



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

June 20, 2011

Connie Zimmerman
Seattle Department of Transportation
700 Fifth Avenue
PO Box 34996
Seattle, WA 98124

RE: Water Quality Certification Order #8548 for U.S. Coast Guard Public Notice
#10-N-06 Ballard Bridge Seismic Retrofit Project, Seattle, King County,
Washington

Dear Ms. Zimmerman:

On September 27, 2010, Seattle Department of Transportation submitted a Joint Aquatic Resource Permit Application (JARPA) to the Department of Ecology (Ecology) for a Section 401 Water Quality Certification (401 Certification) under the federal Clean Water Act for the proposed Ballard Bridge Seismic Retrofit project.

On behalf of the State of Washington, Ecology certifies that the work described in the JARPA and the public notice complies with applicable provisions of Sections 301, 302, 303, 306 and 307 of the Clean Water Act, as amended, and applicable state laws. This certification is subject to the conditions contained in the enclosed Order.

If you have any questions, please contact Rebekah Padgett at (425) 649-7129. The enclosed Order may be appealed by following the procedures described in the Order.

Sincerely,

Geoff Tallent, Section Manager
Northwest Regional Office
Shorelands and Environmental Assistance Program

ES:rrp:cja

Enclosure

By certified mail: 7009 1410 0001 5661 6971



Connie Zimmerman

June 20, 2011

Page 2 of 2

cc: Austin Pratt, U.S. Coast Guard
Jacalen Printz, U.S. Army Corps of Engineers
Laura Arber, Washington Department of Fish and Wildlife
Tara Austin, Washington Department of Natural Resources
Jim Muck, USFWS/NOAA Fisheries
Mark Mazzola, Seattle Department of Transportation

e-cc: Joe Burcar – NWRO
Grant Yang – NWRO
Greg Stegman – NWRO
Laura Inouye – HQ
Loree' Randall – HQ
Raman Iyer – NWRO
ecyrefedpermits@ecy.wa.gov

IN THE MATTER OF GRANTING A) ORDER #8548
WATER QUALITY) U.S. Coast Guard #10-N-06
CERTIFICATION TO) Ballard Bridge Seismic Retrofit Project; Lake
Seattle Department of Transportation) Washington Ship Canal, Seattle, King County,
in accordance with 33 U.S.C. 1341) Washington.
(FWPCA § 401), RCW 90.48.120, RCW)
90.48.260 and Chapter 173-201A WAC)

TO: Connie Zimmerman
Seattle Department of Transportation
700 Fifth Avenue
PO Box 34996
Seattle, WA 98124

On September 27, 2010, Seattle Department of Transportation submitted a Joint Aquatic Resources Permit Application (JARPA) to the Department of Ecology (Ecology) for a Section 401 Water Quality Certification. A joint public notice regarding the request was distributed by the U.S. Coast Guard for the above-referenced project pursuant to the provisions of Chapter 173-225 WAC on December 9, 2010.

The bridge seismic retrofit proposal includes addition of reinforcements around the base of 22 bridge columns.

The Ballard Bridge is located at 15th Avenue NW, between W Nickerson Street and NW 45th Street in Seattle, King County, Washington, Lake Washington Ship Canal, Section 13, T. 25N, R. 3E, WRIA 8.

AUTHORITIES:

In exercising authority under 33 U.S.C. § 1341, RCW 90.48.120, and RCW 90.48.260, Ecology has examined this application pursuant to the following:

1. Conformance with applicable water quality-based, technology-based, and toxic or pretreatment effluent limitations as provided under 33 U.S.C. §§ 1311, 1312, 1313, 1316, and 1317 (FWPCA §§ 301, 303, 306 and 307);
2. Conformance with the state water quality standards contained in Chapter 173-201A WAC and authorized by 33 U.S.C. § 1313 and by Chapter 90.48 RCW, and with other applicable state laws; and
3. Conformance with the provision of using all known, available and reasonable methods to prevent and control pollution of state waters as required by RCW 90.48.010.

WATER QUALITY CERTIFICATION CONDITIONS:

Through issuance of this Order, Ecology certifies that it has reasonable assurance that the activity as proposed and conditioned will be conducted in a manner that will not violate applicable water quality standards and other appropriate requirements of state law. In view of the foregoing and in accordance with 33 U.S.C. § 1341, RCW 90.48.120, RCW 90.48.260 Chapter 173-200 WAC and Chapter 173-201A WAC, water quality certification is granted to the Applicant subject to the conditions within this Order.

Certification of this proposal does not authorize the Applicant to exceed applicable state water quality standards (Chapter 173-201A WAC), ground water standards (Chapter 173-200 WAC) or sediment quality standards (Chapter 173-204 WAC). Furthermore, nothing in this certification shall absolve the Applicant from liability for contamination and any subsequent cleanup of surface waters, ground waters or sediments occurring as a result of project construction or operations.

A. General Conditions:

- A1. For purposes of this Order, the term "Applicant" shall mean Seattle Department of Transportation and its agents, assignees and contractors.
- A2. For purposes of this Order, all submittals required by its conditions shall be sent to Ecology's Northwest Regional Office, Attn: 401/CZM Federal Project Manager, 3190 160th Avenue SE, Bellevue, WA 98008-5452. Any submittals shall reference Order #8548 and U.S. Coast Guard #10-N-06.
- A3. Work authorized by this Order is limited to the work described in the JARPA received by Ecology on September 27, 2010. The Applicant will be out of compliance with this Order and must reapply with an updated application if the information contained in the JARPA is voided by subsequent changes to the project not authorized by this Order.
- A4. Within 30 days of receipt of an updated JARPA, Ecology will determine if the revised project requires a new water quality certification and public notice or if a modification to this Order is required.
- A5. This Order shall be rescinded if the U.S. Coast Guard does not issue an individual Bridge Permit.
- A6. Copies of this Order shall be kept on the job site and readily available for reference by Ecology personnel, the construction superintendent, construction managers and lead workers, and state and local government inspectors.

- A7. The Applicant shall provide access to the project site and all mitigation sites upon request by Ecology personnel for site inspections, monitoring, necessary data collection, and/or to ensure that conditions of this Order are being met.
- A8. Nothing in this Order waives Ecology's authority to issue additional orders if Ecology determines that further actions are necessary to implement the water quality laws of the state. Further, Ecology retains continuing jurisdiction to make modifications hereto through supplemental order, if additional impacts due to project construction or operation are identified (e.g., violations of water quality standards, downstream erosion, etc.), or if additional conditions are necessary to further protect water quality.
- A9. The Applicant shall ensure that all appropriate project engineers and contractors at the project site have read and understand relevant conditions of this Order and all permits, approvals, and documents referenced in this Order. The Applicant shall provide Ecology a signed statement (see Attachment A for an example) from each project engineer and contractor that they have read and understand the conditions of this Order and the above-referenced permits, plans, documents and approvals. These statements shall be provided to Ecology before construction begins at the project or mitigation sites.
- A10. This Order does not authorize direct, indirect, permanent, or temporary impacts to waters of the state or related aquatic resources, except as specifically provided for in conditions of this Order.
- A11. Failure of any person or entity to comply with this Order may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce its terms.

B. Water Quality Conditions:

- B1. Lake Washington Ship Canal is classified as "Core Summer Salmonid Habitat" and the criteria of that class apply except as specifically modified by this Order. This Order does not authorize temporary exceedances of water quality standards beyond the limits established in WAC 173-201A-200(1)(e)(i).
- B2. In-Water Construction Water Quality Sampling and Monitoring: A Final Water Quality Protection and Monitoring Plan (Plan) shall be developed and implemented. "In-water construction" is defined as all work below the ordinary high water mark of Lake Washington Ship Canal.

The Applicant shall submit the Final Water Quality Protection and Monitoring Plan for Ecology review and approval per Condition #A2 at least 30 days prior to the start of in-water work.

The Plan shall include the following minimum requirements:

- a. Locations of samples: Locations of water quality sampling sites shall be identified and described in the Plan and on a map of the project area. At a minimum, sampling shall take place at the point of compliance as specified in WAC 173-201A-200(1)(e)(i), which allows a 300-foot temporary area of mixing for turbidity resulting from disturbance of in-place sediments in Lake Washington Ship Canal. Background samples shall be collected outside the area of influence of the in-water work. Background samples shall be collected at the same frequency as the point of compliance samples.
- b. Number of samples: Number and frequency of water quality samples to be taken.
- c. Parameter to be sampled: Turbidity shall be sampled for this project.
- d. Equipment: Sampling for turbidity is to be accomplished using a turbidometer properly calibrated according to the operator's manual.
- e. Best Management Practices (BMPs): A description of the BMPs that will be used during construction to protect water quality.
- f. Detection of exceedances: Water quality standards for turbidity in "Core Summer Salmonid Habitat" waters are as follows: turbidity shall not exceed 5 NTU over background conditions when the background is 50 NTU or less, or a 10 percent increase in turbidity when the background turbidity is more than 50 NTU. If exceedances of this standard at the point of compliance specified in WAC 173-201A-200(1)(e)(i) is detected through water quality sampling and monitoring, the Applicant shall immediately take action to stop, contain, and prevent unauthorized discharges or otherwise stop the violation and correct the problem. After such an event, the Applicant shall assess the efficacy of the site BMPs and update or improve the BMPs used at the work site in an effort to reduce or prevent recurrence of the turbidity exceedance.
- g. Reporting: If no exceedances are detected, results of water quality sampling, as determined by the Plan, shall be forwarded to Ecology on a monthly basis in accordance to Condition A2.
- h. Notification of exceedances: Notification of exceedances that are detected through water quality sampling shall be made to Ecology within 24 hours of occurrence. Notification shall be made with reference to Order #8548, Attn: 401/CZM Federal Project Manager, by telephone at (425) 649-7129 or (425) 649-7000, or by fax to (425) 649-7098. The Applicant shall, at a minimum, provide Ecology with the following information:

- i. A description of the nature and cause of exceedance.
- ii. The period of non-compliance, including exact dates, duration, and times and/or the anticipated time when the Applicant will return to compliance.
- iii. The steps taken, or to be taken, to reduce, eliminate, and prevent recurrence of the non-compliance.
- iv. In addition, within five (5) days after notification of an exceedance, the Applicant shall submit a written report to Ecology that describes the nature of the exceedance, turbidity results and location, photographs, and any other pertinent information.

B3. Dewatering: A Dewatering Plan shall be developed and implemented. The Dewatering Plan shall address dewatering activities, water pumped from cofferdams, and any other upland or in-water activities that are similar to dewatering activities.

The Applicant shall submit the Dewatering Plan for Ecology review and approval per Condition #A2 at least 30 days prior to the start of in-water work.

The Plan shall include the following minimum requirements associated with the handling, treatment, and discharge/disposal of the dewatering water and dewatered solids:

- a. Handling protocols for dewatering water and dewatered solids, including containment and transport as applicable.
- b. Full characterization of dewatering water influent for the purposes of identifying parameters present. Include concentrations at which individual parameters will be identified as pollutants of concern.
- c. Treatment system description, including appropriateness of the selected treatment technology for the pollutants of concern. Dewatering water may not be discharged to the Lake Washington Ship Canal or conveyed to surface waters unless it meets Surface Water Quality Standards (Chapter 173-201A WAC) for pollutants of concern.
- d. Monitoring plan for post-treatment effluent to ensure treatment system effectiveness. The plan shall include parameters of concern, frequency of testing, and reporting.
- e. Discharge and disposal plan for dewatering water. The method of discharge shall be designed and operated so as not to cause erosion or scour in state waters, banks, or vegetation. Identify disposal contingencies that will be used if the treated dewatering water does not meet standards for discharge to surface waters.

- f. Disposal plan for dewatered solids, including testing protocols and identification of appropriate disposal location(s).
- g. Corrective actions if indicator levels are exceeded.

All equipment associated with dewatering activities shall be properly operated and maintained.

C. Conditions for Construction Activities:

General Conditions:

- C1. Construction stormwater, sediment, and erosion control best management practices (BMPs; e.g., filter fences, etc.) suitable to prevent exceedances of state water quality standards shall be in place before starting construction at the site.
- C2. Sediment and erosion control measures shall be inspected and maintained prior to and during project implementation.
- C3. All construction debris shall be properly disposed of on land so that it cannot enter a waterway or cause water quality degradation to state waters.
- C4. Machinery and equipment used during construction shall be serviced, fueled, and maintained upland, unless otherwise approved by Ecology, in order to prevent contamination to any surface water.
- C5. Wash water containing oils, grease, or other hazardous materials resulting from wash down of equipment or working areas shall be contained for proper disposal, and shall not be discharged into state waters or storm drains.
- C6. Clean Fill Criteria: Applicant shall ensure that fill (soil) placed for the proposed project does not contain toxic materials in toxic amounts.
- C7. Work in or near the water that may affect fish migration, spawning, or rearing shall cease immediately upon a determination by Ecology that fisheries resources may be adversely affected.
- C8. The Applicant shall use tarps or other containment method when cutting or drilling over water in order to prevent debris, sawdust, concrete rubble, and other materials from entering the water.
- C9. During construction, the Applicant shall have a boat available on site at all times to retrieve debris from the water.

- C10. All manmade debris that has been deposited below the Ordinary High Water Line within the construction work area shall be removed and disposed of upland such that it does not enter waters of the state. Concrete rubble, metal debris, and other debris in the construction work corridor that have washed into freshwater areas shall be removed from the project area.
- C11. Project activities shall be conducted to minimize siltation of the beach area and bed.
- C12. The Applicant shall operate the barge(s) and tug in deep water so as to minimize nearshore propeller wash impacts such as suspension of nearshore sediments.
- C13. Barges shall not be allowed to ground-out during construction.
- C14. If cast in place, wet concrete/grout shall be prevented from entering waters of the state. Forms for any concrete/grout structure shall be constructed to prevent leaching of wet concrete/grout. Impervious materials shall be placed over any exposed concrete/grout not lined with the forms that will come in contact with state waters. Forms and impervious materials shall remain in place until the concrete/grout is cured.
- C15. Cofferdams shall be sealed in order to minimize turbidity or contaminant from entering Lake Washington Ship Canal during bridge reinforcement construction.

Cofferdam Sheet Pile Driving:

- C16. The cofferdam sheet pile shall be steel.
- C17. The steel sheet piling cofferdams shall be installed using a vibratory hammer whenever possible.

Cofferdam Sheet Pile Removal:

- C18. The cofferdam sheet pile shall be removed from marine waters. All sheet pile shall be removed by vibratory extraction or crane barge.
- C19. The cofferdam sheet pile and any sediment removed during pulling of the sheet pile shall be disposed of at an approved upland disposal site.

D. Conditions for Dredging and Disposal Activities:

- D1. All dredging shall be completed within cofferdams in order to minimize any impacts to water quality.
- D2. All dredged material will be transported to an approved upland disposal site.

- D3. Dredged material shall be placed into a barge or truck for transport by tugboat. The barges shall have sidewalls in order to contain the material within the barge. Barges shall not be overfilled in order to prevent barge overflow. BMPs shall be implemented in order to prevent exceedances of state water quality standards.
- D4. Dredging operations shall be conducted in a manner that minimizes the disturbance or siltation of adjacent waters and prevents the accidental discharge of petroleum products, chemicals, or other toxic or deleterious substances into waters of the state.
- D5. Dredged material shall not be stockpiled on a temporary or permanent basis below the ordinary high water line.
- D6. The Applicant shall provide two (2) copies each of the "Dredging Workplan" to Ecology for review and approval. The workplan shall be submitted to Ecology per Condition A2 of this Order at least 30 days prior to the start of construction. The workplan shall identify methods (including BMPs), procedures, and equipment that will be used and describe how water quality impacts will be minimized during dredging activities. Notification information also shall be included in this workplan.

E. Emergency/Contingency Measures:

- E1. The Applicant shall develop and implement a Spill Prevention and Containment Plan for all aspects of this project.
- E2. The Applicant shall have adequate and appropriate spill response materials on hand to respond to emergency release of petroleum products or any other material into waters of the state.
- E3. Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc., shall be checked regularly for drips or leaks, and shall be maintained and stored properly to prevent spills into state waters.
- E4. Any work that is out of compliance with the provisions of this Order, or conditions causing distressed or dying fish, or any discharge of oil, fuel, or chemicals into state waters, or onto land with a potential for entry into state waters, is prohibited. If these occur, the Applicant shall immediately take the following actions:
 - a. Cease operations at the location of the violation or spill.
 - b. Assess the cause of the water quality problem and take appropriate measures to correct the problem and/or prevent further environmental damage.

- c. Notify Ecology of the failure to comply. All oil spills shall be reported immediately to Ecology's 24-Hour Spill Response Team at 1-800-258-5990, **and** within 24 hours of spills or other events to Ecology's 401/CZM Federal Project Manager at (425) 649-7129 or (425) 649-7000.
- d. Submit a detailed written report to Ecology within five (5) days that describes the nature of the event, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of any samples taken, and any other pertinent information.

Compliance with this condition does not relieve the Applicant from responsibility to maintain continuous compliance with the terms and conditions of this Order or the resulting liability from failure to comply.

F. Timing Requirements

- F1. This Order expires five (5) years from the date of issuance of the U.S. Coast Guard permit.

G. Reporting and Notification Requirement Conditions

- G1. The Applicant shall provide to Ecology's 401/CZM Federal Permit Manager a copy of the final U.S. Coast Guard permit within 2 weeks of receipt of the permit. A copy shall be submitted per condition A2 above.
- G2. Applicant shall provide notice to Ecology's 401/CZM Federal Project Manager at least three (3) days prior to the start of construction and within 14 days after completion of construction at the project site. Notification, referencing U.S. Coast Guard #10-N-06, Order #8548 can take place by telephone to (425) 649-7129 or (425) 649-7000, fax to (425) 649-7098, or in writing.

YOUR RIGHT TO APPEAL

You have a right to appeal this Order to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do the following within 30 days of the date of receipt of this Order:

- File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.

- Serve a copy of your appeal and this Order on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

ADDRESS AND LOCATION INFORMATION

Street Addresses	Mailing Addresses
<p>Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503</p> <p>Pollution Control Hearings Board 1111 Israel Rd SW STE 301 Tumwater, WA 98501</p>	<p>Department of Ecology Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608</p> <p>Pollution Control Hearings Board PO Box 40903 Olympia, WA 98504-0903</p>

CONTACT INFORMATION

Please direct all questions about this Order to:

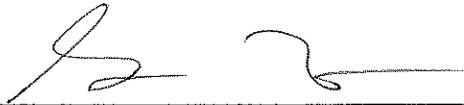
Rebekah Padgett
Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008
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MORE INFORMATION

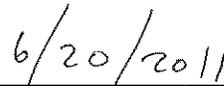
- Pollution Control Hearings Board Website**
www.eho.wa.gov/Boards_PCHB.aspx
- Chapter 43.21B RCW - Environmental Hearings Office – Pollution Control Hearings Board**
<http://apps.leg.wa.gov/RCW/default.aspx?cite=43.21B>
- Chapter 371-08 WAC – Practice And Procedure**
<http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08>
- Chapter 90.48 RCW – Water Pollution Control**
<http://apps.leg.wa.gov/RCW/default.aspx?cite=90.48>
- Chapter 173-204 WAC – Sediment Management Standards**
www.ecy.wa.gov/biblio/wac173204.html
- Chapter 173-200 WAC – Water Quality Standards for Ground Waters of the State of Washington**
www.ecy.wa.gov/biblio/wac173200.html

Chapter 173-201A WAC – Water Quality Standards for Surface Waters of the State of Washington
www.ecy.wa.gov/biblio/wac173201A.html

SIGNATURE



Geoff Tallent, Section Manager
Shorelands and Environmental Assistance Program
Northwest Regional Office



June 20, 2011

ATTACHMENT A

**SEATTLE DEPARTMENT OF TRANSPORTATION
BALLARD BRIDGE SEISMIC RETROFIT PROJECT
Water Quality Certification Order #8548**

**Statement of Understanding of
Water Quality Certification Conditions**

I have read and understand the conditions of Order #8548 Section 401 Water Quality Certification for the Seattle Department of Transportation Ballard Bridge Seismic Retrofit Project. I have also read and understand all permits, plans, documents, and approvals associated with the project referenced in this Order.

Signature

Date

Title

Company