



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
1250 W Alder St • Union Gap, WA 98903-0009 • (509) 575-2490

March 7, 2016

Mike Kaputa  
Chelan County Natural Resources Department  
411 Washington Street, Suite 201  
Wenatchee, WA 98801

RE: Water Quality Certification Order No. **13166** for Corps Public Notice No. **NWS-2015-780 (NWP 27)** Nason Creek Upper White Pine Floodplain Reconnection Project, Chelan County, Washington

Dear Mr. Kaputa:

On August 31, 2015, Chelan County Natural Resources Department submitted a Joint Aquatic Resource Permit Application (JARPA) to the Department of Ecology (Ecology) requesting a Section 401 Water Quality Certification under the Federal Clean Water Act for Nason Creek Upper White Pine Floodplain Reconnection Project near Merritt in Chelan County, Washington.

The Nason Creek Upper White Pine Floodplain Reconnection Project is located on Nason Creek from River Mile 13.3 to River Mile 13.85, near Merritt, Chelan County, Washington. The project is located at Latitude 47.786865 N, Longitude 120.863889 W and is located within Sections 4 & 5, Township 26 North, and Range 16 East of the Willamette Meridian.

The Upper White Pine Floodplain Reconnection Project will remove a levee and infrastructure (transmission lines) to restore floodplain connectivity, channel migration processes, and improve in-stream aquatic habitat in Nason Creek (between River Mile 13.3-13.85). The project proposes to remove approximately 0.5 mile of the river left levee and to restore stream channel meanders to increase sinuosity and reduce confinement. These actions will increase the flood prone area by 10 to 27 acres (2 year to 100 year event, respectively). The proposed project will incorporate engineered large wood structures, engineered large wood cover habitat, wetland creation, and native vegetation planting.

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.



Mike Kaputa  
Chelan County Natural Resources Department  
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If you have any questions, please contact Andrea Jedel at (509) 454-4260. The enclosed Order may be appealed by following the procedures described in the Order.

Sincerely,



Gary Graff, PWS  
Regional Section Manager  
Central Regional Office  
Shorelands and Environmental Assistance Program

Enclosures

By certified mail: 7014 3490 0001 5528 0007

cc: Jennifer Hadersberger, Chelan County  
Jim Green, U.S. Army Corps of Engineers  
Amanda Barg, WDFW  
[ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov) – Ecology HQ  
Andrea Jedel – Ecology Central Regional Federal Permit Coordinator

**IN THE MATTER OF GRANTING A ) ORDER # 13166**  
**WATER QUALITY ) Corps Reference No. NWS-2015-780 (NWP**  
**CERTIFICATION TO ) 27)**  
**Chelan County Natural Resources ) The Nason Creek Upper White Pine Floodplain**  
**Department ) Reconnection Project located near Merritt in**  
in accordance with 33 U.S.C. 1341 ) Chelan County, Washington.  
(FWPCA § 401), RCW 90.48.120, RCW )  
90.48.260 and Chapter 173-201A WAC )  
)

TO: Mike Kaputa  
Chelan County Natural Resources Department  
411 Washington Street, Suite 201  
Wenatchee, WA 98801

On August 31, 2015 Chelan County Natural Resources Department submitted a Joint Aquatic Resource Permit Application (JARPA) to the Department of Ecology (Ecology) requesting a Section 401 Water Quality Certification. On January 21, 2016 the U.S. Army Corps of Engineers authorized the project with Nationwide Permit (NWP) 27, Aquatic Habitat Restoration, Establishment, and Enhancement Activities. A public notice regarding the request was distributed by Ecology for the above-referenced project pursuant to the provisions Chapter 173-225 WAC on January 29, 2016.

The Nason Creek Upper White Pine Floodplain Reconnection Project is located on Nason Creek from River Mile 13.3 to River Mile 13.85, near Merritt, Chelan County, Washington. The project is located at Latitude 47.786865 N, Longitude 120.863889 W and is located within Sections 4 & 5, Township 26 North, and Range 16 East of the Willamette Meridian.

The Upper White Pine Floodplain Reconnection Project will remove a levee and infrastructure (transmission lines) to restore floodplain connectivity, channel migration processes, and improve in-stream aquatic habitat in Nason Creek (between River Mile 13.3-13.85). The project proposes to remove approximately 0.5 mile of the river left levee and to restore stream channel meanders to increase sinuosity and reduce confinement. These actions will increase the flood prone area by 10 to 27 acres (2 year to 100 year event, respectively). The proposed project will incorporate engineered large wood structures, engineered large wood cover habitat, wetland creation, and native vegetation planting.

Approximately 1,500 feet of Nason Creek will be re-aligned north of the existing channel between River Mile 13.7 and 13.45. The channel will have pool-riffle habitat and large wood placements. Excavated material from the new alignment will be placed in the existing channel segment to be abandoned. The channel re-alignment work will occur within the 100-year floodplain and will involve conversion of 1.49 acres of Category II

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wetland to stream channel. Placement of buried log jams and floodplain roughness wood will temporarily impact 0.71 acres of Category II wetland.

Mitigation to compensate for conversion of wetlands to stream channel includes creating 0.77 acres of wetland, 1.17 acres of wetland enhancement and 9.65 acres of wetland floodplain reconnection. Wetland enhancement will restore vegetative structure and diversity to an existing emergent wetland situated beneath an existing power line corridor that will be relocated. Reconnection of 9.65 acres of floodplain wetland will increase floodplain inundation acreage and frequency resulting in increased flood storage area within the wetland. Monitoring of compensatory mitigation areas and reconnected floodplain wetland areas will be conducted for a period of 10 years.

#### **AUTHORITIES:**

In exercising authority under 33 U.S.C. § 1341, 16 U.S.C. § 1456, 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, 302, 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

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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:**

1. For purposes of this Order, the term "Applicant" shall mean Chelan County Natural Resources Department, and its agents, assignees and contractors.
2. All submittals required by this Order shall be sent by mail and electronically to Ecology's Central Regional Office, Attn: Andrea Jedel, Federal Permit Coordinator, SEA Program, 1250 W Alder Street, Union Gap, WA 98903. The submittals shall be identified with Order No. 13166 and include the Applicant's name, project name, project location, the project contact and the contact's phone number.
3. Work authorized by this Order is limited to the work described in the JARPA received by Ecology on August 31, 2015, unless otherwise authorized by Ecology. 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.
4. The Applicant shall obtain Ecology review and approval before undertaking any changes to the proposed project that might significantly and adversely affect water quality, other than those project changes required by this Order.
5. Within 30 days of receipt of any 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.
6. This Order does not exempt, and is provisional upon compliance with other statutes and codes administered by federal, state, and local agencies.
7. 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.
8. 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.

9. 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. Furthermore, Ecology retains continuing jurisdiction to make modifications hereto through supplemental order, if additional impacts due to project construction or operation are identified or if additional conditions are necessary to further protect water quality.
10. 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 (RCW 90.48), or the federal Clean Water Act, Ecology will issue an administrative order to incorporate any such changes or amendments applicable to this project.
11. 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.
12. 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.
13. 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.
14. This Order will automatically transfer to a new owner or operator if:
  - a. A written agreement between the Applicant and new owner or operator with the specific transfer date of the Order's obligations, coverage, and liability is submitted to Ecology per condition A.2.;
  - b. A copy of this Order is provided to the new owner or operator; and
  - c. If Ecology does not notify the new Applicant that this Order must be modified to complete the transfer.

## **B. Water Quality**

1. This Order does not authorize temporary exceedances of water quality standards beyond the limits established in WAC 173-201A-200 (1)(e)(i).

## **C. Water Quality Monitoring**

1. The Applicant shall submit a water quality monitoring plan to Ecology 30 days prior to commencement of any site work. This plan shall be approved by Ecology prior to any site or in-water work. The plan shall include at a minimum the following information:
  - a. Name and contact information of the person or firm responsible for monitoring;
  - b. Map of sample locations including background and point of compliance at or near the surface and bottom depths. For this project the point of compliance is a radius of 300 feet from the activity causing the turbidity exceedance.
  - c. Parameter(s) to be monitored: turbidity
  - d. Sample method;
  - e. Frequency, and
  - f. Steps to be taken if monitoring results indicate an exceedance has occurred. The amount of the exceedance and the reason for the exceedance shall also be reported.
2. Turbidity monitoring reports shall be sent weekly by email to the Federal permit coordinator, per Condition A2. The permit coordinator shall be contacted within 24 hours if an exceedance occurs.

## **D. Construction Conditions**

1. The Applicant shall hold a pre-construction meeting with the construction engineer and/or manager, the general construction contractor, landscape contractor, the certified sediment and erosion control lead, professional biologist, and Ecology a minimum of two (2) weeks before construction begins.
2. The applicant shall submit a Temporary Erosion and Sediment Control (TESC) plan to Ecology to the Federal permit coordinator at the address shown in Condition A2 at least two (2) weeks prior to the pre-construction meeting. The plan shall include at a minimum staging areas, stockpile locations, refueling locations and haul routes.

3. The Applicant shall obtain and comply with all stormwater requirements within the National Pollutant Discharge Elimination System (NPDES) Stormwater General Permit for Construction Activity for this project.
4. The project shall minimize extensive exposed areas and be phased to complete operations in one section of the site before clearing and grading the next.
5. All work in and near the water shall be done so as to minimize turbidity, erosion, and other water quality impacts. Construction stormwater, sediment, and erosion control Best Management Practices (BMP's) suitable to prevent exceedances of state water quality standards shall be in place before starting clearing, filling and grading work and shall be maintained throughout construction.
6. The project shall be clearly marked and staked prior to construction. Clearing limits, travel corridors, stockpile sites, staging areas, and refueling areas shall be clearly marked. Critical areas and buffers that are to be protected from disturbance shall be marked so as to be clearly visible to equipment operators. Equipment shall enter and operate within the marked clearing limits corridors and stockpile areas.
7. Routine inspections should be conducted to verify that structural controls are maintained and operating effectively throughout construction, and that soil structure and vegetation are maintained within protection areas. If controls are not adequately protecting designated areas, adjust existing or implement additional protection measures.
8. All equipment must be clean and free of oils, hydraulic fluid, and other contaminants prior to entering all areas below the Ordinary High Water Mark (OHWM) of Nason Creek.
9. Equipment used for in-water work during this project operating with hydraulic fluid shall use only those fluids certified as non-toxic to aquatic organisms.
10. 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.
11. Clean Fill Criteria: The Applicant shall ensure that fill placed for the proposed project does not contain toxic materials in toxic amounts.

**E. Mitigation and Monitoring Conditions:**

1. The Applicant shall mitigate wetland impacts as described in the *Nason Creek Upper White Pine Reach Restoration Project Monitoring & Adaptive Management Plan* prepared by Richard Vacirca, USFS and Jennifer Hadersberger, Chelan County Natural Resources Department dated December 2015 and *Nason Creek – Upper White Pine Reach Subreach 2 Stream Habitat Enhancement Chelan County, Washington* Plan Sheets dated December 14, 2015 by Inter-Fluve Inc. (together hereafter called the “Mitigation Plan”) or as modified by this Order or revised and approved by Ecology.
2. The Applicant shall have a wetland professional at the wetland mitigation site(s) to supervise during construction and planting.
3. Unless otherwise approved by Ecology in writing, the Applicant shall begin the compensatory mitigation project before, or concurrent with, impacting wetlands or Ecology may require additional compensation to account for additional temporal loss of wetland functions.
4. The Applicant shall ensure that no material is stockpiled within existing wetlands and their buffers at the wetland mitigation site(s) at any time, unless provided for in the Ecology-approved Mitigation Plan.
5. The Applicant shall ensure that no construction debris is deposited within existing wetland and their buffers at the wetland mitigation site(s) at any time, unless provided for in the Ecology approved Mitigation Plan.
6. The Applicant shall not use polyacrylamide on exposed or disturbed soil at the mitigation site(s).
7. The Applicant shall not use hay or straw on exposed or disturbed soil at the mitigation site(s).
8. If weed-barrier fabric is used on the site, the Applicant shall use only permeable, fully biodegradable, non-toxic weed-barrier fabric for entire-site and/or individual plant weed control. Non-biodegradable plastic weed-barrier fabric shall be used only at the base of individual plants and shall be removed before it starts to break down, before it interferes with plant growth, or before the end of the monitoring period, whichever comes first.

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9. If seeding is used at the wetland mitigation site, the seed mix must contain only native, annual, non-invasive plant species.
10. Within 30 days after completing construction and planting of the mitigation sites, the Applicant shall submit to Ecology an as-built report, including plan sheets, documenting site conditions at Year Zero (see Attachment B).
11. The Applicant shall monitor the mitigation site for a minimum of 10 years. The applicant shall use the monitoring methods described in the Mitigation Plan.
12. The Applicant shall submit to Ecology monitoring reports documenting mitigation site conditions for years 1, 2, 3, 5, 7, and 10. Groundwater monitoring data and floodplain vegetation data shall be submitted at years 5 and 10 as specified in the Mitigation Plan. Mitigation monitoring plans shall include the Applicant's name, project name, Order No. 13166, Corps Reference No. NWS-2015-780, project location, contact and contact's phone number (see Attachment C).
13. Be submitted by December 31 of each monitoring year. Include one hard copy and one electronic file.
14. If the Applicant has not met all conditions and performance standards for the mitigation site at the end of the monitoring period, Ecology may require additional monitoring, additional mitigation, or both.
15. The Applicant shall implement the Mitigation Plan's contingency measures if the Mitigation Plan's goals, objectives, or performance standards are not being met.
16. Prior to implementing contingency measures not specified in the Mitigation Plan, the Applicant shall consult with and obtain written approval from Ecology for the changes.
17. When necessary to meet the performance standards, the Applicant shall replace dead or dying plants with the same species, or an appropriate native plant alternative, during the first available planting season and note species, numbers, and approximate locations of all replacement plants in the subsequent monitoring report.
18. For monitoring years five (5) and ten (10) the Applicant shall use the currently approved federal wetland delineation manual and appropriate regional supplement

to delineate all compensatory wetlands and include delineation information (e.g. data sheets, maps, etc.) in the monitoring reports.

19. Until the Applicant has received written notice from Ecology that the Mitigation Plan has been fully implemented, the Applicant's obligation under Condition D.1 to mitigate for wetland impacts is not met.
20. If irrigation systems are used for watering mitigation plantings, the Applicant shall remove any and all irrigation system components at the earliest opportunity following the cessation of necessary irrigation. The applicant shall remove the irrigation system components before the growth of vegetation hampers the removal to minimize damage to the mitigation plantings. All irrigation components shall be removed prior to the end of the monitoring period.

#### **F. Timing Requirements**

1. This Order is valid until December 31, 2028.
2. All in-water work shall be completed during the in-water work window of July 1 to July 31<sup>st</sup> of any given year. Any project change that requires a new or revised in-water work window should be sent to Ecology for review and approval.

#### **G. Notification Requirements**

1. The Applicant shall provide written notification (email or mail) to Ecology's Central Regional Office Federal Permit Coordinator in writing at least 14 days prior to the start of construction, and within 7 days after completion of construction at the project site. Notification should be made using all the information required in Condition A2.

#### **H. Emergency/Contingency Measures:**

1. The Applicant shall develop and implement a spill prevention and containment plan for this project and shall have spill cleanup material available on site at all times during construction.
2. Any work that is out of compliance with the provisions of this Order, 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 or operator shall immediately take the following actions:

- a. Cease operations that are causing the compliance problem.
  - b. Assess the cause of the water quality problem and take appropriate measures to correct the problem and/or prevent further environmental damage.
  - c. In the event of a discharge of oil, fuel, or chemicals into state waters, or onto land with a potential for entry into state waters, containment and cleanup efforts shall begin immediately and be completed as soon as possible, taking precedence over normal work. Cleanup shall include proper disposal of any spilled material and used cleanup materials.
  - d. Immediately notify Ecology's 24-Hour Spill Response Team at 1-800-258-5990, the National Response Center at 1-800-424-8802 and within 24 hours of spills or other events Ecology's 401 Federal Permit Coordinator at (509) 454-4260.
  - e. 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.
3. 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.
  4. 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, including wetlands. No refueling of equipment shall occur over, or within 100 feet of creeks, rivers, lakes, or wetlands.
  5. If at any time during work the proponent finds buried chemical containers, such as drums, or any unusual conditions indicating disposal of chemicals, the proponent shall immediately notify Ecology using the above phone numbers.

#### **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 all of 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.

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- 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:

Andrea Jedel, PWS  
Department of Ecology  
Central Region Office  
1250 W Alder Street  
Union Gap, WA 98903

(509) 454-4260  
andrea.jedel@ecy.wa.gov

#### MORE INFORMATION

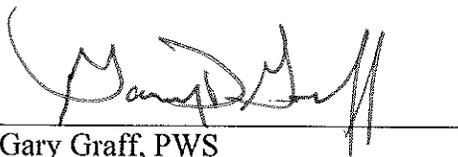
- **Pollution Control Hearings Board Website**  
[www.eho.wa.gov/Boards\\_PCHB.aspx](http://www.eho.wa.gov/Boards_PCHB.aspx)

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- **Chapter 43.21B RCW - Environmental and Land Use 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 34.05 RCW – Administrative Procedure Act**  
<http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05>
- **Chapter 90.48 RCW – Water Pollution Control**  
<http://apps.leg.wa.gov/RCW/default.aspx?cite=90.48>
- **Chapter 173.204 Washington Administrative Code (WAC) Sediment Management Standards**  
<http://www.ecy.wa.gov/biblio/wac173204.html>
- **Chapter 173-200 WAC Water Quality Standards for Ground Waters of the State of Washington**  
<http://www.ecy.wa.gov/biblio/wac173200.html>
- **Chapter 173-201A WAC Water Quality Standards for Surface Waters of the State of Washington**  
<http://www.ecy.wa.gov/biblio/wac173201A.html>

**SIGNATURE**

DATED this 7<sup>th</sup> day of March, 2016, at Union Gap, Washington.



Gary Graff, PWS  
Regional Section Manager  
Shorelands & Environmental Assistance Program  
Central Regional Office – Ecology  
State of Washington

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

Nason Creek Upper White Pine Floodplain Reconnection Project  
Chelan County Natural Resources Department  
Water Quality Certification Order No. **13166**  
and  
Corps Reference No. **NWS-2015-780 (NWP 27)**

I, \_\_\_\_\_, state that I will be involved as an agent or contractor for Chelan County Natural Resources Department in the site preparation and/or construction of the Nason Creek Upper White Pine Floodplain Reconnection Project located near Merritt in Chelan County, Washington. I further state that I have read and understand the relevant conditions of Washington Department of Ecology Water Quality Certification Order No. 13166 and the applicable permits and approvals referenced therein which pertain to the project-related work for which I am responsible.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Company



## **Attachment B**

### **Information Required for As-built Reports**

*Nason Creek Upper White Pine Floodplain Reconnection Project*  
Water Quality Certification Order #13166  
And  
Corps Reference # NWS-2015-780 (NWP 27)

Ecology requires the following information for as-built reports submitted under this Order. Ecology will accept additional information that may be required by other agencies.

#### **Background Information**

- 1) Project name.
- 2) Ecology Order number and the Corps reference number.
- 3) Name and contact information of the person preparing the as-built report. Also, if different from the person preparing the report, include the names of:
  - a) The applicant
  - b) The landowner
  - c) Wetland professional on site during construction of the mitigation site(s).
- 4) Date the report was produced.

#### **Mitigation Project Information**

- 5) Brief description of the **final** mitigation project with any changes from the approved plan made during construction. Include:
  - a) **Actual** acreage of Cowardin classes and mitigation type(s) (re-establishment, rehabilitation, creation, enhancement, preservation, upland, buffers).
  - b) Important dates, including:
    - i. Start of project construction.
    - ii. When work on the mitigation site began and ended.
    - iii. When different activities such as grading, removal of invasive plants, installing plants, and installing habitat features began and ended.
- 6) Description of any problems encountered and solutions implemented (with reasons for changes) during construction of the mitigation site(s).
- 7) List of any follow-up actions needed, with a schedule.
- 8) Vicinity map showing the geographic location of the site(s) with landmarks.
- 9) Mitigation site map(s), 8-1/2" x 11" or larger, showing the following:
  - a) Boundary of the site(s).
  - b) Topography (with a description of how elevations were determined).
  - c) Installed planting scheme (quantities, densities, sizes, and approximate locations of plants, as well as the source(s) of plant material).
  - d) Location of habitat features.
  - e) Location of permanent photo stations and any other photos taken.Include the month and year when each map was produced or revised. The site map(s) should reflect on-the-ground conditions after the site work is completed.
- 10) Photographs taken at permanent photo stations and other photographs, as needed. Photos must be dated and clearly indicate the direction from which each photo was taken. Photo pans are recommended.



**Attachment C**  
**Information Required for Monitoring Reports**

*Nason Creek Upper White Pine Floodplain Reconnection Project*  
Ecology Order # 13166  
And  
Corps Reference # NWS-2015-780 (NWP 27)

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

**Background Information**

- 1) Project name.
- 2) Ecology Order number and the Corps reference number.
- 3) Name and contact information of the person preparing the monitoring report. Also, if different from the person preparing the report, include the names of:
  - a) The applicant
  - b) The landowner
  - c) The party responsible for the monitoring activities.
- 4) Dates the monitoring data were collected.
- 5) Date the report was produced.

**Mitigation Project Information**

- 6) Brief description of the mitigation project, including acreage of Cowardin classes and mitigation type(s) (re-establishment, rehabilitation, creation, enhancement, preservation, upland, buffers).
- 7) Description of the monitoring approach and methods. For each performance standard being measured provide the following information:
  - a) Description of the sampling technique (e.g., monitoring point for soil or hydrology, line or point intercept method, ocular estimates in individually placed plots). If you are using a standardized technique, provide a reference for that method.
  - b) Size and shape of plots or transects.
  - c) Number of sampling locations and how you determined the number of sampling locations to use.
  - d) Percent of the mitigation area being sampled.
  - e) Locations of sampling (provide a map showing the locations), how you determined where to place the sampling locations (e.g., simple random sample), and whether they are permanent or temporary.
  - f) Schedule for sampling (how often and when).
  - g) Description of how the data was evaluated and analyzed.
- 8) Summary table(s) comparing performance standards with monitoring results and whether each standard has been met.

- 9) Discussion of how the monitoring data were used to determine whether the site(s) is meeting performance standards.
  - 10) Goals and objectives and a discussion of whether the project is progressing toward achieving them.
  - 11) Summary, including dates, of management actions implemented at the site(s), for example, maintenance and corrective actions.
  - 12) Summary of any difficulties or significant events that occurred on the site that may affect the success of the project.
  - 13) Specific recommendations for additional maintenance or corrective actions with a timetable.
  - 14) Photographs taken at permanent photo stations and other photographs, as needed. Photos must be dated and clearly indicate the direction the camera is facing. Photo pans are recommended.
  - 15) Vicinity map showing the geographic location of the site(s) with landmarks.
  - 16) Mitigation site map(s), 8-1/2" x 11" or larger, showing the following:
    - a) Boundary of the site(s).
    - b) Location of permanent photo stations and any other photos taken.
    - c) Data sampling locations, such as points, plots, or transects.
    - d) Approximate locations of any replanted vegetation.
    - e) Changes to site conditions since the last report, such as areas of regrading, a shift in the location of Cowardin classes or habitat features, or a change in water regime.
- Include the month and year when each map was produced or revised. The site map(s) should reflect on-the-ground conditions during the most recent monitoring year.