



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

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October 12, 2010

Mr. Todd Olson  
PacifiCorp Energy  
825 N.E. Multnomah  
Portland, OR 97232

Re: Condit Dam Decommissioning Project 401 Water Quality Certification Order No. 8049


Dear Mr. Todd Olson:

We have reviewed PacifiCorp's request for certification under Section 401 of the Federal Water Pollution Control Act (Clean Water Act) (33 U.S.C. § 1341) for the Condit Dam Decommissioning Project (FERC No. 2342) in Klickitat and Skamania Counties, Washington. On behalf of the State of Washington, the Department of Ecology (Ecology) certifies that reasonable assurance exists that the project will comply with applicable provisions of 33 U.S.C. §§ 1311, 1312, 1313, 1316, and 1317, and other appropriate requirements of State law; subject to and limited by the conditions stated by the enclosed Order.

The enclosed Order may be appealed by following the procedures described in the Order.

If you have any questions, please contact Loree' Randall at 360-407-6068.

Sincerely,



Kelly Sussewind, PE, PG  
Water Quality Program Manager

KS:kb  
Enclosure

cc: Dianne Rodman, FERC  
Ann Miles, FERC  
Dave Howe, WDFW  
Kristen Hafer, Corps





**IN THE MATTER OF GRANTING A ) ORDER NO. 8049**  
**WATER QUALITY ) Condit Dam Decommissioning Project**  
**CERTIFICATION TO ) (FERC No. 2342)**  
**PacifiCorp Energy ) Klickitat and Skamania Counties, Washington**  
in accordance with 33 U.S.C. 1341 )  
(FWPCA § 401), RCW 90.48.120, RCW )  
90.48.260 and Chapter 173-201A WAC )

**TO: Mr. Todd Olson**  
**Project Manager**  
**PacifiCorp Energy**  
**825 N.E. Multnomah Street**  
**Suite 1500**  
**Portland, Oregon 97232**

On May 10, 2010, PacifiCorp Energy requested that the Washington State Department of Ecology (Ecology) certify the proposed removal of Condit Dam, pursuant to section 401 of the Federal Clean Water Act, 33 U.S.C. § 1341, and RCW 90.48.260. This request follows previous requests for 401 Water Quality Certification (Certification) since June 15, 2001, when PacifiCorp submitted an original request. From that date forward, PacifiCorp has annually withdrawn and simultaneously resubmitted their request to allow additional time to address issues raised about the proposed project. The proposed project is located on the border between Klickitat and Skamania Counties (45.767142 degrees N lat/-121.538284 degrees W long).

## **1.0 NATURE OF THE PROJECT**

Condit Hydroelectric Project includes a 125-foot-high concrete dam approximately 3.3 miles upstream of the White Salmon River's confluence with the Columbia River. The dam forms a 92-acre reservoir, Northwestern Lake, which extends 1.8-miles upstream of the dam. Water is diverted from the reservoir at the dam and flows for about a mile through a wood-stave pipeline and steel penstocks to a powerhouse. There, the water flows through turbines to generate electricity before being discharged to the river at the powerhouse tailrace. The powerhouse's two Francis-type turbine generators have a combined generating capacity of 14.7 megawatts. Because the project does not include fish passage facilities, the dam blocks fish access to several miles of habitat upstream of the dam.

The dam removal will directly meet the objectives of the Clean Water Act, "to restore and maintain the chemical, physical, and biological integrity" of the nation's waters (CWA 101(a)). The reservoir will be replaced by a free-flowing river that reflects the natural or minimally impacted conditions of the system. The most notable of the beneficial effects would accrue to the fish and aquatic organisms that would use the free-flowing stream. With the removal of the dam and old cofferdams, Lower Columbia River Chinook salmon would regain free and unrestricted access to about 14 miles of historic habitat and steelhead would regain free and unrestricted access to about 33 miles. The project will improve spawning and rearing habitat within the river downstream of the dam, and facilitate natural movement of gravel and large

woody debris from the upper watershed. Decommissioning the project will eliminate the potential for fish stranding and redd dewatering during startup and shutdown, as well as any potential for the tailrace and tailrace flows to cause mortality in spawning anadromous fish. A whitewater recreational boating use will be created in the area of Northwestern Lake. The current, small increase in water temperature below Condit Dam from the discharge of warmed reservoir surface water will be eliminated. Elevated concentrations of mercury in the fish caught in the area of the reservoir will decrease as the natural sediment transport in the system is restored.

The project is described within the JARPA submitted to Ecology on July 14, 2009 and includes:

- Removal of the dam and associated gates and other hardware.
- Removal of a cofferdam on the bed of the reservoir that was used during the original construction of the dam.
- Removal of the wood-stave pipeline, surge tank, the steel penstocks, and the electrical substation and transmission lines.
- Removal of the upper wall of the powerhouse tailrace retaining wall and filling in the tailrace. The powerhouse building will be prepared for long-term storage and retained.
- Reconfiguration of the Mt. Adams Orchard irrigation water supply.
- Removal of docks on Northwestern Lake.
- Reconfiguration of Northwestern Lake boat launch.
- Stabilization of Northwestern Lake Bridge.
- Channel modifications to the White Salmon River, Buck Creek, Little Buck Creek, Mill Creek and unnamed tributaries.
- Restoration of the former reservoir area.
- Construction of temporary access roads.
- Removal and rerouting of utility lines, as needed.
- Temporary modification to USFW White Salmon pond raceways intake.
- Maintenance of USFW Spring Creek Fish hatchery ladder entrance, if needed.

A loss of approximately 2.8 acres of lake fringe wetlands will be unavoidably impacted by the proposed project. These impacts are expected to be mitigated by the establishment of riverine and slope wetlands within 1 to 5 years of dam removal.

## 2.0 AUTHORITIES

In exercising authority under Section 401 of the Clean Water Act (33 U.S.C. § 1341), RCW 90.48.120 and RCW 90.48.260, Ecology has reviewed 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. Sections 1311, 1312, 1313, 1316, and 1317 (FWPCA §§ 301, 302, 303, 306, and 307);
- 2) Conformance with the state water quality standards as provided for in Chapter 173-201A WAC authorized by 33 U.S.C. § 1313 and by Chapter 90.48 RCW, and with other appropriate requirements of state law; 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.

### **3.0 WATER QUALITY STANDARDS**

This Certification supports the goals of the State of Washington Water Pollution Control Act (Chapter RCW 90.48). The Certification describes a program to effectively monitor and evaluate conditions and progress as the designated aquatic life uses of the waterbody are fully attained. This certification directly carries out the Clean Water Act's objective "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters" (CWA 101(a)).

### **4.0 WATER QUALITY CERTIFICATION CONDITIONS**

In view of the foregoing and in accordance with Section 401 of the Clean Water Act (33 U.S.C. § 1341), RCW 90.48.260 and Chapter 173-201A, Ecology finds reasonable assurance that the proposed project will comply with the applicable provisions of 33 U.S.C. Sections 1311, 1312, 1313, 1316, and 1317, state and federal water quality standards and other appropriate requirements of state law provided the following conditions of this Order are met.

Within this Certification, Ecology is requiring the use of an Adaptive Management process. Adaptive Management means an iterative and rigorous process is used to improve decision-making and achievement of objectives. It is intended to improve the management of natural resources affected by the project in order to achieve desired objectives as effectively and efficiently as possible. The project proponent has incorporated an adaptive management approach into its management plans (Table 1), and this Certification specifies that additional conditions for the project must be included in final plans and actions during the course of the project.

The project will cause brief exceedances of water quality criteria in the White Salmon River and the Columbia River. Longer duration exceedances of the turbidity criterion in the Columbia River, in the White Salmon River, and in the Columbia River adjacent to the mouth of the White Salmon River will occur. However, dam removal will provide permanent benefits to fish, other aquatic life, and recreational uses. Because the current project does not include fish passage facilities, the dam blocks fish access to several miles of habitat upstream of the dam.

In the White Salmon River, within and downstream of the former reservoir, sustained exceedances of the turbidity criterion and any other adverse water quality effects will occur for up to several months after the dam is breached. Brief, intermittent effects may occur thereafter with diminishing frequency for a period that cannot be precisely determined because the effects are dependent on the size and frequency of future flood events. The total duration of exceedances that will occur more than two years after the dam is breached, is unlikely to exceed more than a few days or weeks.

This Certification grants the Applicant a 10-year compliance schedule to attain compliance with water quality standards, as authorized by WAC 173-201A- 510(4). Compliance with this

Certification constitutes compliance with applicable water quality standards. During this compliance schedule the Applicant will remove the existing dam structure and minimize the duration of any impacts to water quality, sediment quality, and wetlands. The compliance schedule is comprised of (1) interim limits in the form of requirements to minimize impacts and monitoring and reporting requirements, and (2) a final limit, requiring full compliance with all applicable water quality standards (WAC173-201A) that shall be met by the end of the ten-year compliance schedule. Removal of the dam and achievement of restoration performance criteria and other conditions of this Certification shall constitute the Applicant's compliance with applicable water quality standards. The interim limits include use of an adaptive management approach that will allow adjustments of monitoring and actions as needed during the ten-year compliance schedule and that will help ensure that effects on water quality are minimized and the final limit is met. Specific requirements of the compliance schedule are indicated in the text below and summarized in Attachment A.

#### **4.1 General Conditions**

- 1) The Project shall comply with all water quality standards (currently codified in WAC 173-201A), ground water standards (currently codified in WAC 173-200), and sediment quality standards (currently codified in WAC 173-204) and other appropriate requirements of state law that are related to compliance with such standards. Compliance with this Certification constitutes compliance with applicable water quality standards. The conditions in Section 4 provide a detailed strategy to achieve compliance with state water quality standards, as allowed under WAC 173-201A- 510(4), Compliance Schedules. The conditions in Section 4 provide reasonable assurance that the Project will meet water quality standards.
- 2) For purposes of this Order, the term "Applicant" shall mean PacifiCorp Energy and its agents, assignees and contractors.
- 3) For purposes of this Order, all submittals required as conditions shall be sent to Ecology's Headquarters Office Attn: Federal Project Coordinator, P.O. Box 47600, Olympia, WA 98504-7600 or via e-mail (preferred), if possible, to the Coordinator assigned to this project. Notifications shall be made via phone or e-mail (preferred). All submittals and notifications shall be identified with Order No. 8049 and include the Applicant's name, project name, project location, the project contact and the contact's phone number.
- 4) The Applicant shall notify Ecology's Federal Project Coordinator in accordance with condition 4.1(3) above for the following activities:
  - a. At least seven (7) days prior to the pre-construction meeting,
  - b. At least seven (7) days prior to the onset of initiating work on the project site,
  - c. At least seven (7) days prior to the dam breaching,
  - d. At least seven (7) days within project completion,
  - e. Immediately when the project is out of compliance with any conditions of this Order,

- f. Immediately notify Ecology's Southwest Regional Office at 360-407-6300 and within 24 hours of spills to Ecology's Federal Project Coordinator for any spills to water or ground,
- g. Notify the National Response Center at 1-800-424-8802 for spills to water.

- 5) Work authorized by this Order is limited to the work described in the JARPA received by Ecology on July 14, 2009, Project Removal Design Report dated January 15, 2010 and the following Management Plans, unless otherwise authorized by Ecology.

Table #1

Plan Name	Prepared By	Date
Aquatic Resources Protection Plan & Appendix B	Inter-fluve and Kleinfelder	May 29, 2009
Dust Control Plan	Mead & Hunt and Kleinfelder	May 27, 2009
Environmental Monitoring Plan	Kleinfelder	September 22, 2010
Erosion Control Plan	Kleinfelder	January 6, 2010
Historic Properties Management Plan	Mead & Hunt	September 15, 2010
Public Safety and Traffic Control Plan	HDR and Kleinfelder	May 28, 2009
Quality Control and Inspection Program	Mead & Hunt and Kleinfelder	May 28, 2009
Recreation Facility Removal and Improvement Plan	Green Works and Kleinfelder	June 3, 2009
Revegetation and Wetlands Management Plan	Green Works and Kleinfelder	January 4, 2010
Sediment Assessment, Stabilization, and Management Plan	Inter-fluve and Kleinfelder	January 8, 2010
Spill Prevention, Control and Countermeasure Plan (SPCC Plan)	PacifiCorp Energy	June 8, 2009
Woody Debris Management Plan	Inter-fluve and Kleinfelder	May 29, 2009

- 6) The Applicant shall obtain Ecology review and approval before undertaking any change to the proposed project that might significantly and adversely affect water quality (other than project changes required or considered by this Order).
- 7) Within 30 days of receipt of updated information, 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.

- 8) This Order shall be rescinded if the Corps of Engineers does not issue a Section 404 Permit and/or FERC does not issue a FERC license.
- 9) Copies of this Order and associated permits, licenses, and approvals shall be kept on the project site and readily available for reference by Ecology personnel, the construction superintendent, construction managers and lead workers, and state and local government inspectors.
- 10) The Applicant shall provide access to the project site, all staging areas 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.
- 11) 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 orders 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. The Applicant reserves all rights to challenge Ecology's authority to issue additional orders or to make modifications to this Order, and to challenge the substance of any additional orders or modifications to this Order.
- 12) In the event of changes or amendments to the state water quality, ground water quality, or sediment standards, or changes in or amendments to the state Water Pollution Control Act (RCW90.48), or changes in or amendments to the Clean Water Act, Ecology will issue an administrative order to incorporate any such changes or amendments applicable to this project. The Applicant reserves all rights to challenge Ecology's authority to issue an administrative order under this condition and to challenge the substance of any administrative order issued pursuant to this condition.
- 13) The Applicant shall ensure that all project engineers, contractors, and other workers at the project site with authority to direct work have read and understand relevant conditions of this Order. The Applicant shall provide Ecology a signed statement (see Attachment B for an example) from each signatory that she/he has read and understands the conditions of this Order. These statements shall be provided to Ecology 15 days prior to starting on-site work. For those project engineers, contractors and other workers that start working on the project after it has started, the signed statements shall be submitted to prior directing work.
- 14) Failure of any person or entity to comply with the Order may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce the terms of this Order.



#### 4.2 Upland Activities including Equipment and Staging Areas

- 1) The Applicant shall obtain and comply with the current National Pollutant Discharge Elimination System Construction Stormwater General Permit (NPDES Permit) for this project.
- 2) *Interim Limit.* The Applicant shall submit a final "Erosion Control Plan" which includes any changes and/or additions required by this Order to Ecology's Federal Project Coordinator for review and approval at least 90 days prior to initial project mobilization. Once approved by Ecology the Applicant shall implement the approved plan.
- 3) *Interim Limit.* If changes to the "Erosion Control Plan" occur as part of the Adaptive Management process the Applicant shall submit a revised plan to Ecology for review and approval prior to implementing the changes.
- 4) All environmental sensitive areas including but not limited to, wetlands, wetland buffers, and mitigation areas that are not to be disturbed shall be clearly marked (by site preservation line or flagging) prior to commencing construction and/or demolition activities. These areas shall be protected throughout construction of the project.
- 5) Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, foreign sediments or chemicals, or any other toxic or deleterious construction materials are allowed to enter or leach into the river.
- 6) *Interim Limit.* All temporary roads and staging areas related to the construction and/or demolition work shall be removed within 1-year of the dam breach, unless access is needed to fulfill obligations of the revegetation and mitigation plan(s). The Applicant shall notify Ecology's Federal Project Coordinator within one week after the last area has been removed and restored.
- 7) All construction and/or demolition debris and materials temporarily stored on-site shall be placed in a manner that does not adversely affect waters of the state, including wetlands, unless otherwise authorized by Ecology.
- 8) Staging areas<sup>1</sup>, storage areas, and stockpile sites<sup>2</sup> shall be located a minimum of 50 feet and, where practicable 200 feet from waters of the state, including wetlands, unless otherwise conditioned in this Order. If any of these areas or sites must be located within 50 feet of a water of the state, then the Applicant shall notify Ecology's Federal Project Coordinator, per condition 4.1(4) for written approval prior to using those areas or sites.

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<sup>1</sup> A staging area is a location on the project site where materials are brought from off-site or from a stockpile site or storage area to be cued up for near term use.

<sup>2</sup> A stockpile or storage area is a location where large amounts of material are stored for future use on a project.

- 9) Equipment and vehicle-fueling shall not occur within 50 feet of waters of the state, including wetlands, unless authorized by Ecology.
- 10) Fuel hoses, oil drums, oil fuel transfer valves and fittings, etc. shall be maintained on upland areas in order to prevent contamination of surface waters.
- 11) Wash water containing oils, grease, or other pollutants shall not be discharged into state waters. The Applicant shall set up a designated area for washing equipment.
- 12) Cleaning solvents or chemicals used for tool or equipment cleaning shall not be discharged to the ground or waters of the state, including wetlands.

#### **4.3. General In-water Activities**

- 1) For the purpose of the Order any work below the Ordinary High Water Mark (OHWM) of Northwestern Lake shall be considered in-water work, until a new OHWM is designated for the White Salmon River within the reservoir area.
- 2) The Applicant shall implement the following conditions for all in-water activities in addition to any activity specific condition within the Order, unless approved by Ecology.
  - a. Equipment authorized to work in flowing waters shall be free of any external petroleum products and all drive mechanisms (wheels, tracks, tires, etc.) shall be pressure-washed to remove accumulations of soil or other materials.
  - b. The Applicant shall use biodegradable hydraulic fluid for all equipment used below the Ordinary High Water Line.
  - c. The Applicant shall implement instream BMPs per the project management plans during these in-water activities (e.g., use of silt curtains).

##### **4.3.1 Northwestern Lake Bridge**

- 1) *Interim Limit.* Sixty (60) days prior to implementing either Alternatives 2 or 3 identified with PacifiCorp's letter dated August 27, 2010, PacifiCorps shall submit final design, plans and drawings to Ecology for review and approval.
- 2) The Applicant shall implement the following conditions for both the Sheet Pile Alternative 2 and the Drilled Shaft Piers Alternative 3:
  - a. Minimize disturbance of vegetation when constructing the temporary access road and work platforms. The Applicant shall install erosion control mats and/or silt fencing in work areas adjacent to the river.
  - b. The Applicant shall install silt curtains during sheet pile installation.

- c. All forms for concrete shall be completely sealed to prevent the possibility of fresh concrete entering waters of the state.
  - d. All concrete shall be completely cured prior to coming into contact with water.
  - e. Concrete process water shall not enter waters of the state. Any concrete process/contact water discharged from a confined area with curing concrete shall be routed to upland areas to be treated and infiltrated or disposed of appropriately with no possible entry to state waters.
  - f. Turbid de-watering water associated with in-water work shall not be discharged directly to waters of the state, including wetlands. Turbid de-watering water shall be routed to an upland area for on-site or off-site settling.
  - g. Clean de-watering water associated with in-water work that has been tested and confirmed to meet water quality standards may be discharged directly to waters of the state including wetlands. The discharge outfall method shall be designed and operated so as not to cause erosion or scour in the channel, banks, or vegetation.
  - h. No flocculants shall be used as a BMP for treatment of turbid water associated with in-water work, without prior authorization from Ecology.
- 3) The Applicant shall implement the following conditions for the Sheet Pile Alternative 2:
- a. Backfill the cofferdam and concrete crib structures with granular fill to finish grade elevations.
  - b. Redirect existing drainage culverts to prevent scour near the base of the bridge supports.
  - c. Riprap and other structural material shall be free of fines or other extraneous material.
- 4) The Applicant shall implement the following conditions for the Drilled Shaft Piers Alternative 3:
- a. No structural material may enter waters of the state during demolition of the old pier foundations.
  - b. All excavated material shall be placed in a manner that it does not enter waters of the state including wetlands.

#### **4.3.2. Dam Decommissioning**

- 1) The Applicant shall conduct dam decommission as described in "Project Removal Design Report" prepared by Mead & Hunt and Kleinfelder dated January 15, 2010, except as modified in this Order or revised and approved by Ecology.
- 2) The Applicant shall update the 2004 list of downstream water users and submit the updated list to Ecology 90 day's prior dam removal. The Applicant shall use the updated list to notify the downstream users at least 30 days prior to dam removal.
- 3) During activities to remove concrete, including drilling and blasting, containment measures shall be in place to minimize, to the extent feasible, the amount of concrete debris that inadvertently enters the reservoir, the White Salmon River, or other surface waters.

- 4) *Interim Limit.* The Applicant shall prepare and submit a Blasting Plan to Ecology for review and approval at least 90 days prior to commencing blasting activities. Once approved the Applicant shall implement the plan.
- 5) The Applicant shall construct the drain tunnel with a slight bell shape with the largest diameter downstream.
- 6) If water is used in drilling the drain tunnel the Applicant shall collect as much drill water as possible and remove it from the site. The Applicant shall notify Ecology where the drill water will be disposed of.
- 7) The Applicant shall take measures to prevent clogging of the tunnel. If the tunnel becomes clogged the Applicant shall take immediate measures to clear the clog.
- 8) All demolition debris and other waste material shall be properly managed and disposed of as described in the "Project Removal Design Report and Management Plans," unless otherwise approved by Ecology.
- 9) The following conditions are required as part of the Ecology's approval to dispose of concrete rubble within the flowline area:
  - a. *Interim Limit.* The Applicant shall submit a final design report, plans and specification to Ecology for review and approval 90 days prior to disposing any concrete rubble into the flowline area.
  - b. The Applicant shall maintain daily records of the amount of concrete rubble that is disposed of within the flowline area. These records shall be provided to Ecology upon request.
  - c. *Interim Limit.* The Applicant shall notify Ecology 30 days prior to completing final grade and stabilization.
  - d. *Interim Limit.* Within 60 days of completing the final cover, the Applicant shall submit as-built plans that include locations of impermeable barriers and culverts.
  - e. *Interim Limit.* Within 90 days of completing the final cover the Applicant shall record maps and a statement of fact concerning the location of the concrete rubble as part of the deed with the county auditor.

#### **4.3.3 Sediment Management and Monitoring**

- 1) The Applicant shall manage and monitor the sediments as described in "Sediment Assessment, Stabilization, and Management Plan" prepared by Inter-fluve and Kleinfelder dated January 8, 2010, except as modified in this Order or revised and approved by Ecology.
- 2) The Applicant shall conduct a post-reservoir-dewatering assessment following the dewatering of Northwestern Lake. The assessment shall:

- Map sediment remaining in the reservoir, including tributary mouths
  - Estimate the quantity of sediment remaining within the reservoir
  - Evaluate the stability of remaining slopes and banks in the reservoir and determine corrective actions if necessary,
  - Evaluate fish passage conditions through the former reservoir.
- 3) *Interim Limit.* The Applicant shall submit a post-reservoir-dewatering assessment progress report to Ecology for review within 120 days after breaching the dam. The report shall document progress achieved toward stabilizing the reservoir bed and removing sediment that may impede fish passage. The report shall also include a plan for additional measures that may be necessary to stabilize remaining sediments within the reservoir and any corrective actions taken or needed on unstable slopes. If additional measures or corrective actions are included in the progress report the Applicant shall not implement those measures or actions until approved by Ecology.
- 4) *Interim Limit.* If the Applicant determines that blasting is needed to collapse unstable slopes within the former reservoir area or to remove or dislodge debris from the reservoir, a blasting plan shall be prepared and submitted to Ecology for review and approval one week prior to the planned date of action. The blasting plan shall document the exact location and timing of blasting activities and the necessary safety measures to be employed during execution of the blasting plan. Blasting shall be confined to daylight hours.
- 5) *Interim Limit.* After the reservoir is drained and initial stabilization efforts are completed, the Applicant shall conduct routine field inspections of the reservoir area and of the downstream portion of the White Salmon River. These inspections shall be conducted initially after 1-2 year recurrence interval floods or rainfall events or less if determined to cause sediment mobilization or slope instability until stabilization efforts have become successfully established. After stabilization efforts are functioning successfully inspections shall occur after flood events greater than 5-year recurrence interval. These inspections shall identify unstable slopes, debris jams, fish passage problems, and develop strategies to address the observed conditions. The Applicant shall submit an inspection report to Ecology within 14 days of the inspection; unless corrective action is needed. If corrective action is needed then the Applicant shall submit an inspection report and corrective action plan to Ecology for review and approval prior to implementing the corrective action.
- 6) *Interim Limit.* The Applicant shall prepare a report that compares observed sediment transport dynamics and geomorphic response to assumptions and modeling results presented in the 2004 Sediment Behavior Analysis. A preliminary report will be submitted 60 days after the breach or sooner if sediment transport and geomorphic response exceeds presumed conditions. The final report shall be submitted to Ecology 120 days after the dam is breached.

- 7) *Interim Limit.* The Applicant shall submit results of the LiDAR surveys including the LiDAR data or processed GIS files to Ecology in an annual progress and monitoring reports to be submitted to Ecology by September 30<sup>th</sup> of each year.
- 8) The data collected as part of the sediment monitoring program above will be used to determine when the reservoir has attained a stable condition. A stable condition will generally be attained when:
  - Remaining slopes and banks are stable and do not present a public safety risk,
  - The river within the former reservoir area has attained a stable course and channel width,
  - The amount of sediment released from the reservoir is no longer significant, as determined from water quality (turbidity) measurements and from LiDAR sediment mapping and sediment quantity calculations.
- 9) Upon determination by Ecology that the criteria in condition 4.3.3(8) above have been attained, the Applicant may cease monitoring of the project area for the purposes of sediment management. However, monitoring required as part of other management plans will continue based upon the criteria for those specific monitoring efforts.

#### **4.3.4 Woody Debris Management and Monitoring**

- 1) *Interim Limit.* The Applicant shall manage and monitor woody debris as described in "Woody Debris Management Plan prepared by Inter-fluve and Kleinfelder dated May 29, 2009, except as modified in this Order or revised and approved by Ecology. Monitoring reports shall be submitted to Ecology by the end of the calendar year, starting the calendar year after dam breaching.
- 2) Excavated large woody debris will be removed from the reservoir for offsite disposal and/or used for approved habitat enhancement projects.
- 3) The Applicant shall conduct surveys in the White Salmon River canyon below the dam to identify and dislodge woody debris that may be hindering fish passage or present a threat to public safety. Log jam removal shall only be conducted after consultation with Ecology, Washington State Department of Fish and Wildlife and National Marine Fisheries Service.

#### **4.3.5 Wetland Impacts and Compensatory Mitigation**

- 1) The Applicant shall mitigate wetland impacts as described in "Revegetation and Wetland Management Plan – Condit Hydroelectric Project Decommissioning (FERC PROJECT NO. 2342)" (hereafter called the "mitigation plan") prepared by Greenworks and Kleinfelder, dated January 4, 2010, except as modified in this Order or revised and approved by Ecology.

- 2) The Applicant shall submit any changes to the mitigation plan due to project changes or adjustments made through the adaptive management process. These changes shall be submitted to Ecology in writing for review and approval before work begins.
- 3) To ensure proper evaluation of the establishment of riverine and slope wetlands, the Applicant's wetland professional must be present during all inspections focused on wetland mitigation. These inspections shall be documented and provided to Ecology upon request.
- 4) Seeding used as a temporary erosion control BMP must be a wetland mix consisting of native and non-invasive plant species.
- 5) The Applicant shall not use hay, straw, or Polyacrylamide as a temporary erosion control BMP on exposed or disturbed soil that are proposed to be riverine or slope wetland.
- 6) Upon completion of site-grading and prior to planting, the Applicant shall submit to Ecology written confirmation that the finished grades are consistent with the approved mitigation plan or subsequent Ecology-approved plan changes. Written confirmation can be a signed letter from the surveyor or project engineer indicating how final elevations were confirmed and whether they are consistent with the plan. The required information shall be submitted to Ecology no later than 30 days after completion of the project.
- 7) The Applicant shall monitor the mitigation wetland establishment for a minimum of 5 years. The Applicant shall use the monitoring methods described on page(s) 37-42 and pg 45} of the mitigation plan except that the monitoring shall be for 5 years not 2 as mentioned in bullet #5 on pg 29. On page 45, the monitoring period shall be for a period of at least 5 years following dam removal and not "until performance standards have been met for two consecutive years." If contingency plans are needed then the 5 year monitoring period will begin once the contingency plan, as agreed to by Ecology, has been implemented.
- 8) The Applicant shall maintain all plantings at site to meet the mitigation plan's performance standards.
- 9) The Applicant shall submit monitoring reports (one as an electronic file and one hard copy) to Ecology, documenting site conditions at the mitigation site for the years 1, 3, and 5 or as listed in the mitigation plan, and the reports must contain, at a minimum, the information in Attachment C. Monitoring plans shall be submitted to Ecology by September 30<sup>th</sup> of a given year.
- 10) The Applicant shall revise the mitigation plan to reflect the requirements of condition 4.3.5(7) and 4.3.5(9) above. The revised mitigation plan shall be submitted to Ecology at least 60 days prior to the dam breach for review and formal approval. Dam breach shall not occur until formal approval of the plan.

- 11) When necessary to meet the performance standards, the Applicant shall replace dead or dying plants with the same species, or a native plant alternative appropriate for the location during the first available planting season and note species, numbers, and approximate locations of all replanted materials in the subsequent monitoring report.
- 12) For monitoring year 3, and any subsequent potential delineations, the Applicant shall use the 1997 "Washington State Wetlands Identification and Delineation Manual" (or as updated) to delineate all compensatory wetlands and include delineation information (e.g. data sheets, maps, etc.) in the monitoring reports.
- 13) At the end of the monitoring period, the Applicant shall use the August 2004 "Washington State Wetlands Rating System for {Western or Eastern} Washington" (or as updated) to rate all wetlands (except those that have been preserved), and include the information in the monitoring report.
- 14) If the Applicant has not met all the conditions and performance standards at the end of the monitoring period, Ecology may require additional monitoring and/or additional wetland compensatory mitigation.
- 15) The Applicant's responsibility to complete the required compensatory mitigation as set forth in Condition 4.3.5(1) of this order will not be considered fulfilled until they have received written verification from Ecology.
- 16) If by year 3 after dam breaching at least 4.8 acres of wetland have not naturally established at the former location of Northwestern Lake and downstream, the Applicant shall implement the following contingency plan:
  - Determine the area of wetlands still needed to achieve 4.8 acres through routine delineation,
  - Identify a suitable site within the vicinity of the project area (within the Northwestern Lake footprint, if possible) to be reviewed and approved by Ecology,
  - Develop the details and monitoring procedures in consultation with Ecology,
  - Submit a specific Contingency Plan for the Ecology approved site,
  - Implement actions to develop a wetland(s) on the site,
  - Monitor wetland to verify its establishment for 5 consecutive years.

#### **4.4.0 Environmental Monitoring**

- 1) The Applicant shall conduct all environmental monitoring as described in "Environmental Monitoring Plan – Condit Hydroelectric Project Decommissioning (FERC PROJECT NO. 2342)" prepared by Kleinfelder, dated September 22, 2010, except as modified in this Order or revised and approved by Ecology.
- 2) *Interim Limit.* The Applicant shall submit a final Environmental Monitoring Plan which includes any changes and/or additions to environmental monitoring required by this Order to Ecology's Federal Project Coordinator for review and approval by Ecology at



least 90 days prior to beginning the project. **Work below the OHWM is not authorized to begin until final Ecology approval is received.** Once approved the applicant shall implement the approved plan.

#### 4.4.1 Water Quality Monitoring

- 1) The Applicant shall conduct Water Quality Monitoring per the table #2 below, unless otherwise approve by Ecology.

Table #2

Time Period	Parameter	Locations	Schedule
April – begin 6 months prior to breach, continue until long-term criteria are met	pH, turbidity, stream flow	(1) Confluence of Buck Creek and White Salmon River and (2) Powerhouse	Long-term monitoring with daily data points using fixed monitoring stations and data loggers
September – begin 1 month prior to breach, continue for 9 months (May)	pH	Powerhouse	Continuous in order to capture potential effects from blasting concrete
September – begin 1 month prior to breach, continue until bank stabilization performance criteria are met	Total Suspended Solids (TSS)	(1) Confluence of Buck Creek and White Salmon River and (2) Powerhouse	Weekly grab water sample
October – begin 2 days prior to dredging for drain tunnel, continue until dredging complete	Turbidity	Columbia River Bonneville Pool (mouths of White Salmon River, Little White Salmon River, and Wind River; and at Cascade Locks)	Continuous data logging for turbidity using a fixed monitoring location anchored by a bouy.
October – begin 1 day prior to dam breach, continue for 4 weeks after dam breach	Turbidity	Columbia River Bonneville Pool (mouths of White Salmon River, Little White Salmon River, and Wind River; and at Cascade Locks)	Continuous data logging for turbidity using a fixed monitoring location anchored by a bouy

- 2) *Interim Limit.* Water Quality Monitoring results shall be submitted as outlined below to the Ecology Federal Project Coordinator, per condition 4.1(4), unless otherwise requested by Ecology.

Time period	Reporting Frequency
From 30 days prior to the Dam Breach	Weekly
Day of the Dam Breach	Within 24 hours of the Breach

Week following the Breach	Daily (submit the following morning)
1 <sup>st</sup> Month following the Breach	Weekly
6 Months following the Breach	Monthly
Year(s) after the Breach	September 30th of each year for 10 years. (Note: This information can be part of the annual report required)

- 3) *Interim Limit.* If at any time changes to the Water Quality Monitoring Plan occur as part of the Adaptive Management process the Applicant shall submit a revised Environmental Monitoring Plan to Ecology for review and approval by Ecology. Once approved the applicant shall comply with the approved plan.

#### 4.4. 2 Sediment Quality Monitoring

- 1) *Interim Limit.* The Applicant shall prepare final Sampling and Analytical Plan(s) (SAP) to be submitted for review and approval to the Project Review Group (PRG) of the Regional Sediment Evaluation Team (RSET) a minimum of two months prior to sampling. The SAP(s) will encompass sediment testing (methyl mercury and total mercury) and bioaccumulation testing (total mercury). The SAP(s) shall be maintained and upgraded as necessary throughout the project. Sediment sampling field staff shall read the SAP(s) prior to conducting the monitoring activity and sign a sheet attached to the SAP that states the staff person has read the SAP(s). Sediment sampling equipment will be used in accordance with the SAP(s) and manufacturer's recommendations. Once approved the Applicant shall implement the SAP(s).
- 2) The Applicant shall monitor sediments in the Columbia River to evaluate sediment quality and mercury content as follows:
- The Applicant shall collect sediment samples from four sites in the Columbia River. Three sites will be located downstream of the Condit dam, and one site is located upstream of the White Salmon River mouth (upstream control) at the mouth of the Klickitat River.
  - The Applicant shall ensure that fine-grained materials are collected from the four sediment sampling locations. Prior to collecting the sample the Applicant shall collect near-surface sediment and visually confirm the fine-grain nature of the materials. The sampling location will be adjusted, as appropriate, based on field observations if needed. The location of the sediment sampling locations will be documented using GPS.
  - The applicant shall have sampling events prior to the dam removal, one month after dam removal, and one year after the initial post-dam removal sampling. Additional sampling events may be required if post-dam removal data indicate the system has not achieved pre-dam removal levels.

- d. The Applicant shall have the sediment samples evaluated for grain size, mercury concentrations, and total organic carbon (TOC). Mercury content shall be evaluated both in the total sample collected (methylmercury) and a subsample that consists of only the fine-grained sediment portion (total mercury).
- 3) The Applicant shall run bioaccumulation tests from a single site in the Columbia River to evaluate mercury bioavailability.
- a. The Applicant shall collect sufficient sediments from the mouth of the White Salmon River to obtain five (5) separate analyses for total mercury from laboratory bioaccumulation tests (*Lumbriculus*).
  - b. The Applicant shall ensure that fine-grained materials are collected from the sediment sampling locations. The sampling location will be adjusted, as appropriate, based on field observations if needed. The location of the sediment sampling locations will be documented using GPS.
  - c. The applicant shall have sampling events prior to the dam removal, one month after dam removal, and one year after the initial post-dam removal sampling. Additional sampling events may be required if post-dam removal data indicate the system has not achieved pre-dam removal levels.
  - d. The Applicant shall have *Lumbriculus* from the laboratory bioaccumulation assays evaluated for total mercury concentrations.
- 4) *Interim Limit*. Results from each sampling event shall be reported to Ecology within 45 days from sampling.

#### 4.5 Timing Requirements

- 1) This Order and Compliance Schedule is valid ten years from the date of issuance of this Order.
- 2) Excavation of the drain tunnel shall occur only during July through November.
- 3) The tunnel shall only be breached between October 1 and November 30.
- 4) Excavation of sediment and large woody debris from the upstream face of the tunnel shall occur prior to breaching the tunnel, but not before September 15.
- 5) *Interim Limit*. The cofferdam used during the construction of the dam shall be removed by May 1 of the year following the breaching of the dam. The Applicant must notify Ecology's Federal Project Coordinator within one week of removal of the cofferdam.
- 6) *Interim Limit*. The installation of temporary and permanent replacements for the municipal water line that crosses the reservoir, the structural improvements to

Northwestern Lake Bridge, and the relocation of the Mt. Adams Orchard water intake. All in-water work associated with these activities will be completed by the August 31 following the breaching of the dam. The applicant must notify Ecology's Federal Project Coordinator within one week of the required work that the task is complete.

- 7) *Interim Limit.* By August 31 following the breaching of the dam, PacifiCorp shall extend the boat launch at Northwestern Lake Park to the river channel and post additional signs and an interpretive display at the park. The applicant must notify Ecology's Federal Project Coordinator within one week of completion of these activities.
- 8) *Final Limit.* Ten years from the date of this Order the project shall comply with all applicable water quality standards.

## 5.0 Emergency/Contingency Measures

- 1) The Applicant shall implement actions described in "Spill Prevention, Control and Countermeasure Plan (SPCC Plan) – Condit Hydroelectric Project Decommissioning (FERC PROJECT NO. 2342) prepared by PacifiCorp Energy, dated June 8, 2009 except as modified in this Order or revised and approved by Ecology.
- 2) *Interim Limit.* The Applicant shall submit a final SPCC Plan which includes any changes and/or additions required by this Order to Ecology's Federal Project Coordinator for review and approval by Ecology at least 90 days prior to beginning the project. Once approved the applicant shall implement the approved plan.
- 3) The Applicant shall provide training to all on-site crew on the contents of the plan, assign a foreman to the site, and have the plan and emergency response equipment readily available on site.
- 4) In the event of a spill the Applicant shall immediately report the spill to Ecology's 24-Hour Spill Response Team at (509)575-2490, and within 24 hours to Ecology's Federal Permit Coordinator at (360)407-6068.
- 5) The Applicant shall immediately notify Ecology's Southwest Regional Spill Response office at (360) 407- 6300 if chemical containers (e.g. drums), or any unusual conditions indicating disposal of chemicals are discovered on-site and within 24 hours to Ecology's Federal Permit Coordinator at (360)407-6068.
- 6) In the event the Applicant is unable to comply with any of the conditions of this Order due to any cause, the Applicant shall:
  - Cease operations at the location of noncompliance;
  - Assess the cause of the water quality problem and take appropriate measures to correct the problem and/or prevent further environmental damage;

- Submit a detailed written report to Ecology within five days that describes the nature of the violation, 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 PacifiCorp from responsibility to maintain continuous compliance with the terms and conditions of this Order or the resulting liability from failure to comply.

## 6.0 Appeal Process

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

### CONTACT INFORMATION

Please direct all questions about this Order to:

Loree' Randall	360/407-6068
Department of Ecology	lora461@ecy.wa.gov
SEA Program	
PO Box 47600	
Olympia, WA 98504-7600	

**MORE INFORMATION**

**Pollution Control Hearings Board Website**

[www.eho.wa.gov/Boards\\_PCHB.aspx](http://www.eho.wa.gov/Boards_PCHB.aspx)

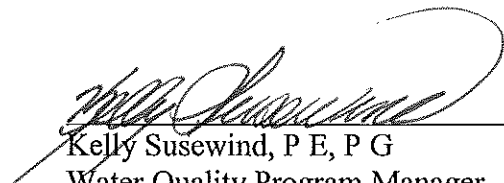
**Chapter 90.48 RCW – Water Pollution Control**

<http://apps.leg.wa.gov/RCW/default.aspx?cite=90.48>

**Chapter 173-201A WAC – Water Quality Standards for Surface Waters of the State of Washington**

[www.ecy.wa.gov/biblio/wac173201A.html](http://www.ecy.wa.gov/biblio/wac173201A.html)

**SIGNATURE**

  
\_\_\_\_\_  
Kelly Sussewind, P E, P G  
Water Quality Program Manager

## Attachment A

### Compliance Schedule Requirements

401 Section	Interim Limit	Date Required
<b>4.2 Upland Activities</b>		
4.2.(2)	The Applicant shall submit a final Erosion Control Plan which includes any changes and/or additions required by this Order to Ecology's Federal Project Coordinator for review and approval. Once approved the applicant shall implement the approved plan.	At least 90 days prior to initial project mobilization.
4.2.(3)	If changes to the Erosion Control Plan occur as part of the Adaptive Management process the Applicant shall submit a revised plan to Ecology for review and approval.	Prior to implementing the changes.
4.2.(6)	All temporary roads and staging areas related to the construction and/or demolition work shall be removed. The Applicant shall notify Ecology's Federal Project Coordinator after the last area has been removed and restored.	Removal within 1-year of the dam breach, unless access is needed to fulfill obligations of the revegetation and mitigation plan(s). Notification within one week after the last area has been removed and restored.
<b>4.3 General Inwater Activities</b>		
<b>4.3.1 NW Lake Bridge</b>		
4.3.1(1)	Sixty (60) days prior to implementing either Alternatives 2 or 3 identified with PacifiCorp's letter dated August 27, 2010, PacifiCorps shall submit final design, plans and drawings to Ecology for review and approval.	Sixty (60) days prior to implementing either Alternatives 2 or 3.
<b>4.3.2 Dam Decommissioning</b>		
4.3.2(4)	The Applicant shall prepare and submit a Blasting Plan to Ecology for review and approval. Once approved the Applicant shall implement the plan.	Submit at least 90 days prior to commencing blasting.
4.3.2(9a)	The Applicant shall submit a final report, plans and specification to Ecology of review and approval prior to disposing any concrete into the flowline area.	90 days prior to disposal.
4.3.2(9c)	The Applicant shall notify Ecology prior to placement of the final cover.	30 days prior to placement.
4.3.2(9d)	The Applicant shall submit as-built plans that includes locations of impermeable barriers and	Within 60 days of completing the final cover.

	culverts.	
4.3.2(9e)	The Applicant shall record maps and a statement of fact concerning the location of the concrete rubble as part of the deed with the county auditor.	Within 90 days of completing the final cover.
4.3.3 Sediment Management		
4.3.3(3)	The Applicant shall submit a post-reservoir-dewatering assessment progress report to Ecology for review after breaching the dam. The report shall document progress achieved toward stabilizing the reservoir bed and removing sediment that may impede fish passage. The report shall also include a plan for additional measures that may be necessary to stabilize remaining sediments within the reservoir and any corrective actions taken or needed on unstable slopes. If additional measures or corrective actions are included in the progress report the Applicant shall not implement those measures or actions until approved by Ecology.	Submit progress report within 120 days after breaching the dam.
4.3.3(4)	If the Applicant determines that blasting is needed to collapse unstable slopes within the former reservoir area or to remove or dislodge debris from the reservoir a blasting plan shall be prepared and submitted to Ecology for review and approval. The blasting plan shall document the exact location and timing of blasting activities and the necessary safety measures to be employed during execution of the blasting plan. Blasting shall be confined to daylight hours.	Submitted one week prior to the planned date of action.
4.3.3(5)	After the reservoir is drained and initial stabilization efforts are completed, the Applicant shall conduct routine field inspections of the reservoir area and of the downstream portion of the White Salmon River after significant high flow or rainfall events that may mobilize significant amounts of sediment or cause slope instability or failure. These inspections shall identify unstable slopes, debris jams, fish passage problems, and develop strategies to address the observed conditions. The Applicant shall submit an inspection report to Ecology after the inspection.	Submit to Ecology within 14 days of the inspection. If corrective action is needed then the Applicant shall submit an inspection report and corrective action prior to implementing the corrective action.
4.3.3(6)	The Applicant shall prepare a report that	Preliminary report submitted



	compares observed sediment transport dynamics and geomorphic response to assumptions and modeling results presented in the 2004 Sediment Behavior Analysis. Preliminary and final reports will be submitted to Ecology.	60 days after the breach or sooner if sediment transport and geomorphic response exceeds presumed conditions. Final report submitted 120 days after the dam is breached.
4.3.3(7)	The Applicant shall submit results of the LiDAR surveys including the LiDAR data or processed to Ecology in an annual progress and monitoring report.	Submitted by September 30 <sup>th</sup> of a given year.
<b>4.3.4 Woody Debris Management</b>		
4.3.4.(1)	The Applicant shall manage and monitor woody debris as described in "Woody Debris Management Plan prepared by Inter-fluve and Kleinfelder dated May 29, 2009, except as modified in this Order or revised and approved by Ecology. Monitoring reports shall be submitted to Ecology.	Submitted to Ecology by the end of the calendar year, starting the calendar year after dam breaching.
<b>4.4 Environmental Monitoring</b>		
4.4.0(2)	The Applicant shall submit a final Environmental Monitoring Plan which includes any changes and/or additions to environmental monitoring required by this Order to Ecology's Federal Project Coordinator for review and approval by Ecology. <b>Work below the OHWM is not authorized to begin until final Ecology approval is received.</b> Once approved the applicant shall implement the approved plan.	At least 90 days prior to beginning the project.
<b>4.4.1 Water Quality</b>		
4.4.1.(2)	Water Quality Monitoring results shall be submitted to the Ecology Federal Project Coordinator, per condition 4.1(4), unless otherwise requested by Ecology.	<b>Time period</b>
		<b>Reporting Frequency</b>
		From 30 days prior to the Dam Breach
		Weekly
		Day of the Dam Breach
		Within 24 hours of the Breach
		Week following the Breach
		Daily (submitted the following morning)
		1 <sup>st</sup> Month following the
		Weekly

		<table><tr><td>Breach</td><td></td></tr><tr><td>6 Month following the Breach</td><td>Monthly</td></tr><tr><td>Year(s) after the Breach</td><td>September 30th of each year for 10 years. (Note: This information can be part of the annual report required)</td></tr></table>	Breach		6 Month following the Breach	Monthly	Year(s) after the Breach	September 30th of each year for 10 years. (Note: This information can be part of the annual report required)
Breach								
6 Month following the Breach	Monthly							
Year(s) after the Breach	September 30th of each year for 10 years. (Note: This information can be part of the annual report required)							
4.4.1.(3)	If at any time changes to the Water Quality Monitoring Plan occur as part of the Adaptive Management process the Applicant shall submit a revised Environmental Monitoring Plan to Ecology for review and approval by Ecology. Once approved the applicant shall comply with the approved plan.	Prior to implementing any changes to water quality monitoring.						
4.4.2 Sediment Monitoring								
4.4.2.(1)	The Applicant shall prepare final Sampling and Analytical Plan(s) (SAP) to be submitted for review and approval to the Project Review Group (PRG) of the Regional Sediment Evaluation Team (RSET). The SAP(s) shall be maintained and upgraded as necessary throughout the project. Sediment sampling field staff shall read the SAP(s) prior to conducting the monitoring activity and sign a sheet attached to the SAP(s) that states the staff person has read the SAP(s). Sediment sampling equipment will be used in accordance with the SAP(s) and manufacturer's recommendations. Once approved the Applicant shall implement the SAP(s).	A minimum of two months prior to sampling.						
4.4.2.(4)	Results from each sampling event shall be reported to Ecology.	Within 45 days from sampling.						
4.5 Timing								
4.5(5)	The cofferdam used during the construction of the dam shall be removed following the breaching of the dam. The applicant must notify Ecology's Federal Project Coordinator that the task is	Cofferdam removal by May 1 of the year following the breaching of the dam. Notification within one week						

	complete.	of the required work.
4.5(6)	The installation of temporary and permanent replacements for the municipal water line that crosses the reservoir, the structural improvements to Northwestern Lake Bridge, and the relocation of the Mt. Adams Orchard water intake. The applicant must notify Ecology's Federal Project Coordinator that the task is complete.	All in-water work completed by the August 31 following the breaching of the dam. Notification within one week of the required work.
4.5(7)	PacifiCorp shall extend the boat launch at Northwestern Lake Park to the river channel and post additional signs and an interpretive display at the park. The applicant must notify Ecology's Federal Project Coordinator that the task is complete.	Extend boat launch and signage by the August 31 following the breaching of the dam. Notification within one week of completion of the activities.
4.5.8	The project shall comply with all applicable water quality standards.	Ten years from the date of this Order.

**ATTACHMENT B**

**Condit Dam  
Decommissioning Project  
Water Quality Certification Order #8049**

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

I have read and understand the conditions of Order #8049 Section 401 Water Quality Certification for the Condit Dam Decommissioning Project. I have also read and understand all permits, plans, documents, and approvals associated with the project referenced in this order.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

**Attachment C**  
**Required Information for Monitoring Reports**  
**(See Condition 4.3.5(a))**

**CONDIT DAM DECOMMISSIONING PROJECT**  
**Water Quality Certification Order #8049**

**FERC #2342**

Ecology requires the following information, for monitoring reports submitted under this Order. Ecology will accept additional information that may be required by other regulators.

**Background Information**

- 1) Project name
- 2) Ecology docket number, FERC's reference number and the Corps reference number
- 3) Name and contact information of the parties responsible for the mitigation site including:
  - a) The Applicant
  - b) The Landowner
- 4) Name and contact information for the party responsible for the monitoring activities and report
- 5) Who the report was prepared for (name, address, and phone number) *{if different from number 3 above.}*
- 6) Month and year the monitoring data were collected
- 7) Month and year the report was produced

**Mitigation Project Information**

- 8) Brief description of the mitigation project including:
  - a) Directions to the site
  - b) Acreage and type(s) (re-establishment, rehabilitation, creation, enhancement, and preservation) of mitigation authorized to compensate for wetland impacts
- 9) Brief description of monitoring approach and methods.
- 10) A list of the goals and objectives for the mitigation project
- 11) Summary table of monitoring data compared with performance standards as identified in the wetland mitigation plan. Using the monitoring data, describe how the site is developing toward goals and objectives and whether the project is in compliance with performance standards
- 12) Summary (including dates) of management actions (maintenance, contingencies, and corrective actions) implemented at the site(s)
- 13) Summary of any difficulties or significant events that occurred on the site that may affect the ultimate success of the project
- 14) Specific recommendations for any additional corrective actions or adaptive management with a time table
- 15) Summary of any lessons learned

- 16) Site maps (8 1/2" x 11" or larger) of the compensatory mitigation site(s) including the following (at a minimum):
  - a) The month and year when the maps were produced and, if applicable, when information was collected.
  - b) The geographic location of the site with landmarks.
  - c) Clear delineation of the project perimeter(s).
  - d) Species, numbers, and approximate locations of all replanted material vegetation.
  - e) Location of habitat features.
  - f) Location of permanent photo stations and location of any other photos.
  - g) Location of sampling points or transects.
- 17) Photographs taken at permanent photo stations (and other photographs as needed) from the most recent monitoring visit, which are dated and clearly indicate the direction from which the photo was taken. We recommend photo pans.