



US Army Corps
of Engineers
Seattle District



WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers

Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone (206) 764-6960
Attn: Olivia Romano, Project Manager

WA Department of Ecology

SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone (360) 407-6068
Attn: SEA Program, Federal Permit
Coordinator

Public Notice Date: August 29, 2012

Expiration Date: September 28, 2012

Reference No.: NWS-2011-0467-WRD
Name: Seattle, Port of

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: Port of Seattle
P.O. Box 1209
Seattle, Washington 98111
Attention: Mr. Jon Sloan
Telephone: (206) 787-3675

LOCATION: In Puget Sound, Elliott Bay, East and West Waterways, Duwamish River, Salmon Bay, and Lake Washington Ship Canal in Seattle, King County, Washington.

WORK: To conduct pile replacement activities at 27 facilities for a period of ten years. Work includes the replacement of 235 to 390 structural, fender, dolphin, float, and other types of piles, replacement of associated elements (pile caps, beams, etc.), and placement of sand in any holes resulting from pile removal during any year for a period of ten years in four zones:

Zone 1A (Marine Elliott By and Puget Sound) including following facilities - Shilshole Bay Marina, Terminal 91, Pier 69, Pier 66, Terminal 86, Elliott Bay Park Fishing Pier, Terminal 46, Piers 2, 16, and 17.

Zone 1B (Marine East/West Waterways) including the following facilities - Terminal 18, Terminal 10, Terminal 5, Terminal 30, Pier 28, Terminal 24 and 25.

Zone 2 (Estuary –Tidally Influenced Duwamish River) including following facilities - Terminal 102, Terminal 103, Terminal 104, Terminal 105, Terminal 106, Terminal 107, Terminal 108, Terminal 115, Terminal 117, and Turning Basin #3.

Zone 3 (Freshwater) including following facilities - Maritime Industrial Center and Fisherman's Terminal.

Damaged piles would be removed with a vibratory hammer or by pulling with cable and chain rigged to an overhead crane. Piles that break during extraction would be cut off 3-feet below the mudline and capped with clean sand. Up to 234 cubic yards of clean sand may be placed per year. Replacement piles range from 12-inch diameter to 30-inch diameter and include ACZA-treated wood, steel, concrete, and HDPE plastic piles. Piles would be installed with a vibratory hammer. However, some piles may be proofed with an impact hammer and in some instances may be entirely installed with impact hammer. Up to 3,300 piles could be replaced, up to 1,100 piles would be removed without being replaced and up to 2,600 cubic yards of sand could be placed over the ten year period. Replacement of associated elements would include: timber, concrete, and steel pile caps and beams; sacrificial elements including cathodic protection, UHMW wear strips; pile-associated attachment hardware; pile wraps, blankets, and "fresh heads"; fender system components including: chocks, whalers, compression parts, chains, hoops, bullrail, eyebrow, plates, and caps zones. Repair and maintenance of concrete pile caps and beams would require installation of falsework beneath supported structures. Once installed, crews would remove, by hand, existing failed or damaged concrete in the lower one-half of the pile cap or beam, exposing the re-inforcing steel. The re-inforcing steel is then inspected, repaired and coated with epoxy primer/sealant. Forms are constructed around pile cap or beam being repaired and new concrete is placed. Timber or steel caps and beams area generally repaired simply by removing and replacing the damaged cap or beam. All work on caps and beams would occur in the dry.

PURPOSE: To maintain function and structural integrity of the existing structures.

ADDITIONAL INFORMATION: The applicant's proposed work duration is over a 10-year period. The proposed work would cover repair and maintenance activities only and not increase or changes the use of Port facilities or structures. Piles that are replaced during this 10-year period would be the same size (diameter) or smaller than existing piles and no additional piles would be authorized. The applicant would employ a number of best management practices and spill control measures to reduce environmental impacts.

Copies of this public notice which have been mailed or otherwise physically distributed feature project drawings in black and white. The electronic version features those drawings in color, which we think more accurately communicates the scope of project impacts. To access the electronic version of this public notice, go to the Seattle District's web page at <http://www.nws.usace.army.mil/> and under the heading Open Public Comment Periods select Regulatory Public Notices. Recently-issued public notices are listed in chronological order of the date of issuance. Select and view the listing for this project.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. After receipt of comments from this public notice, the U.S. Army Corps of Engineers will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would impact EFH in the project area. The Corps has determined that the proposed action will not adversely affect designated EFH for federally managed fisheries in Washington waters. No further EFH consultation is necessary.

CULTURAL RESOURCES: The Corps has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. There are no recorded

historic properties within the permit area. The permit area has been so extensively disturbed by modern development that little likelihood exists for the proposed project to impinge upon an undisturbed historic property. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, as appropriate.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION – CORPS: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

The described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the United States.

SOURCE OF FILL MATERIAL: The applicant has not yet identified the source of the fill material. Should a permit be issued, the Corps will evaluate the fill material source prior to the start of construction.

EVALUATION—ECOLOGY: Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

ADDITIONAL EVALUATION:

This proposal is the subject of Shorelines Substantial Development Permit No. 3013733, being processed by City of Seattle.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public

NWS-2011-0467-WRD

interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentator's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

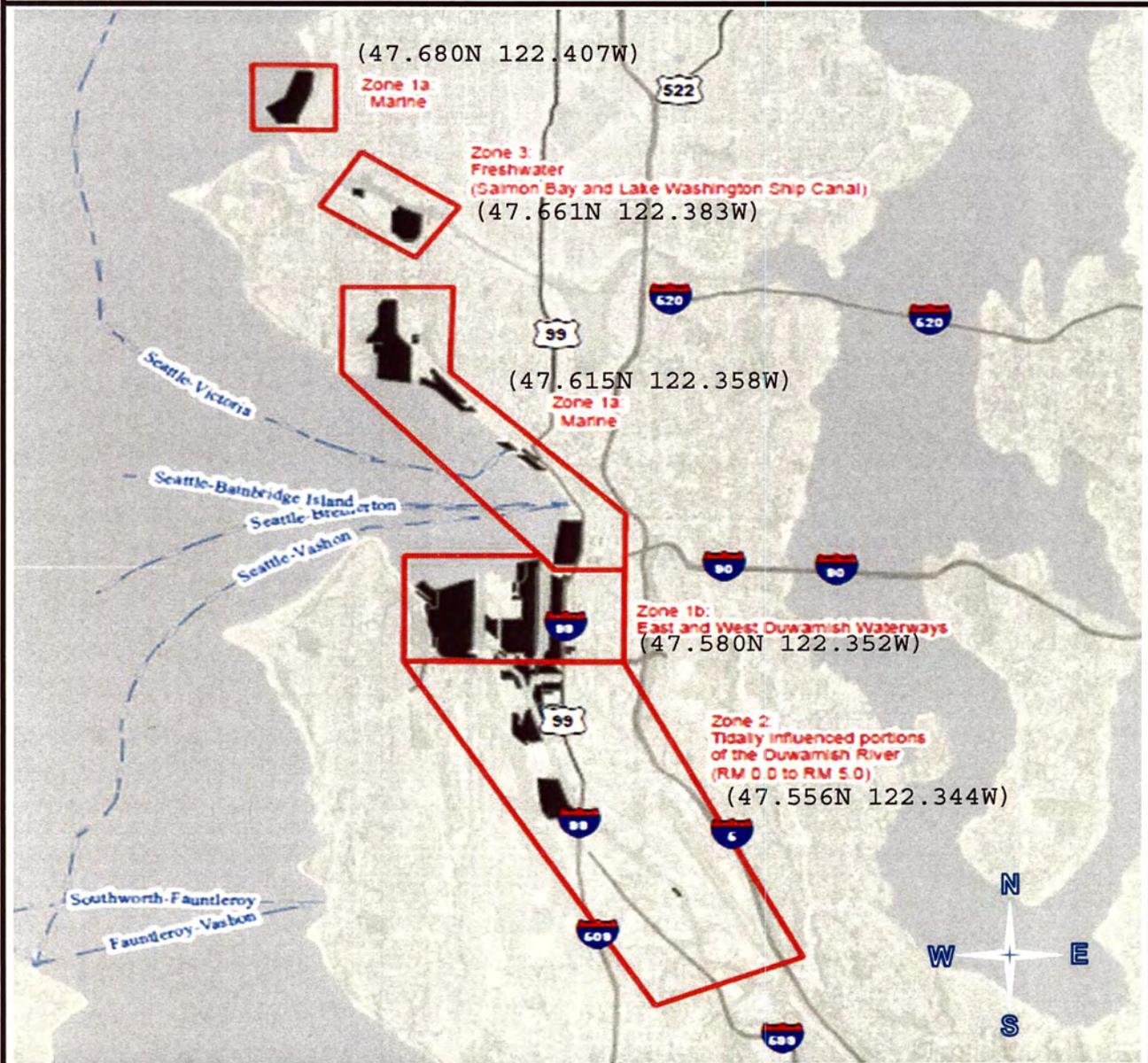
Corps comments: All e-mail comments should be sent to olivia.h.romano@usace.army.mil. Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Attention: Olivia Romano, P.O. Box 3755, Seattle, Washington 98124-3755.

Ecology Comments: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Department of Ecology, Attention: SEA program – Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600, or e-mail to ecyrefedpermits@ecy.wa.gov

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Port of Seattle, NWS-2011-0467-WRD

Encl: Figures 11

Piles Systems Maintenance & Repair Program Zones



Corps #: NWS-2011-487-WRD
Applicant: Port of Seattle
Location: Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal
 City of Seattle and parts of unincorporated King County, Washington
Project: Pile Systems Repair and Maintenance Program (10 year)
Purpose: Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

Project Zone 1a: Marine (Shilshole Bay Marina)



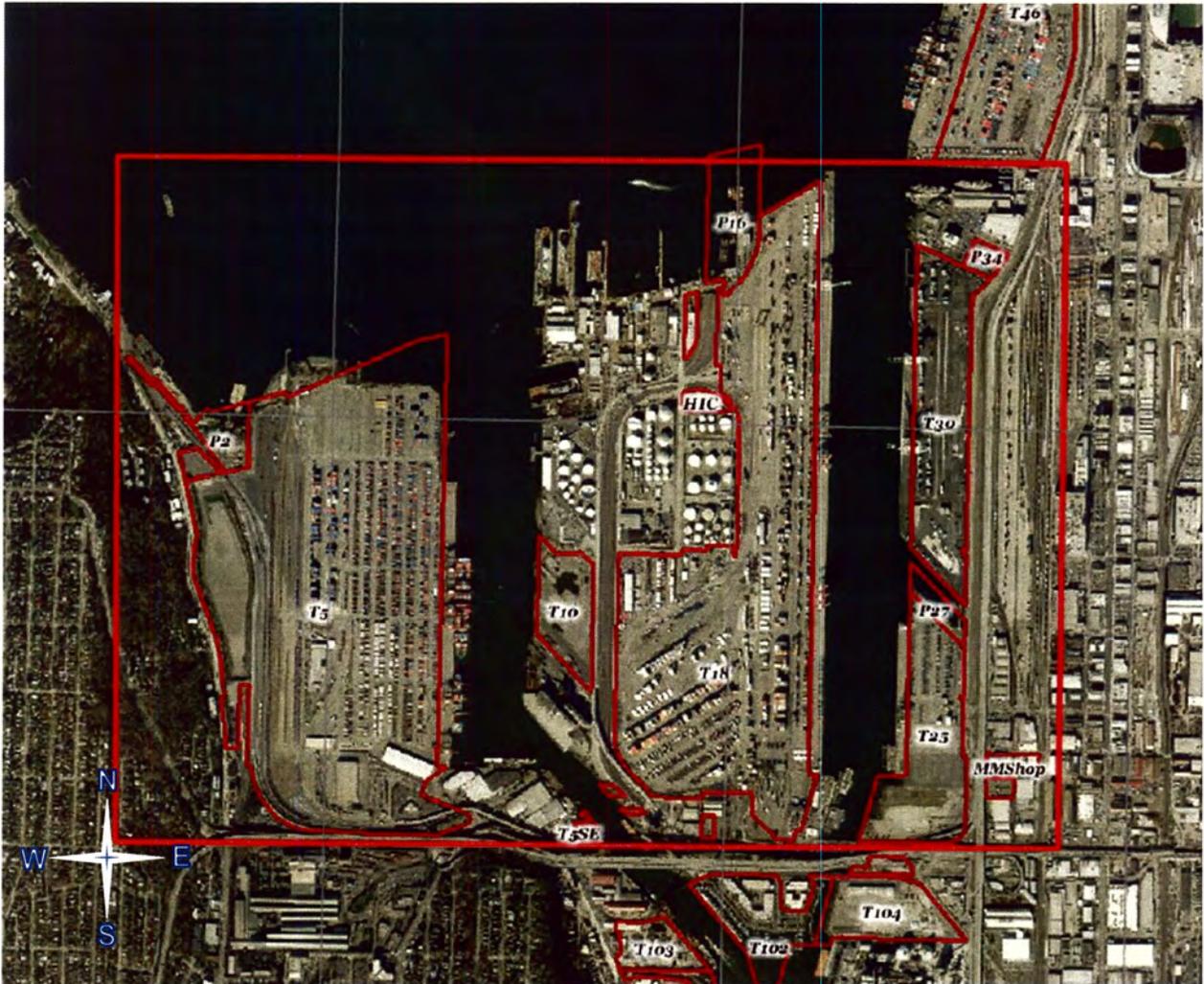
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Project Zone 1a: Marine (Elliott Bay)



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Project Zone 1b: East and West Waterways



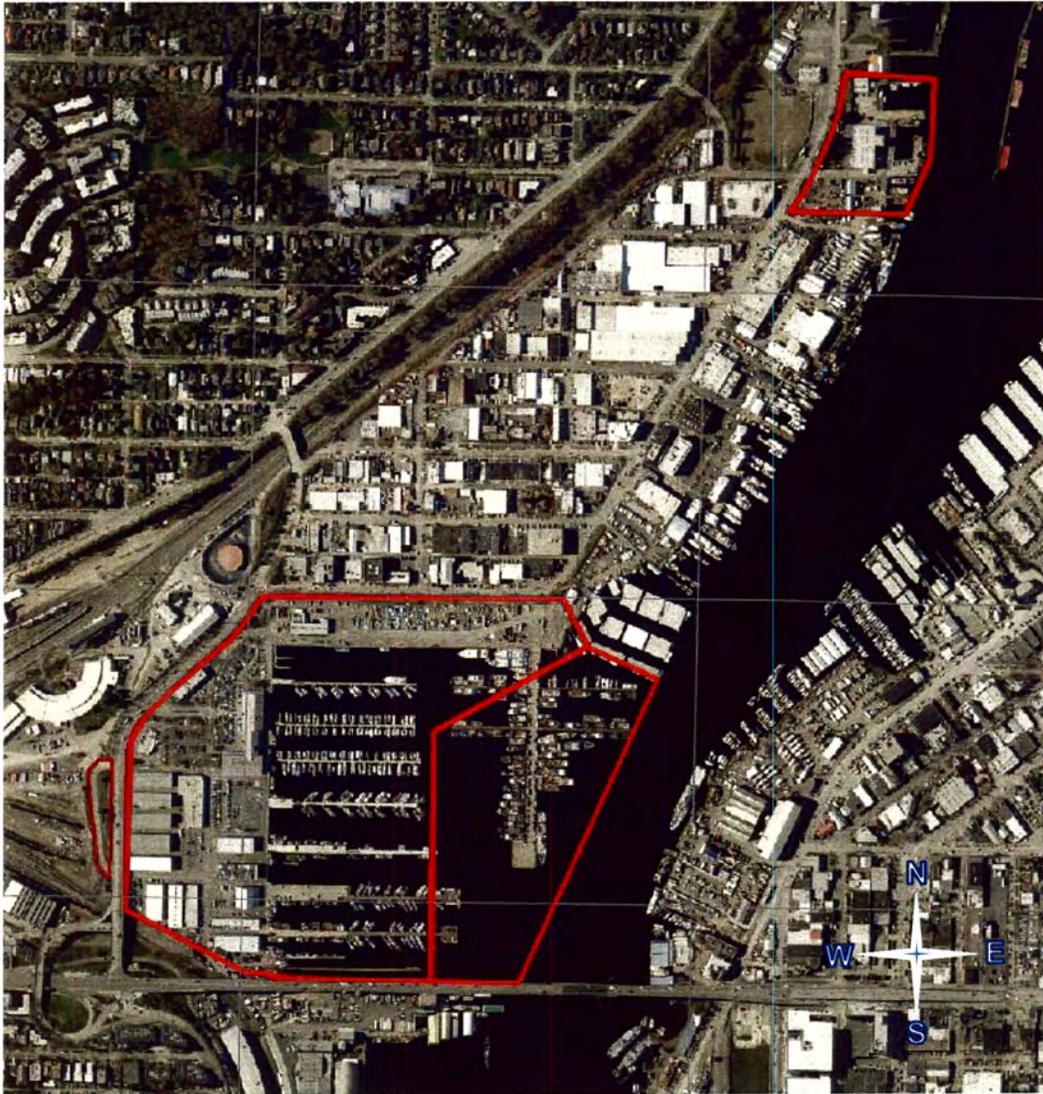
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Applicant: Port of Seattle
Location: Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal
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Project Zone 2: Tidally Influenced Duwamish River



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Project Zone 3: Freshwater (Fisherman's Terminal, MIC)



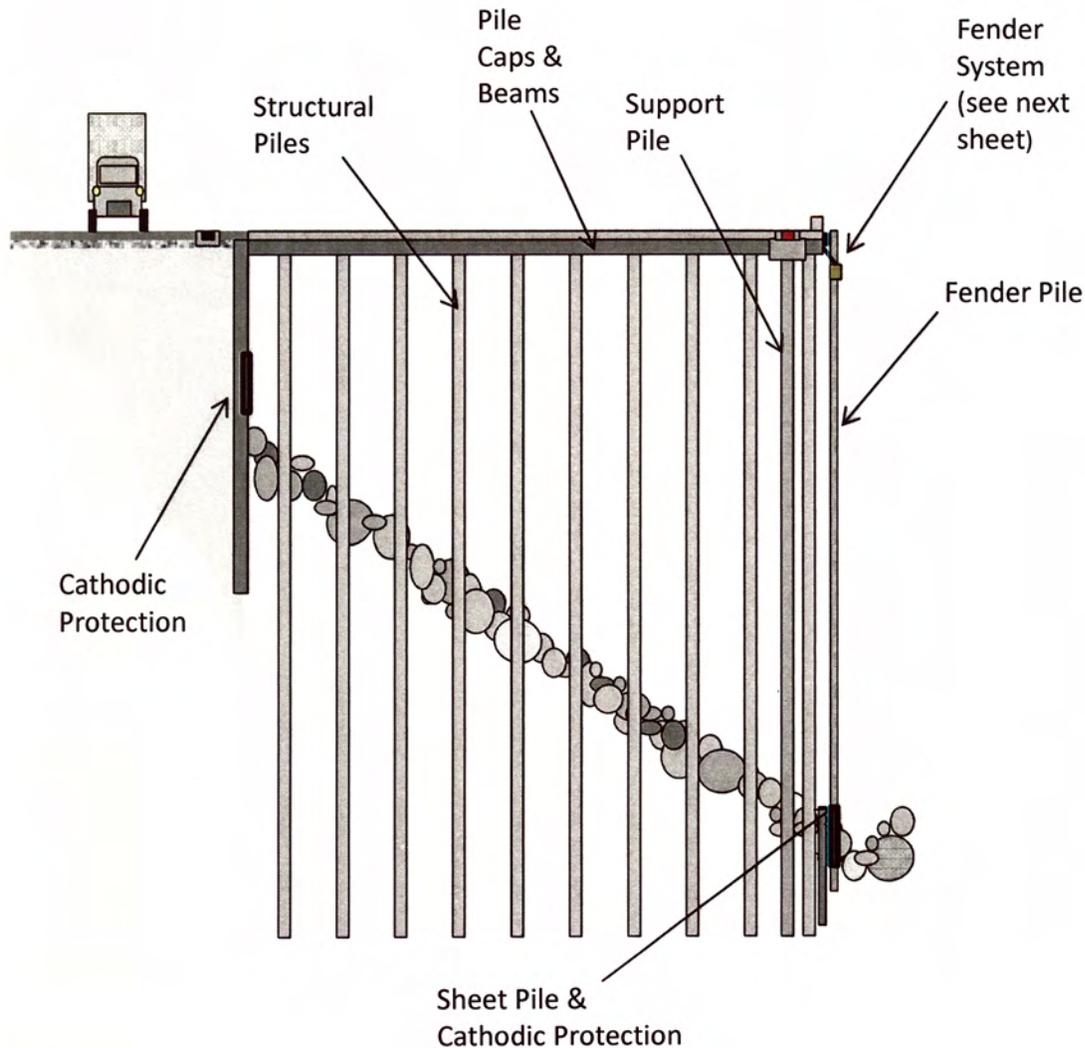
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Applicant: Port of Seattle
Location: Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal
City of Seattle and parts of unincorporated King County, Washington
Project: Pile Systems Repair and Maintenance Program (10 year)
Purpose: Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

Estimated Piles to be Removed/Replaced over 10 Years

PILE SYSTEM REPAIR & MAINTENANCE PROGRAM: NUMBER OF PILES TO BE REPAIRED, MAINTAINED OR REPLACED (2012-2021)		Latitude / Longitude	PHASE 1 - 2011/12	PHASE 2 - 2012/13	PHASE 3 - 2013/14	PHASE 4 - 2014/15	PHASE 5 - 2015/16	PHASE 6 - 2016/17	PHASE 7 - 2017/18	PHASE 8 - 2018/19	PHASE 9 - 2019/20	PHASE 10 - 2020/21	EST. Replaced Piles per Facility	Max. clean sand fill mitigation (cu. Yd.)	Permitted to be Removed & Replaced	Permitted to be Removed w/out Being Replaced
MARINE ELLIOTT BAY & PUGET SOUND (Zone 1A)	Shilshole Bay Marina	47.682, -122.406	10	10	10	10	10	10	5	5	5	5	80	40	1350	100
	Terminal 91	47.630, -122.381	40	40	40	40	40	40	40	40	40	40	400	200		
	Pier 69	47.614, -122.354	0	0	10	15	15	15	15	15	15	15	115	65		
	Pier 66	47.611, -122.350	40	40	40	40	40	40	40	40	40	40	400	200		
	Terminal 86	47.625, -122.370	0	10	20	20	10	10	10	0	0	0	80	40		
	Elliott Bay Park Fishing Pier	47.626, -122.374	5	5	10	5	0	0	0	0	0	0	25	15		
	Terminal 46	47.595, -122.341	0	30	30	30	30	30	25	25	25	25	250	125		
	Piers 2/16/17	47.589, -122.350	0	0	0	0	0	0	0	0	0	0	0	0		
MARINE - EAST/WEST WATERWAYS (Zone 1B)	Terminal 18	47.580, -122.346	40	40	40	40	40	40	40	40	40	40	400	200	950	500
	Terminal 10	47.579, -122.357	0	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 5	47.578, -122.361	20	20	20	20	20	20	20	20	20	20	200	100		
	Terminal 30	47.584, -122.343	20	30	30	30	30	30	30	10	10	10	250	125		
	Pier 28	47.579, -122.341	0	5	10	15	15	15	15	15	5	5	100	50		
	Terminal 24/25	47.573, -122.343	0	0	0	0	0	0	0	0	0	0	0	0		
ESTUARY - TIDALLY INFLUENCED DUWAMISH RIVER (Zone 2)	Terminal 102	47.569, -122.347	0	0	0	20	20	20	10	10	10	10	100	50	350	400
	Terminal 103	47.568, -122.351	10	10	10	10	10	10	10	10	10	10	100	50		
	Terminal 104	47.570, -122.345	0	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 106	47.565, -122.346	0	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 108	47.562, -122.344	0	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 107	47.558, -122.349	0	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 105	47.567, -122.351	0	0	0	0	0	0	0	0	0	0	0	0		
	Terminal 115	47.545, -122.339	10	10	15	15	20	20	15	15	15	15	150	75		
	Terminal 117	47.526, -122.311	0	0	0	0	0	0	0	0	0	0	0	0		
	Turning Basin #3	47.512, -122.304	0	0	0	0	0	0	0	0	0	0	0	0		
FRESHWATER (Zone 3)	Maritime Industrial Center	47.663, -122.392	0	10	40	40	40	40	40	40	0	0	250	125	650	100
	Fisherman's Terminal	47.656, -122.379	40	40	40	40	40	40	40	40	40	40	400	200		
Port-wide Totals			235	300	365	390	380	380	355	345	275	275	3300	1660	3300	1100

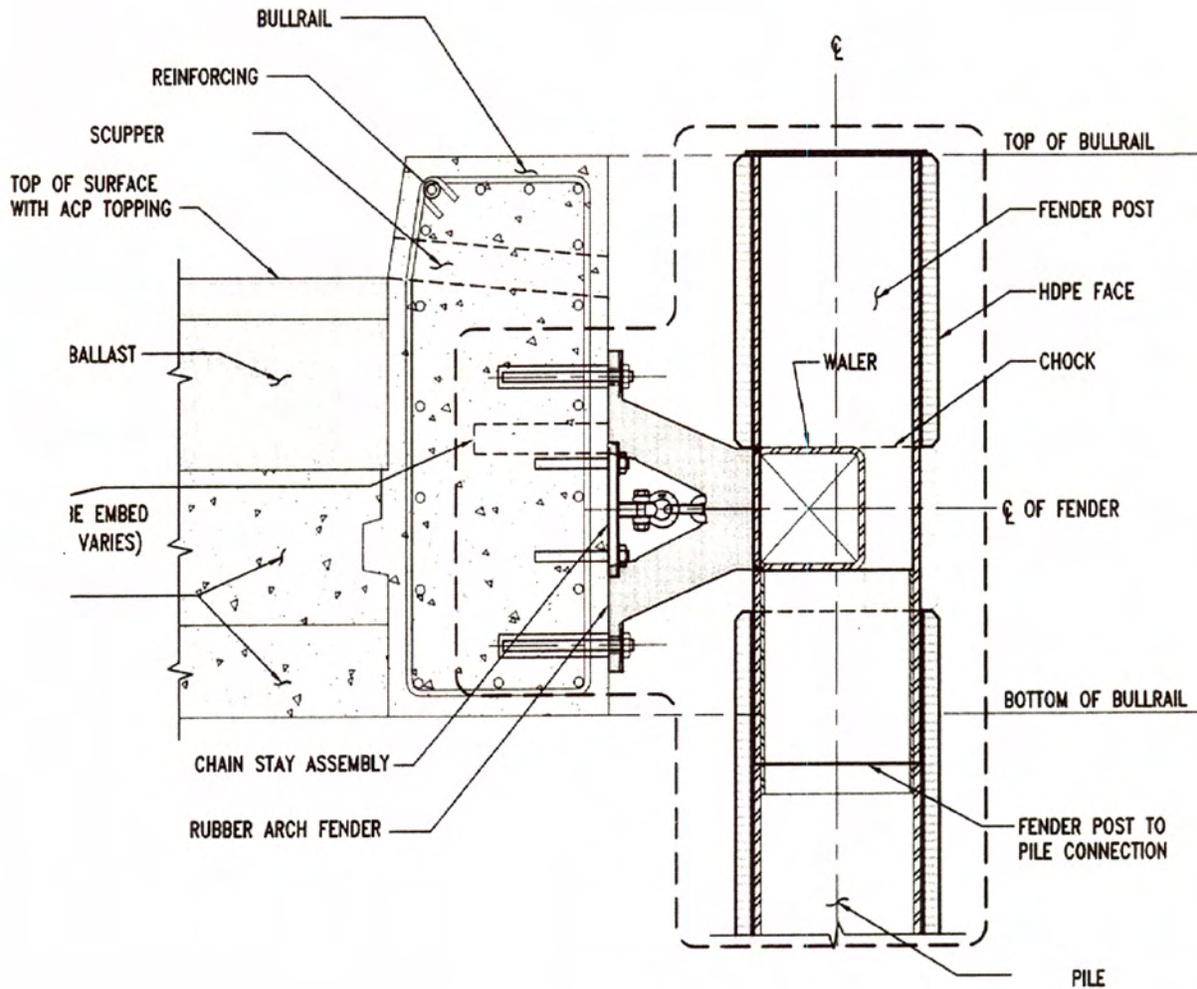
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Applicant: Port of Seattle
Location: Duwamish River, Elliott Bay, Puget Sound, Lake Washington Ship Canal
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Project: Pile Systems Repair and Maintenance Program (10 year)
Purpose: Regular and routine repair and maintenance activities associated with Seaport piling and pile systems components

Pile Systems: Container Terminal Pier (typical)



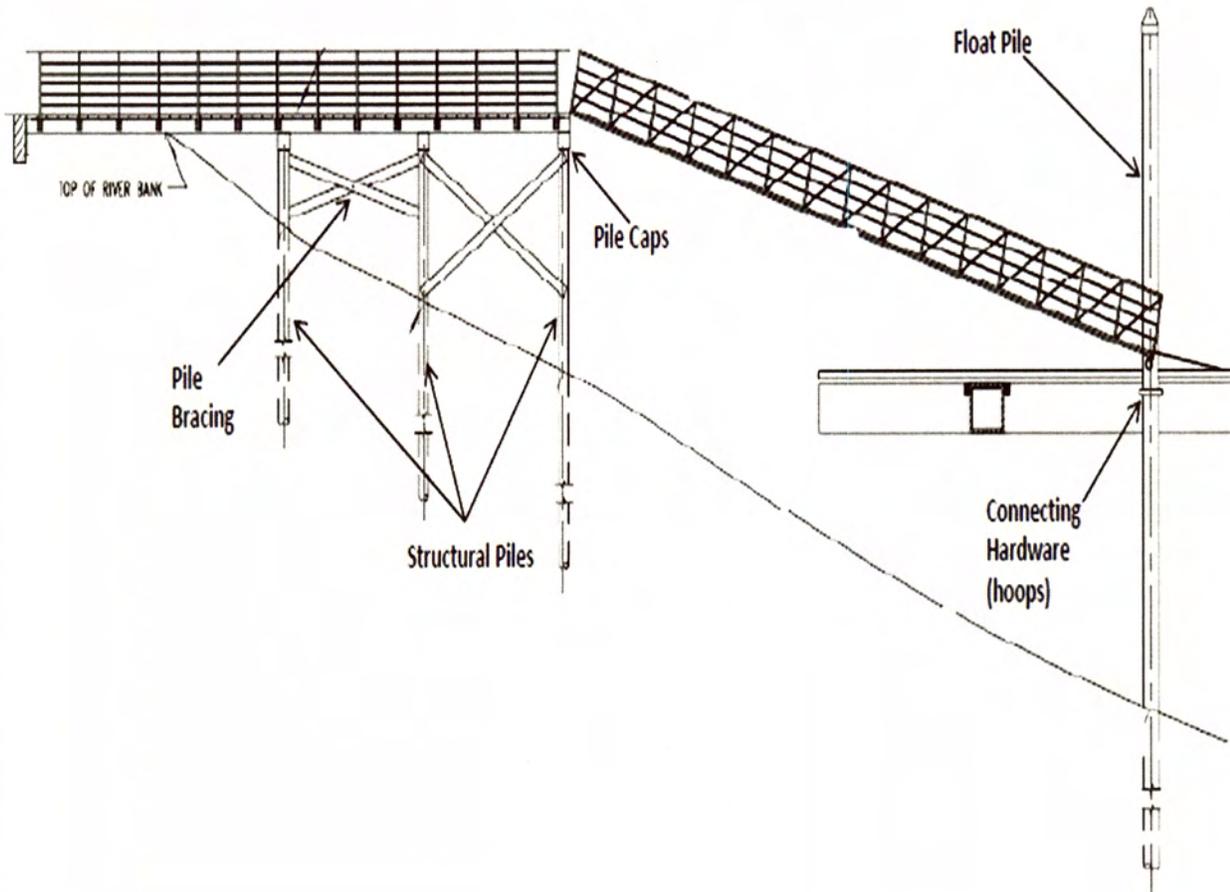
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Pile Systems: Container Terminal Fender System (typical)



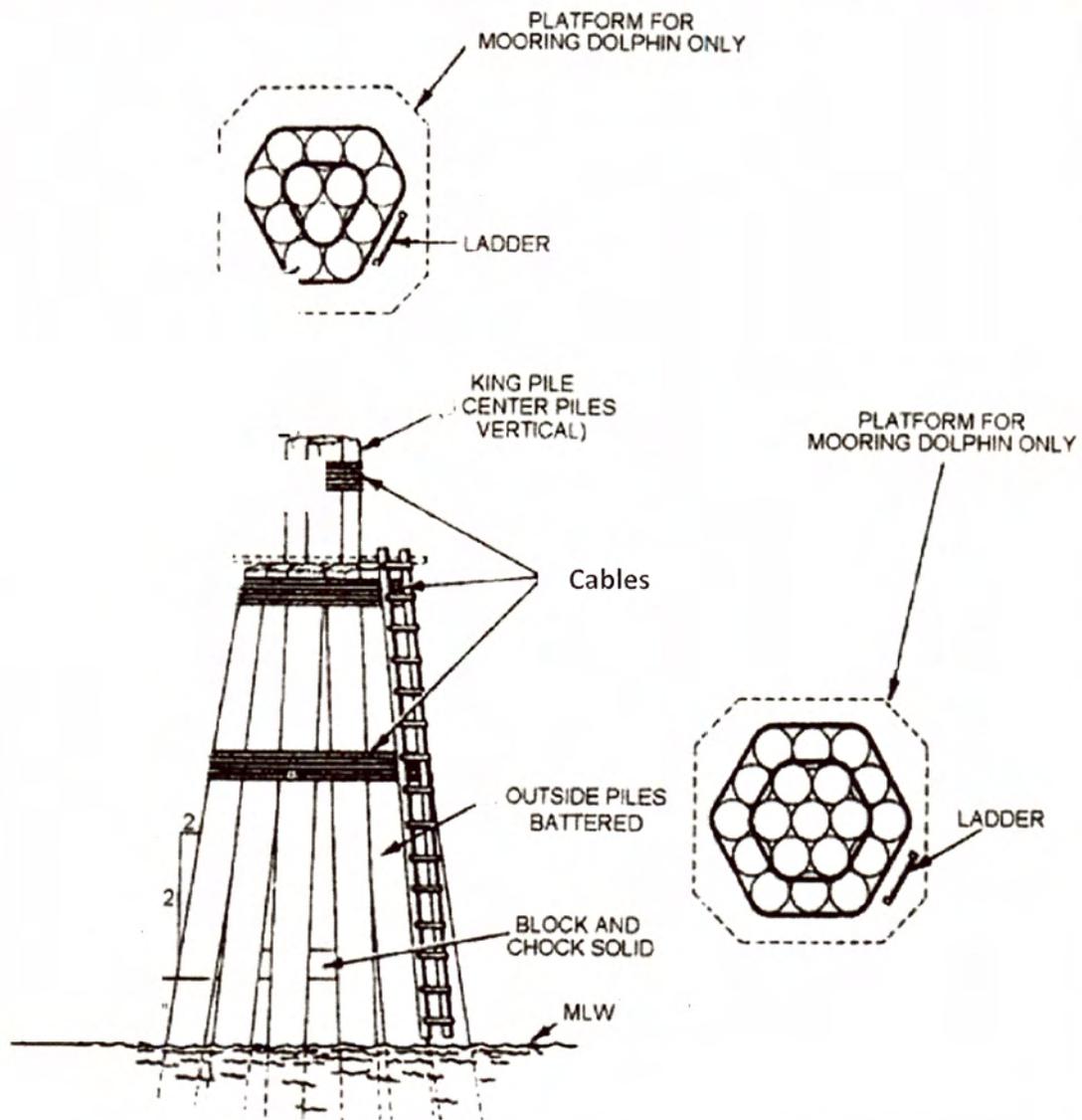
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Pile Systems: Marina Piers and Floats (typical)



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Pile Systems: Dolphin Piles (typical)



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