	12:58	13:06		
Northing	47.2792845	47.2781012	47.2780364	47.2780726		
Easting	-122.4735114	-122.4712522	-122.470788	-122.470862		
Tide Status	incoming	incoming	incoming	incoming		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.80 NTU	0.90 NTU	0.93 NTU	0.62 NTU
		Confirm	0.81 NTU	0.86 NTU	0.89 NTU	0.57 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.74 NTU	0.71 NTU	0.75 NTU	0.20 NTU
		Confirm	0.71 NTU	0.83 NTU	0.72 NTU	0.30 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.61 NTU	0.74 NTU	0.80 NTU	0.42 NTU
		Confirm	0.66 NTU	0.65 NTU	0.81 NTU	0.52 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	No	No	No
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	sheen observed, origin not identified + contained it	No	No

Field Notes (If necessary):

sheen observed outside boom @ EW station. Origin not immediately identified  
 + sheen was contained with additional boom.



	B6	EW	A	B
0.5	0.8	0.9	0.93	0.62
1	0.81	0.17	0.43	0.45
1.5	0.76	0.79	0.75	0.2
2	0.74	0.75	0.81	0.19
2.5	0.68	0.79	0.80	0.12
3	0.70	2.8	1.12	0.42
3.5	0.69	bottom	bottom	0.30
4	2.31			
	bottom			

X5  
B6

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**Monitoring Personnel: Nick Barbish Date: 1/16/25Construction Activity  
During Monitoring: Dive removal of old piling Activity Start Time: 07:30Weather: Foggy, light mist Temperature: 39°F

Any prior disturbances to water body? (Y/N) Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
No turbidity observed

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: Cal check with turbidity standard.Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NAIf yes to water quality standard exceedances, what corrective action(s) were implemented?  
NAWas Ecology notified of exceedances and action(s)? (Y/N) NADid turbidity return to background after correction action(s)?  
NAWere there any unusual conditions or critical activities that could have affected water quality?  
NoWere any petroleum sheens or distressed or dying fish observed?  
Petroleum sheens observed only within the boom. No distressed or dead fish observedWere any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Visible turbidity evident?				
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

*Visual*  
*Only*  
*Monitoring*

Field Notes (If necessary):

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/17/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Sunny Temperature: 42

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

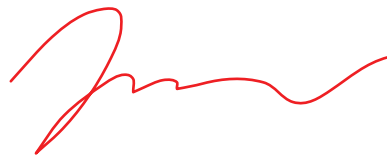
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**Monitoring Personnel: Shawree Zhang Date: 1/21/2025

Construction Activity

During Monitoring: Diver assisted pile removal Activity Start Time: All dayWeather: Sunny, clear Temperature: 40Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):

None observed outside of boomInstrument monitoring performed? (Y/N): NoDaily meter calibration performed? (Y/N – Describe): NA – visual monitoring onlyWas the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/AWas Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

N/A

Were any petroleum sheens or distressed or dying fish observed?

Faint oil sheen observed within oil boom, none observed outside, no distressed or dead fish observed

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

**Turbidity Monitoring Data Form for Date: 01/21/2025**

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		NA – visual monitoring only				
Northing						
Easting						
Tide Status						
Turbidity Readings (NTUs) at Depths	Surface					Initial
						Confirm
	Exceed Bkgd (Y/N)					
	Middle					Initial
						Confirm
	Exceed Bkgd (Y/N)					
Bottom	Initial					
	Confirm					
Exceed Bkgd (Y/N)						
Visible turbidity evident?						
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

 Field Notes (If necessary):
 

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/22/25

Construction Activity  
During Monitoring: Diver Assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water. Per call in to Orion.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
 

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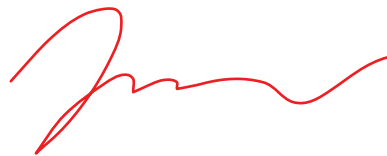
**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**Monitoring Personnel: Jason Andrade Date: 1/27/25Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 AmWeather: Sunny Temperature: 33Any prior disturbances to water body? (Y/N – Describe): NoVisual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.Instrument monitoring performed? (Y/N): NoDaily meter calibration performed? (Y/N – Describe): Visual OnlyWas the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/AIf yes to water quality standard exceedances, what corrective action(s) were implemented?  
NAWas Ecology notified of exceedances and action(s)? (Y/N) NADid turbidity return to background after correction action(s)?  
NAWere there any unusual conditions or critical activities that could have affected water quality?  
\_\_\_\_\_Were any petroleum sheens or distressed or dying fish observed?  
NoWere any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: D. Garcia, S. Zhang Date: 1/28/25  
Construction Activity During Monitoring: Sand/gravel placement Activity Start Time: 7:00 AM  
Weather: cloudy Temperature: 29° F  
Any prior disturbances to water body? (Y/N – Describe): NO

Visual turbidity observations (Sketch below if turbidity present):

Instrument monitoring performed? (Y/N): Y

Daily meter calibration performed? (Y/N – Describe): calibration checked

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) NO

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

NO

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

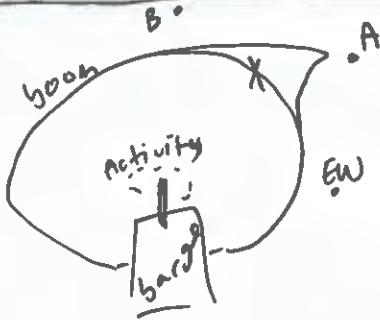
See back

Turbidity Monitoring Data Form for Date: 1/28/25						
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	13:06	13:30	13:52	14:06		
Northing	47.2781209	47.2789690	47.2787741	47.2783360		
Easting	-122.4698199	-122.4726506	-122.4730164	-122.4722711		
Tide Status	incoming	incoming	incoming	incoming		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.45 NTU	0.38 NTU	0.17 NTU	0.28 NTU
		Confirm	0.41 NTU	0.45 NTU	0.21 NTU	0.25 NTU
	Exceed Bkgd (Y/N)		—	NO	NO	NO
	Middle	Initial	0.21 NTU	0.7 NTU	0.36 NTU	0.32 NTU
		Confirm	0.16 NTU	0.9 NTU	0.38 NTU	0.30 NTU
	Exceed Bkgd (Y/N)		—	NO	NO	NO
	Bottom	Initial	2.0 NTU	3.5 NTU	2.0 NTU	1.12 NTU
		Confirm	1.87 NTU	3.48 NTU	1.87 NTU	1.58 NTU
	Exceed Bkgd (Y/N)		—	NO	NO	NO
	Visible turbidity evident?		NO	NO	NO	NO
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		NO	NO	NO	NO	

Field Notes (If necessary):

NO exceedances observed

beach



Depth	BG	EW	A	B
0.5	0.45	0.38	0.17	0.28
1	0.28	0.42	0.20	0.3
1.5	0.18	0.4	0.37	0.32
2	0.20	0.4	0.36	0.35
2.5	0.23	0.7	1.1	0.9
3	0.21	1.08	1.05	1.12
3.5	0.18	1.1	1.5	—
4	0.21	1.1	2.0	—
4.5	0.31	1.8	—	—
5.	0.2	3.8	—	—
5.5	0.35	3.5	—	—
6	2.0	—	—	—

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: D. Garcia, S. Zhang Date: 1/28/25  
Construction Activity  
During Monitoring: laying sand + gravel Activity Start Time: 7:00 AM  
Weather: cloudy Temperature: 27°F  
Any prior disturbances to water body? (Y/N – Describe): No  
Visual turbidity observations (Sketch below if turbidity present):

Instrument monitoring performed (Y/N): (Y)

Daily meter calibration performed? (Y/N – Describe): Calibration checked

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) No

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

No

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

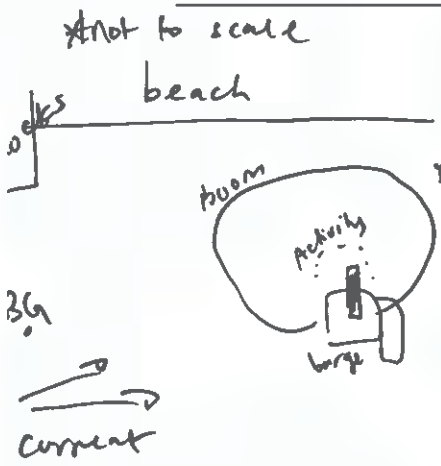
Sketch of project area, sampling locations, and any visible turbidity plume:

See back

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u> <u>1/28/25</u>						
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	8:23	9:07	9:30	10:05		
Northing	47.2781417	47.2790615	47.2795520	47.2789633		
Easting	-122.4699681	-122.4733547	-122.4735159	-122.4736138		
Tide Status	Outgoing	outgoing	outgoing	outgoing		
Turbidity Readings (NTUs) at Depths	Surface	Initial	<del>0.14</del> NTU 0.14	0.22 NTU	0.30 NTU	2.75 NTU
		Confirm	0.12	0.20 NTU	0.28 NTU	2.80 NTU
	Exceed Bkgd (Y/N)			No	No	No
	Middle	Initial	0.08 NTU	0.15 NTU	1.3 NTU	2.5 NTU
		Confirm	0.14 NTU	0.20 NTU	1.3 NTU	2.62 NTU
	Exceed Bkgd (Y/N)			No	No	No
	Bottom	Initial	0.5 NTU	0.4 NTU	1.38 NTU	2.2 NTU
		Confirm	0.28 NTU	0.45 NTU	1.41 NTU	2.18 NTU
	Exceed Bkgd (Y/N)			No	No	No
	Visible turbidity evident?			NO	NO	NO
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.			NO	NO	NO	

Field Notes (If necessary):

No exceedances observed



depth	BG	EW	A	B
0.5	<del>0.14</del> 0.14	0.22	0.30	2.75
1	0.15	0.25	2.6	2.5
1.5	0.10	0.15	2.07	2.35
2	0.15	0.18	2.6	2.2
2.5	0.08	0.5	1.3	—
3	0.12	0.4	1.16	—
3.5	0.12	—	0.8	—
4	0.15	—	0.85	—
4.5	0.13	—	0.86	—
5	0.5	—	1.38	—

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Portish, David Garcia Date: 11/29/25

Construction Activity During Monitoring: Sand/gravel placement Activity Start Time: 07:30

Weather: Clear skies Temperature: 36°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
Turbidity observed near shoreline

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: 2-point calibration

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) N

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

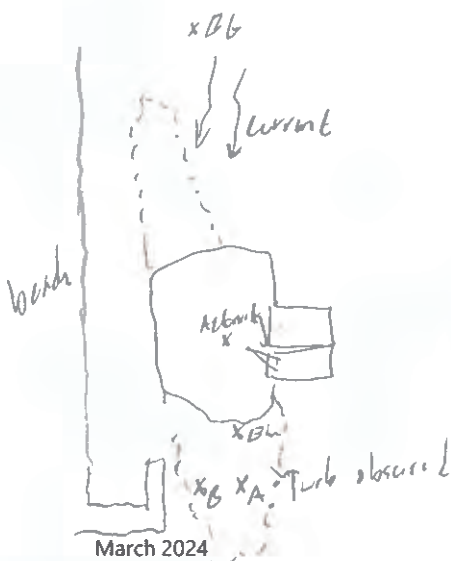
Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:  
see back

Turbidity Monitoring Data Form for Date: <u>1/1</u>						
Monitoring Station	5.5m Background Station	3.5 Early Warning Station	2.5 Point of Compliance Station A	3.5 Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	12:36	12:47	12:53	13:00		
Northing	47,274,118	47,278,176	47,278,142	47,277,997		
Easting	-122,473,207	-122,470,162	-122,470,676	-122,470,270		
Tide Status	incoming	incoming	incoming	incoming		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.53 NTU	0.40 NTU	0.42 NTU	0.37 NTU
		Confirm	0.58 NTU	0.13 NTU	0.42 NTU	0.21 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.89 NTU	1.90 NTU	1.32 NTU	1.50 NTU
		Confirm	0.85 NTU	1.70 NTU	1.42 NTU	1.45 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.61 NTU	3.09 NTU	3.50 NTU	3.20 NTU
		Confirm	0.56 NTU	2.78 NTU	3.80 NTU	3.18 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	Yes	Yes	Yes
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No	

Field Notes (If necessary):



depth (m)	BB	EW	A	B
0.5	0.53	0.40	0.42	0.37
1	0.61	1.5	1.40	0.25
2	0.96	1.90	1.32	1.50
3	1.03	3.09	3.50	3.20
4	0.72	bottom	bottom	bottom
5	0.61			
	bottom			

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**Monitoring Personnel: Nick British, David Garret Date: 1/29/25Construction Activity  
During Monitoring: Gravel/sand piling Activity Start Time: 07:30Weather: Foggy Temperature: 33°F

Any prior disturbances to water body? (Y/N) Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
Turbidity observed downstream of work area

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) Describe: 2-point calibration

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt;50 NTU or no more than 10% greater than background when background &gt;50 NTUs)? (Y/N) \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NAWas Ecology notified of exceedances and action(s)? (Y/N) NADid turbidity return to background after correction action(s)?  
NAWere there any unusual conditions or critical activities that could have affected water quality?  
NAWere any petroleum sheens or distressed or dying fish observed?  
No.Were any photographs taken as supporting documentation?  
YesSketch of project area, sampling locations, and any visible turbidity plume:  
see back

*1/19/24*

**Turbidity Monitoring Data Form for Date:** 1/19/24 *3.5* *4m*

Monitoring Station	7 m depth Background Station	3.5 m depth Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	08:34	08:50	08:56	09:02		
Northing	47.2777462	47.2777621	47.2779228	47.2790050		
Easting	-122.4689314	-122.4730553	-122.4732343	-122.4732219		
Tide Status	outgoing	outgoing	outgoing	outgoing		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.17 NTU	1.62 NTU	1.30 NTU	2.45 NTU
		Confirm	0.18 NTU	1.61 NTU	1.32 NTU	2.02 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.25 NTU	0.76 NTU	1.29 NTU	1.92 NTU
		Confirm	0.22 NTU	0.60 NTU	1.33 NTU	1.78 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.35 NTU	2.0 NTU	1.14 NTU	1.66 NTU
		Confirm	0.30 NTU	2.02 NTU	1.12 NTU	1.65 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	Yes	Yes	Yes
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	non compl. orlon rubbish.	No	No	

Field Notes (if necessary):

*turb observed*

Some wave action. Change in water color downcurrent of activity.

No turbidity exceedences observed during initial monitoring



depth(m)	B6	EW	A	B
0m	0.17	1.62	1.30	2.45
1	0.19	0.87	1.50	2.80
2	0.20	0.76	1.29	1.92
3	0.22	2.0	1.14	1.45
3.5	0.25	bottom	bottom	
4	0.24			bottom
5	0.24			
6	0.25			
6.5	0.35			

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Bartish Date: 1/30/25

Construction Activity During Monitoring: Gravel / sand placement Activity Start Time: 07:30

Weather: Partly cloudy Temperature: 38°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
yes

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: \_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NA

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

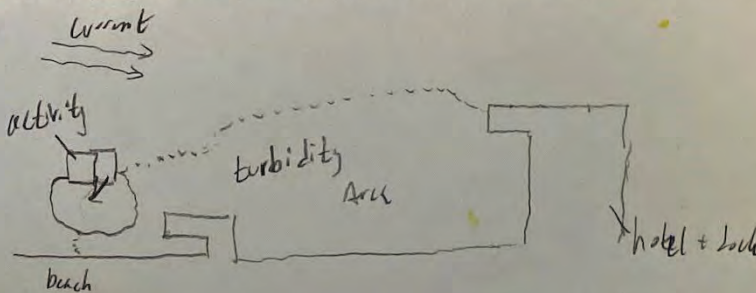
Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
yes

Sketch of project area, sampling locations, and any visible turbidity plume:



Turbidity Monitoring Data Form for Date: <span style="background-color: yellow;">                    </span>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Visible turbidity evident?				
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

Visual Monitoring

Field Notes (If necessary):

Area of turbidity has increased. Previous two days of mirrored monitoring showed all readings within turbid area were under 4 NTUs. Herrera staff notified PM of the increased size of plume.

Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/31/25

Construction Activity During Monitoring: Sand and gravel placement Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
**Yes, turbidity was observed and instrumented monitoring will resume to assess if turbidity is associated with the work.**

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

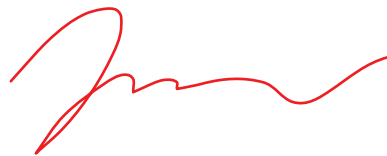
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

**Turbidity Monitoring Data Form for Date: 01/31/2025**

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



Monitoring Personnel: C. Ifner, S. Zhang

Date: 2/4/25

Construction Activity During Monitoring: Sand + gravel placement

Activity Start Time: 7:00 AM  
Monitoring start: 8:00 AM

**Current Field Conditions**

Weather: Partly sunny,

Temperature: \_\_\_\_\_

Any prior disturbances to water body?  
(Y/N - Describe): No

Daily meter calibration performed? (Y/N - Describe): calibration check

Field Notes (If necessary):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) NO

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
N/A

Was Ecology notified of exceedances and action(s)?  
N/A

Did turbidity return to background after correction action(s)?  
N/A

Were there any unusual conditions or critical activities that could have affected water quality?  
NO

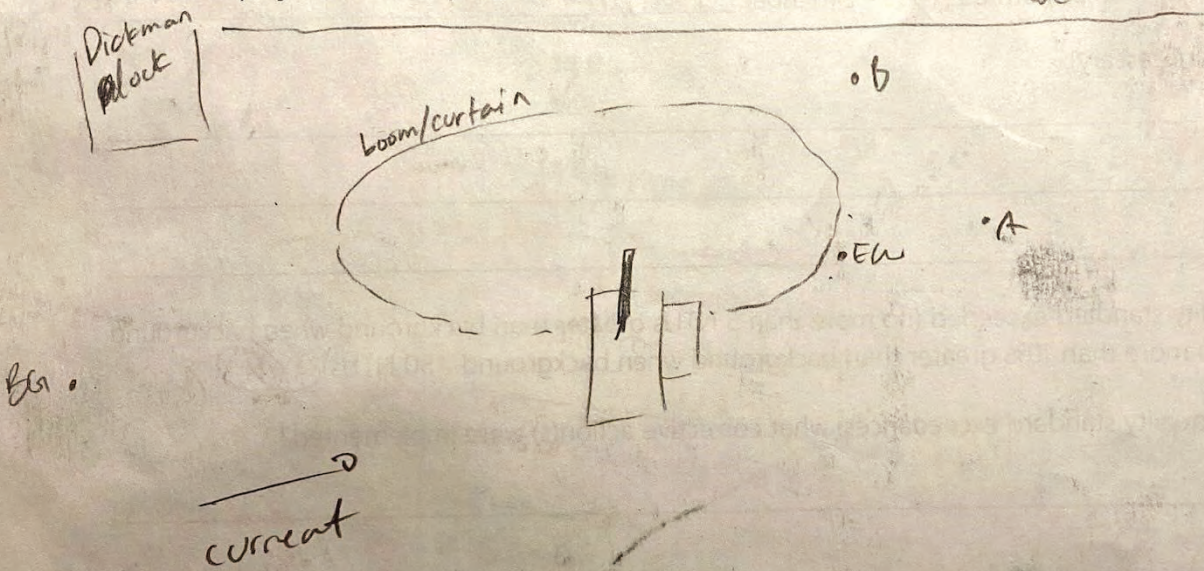
Were any petroleum sheens or distressed or dying fish observed?

*No*

Were any photographs taken as supporting documentation?

*Yes*

Sketch of project area, sampling locations, and any visible turbidity plume: *beach*



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		8:30	9:00	9:16	9:35	
Northing		47.2781540	47.2786283	47.2788478	47.2785989	
Easting		-122.4696894	-122.4722898	-122.4726104	-122.4722959	
Tide Status		High tide, incoming	high, outgoing	outgoing	outgoing	
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	0.0	0.0	0.0	
		Confirm	0.0	0.03	0.01	0.04
	Exceedance/Elevation (Yes or No)		—	NO	NO	NO
	Middle	Initial	0.11	0.0	0.01	0.01
		Confirm	0.01	0.0	0.01	0.0
	Exceedance/Elevation (Yes or No)		—	NO	NO	NO
	Bottom	Initial	0.26	0.0	0.17	0.22
		Confirm	0.04	0.0	0.0	0.22
	Exceedance/Elevation (Yes or No)		—	NO	NO	NO
	Visible turbidity evident?		NO	NO	NO	NO
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		NO	NO	NO	NO	

W station Hach 2100 :  
1.62 NTU, 1 ft. depth  
(w/in boom)

A w/ Hach 2100 :  
1.54 NTU, 1 ft. depth

Herrera Prod SS # 02

depth	BG	EW	A	B	depth	BG
0.5	0.0	0.0	0.0	0.0	6.5	0.00
1.0	0.05	0.0	0.01	0.02	7.0	0.21
1.5	0.11	0.0	0.0	0.0	7.5	0.26
2.0	0.07	0.0	0.0	0.0	<del>8.0</del>	<del>0.62</del>
2.5	0.10	0.0	0.01	0.01		
3.0	0.05	0.0	0.0	0.0		
3.5	0.00	0.0	0.0	0.01		
4.0	0.11	0.01	0.01	0.0		
4.5	0.13	0.0	0.0	0.22		
5.0	0.02	—	0.17	—		
5.5	0.07	—	—	—		
6.0	0.00	—	—	—		

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: G. Iftner, S. Zhang Date: 2/4/2025 (CONTINUED)

Construction Activity

During Monitoring: Placing sand/gravel Activity Start Time: 7:00 am

Weather: Partly sunny Temperature: 38 F

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):

None present

Instrument monitoring performed? (Y/N): Yes

Daily meter calibration performed? (Y/N – Describe): Yes – Pine Environmental rental YSI, calibrated before use

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

No

Were any petroleum sheens or distressed or dying fish observed?

No petroleum sheen or fish observed

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

Turbidity Monitoring Data Form for Date: 2/04/2025					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time	13:48	N/A	N/A	N/A	
Northing	47.27831				
Easting	-122.47253				
Tide Status	Outgoing				
Turbidity Readings (NTUs) at Depths	Surface	Initial	3.26		
		Confirm			
	Exceed Bkgd (Y/N)		-		
	Middle	Initial	0.25		
		Confirm			
	Exceed Bkgd (Y/N)		-		
	Bottom	Initial	0.48		
Confirm					
Exceed Bkgd (Y/N)		-			
Visible turbidity evident?		No			
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No			

Field Notes (If necessary):

\_Unable to collect further readings due to issues with boat motor, returned to shore and conducted visual monitoring instead.

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

2/5/25

Monitoring Personnel: N. British, S. Zheng Date: \_\_\_\_\_

Construction Activity During Monitoring: Sand/gravel placement Activity Start Time: 07:00

Weather: Clear Temperature: 35°F

Any prior disturbances to water body? (Y/N - Describe): \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): standard  
cal check w/ turb

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) Yes

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
Lowered gravel box into water before dumping

Was Ecology notified of exceedances and action(s)? (Y/N) No

Did turbidity return to background after correction action(s)?  
yes

Were there any unusual conditions or critical activities that could have affected water quality?  
Some wave action from wind.

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

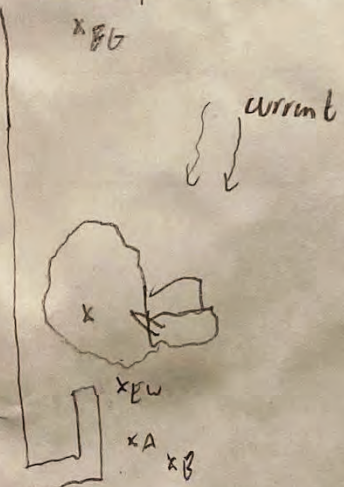
Sketch of project area, sampling locations, and any visible turbidity plume:  
\_\_\_\_\_

Turbidity Monitoring Data Form for Date: xx/xx/xxxx

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		09:18	09:31	09:49	09:50	
Northing		47.2790015	47.2778948	47.2778826	47.2778945	
Easting		-122.473556	-122.470749	-122.470558	-122.470279	
Tide Status		High tide	High tide	High tide	High tide	
Turbidity Readings (NTUs) at Depths	Surface	Initial	2.7 NTU	15 NTU	16.18 NTU	9.55
		Confirm		10.12 NTU	16.2	11.1
	Exceed Bkgd (Y/N)		NA	Yes	Yes	Yes
	Middle	Initial	2.58 NTU	3.0 NTU	3.51	2.63
		Confirm		2.85 NTU	2.73	11.5
	Exceed Bkgd (Y/N)		NA	No	Yes	Yes
	Bottom	Initial	2.60	2.85	2.77	2.81
		Confirm		2.80	2.76	3.16
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		Mild turb (see notes)	Yes		
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No				

Field Notes (If necessary):

Background turb from near action, effluents unrelated to project. Fined sand embankment sample @ 10:35



Depth (m)	BG	EW	A	B
0.5	2.7	15	16.18	9.55
1	2.55	9.8	10.82	11.6
1.5	2.52	6.75	3.51	3.3
2	2.50	3.00	8.60	3.10
2.5	2.68	3.0	2.10	2.70
3	2.55	2.64	2.73	2.63
3.5	2.51	2.71	2.68	2.56
4	2.60	2.85	2.77	2.72
				2.81

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

2/5/25

Monitoring Personnel: N. British, S. Zheng Date: \_\_\_\_\_

Construction Activity During Monitoring: Swamp/Channel Removal Activity Start Time: 07:00

Weather: partly cloudy Temperature: 35°F

Any prior disturbances to water body? (Y/N - Describe): \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): cal checked & bob started

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) N

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) N

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

Were any petroleum sheens or distressed or dying fish observed?  
No

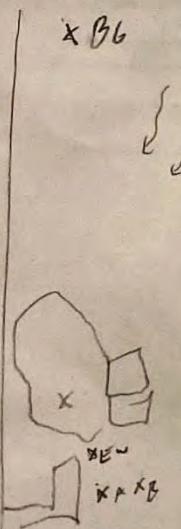
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:  
\_\_\_\_\_

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>						
Monitoring Station	<u>4m</u> Background Station	<u>4m</u> Early Warning Station	<u>4m</u> Point of Compliance Station A	<u>4m</u> Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	<u>10:47</u>	<u>10:54</u>	<u>11:03</u>	<u>11:06</u>		
Northing	<u>47,2791337</u>	<u>47,2778163</u>	<u>47,2778854</u>	<u>47,2779643</u>		
Easting	<u>-122.4738488</u>	<u>-122.4702919</u>	<u>-122.4701260</u>	<u>-122.4701022</u>		
Tide Status	<u>outgoing</u>	<u>outgoing</u>	<u>outgoing</u>	<u>outgoing</u>		
Turbidity Readings (NTUs) at Depths	Surface	Initial	<u>2.58</u>	<u>3.65</u>	<u>6.6</u>	<u>2.62</u>
		Confirm				
	Exceed Bkgd (Y/N)		<u>NA</u>	<u>No</u>	<u>No</u>	<u>No</u>
	Middle	Initial	<u>2.56</u>	<u>2.8</u>	<u>2.92</u>	<u>3.05</u>
		Confirm				
	Exceed Bkgd (Y/N)		<u>NA</u>	<u>No</u>	<u>No</u>	<u>No</u>
	Bottom	Initial	<u>2.60</u>	<u>2.66</u>	<u>4.50</u>	<u>2.7</u>
		Confirm				
	Exceed Bkgd (Y/N)		<u>NA</u>	<u>No</u>	<u>No</u>	<u>No</u>
	Visible turbidity evident?		<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	

Field Notes (If necessary):

Metrol monitoring 30 min after dredging corrective actions.



	<u>3m</u> <u>B6</u>	<u>4.2m</u> <u>EW</u>	<u>3.5</u> <u>A</u>	<u>3.1</u> <u>B</u>
time	<u>13:18</u>	<u>13:23</u>	<u>13:27</u>	<u>13:32</u>
GPS	<u>sat photo</u>	<u>sat photo</u>	<u>sat photo</u>	<u>sat photo</u>
surface	<u>4.70</u>	<u>3.67</u>	<u>2.14</u>	<u>3.15</u>
mid	<u>2.61</u>	<u>3.77</u>	<u>3.11</u>	<u>4.66</u>
bottom	<u>2.77</u>	<u>2.70</u>	<u>2.71</u>	<u>2.82</u>

47,2781206  
-122.4703245

wait + run prior to sampling

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: No. Bolivar, S. Zhang Date: 2/5/25

Construction Activity During Monitoring: Smelt + gravel placement Activity Start Time: 07:20

Weather: light rain Temperature: 36°F

Any prior disturbances to water body? (Y/N - Describe): High wind + rain

Visual turbidity observations (Sketch below if turbidity present):  
\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): cal check w/ turb standard

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:  
\_\_\_\_\_

Turbidity Monitoring Data Form for Date: xx/xx/xxxx						
Monitoring Station	300 Background Station	4.2 Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	13:18	13:23	13:27	13:32		
Northing	47.271915	47.2781854	47.2781206	47.2780471		
Easting	-122.4737215	-122.4704445	-122.4703215	-122.4702678		
Tide Status	outgoing	outgoing	outgoing	outgoing		
Turbidity Readings (NTUs) at Depths	Surface	Initial	4.30 NTU	3.67 NTU	2.61 NTU	3.15 NTU
		Confirm				
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	2.61 NTU	3.77 NTU	3.99 NTU	4.66 NTU
		Confirm				
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	2.77 NTU	2.70 NTU	2.71 NTU	2.82 NTU
		Confirm				
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	No	No	No
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No	

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Bartist Date: 2/6/25

Construction Activity During Monitoring: Sand / gravel placement Activity Start Time: 07:00

Weather: clear, windy Temperature: 35°F

Any prior disturbances to water body? (Y/N - Describe): High winds, wave action

Visual turbidity observations (Sketch below if turbidity present):  
NA

Instrument monitoring performed? (Y/N): (N)

Daily meter calibration performed? (Y/N - Describe): (N)

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: xx/xx/xxxx					
Monitoring Station	Reference Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	500 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
Bottom	Initial				
	Confirm				
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

*Visual Only Monitoring*

Field Notes (If necessary):

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Monitoring Personnel: Nick Butish

Date: 11/20/24

Construction Activity  
During Monitoring: Piling pulling

Activity Start Time: 13:00

**Current Field Conditions**

Weather: overcast, WPT

Temperature: 49°F

Any prior disturbances to water body?  
(Y/N) - Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: cal check performed

Field Notes (If necessary):  
Detailed field notes collected in notebook

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
\_\_\_\_\_  
\_\_\_\_\_

Was Ecology notified of exceedances and action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Did turbidity return to background after correction action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?  
\_\_\_\_\_  
\_\_\_\_\_



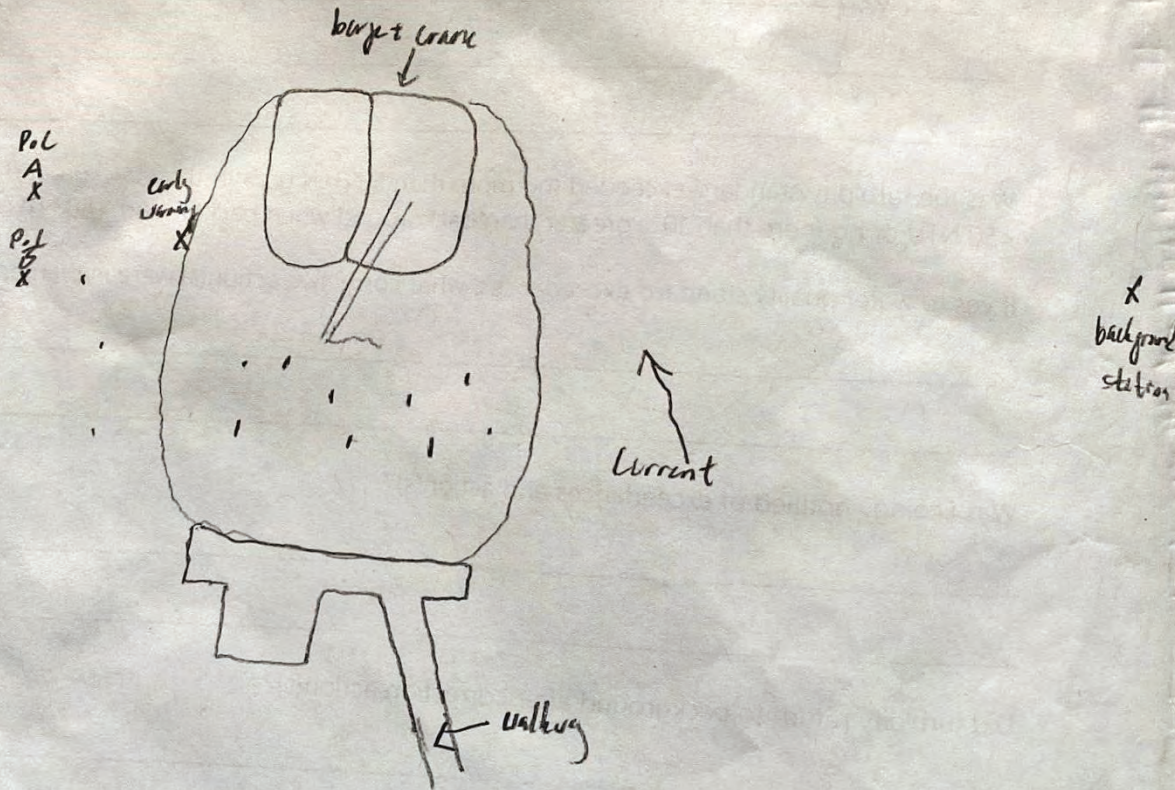
Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were observed inside work area and were contained by booms.

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



**Daily Water Quality Monitoring Form**

Monitoring Station		40 ft Background Station	36 ft Early Warning Station	36 ft Point of Compliance Station A	31 ft Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		13:15	13:32	13:45	14:00	
Northing		47.27777	47.27846	47.27859	47.27860	
Easting		-122.46787	-122.46287	-122.45057	-122.47068	
Tide Status		low	low	low	low	
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	0.57	1.32	0.87	0.66
		Confirm	0.57	0.71	0.67	0.62
	Exceedance/Elevation (Yes or No)		No	No	No	No
	Middle	Initial	0.67	0.69	0.69	0.91
		Confirm	0.55	0.60	0.50	0.85
	Exceedance/Elevation (Yes or No)		No	No	No	No
	Bottom	Initial	0.84	0.57	0.69	0.54
		Confirm	0.62	0.88	0.52	0.65
	Exceedance/Elevation (Yes or No)		No	No	No	No
	Visible turbidity evident?		No	No	No	No
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		NONE	NONE	NONE	NONE

Monitoring Personnel: Nick Borish, George Stone

Date: 11/21/24

Construction Activity

During Monitoring: Pile Removal

Activity Start Time: 08:00

Current Field Conditions

Weather: overcast, calm water

Temperature: 47°F

Any prior disturbances to water body?

(Y/N) - Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: No sample collection

Field Notes (If necessary):

Detailed field notes collected in notebook.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

Was Ecology notified of exceedances and action(s)?

Did turbidity return to background after correction action(s)?

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were observed at work area. Occasional sheens were observed  
which began. When observed, work was stopped until sheen was fully contained.

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:

Monitoring Personnel: Nick British Large Stone Date: 11/22/24

Construction Activity During Monitoring: Pipe install Activity Start Time: 07:45

**Current Field Conditions**

Weather: Cloudy Temperature: 48°F

Any prior disturbances to water body? (Y/N - Describe): water color higher than 11/20 samples

Daily meter calibration performed? (Y/N - Describe): cal check

Field Notes (If necessary):  
Detailed field notes collected in notebooks available upon request.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
\_\_\_\_\_  
\_\_\_\_\_

Was Ecology notified of exceedances and action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Did turbidity return to background after correction action(s)?  
\_\_\_\_\_  
\_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?  
\_\_\_\_\_  
\_\_\_\_\_

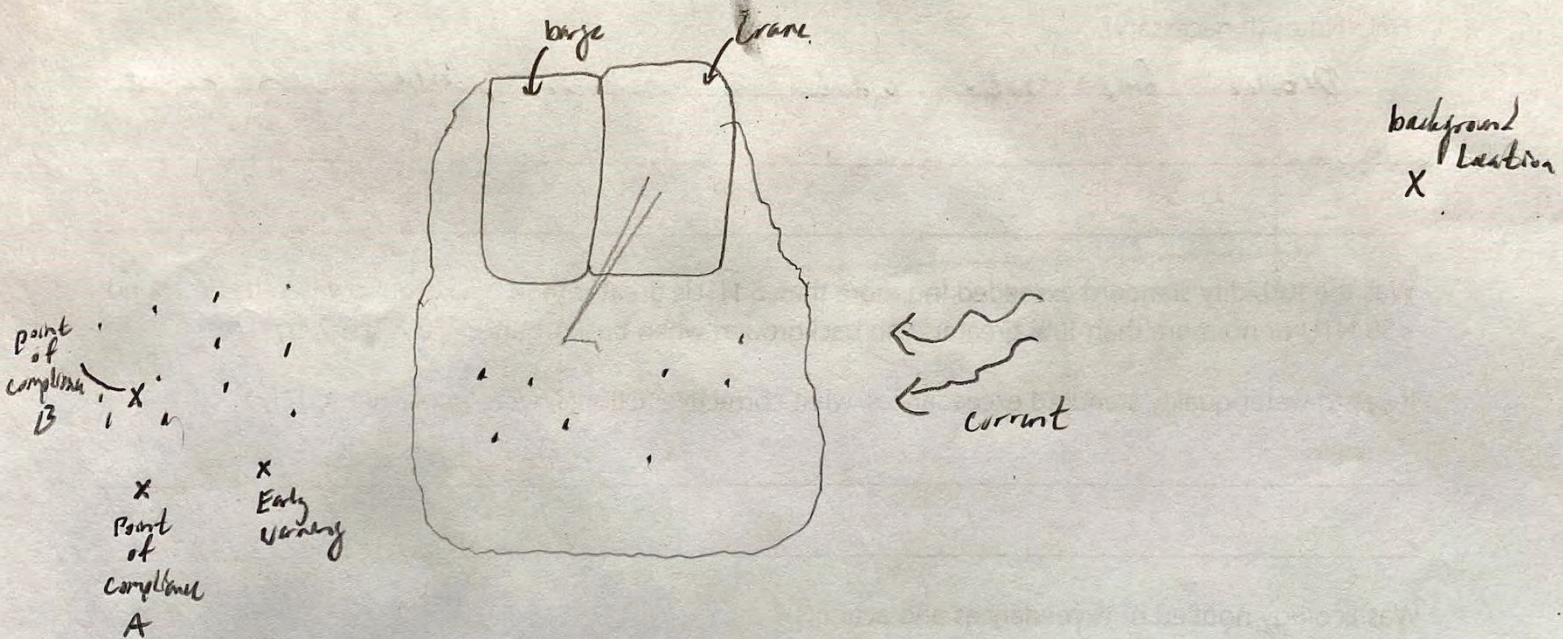
Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were observed in side of the boom. Minor amounts of sheen were observed outside the boom were immediately contained by boom.

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



**Daily Water Quality Monitoring Form**

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		09:08	09:22	09:37	09:45	
Northing		47.27746	47.27701	47.27744	47.27820	
Easting		-122.46823	-122.47107	-122.47126	-122.47130	
Tide Status		incoming	incoming	incoming	incoming	
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	3.13	2.78	2.33	1.79
		Confirm	3.03	2.13	2.40	1.80
	Exceedance/Elevation (Yes or No)		—	No	No	No
	Middle	Initial	1.35	1.17	1.81	1.00
		Confirm	1.47	1.20	1.83	1.02
	Exceedance/Elevation (Yes or No)		—	No	No	No
	Bottom	Initial	1.11	1.87	1.84	1.21
		Confirm	1.14	2.18	1.60	1.25
	Exceedance/Elevation (Yes or No)		✓	No	No	No
	Visible turbidity evident?		No	No	No	No
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No	

Dickman Mill

11/20/24

NB, LS

Sunny, 50°

On the water @ 10:10

• Piling removal began @ 10:10

• Use of chainsaw on first piling

• Current being west

• Boom open on west end. Orion closed before first piling

• ~~Use~~ remarks

- Boom closed @ 11:00

•

• Piling removal began @ 10:10. chainsaw piling fell into the water after removal @ 11:34 before being removed by crane. Material from inside piling fell into water inside the boom arch.

• Pile removal start @ 11:55

• Orion / KPFF is removing floating debris from boom area

• Collected measurements from 13:15 - 14:00, no excursions observed.

• lots of snags observed on the pilings being removed

• Workers expanded boom to allow for piling partially outside @ 15:08

NB, 05

Partly cloudy, 45°F

11/21/24

On the water at 8:00 AM, Piling was being pulled. Circled perimeter of boom and did not see any plumes.  
- only pulling, no vibratory removal as of 08:45

- 09:10 - Crane is having a difficult time removing piles. Trying to pull.
- 09:30 - observed small (~5 sqft) oil sheen within boom after piling was pulled.
- 09:56 - oil sheen observed on landward side of work area within boom. Notified Herrera PM + KPFF.
- 10:21 - Piling snapped in half during removal, most removed submerged.
- 10:25 - Another piling snapped in half.
- 10:45 - sheen on landward side of work area has disappeared but been absorbed by boom. Some areas of sheen remain near pilings being pulled. No visible turbidity plumes.
- 10:50 - Orion crew switched to vibratory apparatus and used it on a single piling.
- 11:00 - resumed pulling pilings. No sea-life on vibrated piling.
- 11:11 - No mud has been observed on pilings.
- 11:23 - sulfur odor after piling removed ~15ft from piling.
- 11:30 - Another piling snapped in half during removal. Lower boom still entangled.
- 11:41 - Orion has been adjusting boom to appropriately allow spacing between pilings being removed and the boom.
- 11:51 - sheen ~~not~~ appearing within boom immediately after piling removal. None observed outside of boom. Notified Herrera PM.
- 13:00 - some sheen observed outside of boom. Notified Orion, Herrera, + KPFF. Additional boom installed + sheen was contained or cleared up. Sheen splatters were near the overlook area.

NB, 15  
 Lang 48°F

Arrived onsite @ 7:30  
 First piling pulled @ 7:45

- ~~7:30~~ More waves than yesterday. Tide is rising.
- 7:30 - observed site from overlook, no visible shear
- 8:20 - boatel around perimeter, no shear or turbid water

pile pulling

9:00 background sample  
 Depth: 15 ft Lat/long: 47.27746  
 -122.46823

3' : 3.13 NTU 3.03 NTU  
 8' : 1.35 NTU 1.47 NTU  
 12' : 1.11 NTU 1.14 NTU

100' sample @ 9:22 Depth 13 ft Lat/long: 47.27801  
 -122.47107

3' : 2.78 NTU 2.53 NTU No  
 6' : 1.17 NTU 1.20 NTU No  
 10' : 1.07 NTU 2.18 NTU No

150' sample @ 9:37 Depth 13 ft Lat/long: 47.27794  
 -122.47126

3' : 2.37 NTU 2.40 NTU No  
 6' : 1.81 NTU 1.83 NTU No  
 10' : 1.84 NTU 1.60 NTU No

150' sample B @ 9:45 Depth 14 ft Lat/long: 47.27820  
 -122.47130

3' : 1.74 NTU 1.80 NTU No  
 7' : 1.00 NTU 1.02 NTU No  
 11' : 1.28 NTU 1.25 NTU No

No visual plume or debris

11:00 - Sheen observed north basin after pile removal. No sheen observed outside. No visible sediment plumes.

11:30 - several more plings pulled. Hammer used for one. No additional sheen or turb plume observed. Some residual sheen near boom along western edge of cofferdam. No sheen observed outside of boom.

11:50 - A small area  $> 5\% \text{ of}$  sheen observed outside of boom near starboard side of barge. Notified Orion. Sheen was cleared and additional boom was added. Work was stopped during boom replacement.

12:50 - Work done for the day.

Monitoring Personnel: Jason Andrade, KPFF Date: 11/25

Construction Activity During Monitoring: pile pull, center field. Activity Start Time: 7Am

Current Field Conditions

Weather: overcast Temperature: \_\_\_\_\_

Any prior disturbances to water body? (Y/N - Describe): N

Daily meter calibration performed? (Y/N - Describe): N

Field Notes (If necessary):

A small amount of creosote was noted, Orion, midaged directly.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N )

If yes to water quality standard exceedances, what corrective action(s) were implemented?

visual only

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

N/A

Were any petroleum sheens or distressed or dying fish observed?

no

Were any photographs taken as supporting documentation?

- yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

visual only

Monitoring Personnel: Jason Andrade, KPTF Date: 11/26/24Construction Activity  
During Monitoring: pile pull, center field Activity Start Time: 7 AM**Current Field Conditions**Weather: overcast Temperature: \_\_\_\_\_Any prior disturbances to water body?  
(Y/N - Describe): NDaily meter calibration performed? (Y/N - Describe): NField Notes (If necessary):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt;50 NTU or no more than 10% greater than background when background &gt;50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
visual only  
\_\_\_\_\_Was Ecology notified of exceedances and action(s)?  
N/A  
\_\_\_\_\_Did turbidity return to background after correction action(s)?  
N/A  
\_\_\_\_\_Were there any unusual conditions or critical activities that could have affected water quality?  
N/A  
\_\_\_\_\_

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



Daily Water Quality Monitoring Form

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, floating fish) If yes, describe.					

Visual only



Monitoring Personnel: George Iftner

Date: 11/27/2024

Construction Activity During Monitoring: pulling pile

Activity Start Time: 07:10 AM

Current Field Conditions

Weather: partly cloudy, 10 mph wind from NW

Temperature: 43° F

Any prior disturbances to water body?  
(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): NA - visual monitoring only

Field Notes (If necessary):

Yellow Turbidity curtain and oil absorbent booms in place.  
No petroleum sheen observed. Orion staff in skiff  
drove boat around perimeter of work zone several times to  
check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO - based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NO

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume

NA =

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade, KPFF

Date: 12/02/24

Construction Activity During Monitoring: pile pull, Western Field

Activity Start Time: 7 AM

Current Field Conditions

Weather: overcast

Temperature: 37°

Any prior disturbances to water body?  
(Y/N – Describe): N

Daily meter calibration performed? (Y/N – Describe): N

Field Notes (If necessary):

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N )

If yes to water quality standard exceedances, what corrective action(s) were implemented?

Visual only

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

N/A

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

visual only

Monitoring Personnel: Nick Bartish Date: 12/31/24

Construction Activity During Monitoring: Pile pulling Activity Start Time: 07:30

**Current Field Conditions**

Weather: overcast, calm waters Temperature: 38°F

Any prior disturbances to water body?  
(Y/N) - Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: YSI cal check w/ turb standard

**Field Notes (If necessary):**

No visible sediment plumes on site. Some silt observed but only inside the boom. No silt observed outside work area. Orion crew boated around boom perimeter to confirm.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NA

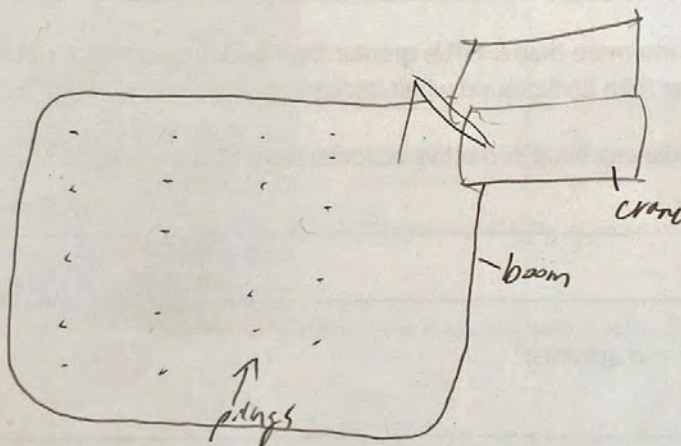
Were any petroleum sheens or distressed or dying fish observed?

Petroleum sheens were contained within boom. No dead/dying fish observed.

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

*Visual*

*Monitoring only*

Monitoring Personnel: Orion, <sup>KPFF Overy phone call</sup> with Jacob.

Date: 12/04/24

Construction Activity During Monitoring: Pile pull, NPC

Activity Start Time: 7 AM

Current Field Conditions

Weather: Overcast, wind 3-4 mph.

Temperature: 35°

Any prior disturbances to water body?

(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): N/A visual monitoring only.

Field Notes (If necessary):

yellow turbidity curtain and oil absorbent booms in place. No petroteam skiff observed. Orion staff in skiff drove boat around work zone several times to check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

No - Based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?

N/A.

Did turbidity return to background after correction action(s)?

N/A.

Were there any unusual conditions or critical activities that could have affected water quality?

NO.

Were any petroleum sheens or distressed or dying fish observed?

NO.

Were any photographs taken as supporting documentation?

yes.

Sketch of project area, sampling locations, and any visible turbidity plume:

W/A.

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Monitoring Personnel: Nick Bartish Date: 12/5/14

Construction Activity  
During Monitoring: Pile pulling Activity Start Time: 07:32

**Current Field Conditions**

Weather: Partly cloudy, calm waters Temperature: 39°F

Any prior disturbances to water body?  
(Y/N) Describe: \_\_\_\_\_

Daily meter calibration performed? (Y/N) Describe: cal check w/ tubs standard

**Field Notes (If necessary):**

No sediment pump observed. Shear observed, but was contained by boom. Orion boated around perimeter of site to maintain boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)?  
NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

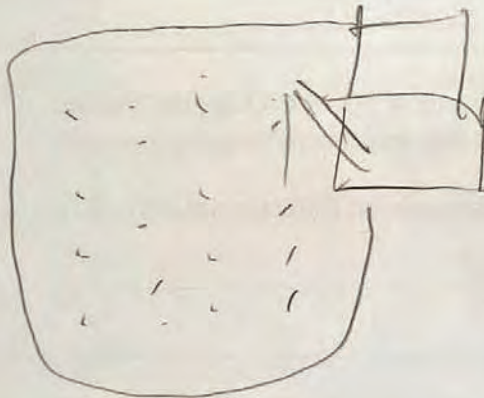
Were any petroleum sheens or distressed or dying fish observed?

Observed petroleum sheens were contained within booms. No  
dead/dying fish observed.

Were any photographs taken as supporting documentation?

Yes. KPFF collected drone footage.

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	<i>Visual Monitoring Only</i>			
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade KPFF Date: 12/06/24

Construction Activity During Monitoring: Pile pull, WPC Activity Start Time: 7 AM

Current Field Conditions

Weather: overcast 1-3 mph wind, NW Temperature: 39°

Any prior disturbances to water body?  
(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): N/A visual monitoring only.

Field Notes (if necessary):

yellow turbidity curtain and oil absorbent booms in place.  
No petroleum sheen observed. Orion staff in skiff  
drove boat around work zone several times to check  
turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO - based on visual monitoring of clear  
Water.

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

No.

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A.

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade Date: 12/09/24Construction Activity During Monitoring: Pile pull, WPC Activity Start Time: 7 AM

## Current Field Conditions

Weather: Mostly sunny wind 4 MPH Temperature: 45°Any prior disturbances to water body?  
(Y/N - Describe): N/ADaily meter calibration performed? (Y/N - Describe): N/A visual monitoring only.

## Field Notes (if necessary):

Yellow turbidity curtain and oil absorbent booms in place. No petroleum sheen observed. Orion staff in skiff drove boat around work zone several times to check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt; 50 NTU or no more than 10% greater than background when background &gt; 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO - based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?

N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

NO.

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					



Monitoring Personnel: Nick Bartish Date: 12/10/24Construction Activity  
During Monitoring: Pile Removal Activity Start Time: 07:30**Current Field Conditions**Weather: Clear Temperature: 38°FAny prior disturbances to water body?  
(Y/N) - Describe: \_\_\_\_\_Daily meter calibration performed? (Y/N - Describe): YSI Calibration checked w/ Job standard

## Field Notes (If necessary):

No visible sediment plumes observed. Petroleum sheen observed inside of work area. No sheen observed outside of boom. Orion maintained boom and occasionally checked the perimeter.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt; 50 NTU or no more than 10% greater than background when background &gt; 50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NA

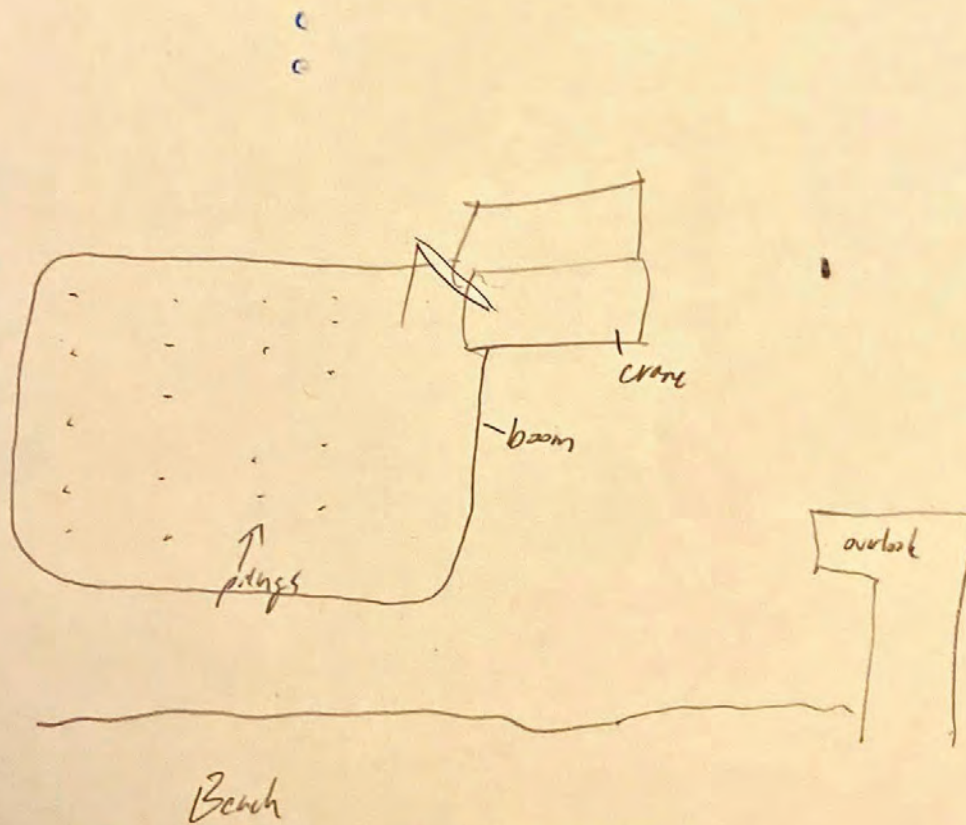
Were any petroleum sheens or distressed or dying fish observed?

No. Petroleum sheens were only observed inside the bay.  
fish were.

Were any photographs taken as supporting documentation?

Yes.

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	<i>Visual Monitoring Only</i>			
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: George Iftner Date: 12/11/24

Construction Activity During Monitoring: Pile pulling - West Dense pile field Activity Start Time: 8:00 AM

**Current Field Conditions**

Weather: cloudy 38° F, dry. Wind from NE 2 mph. Temperature: 38°

Any prior disturbances to water body? (Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): NA

**Field Notes (If necessary):**

G. Iftner onsite 9:15 am - 11:15 am. Yellow silt curtain in place w/oil absorbent boom. 10:50 Orion Swapping out barge that is full.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N )

If yes to water quality standard exceedances, what corrective action(s) were implemented?

No elevated turbidity observed

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NO

Were any petroleum sheens or distressed or dying fish observed?

No sheen observed, no distressed or dying fish

Were any photographs taken as supporting documentation?

YES

Sketch of project area, sampling locations, and any visible turbidity plume:

NA.

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

*visual monitoring only*

Monitoring Personnel: Nick Bartish

Date: 12/12/24

Construction Activity  
During Monitoring: Pile removal

Activity Start Time: 07:30

**Current Field Conditions**

Weather: cloudy, rain early morning

Temperature: 40°F

Any prior disturbances to water body?

(Y/N - Describe): \_\_\_\_\_

Daily meter calibration performed?  Y/N - Describe: YSI cal check w/ turb standard.

Field Notes (If necessary):

No sediment plume observed. Petroleum sheen observed inside boom during pile removal. Sheen was contained by boom. Orion maintained boom + checked for sheen around perimeter.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)?  Y/N

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA

Was Ecology notified of exceedances and action(s)?

NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

NA

Were any petroleum sheens or distressed or dying fish observed?

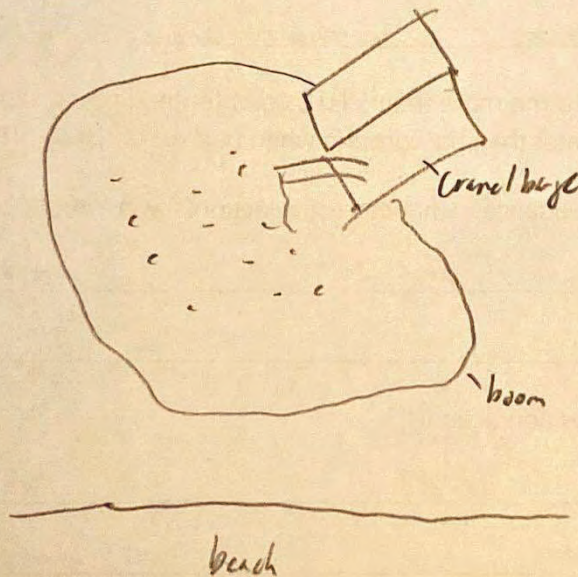
Petroleum sheens were observed but were contained within boom.

No dead/dying fish observed.

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	<i>Visual Monitoring only</i>			
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Monitoring Personnel: Jason Andrade Date: 12/13/24

Construction Activity During Monitoring: Pile pull, WPC Activity Start Time: 7 AM

Current Field Conditions  
Weather: overcast, light rain Temperature: 46°

Any prior disturbances to water body?  
(Y/N - Describe): NO

Daily meter calibration performed? (Y/N - Describe): N/A Visual Monitoring only.

Field Notes (if necessary):  
yellow turbidity curtain and oil absorbent booms in place. No petroleum Sheen observed. Orion staff in skiff drove boat around work zone several times to check turbidity boom.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
No - based on visual monitoring of clear water.

Was Ecology notified of exceedances and action(s)?  
N/A

Did turbidity return to background after correction action(s)?  
N/A

Were there any unusual conditions or critical activities that could have affected water quality?  
NO.

Were any petroleum sheens or distressed or dying fish observed?

No

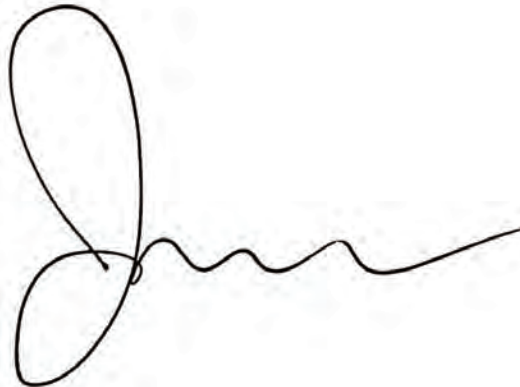
Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time						
Northing						
Easting						
Tide Status						
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Middle	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Bottom	Initial				
		Confirm				
	Exceedance/Elevation (Yes or No)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Jacob Isotalo (Orion) report to Nick Bartish (Herrera) Date: 12/30/2024

Construction Activity

During Monitoring: Diver assisted pile stub/debris removal \_\_\_\_\_ Activity Start Time: all day \_\_\_\_\_

Weather: cloudy, wind 5-10 mph \_\_\_\_\_ Temperature: 48 F \_\_\_\_\_

Any prior disturbances to water body? (Y/N – Describe): No \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):

None present \_\_\_\_\_

Instrument monitoring performed? (Y/N): No \_\_\_\_\_

Daily meter calibration performed? (Y/N – Describe): NA \_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NA \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA \_\_\_\_\_

Was Ecology notified of exceedances and action(s)? (Y/N) NA \_\_\_\_\_

Did turbidity return to background after correction action(s)?

NA \_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?

No \_\_\_\_\_

Were any petroleum sheens or distressed or dying fish observed?

Sheen occasionally inside adsorbent boom but none outside; no fish observed \_\_\_\_\_

Were any photographs taken as supporting documentation?

No \_\_\_\_\_

Sketch of project area, sampling locations, and any visible turbidity plume:

NA

Turbidity Monitoring Data Form for Date: 12/30/2024

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	NA	NA	NA	NA		
Northing						
Easting						
Tide Status						
Turbidity Readings (NTUs) at Depths	Surface	Initial				
		Confirm				
	Exceed Bkgd (Y/N)					
	Middle	Initial				
		Confirm				
	Exceed Bkgd (Y/N)					
	Bottom	Initial				
		Confirm				
	Exceed Bkgd (Y/N)					
	Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: \_Shawree Zhang\_\_\_\_\_ Date: \_12/31/2024\_\_\_\_\_

Construction Activity

During Monitoring: \_\_ Diver assisted pile stub/debris removal\_\_\_\_\_ Activity Start Time: \_all day\_\_\_\_\_

Weather: \_Cloudy\_\_\_\_\_ Temperature: \_38 F\_\_\_\_\_

Any prior disturbances to water body? (Y/N – Describe): \_\_\_\_ No\_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):

\_\_None present\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_No\_\_\_\_\_

Daily meter calibration performed? (Y/N – Describe): \_N/A\_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) \_\_N/A\_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A\_\_\_\_\_

Was Ecology notified of exceedances and action(s)? (Y/N) \_\_N/A\_\_\_\_\_

Did turbidity return to background after correction action(s)?

\_\_N/A\_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?

\_\_Hydraulic jet cutter observed in use\_\_\_\_\_

Were any petroleum sheens or distressed or dying fish observed?

\_\_Slight sheen inside oil boom, none outside. No fish observed\_\_\_\_\_

Were any photographs taken as supporting documentation?

\_\_Yes\_\_\_\_\_

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A\_\_\_\_\_

Turbidity Monitoring Data Form for Date: 12/31/2024

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time		N/A	N/A	N/A	N/A
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Shawree Zhang Date: 01/02/2025

Construction Activity

During Monitoring: Diver assisted pile stub/debris removal Activity Start Time: all day

Weather: Cloudy, drizzly Temperature: 47 F

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):

None present

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): N/A

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

Hydraulic jet cutter observed in use

Were any petroleum sheens or distressed or dying fish observed?

Slight sheen inside oil boom, slight sheen observed outside at 10:50 am, oil boom was adjusted and sheen disappeared. No fish observed

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

Turbidity Monitoring Data Form for Date: 1/2/25

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time		N/A	N/A	N/A	N/A
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Field Notes (If necessary):

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Monitoring Personnel: Kellie Jaenicke Date: 4/3/25Construction Activity  
During Monitoring: pile removal Activity Start Time: 07:30**Current Field Conditions**Weather: cloudy, rain Temperature: 50°

Any prior disturbances to water body?

(Y/N – Describe): NODaily meter calibration performed? (Y/N – Describe): NOField Notes (If necessary):  

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Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt;50 NTU or no more than 10% greater than background when background &gt;50 NTUs)? (Y/N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NO  

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Was Ecology notified of exceedances and action(s)?

NO  

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Did turbidity return to background after correction action(s)?

NO  

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Were there any unusual conditions or critical activities that could have affected water quality?

No  

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/06/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

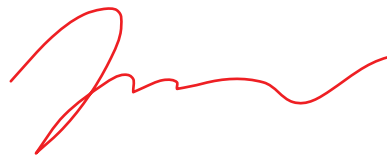
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time				
Northing				
Easting				
Tide Status				
Turbidity Readings (NTUs) at Depths	Surface	Initial		
		Confirm		
	Exceed Bkgd (Y/N)			
	Middle	Initial		
		Confirm		
	Exceed Bkgd (Y/N)			
	Bottom	Initial		
Confirm				
Exceed Bkgd (Y/N)				
Visible turbidity evident?				
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Bortish Date: 1/7/25

Construction Activity  
During Monitoring: Diver Assisted Pile Removal Activity Start Time: 07:30

Weather: Partly cloudy Temperature: 38°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
No turbidity observed

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: Cal check with turbidity standard.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NA

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
Petroleum sheens observed only within the boom. No distressed or dead fish observed

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

*Visual Monitoring Only*

 Field Notes (If necessary):
 

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Mill Bartish Date: 1/11/24

Construction Activity During Monitoring: Dive assisted pile pulling Activity Start Time: 09:30

Weather: Partly cloudy Temperature: 31°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
NA

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: cal check w/ turb standard

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

Were any petroleum sheens or distressed or dying fish observed?  
No petroleum sheens observed outside of boom. No distressed or dying fish.

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: <i>xx/xx/xxxx</i>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Visible turbidity evident?				
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

*Visual*

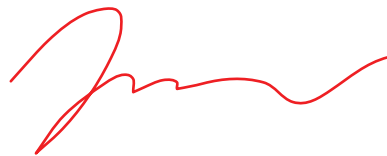
*Only Monitor*

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/10/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

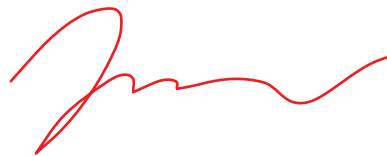
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time				
Northing				
Easting				
Tide Status				
Turbidity Readings (NTUs) at Depths	Surface	Initial		
		Confirm		
	Exceed Bkgd (Y/N)			
	Middle	Initial		
		Confirm		
	Exceed Bkgd (Y/N)			
	Bottom	Initial		
Confirm				
Exceed Bkgd (Y/N)				
Visible turbidity evident?				
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

Field Notes (If necessary):

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/13/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 41

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

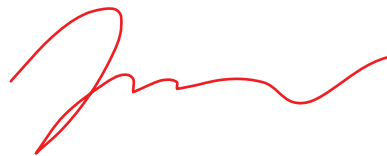
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Burtish, David Gault Date: 1/14/25

Construction Activity  
During Monitoring: Diver removal w/ Air Pump Activity Start Time: 7:47

Weather: overcast Temperature: 36°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
no

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: YSI cal check with turbidity standard + DI water

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:  
see back

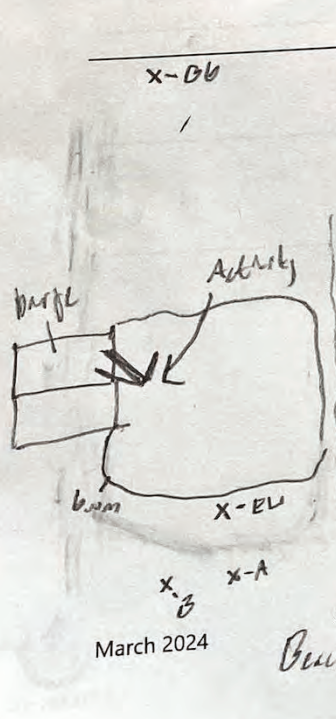
1/14/25

4.50A

Turbidity Monitoring Data Form for Date: xx/xx/xxxx						
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	8:45	8:55	9:10	09:22		
Northing	47.2774667	47.2775894	47.2787663	47.2787742		
Easting	-122.4724643	-122.472381	-122.472364	-122.4726305		
Tide Status	outgoing	absent	absent	outgoing		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.00 NTU	0.38 NTU	0.50 NTU	0.38 NTU
		Confirm	0.01 NTU	0.28 NTU	0.48 NTU	0.40 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.91 NTU	0.04 NTU	0.12 NTU	0.20 NTU
		Confirm	0.84 NTU	0.05 NTU	0.08 NTU	0.29 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.92 NTU	0.56 NTU	0.44 NTU	0.30 NTU
		Confirm	0.87 NTU	0.53 NTU	0.36 NTU	0.29 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	No	No	No
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No

Field Notes (If necessary):

No excursions observed.



	BG	EW	PLA	PLB
0.5	0.01	0.38	0.50	0.38
1	0.90	0.15	0.30	0.51
1.5	0.93	0.01	0.38	0.55
2	0.41	0.04	0.12	0.30
2.5	0.88	0.45	0.18	0.25
3	0.85	0.40	0.45	0.54
3.5	0.92	0.56	0.44	0.08
4	2.3	1.50	1.4	0.3
4.5	bottom	bottom	bottom	bottom

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Batish, David Lewis Date: 11/15/25

Construction Activity During Monitoring: Diver removal of pile cap Activity Start Time: 07:45

Weather: Overcast Temperature: 40

Any prior disturbances to water body? (Y/N - Describe): \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
NA

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): cal check w/ turbidity standard + DI water.

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) N

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
Petroleum sheen contained within boom. NO dead/dying fish observed.

Were any photographs taken as supporting documentation?  
Yes

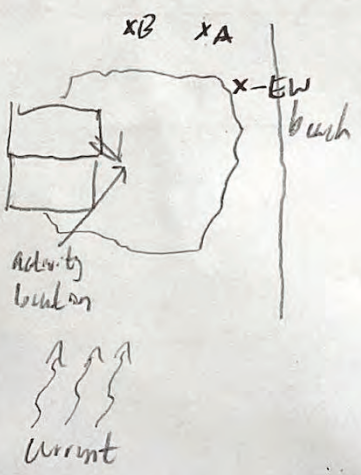
Sketch of project area, sampling locations, and any visible turbidity plume:  
see back

1/18/24

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>						
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	12:40	12:51	12:58	13:06		
Northing	47.2792845	47.2781012	47.2780364	47.2780726		
Easting	-122.4735114	-122.4712522	-122.4707788	-122.4701860		
Tide Status	incoming	incoming	incoming	incoming		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.80 NTU	0.90 NTU	0.93 NTU	0.62 NTU
		Confirm	0.81 NTU	0.86 NTU	0.89 NTU	0.57 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.74 NTU	0.71 NTU	0.75 NTU	0.20 NTU
		Confirm	0.71 NTU	0.83 NTU	0.72 NTU	0.30 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.61 NTU	0.74 NTU	0.80 NTU	0.42 NTU
		Confirm	0.66 NTU	0.65 NTU	0.81 NTU	0.52 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	No	No	No
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	sheen observed, origin not identified + contained it	No	No

Field Notes (If necessary):

sheen observed outside boom @ EW station. Origin not immediately identified + sheen was contained with additional boom.



	B6	EW	A	B
0.5	0.8	0.9	0.93	0.62
1	0.81	0.17	0.43	0.45
1.5	0.76	0.79	0.75	0.2
2	0.74	0.75	0.81	0.19
2.5	0.68	0.79	0.80	0.12
3	0.70	2.8	1.12	0.42
3.5	0.69	bottom	bottom	0.30
4	2.31			
	bottom			

X5  
B6

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**Monitoring Personnel: Nick Barbish Date: 1/16/25Construction Activity  
During Monitoring: Diver removal of old piling Activity Start Time: 07:30Weather: Foggy, light mist Temperature: 39°F

Any prior disturbances to water body? (Y/N) Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
No turbidity observed

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: Cal check with turbidity standard.Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NAIf yes to water quality standard exceedances, what corrective action(s) were implemented?  
NAWas Ecology notified of exceedances and action(s)? (Y/N) NADid turbidity return to background after correction action(s)?  
NAWere there any unusual conditions or critical activities that could have affected water quality?  
NoWere any petroleum sheens or distressed or dying fish observed?  
Petroleum sheens observed only within the boom. No distressed or dead fish observedWere any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Visible turbidity evident?				
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

*Visual*  
*Only*  
*Monitoring*

Field Notes (If necessary):

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/17/25

Construction Activity  
During Monitoring: Diver assisted Pile Removal Activity Start Time: 7 Am

Weather: Sunny Temperature: 42

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?  
No

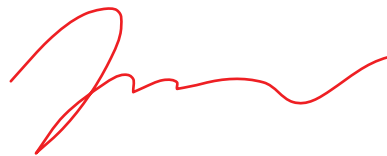
Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

 Field Notes (If necessary):
   
  
 \_\_\_\_\_
   
  
 \_\_\_\_\_



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**Monitoring Personnel: Shawree Zhang Date: 1/21/2025

Construction Activity

During Monitoring: Diver assisted pile removal Activity Start Time: All dayWeather: Sunny, clear Temperature: 40Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):

None observed outside of boomInstrument monitoring performed? (Y/N): NoDaily meter calibration performed? (Y/N – Describe): NA – visual monitoring onlyWas the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/AWas Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

N/A

Were any petroleum sheens or distressed or dying fish observed?

Faint oil sheen observed within oil boom, none observed outside, no distressed or dead fish observed

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

**Turbidity Monitoring Data Form for Date: 01/21/2025**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	NA – visual monitoring only					
Northing						
Easting						
Tide Status						
Turbidity Readings (NTUs) at Depths					Surface	Initial
						Confirm
					Exceed Bkgd (Y/N)	
					Middle	Initial
						Confirm
					Exceed Bkgd (Y/N)	
Bottom	Initial					
	Confirm					
Exceed Bkgd (Y/N)						
Visible turbidity evident?						
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.						

 Field Notes (If necessary):
 

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/22/25

Construction Activity  
During Monitoring: Diver Assisted Pile Removal Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):  
No- based on visual monitoring of clear water. Per call in to Orion.

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
\_\_\_\_\_

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **xx/xx/xxxx**

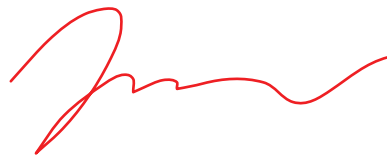
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
Confirm					
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

Field Notes (If necessary):

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: D. Garcia, S. Zhang Date: 1/28/25  
Construction Activity During Monitoring: Sand/gravel placement Activity Start Time: 7:00 AM  
Weather: cloudy Temperature: 29° F  
Any prior disturbances to water body? (Y/N – Describe): NO  
Visual turbidity observations (Sketch below if turbidity present):

Instrument monitoring performed? (Y/N): Y  
Daily meter calibration performed? (Y/N – Describe): calibration checked

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) NO

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?  
N/A

Were there any unusual conditions or critical activities that could have affected water quality?  
NO

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

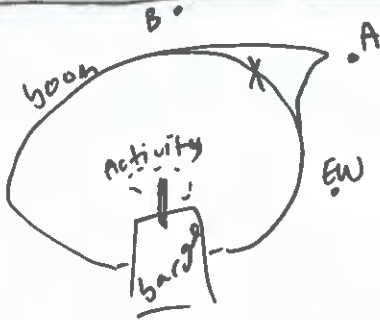
Sketch of project area, sampling locations, and any visible turbidity plume:  
See back

Turbidity Monitoring Data Form for Date: 1/28/25						
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	13:06	13:30	13:52	14:06		
Northing	47.2781209	47.2789690	47.2787741	47.2783360		
Easting	-122.4698199	-122.4726506	-122.4730164	-122.4722711		
Tide Status	incoming	incoming	incoming	incoming		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.45 NTU	0.38 NTU	0.17 NTU	0.28 NTU
		Confirm	0.41 NTU	0.45 NTU	0.21 NTU	0.25 NTU
	Exceed Bkgd (Y/N)		—	NO	NO	NO
	Middle	Initial	0.21 NTU	0.7 NTU	0.36 NTU	0.32 NTU
		Confirm	0.16 NTU	0.9 NTU	0.38 NTU	0.30 NTU
	Exceed Bkgd (Y/N)		—	NO	NO	NO
	Bottom	Initial	2.0 NTU	3.5 NTU	2.0 NTU	1.12 NTU
		Confirm	1.87 NTU	3.48 NTU	1.87 NTU	1.58 NTU
	Exceed Bkgd (Y/N)		—	NO	NO	NO
	Visible turbidity evident?		NO	NO	NO	NO
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		NO	NO	NO	NO	

Field Notes (If necessary):

NO exceedances observed

beach



Depth	BG	EW	A	B
0.5	0.45	0.38	0.17	0.28
1	0.28	0.42	0.20	0.3
1.5	0.18	0.4	0.37	0.32
2	0.20	0.4	0.36	0.35
2.5	0.23	0.7	1.1	0.9
3	0.21	1.08	1.05	1.12
3.5	0.18	1.1	1.5	—
4	0.21	1.1	2.0	—
4.5	0.31	1.8	—	—
5.	0.2	3.8	—	—
5.5	0.35	3.5	—	—
6	2.0	—	—	—

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: D. Garcia, S. Zhang Date: 1/28/25  
Construction Activity  
During Monitoring: laying sand + gravel Activity Start Time: 7:00 AM  
Weather: cloudy Temperature: 27°F  
Any prior disturbances to water body? (Y/N – Describe): No  
Visual turbidity observations (Sketch below if turbidity present):

Instrument monitoring performed (Y/N): (Y)

Daily meter calibration performed? (Y/N – Describe): Calibration checked

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) No

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

No

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

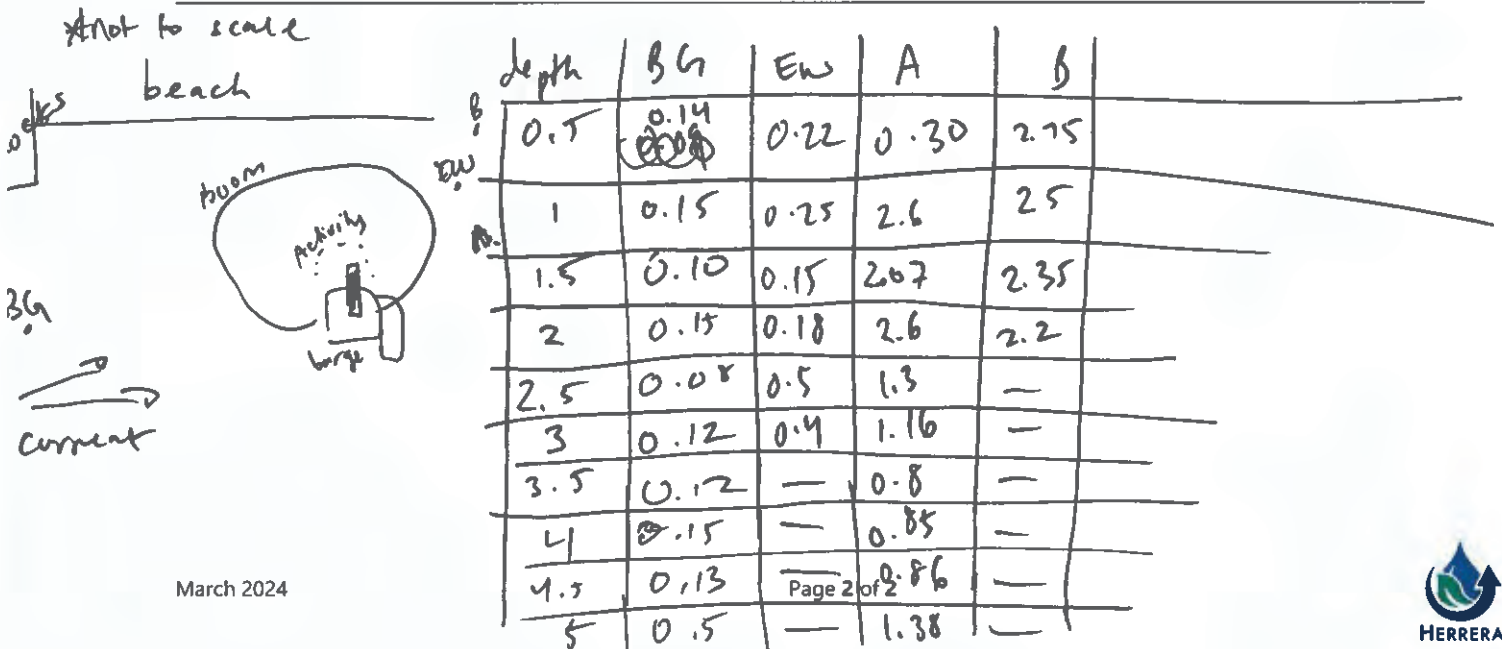
Sketch of project area, sampling locations, and any visible turbidity plume:

See back

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u> <u>1/28/25</u>						
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	8:23	9:07	9:30	10:05		
Northing	47.2781417	47.2790615	47.2795520	47.2789633		
Easting	-122.4699681	-122.4733547	-122.4735159	-122.4736138		
Tide Status	Outgoing	outgoing	outgoing	outgoing		
Turbidity Readings (NTUs) at Depths	Surface	Initial	<del>0.14</del> NTU 0.14	0.22 NTU	0.30 NTU	2.75 NTU
		Confirm	0.12	0.20 NTU	0.28 NTU	2.80 NTU
	Exceed Bkgd (Y/N)			No	No	No
	Middle	Initial	0.08 NTU	0.15 NTU	1.3 NTU	2.5 NTU
		Confirm	0.14 NTU	0.20 NTU	1.3 NTU	2.62 NTU
	Exceed Bkgd (Y/N)			No	No	No
	Bottom	Initial	0.5 NTU	0.4 NTU	1.38 NTU	2.2 NTU
		Confirm	0.28 NTU	0.45 NTU	1.41 NTU	2.18 NTU
	Exceed Bkgd (Y/N)			No	No	No
	Visible turbidity evident?			NO	NO	NO
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.			NO	NO	NO	

Field Notes (If necessary):

No exceedances observed



**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Portish, David Garcia Date: 11/29/25

Construction Activity During Monitoring: Sand/gravel placement Activity Start Time: 07:30

Weather: Clear skies Temperature: 36°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
Turbidity observed near shoreline

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: 2-point calibration

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) N

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

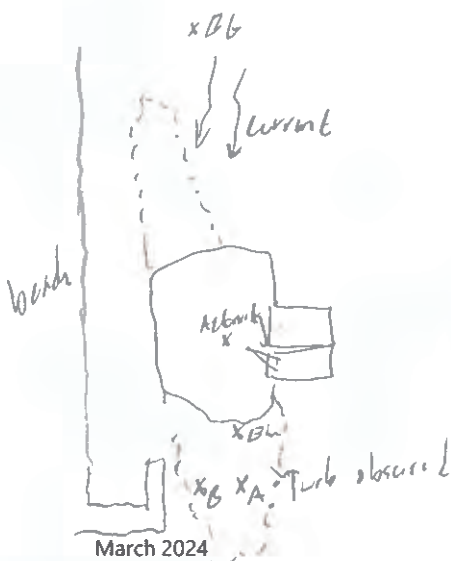
Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:  
see back

Turbidity Monitoring Data Form for Date: <u>1/1</u>						
Monitoring Station	5.5m Background Station	3.5 Early Warning Station	2.5 Point of Compliance Station A	3.5 Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	12:36	12:47	12:53	13:00		
Northing	47,2744998	47,2781767	47,2781142	47,2779997		
Easting	-122,4737037	-122,470962	-122,4706476	-122,4702270		
Tide Status	incoming	incoming	incoming	incoming		
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.53 NTU	0.40 NTU	0.42 NTU	0.37 NTU
		Confirm	0.58 NTU	0.13 NTU	0.42 NTU	0.21 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.89 NTU	1.90 NTU	1.32 NTU	1.50 NTU
		Confirm	0.85 NTU	1.70 NTU	1.42 NTU	1.45 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.61 NTU	3.09 NTU	3.50 NTU	3.20 NTU
		Confirm	0.56 NTU	2.78 NTU	3.80 NTU	3.18 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	Yes	Yes	Yes
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No	

Field Notes (If necessary):



depth(m)	BB	EW	A	B
0.5	0.53	0.40	0.42	0.37
1	0.61	1.5	1.40	0.25
2	0.96	1.90	1.32	1.50
3	1.03	3.09	3.50	3.20
4	0.72	bottom	bottom	bottom
5	0.61			
	bottom			

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**Monitoring Personnel: Nick British, David Garret Date: 1/29/25Construction Activity  
During Monitoring: Gravel/sand piling Activity Start Time: 07:30Weather: Foggy Temperature: 33°F

Any prior disturbances to water body? (Y/N) Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
Turbidity observed downstream of work area

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) Describe: 2-point calibration

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt;50 NTU or no more than 10% greater than background when background &gt;50 NTUs)? (Y/N) \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NAWas Ecology notified of exceedances and action(s)? (Y/N) NADid turbidity return to background after correction action(s)?  
NAWere there any unusual conditions or critical activities that could have affected water quality?  
NAWere any petroleum sheens or distressed or dying fish observed?  
No.Were any photographs taken as supporting documentation?  
YesSketch of project area, sampling locations, and any visible turbidity plume:  
see back

*1/19/24*

Turbidity Monitoring Data Form for Date: **1/19/24**

Monitoring Station		7 m depth Background Station	3.5 m depth Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		08:34	08:50	08:56	09:02	
Northing		47.2777462	47.2777621	47.2779228	47.2790050	
Easting		-122.4689314	-122.4730553	-122.4732343	-122.4732219	
Tide Status		outgoing	outgoing	outgoing	outgoing	
Turbidity Readings (NTUs) at Depths	Surface	Initial	0.17 NTU	1.62 NTU	1.30 NTU	2.45 NTU
		Confirm	0.18 NTU	1.61 NTU	1.32 NTU	2.02 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	0.25 NTU	0.76 NTU	1.29 NTU	1.92 NTU
		Confirm	0.22 NTU	0.60 NTU	1.33 NTU	1.78 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	0.35 NTU	2.0 NTU	1.14 NTU	1.66 NTU
		Confirm	0.30 NTU	2.02 NTU	1.12 NTU	1.65 NTU
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	Yes	Yes	Yes
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	non compl. orlon rubbish.	No	No	

Field Notes (if necessary):

*turb observed*

Some wave action. Change in water color downcurrent of activity.

No turbidity exceedences observed during initial monitoring



depth(m)	B6	EW	A	B
0m	0.17	1.62	1.30	2.45
1	0.19	0.87	1.50	2.80
2	0.20	0.76	1.29	1.92
3	0.22	2.0	1.14	1.45
3.5	0.25	bottom	bottom	
4	0.24			bottom
5	0.24			
6	0.25			
6.5	0.35			

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: Nick Bartish Date: 1/30/25

Construction Activity During Monitoring: Gravel / sand placement Activity Start Time: 07:30

Weather: Partly cloudy Temperature: 38°F

Any prior disturbances to water body? (Y/N) - Describe: \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
yes

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N) - Describe: \_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) NA

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

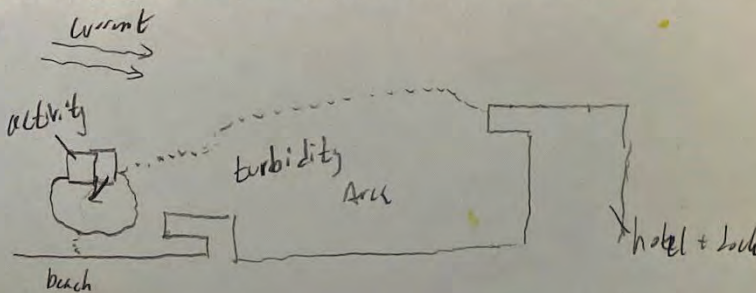
Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
No

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
yes

Sketch of project area, sampling locations, and any visible turbidity plume:



Turbidity Monitoring Data Form for Date: <span style="background-color: yellow;">                    </span>					
Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Bottom	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Visible turbidity evident?				
	Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

Visual Monitoring

Field Notes (If necessary):

Area of turbidity has increased. Previous two days of mirrored monitoring showed all readings within turbid area were under 4 NTUs. Herrera staff notified PM of the increased size of plume.

Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Jason Andrade Date: 1/31/25

Construction Activity During Monitoring: Sand and gravel placement Activity Start Time: 7 Am

Weather: Overcast Temperature: 49

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):

**Yes, turbidity was observed and instrumented monitoring will resume to assess if turbidity is associated with the wok.**

Instrument monitoring performed? (Y/N): No

Daily meter calibration performed? (Y/N – Describe): Visual Only

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?

NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?

NA

Were there any unusual conditions or critical activities that could have affected water quality?

Were any petroleum sheens or distressed or dying fish observed?

No

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: **01/31/2025**

Monitoring Station	Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time				
Northing				
Easting				
Tide Status				
Turbidity Readings (NTUs) at Depths	Surface	Initial		
		Confirm		
	Exceed Bkgd (Y/N)			
	Middle	Initial		
		Confirm		
	Exceed Bkgd (Y/N)			
	Bottom	Initial		
Confirm				
Exceed Bkgd (Y/N)				
Visible turbidity evident?				
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.				

Field Notes (If necessary):

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Monitoring Personnel: C. Ifner, S. Zhang

Date: 2/4/25

Construction Activity During Monitoring: Sand + gravel placement

Activity Start Time: 7:00 AM  
Monitoring start: 8:00 AM

**Current Field Conditions**

Weather: Partly sunny,

Temperature: \_\_\_\_\_

Any prior disturbances to water body?  
(Y/N - Describe): No

Daily meter calibration performed? (Y/N - Describe): calibration check

Field Notes (If necessary):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) NO

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
N/A  
\_\_\_\_\_  
\_\_\_\_\_

Was Ecology notified of exceedances and action(s)?  
N/A  
\_\_\_\_\_  
\_\_\_\_\_

Did turbidity return to background after correction action(s)?  
N/A  
\_\_\_\_\_  
\_\_\_\_\_

Were there any unusual conditions or critical activities that could have affected water quality?  
NO  
\_\_\_\_\_  
\_\_\_\_\_

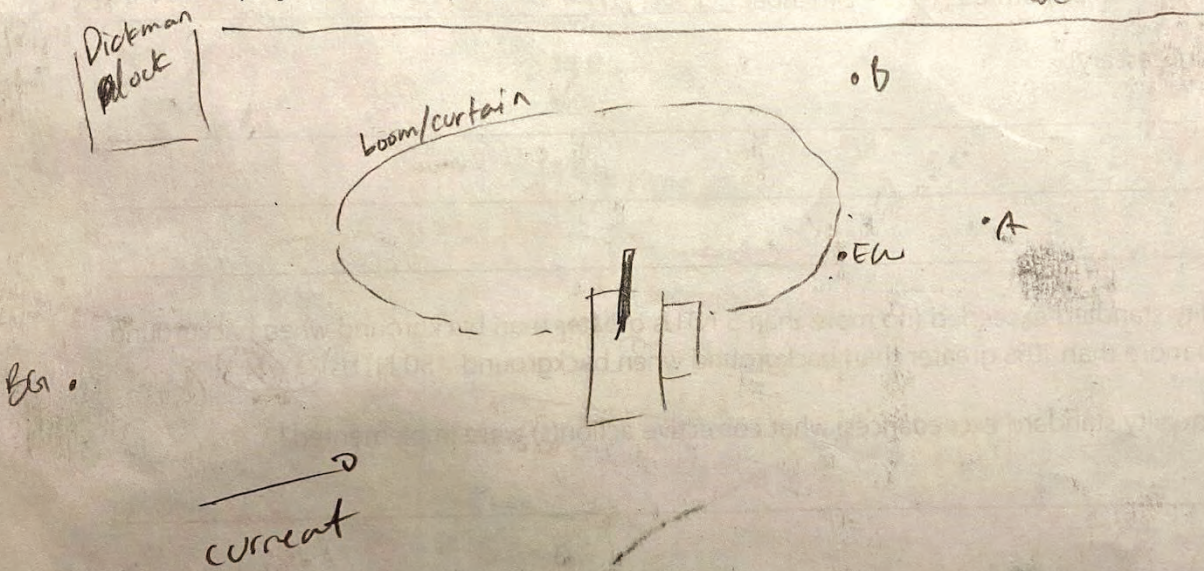
Were any petroleum sheens or distressed or dying fish observed?

*No*

Were any photographs taken as supporting documentation?

*Yes*

Sketch of project area, sampling locations, and any visible turbidity plume: *beach*



Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		8:30	9:00	9:16	9:35	
Northing		47.2781540	47.2786283	47.2788478	47.2785989	
Easting		-122.4696894	-122.4722898	-122.4726104	-122.4722959	
Tide Status		High tide, incoming	high, outgoing	outgoing	outgoing	
Water Quality Monitoring Turbidity Readings (NTUs)	Surface	Initial	0.0	0.0	0.0	
		Confirm	0.0	0.03	0.01	
	Exceedance/Elevation (Yes or No)		—	NO	NO	NO
	Middle	Initial	0.11	0.0	0.01	0.01
		Confirm	0.01	0.0	0.01	0.0
	Exceedance/Elevation (Yes or No)		—	NO	NO	NO
	Bottom	Initial	0.26	0.0	0.17	0.22
		Confirm	0.04	0.0	0.0	0.22
	Exceedance/Elevation (Yes or No)		—	NO	NO	NO
	Visible turbidity evident?		NO	NO	NO	NO
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		NO	NO	NO	NO	

W station Hach 2100 :  
1.62 NTU, 1 ft. depth  
(w/in boom)

A w/ Hach 2100 :  
1.54 NTU, 1 ft. depth

Herrera Prod SS # 02

depth	BG	EW	A	B	depth	BG
0.5	0.0	0.0	0.0	0.0	6.5	0.00
1.0	0.05	0.0	0.01	0.02	7.0	0.21
1.5	0.11	0.0	0.0	0.0	7.5	0.26
2.0	0.07	0.0	0.0	0.0	<del>8.0</del>	<del>0.62</del>
2.5	0.10	0.0	0.01	0.01		
3.0	0.05	0.0	0.0	0.0		
3.5	0.00	0.0	0.0	0.01		
4.0	0.11	0.01	0.01	0.0		
4.5	0.13	0.0	0.0	0.22		
5.0	0.02	—	0.17	—		
5.5	0.07	—	—	—		
6.0	0.00	—	—	—		

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: G. Iftner, S. Zhang Date: 2/4/2025 (CONTINUED)

Construction Activity

During Monitoring: Placing sand/gravel Activity Start Time: 7:00 am

Weather: Partly sunny Temperature: 38 F

Any prior disturbances to water body? (Y/N – Describe): No

Visual turbidity observations (Sketch below if turbidity present):

None present

Instrument monitoring performed? (Y/N): Yes

Daily meter calibration performed? (Y/N – Describe): Yes – Pine Environmental rental YSI, calibrated before use

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N/A

If yes to water quality standard exceedances, what corrective action(s) were implemented?

N/A

Was Ecology notified of exceedances and action(s)? (Y/N) N/A

Did turbidity return to background after correction action(s)?

N/A

Were there any unusual conditions or critical activities that could have affected water quality?

No

Were any petroleum sheens or distressed or dying fish observed?

No petroleum sheen or fish observed

Were any photographs taken as supporting documentation?

Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

N/A

**Turbidity Monitoring Data Form for Date: 2/04/2025**

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent
Time		13:48	N/A	N/A	N/A
Northing		47.27831			
Easting		-122.47253			
Tide Status		Outgoing			
Turbidity Readings (NTUs) at Depths	Surface	Initial	3.26		
		Confirm			
	Exceed Bkgd (Y/N)		-		
	Middle	Initial	0.25		
		Confirm			
	Exceed Bkgd (Y/N)		-		
	Bottom	Initial	0.48		
Confirm					
Exceed Bkgd (Y/N)		-			
Visible turbidity evident?		No			
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No			

Field Notes (If necessary):

\_Unable to collect further readings due to issues with boat motor, returned to shore and conducted visual monitoring instead.

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**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

2/5/25

Monitoring Personnel: N. British, S. Zheng Date: \_\_\_\_\_

Construction Activity During Monitoring: Sand/gravel placement Activity Start Time: 07:00

Weather: Clear Temperature: 35°F

Any prior disturbances to water body? (Y/N - Describe): \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): standard  
cal check w/ turb

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) Yes

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
Lowered gravel box into water before dumping

Was Ecology notified of exceedances and action(s)? (Y/N) No

Did turbidity return to background after correction action(s)?  
yes

Were there any unusual conditions or critical activities that could have affected water quality?  
Some wave action from wind.

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

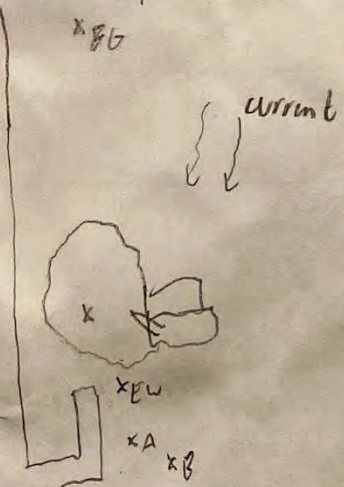
Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: xx/xx/xxxx

Monitoring Station		Background Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)		300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time		09:18	09:31	09:49	09:50	
Northing		47.2790015	47.2771948	47.2778826	47.2778945	
Easting		-122.473556	-122.470749	-122.470558	-122.470279	
Tide Status		High tide	High tide	High tide	High tide	
Turbidity Readings (NTUs) at Depths	Surface	Initial	2.7 NTU	15 NTU	16.18 NTU	9.55
		Confirm		10.12 NTU	16.2	11.1
	Exceed Bkgd (Y/N)		NA	Yes	Yes	Yes
	Middle	Initial	2.58 NTU	3.0 NTU	3.60	2.63
		Confirm		2.85 NTU	3.91	11.5
	Exceed Bkgd (Y/N)		NA	No	Yes	Yes
	Bottom	Initial	2.60	2.85	2.77	2.81
		Confirm		2.80	2.76	3.16
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		Mild turb (see notes)	Yes		
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No				

Field Notes (If necessary):

Background turb from near action, effluents unrelated to project. Fined sand embankment sample @ 10:35



Depth (m)	BG	EW	A	B
0.5	2.7	15	16.18	9.55
1	2.55	9.8	10.82	11.6
1.5	2.52	6.75	3.51	3.3
2	2.50	3.00	8.60	3.10
2.5	2.68	3.0	2.10	2.70
3	2.55	2.64	2.73	2.63
3.5	2.51	2.71	2.68	2.56
4	2.60	2.85	2.77	2.72
				2.81

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

2/5/25

Monitoring Personnel: N. British, S. Zheng Date: \_\_\_\_\_Construction Activity During Monitoring: Swamp/Channel Removal Activity Start Time: 07:00Weather: partly cloudy Temperature: 35°F

Any prior disturbances to water body? (Y/N - Describe): \_\_\_\_\_

Visual turbidity observations (Sketch below if turbidity present):  
\_\_\_\_\_  
\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): cal checked & bob started

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background &lt; 50 NTU or no more than 10% greater than background when background &gt; 50 NTUs)? (Y/N) \_\_\_\_\_

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) \_\_\_\_\_

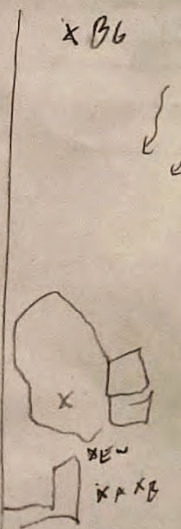
Did turbidity return to background after correction action(s)?  
NAWere there any unusual conditions or critical activities that could have affected water quality?  
NAWere any petroleum sheens or distressed or dying fish observed?  
NoWere any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: <u>xx/xx/xxxx</u>						
Monitoring Station	<u>4m</u> Background Station	<u>4m</u> Early Warning Station	<u>4m</u> Point of Compliance Station A	<u>4m</u> Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	<u>10:47</u>	<u>10:54</u>	<u>11:03</u>	<u>11:06</u>		
Northing	<u>47,2791337</u>	<u>47,2778163</u>	<u>47,2778854</u>	<u>47,2779643</u>		
Easting	<u>-122.4738488</u>	<u>-122.4702919</u>	<u>-122.4701260</u>	<u>-122.4701022</u>		
Tide Status	<u>outgoing</u>	<u>outgoing</u>	<u>outgoing</u>	<u>outgoing</u>		
Turbidity Readings (NTUs) at Depths	Surface	Initial	<u>2.58</u>	<u>3.65</u>	<u>6.6</u>	<u>2.62</u>
		Confirm				
	Exceed Bkgd (Y/N)		<u>NA</u>	<u>No</u>	<u>No</u>	<u>No</u>
	Middle	Initial	<u>2.56</u>	<u>2.8</u>	<u>2.92</u>	<u>3.05</u>
		Confirm				
	Exceed Bkgd (Y/N)		<u>NA</u>	<u>No</u>	<u>No</u>	<u>No</u>
	Bottom	Initial	<u>2.60</u>	<u>2.66</u>	<u>4.50</u>	<u>2.7</u>
		Confirm				
	Exceed Bkgd (Y/N)		<u>NA</u>	<u>No</u>	<u>No</u>	<u>No</u>
	Visible turbidity evident?		<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	

Field Notes (If necessary):

Metrol monitoring 30 min after dredging corrective actions.



	<u>3m</u>	<u>4.2m</u>	<u>3.5</u>	<u>3.1</u>
	<u>B6</u>	<u>EW</u>	<u>A</u>	<u>B</u>
time	<u>13:18</u>	<u>13:23</u>	<u>13:27</u>	<u>13:32</u>
GPS	<u>sat photo</u>	<u>sat photo</u>	<u>sat photo</u>	<u>sat photo</u>
surface	<u>4.70</u>	<u>3.67</u>	<u>2.14</u>	<u>3.15</u>
mid	<u>2.61</u>	<u>3.77</u>	<u>3.11</u>	<u>4.66</u>
bottom	<u>2.77</u>	<u>2.70</u>	<u>2.71</u>	<u>2.82</u>

47,2781206  
-122.4703245

wait + run prior to sampling

**Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project**

Monitoring Personnel: No. Batista, S. Zhang Date: 2/5/25

Construction Activity During Monitoring: Smelt + gravel placement Activity Start Time: 07:20

Weather: light rain Temperature: 36°F

Any prior disturbances to water body? (Y/N - Describe): High wind + rain

Visual turbidity observations (Sketch below if turbidity present):  
\_\_\_\_\_

Instrument monitoring performed? (Y/N): \_\_\_\_\_

Daily meter calibration performed? (Y/N - Describe): cal check w/ turb standard

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background <50 NTU or no more than 10% greater than background when background >50 NTUs)? (Y/N) N

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:  
\_\_\_\_\_

Turbidity Monitoring Data Form for Date: xx/xx/xxxx						
Monitoring Station	300 Background Station	4.2 Early Warning Station	Point of Compliance Station A	Point of Compliance Station B		
Location (Distance from near-field dredging zone)	300 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent		
Time	13:18	13:23	13:27	13:32		
Northing	47.271915	47.2781854	47.2781206	47.2780471		
Easting	-122.4737215	-122.4704445	-122.4703215	-122.4702678		
Tide Status	outgoing	outgoing	outgoing	outgoing		
Turbidity Readings (NTUs) at Depths	Surface	Initial	4.30 NTU	3.67 NTU	2.61 NTU	3.15 NTU
		Confirm				
	Exceed Bkgd (Y/N)		NA	No	No	No
	Middle	Initial	2.61 NTU	3.77 NTU	3.99 NTU	4.66 NTU
		Confirm				
	Exceed Bkgd (Y/N)		NA	No	No	No
	Bottom	Initial	2.77 NTU	2.70 NTU	2.71 NTU	2.82 NTU
		Confirm				
	Exceed Bkgd (Y/N)		NA	No	No	No
	Visible turbidity evident?		No	No	No	No
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.		No	No	No	No	

Field Notes (If necessary):

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Water Quality Monitoring and Protection Plan, Dickman Mill Piling Removal Project

Monitoring Personnel: Nick Bartist Date: 2/6/25

Construction Activity During Monitoring: Sand / gravel placement Activity Start Time: 07:00

Weather: clear, windy Temperature: 35°F

Any prior disturbances to water body? (Y/N - Describe): High winds, wave action

Visual turbidity observations (Sketch below if turbidity present):  
NA

Instrument monitoring performed? (Y/N): (Y)

Daily meter calibration performed? (Y/N - Describe): (Y)

Was the turbidity standard exceeded (no more than 5 NTUs greater than background when background < 50 NTU or no more than 10% greater than background when background > 50 NTUs)? (Y/N) (N)

If yes to water quality standard exceedances, what corrective action(s) were implemented?  
NA

Was Ecology notified of exceedances and action(s)? (Y/N) NA

Did turbidity return to background after correction action(s)?  
NA

Were there any unusual conditions or critical activities that could have affected water quality?  
NA

Were any petroleum sheens or distressed or dying fish observed?  
No

Were any photographs taken as supporting documentation?  
Yes

Sketch of project area, sampling locations, and any visible turbidity plume:

Turbidity Monitoring Data Form for Date: xx/xx/xxxx					
Monitoring Station	Reference Station	Early Warning Station	Point of Compliance Station A	Point of Compliance Station B	
Location (Distance from near-field dredging zone)	500 feet minimum upcurrent	100 feet downcurrent	150 feet downcurrent	150 feet downcurrent	
Time					
Northing					
Easting					
Tide Status					
Turbidity Readings (NTUs) at Depths	Surface	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
	Middle	Initial			
		Confirm			
	Exceed Bkgd (Y/N)				
Bottom	Initial				
	Confirm				
Exceed Bkgd (Y/N)					
Visible turbidity evident?					
Evidence of Noncompliance (e.g., debris, petroleum sheen, oil, dying fish) If yes, describe.					

*Visual Only Monitoring*

Field Notes (If necessary):

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