



HYDRAULIC PROJECT APPROVAL

Washington Department of
Fish & Wildlife
PO Box 43234
Olympia, WA 98504-3234
(360) 902-2200

Issued Date: September 05, 2014
Project End Date: August 29, 2019

Permit Number: 2014-2-51+01
FPA/Public Notice Number: N/A
Application ID: 1201

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
Chelan County Natural Resources ATTENTION: Mike Kaputa 316 Washington Street Suite 401 Wenatchee, WA 98801	Chelan County Natural Resources Department ATTENTION: Mike Kane 316 Washington St, Suite 401 Wenatchee, WA 98801

Project Name: Coulter Creek Culvert Replacement

Project Description: Currently, Coulter Creek flows under Dardenelles road through two existing 20 foot long 24" diameter metal culverts with a 10" slope. These culverts are currently a fish passage barrier due to the slope and high outfall drop. These culverts will be removed and replaced with one 40' long arch pipe culvert with dimensions 13'5" by 8'5". The reason for a longer replacement culvert is that the road bed will need to be raised 2' higher to accommodate the larger diameter culvert and this will increase the width of the road fill slope in the vicinity of the replacement culvert. The bankfull width of Coulter Creek is current ~6' wide and the new culvert will provide a 9.5' span of Coulter Creek. The revised slope in the replacement culvert will be approximately 3.5%. The culvert has been sized to accommodate the 100 year event flow. Once the existing culverts have been removed, the exposed banks will be stabilized by lining the 1½ :1 slopes with a 2' deep layer of gravel backfill. Erosion control fabric and seeding will also help stabilize the road fill slopes. Native plants will be used to re-vegetate all disturbed soils.

PROVISIONS

1. This Hydraulic Project Approval (HPA) allows for the removal and replacement of the two 20' x 24" round culverts with a 40' x 13'-5" x 8'-5" pipe arch culvert. No other work is authorized by this HPA.
2. **TIMING LIMITATIONS:** The project may begin immediately and shall be completed by August 29, 2019, PROVIDED;
 - a) Work below the Ordinary High Water Line (OHWL) associated with the project shall be conducted only between August 15 and October 30 of any calendar year unless further permission is obtained from WDFW.
 - b) Vegetation shall be planted within in 1 year of in water work completion if flow allows. Additional time may be requested in writing if needed.
 - c) Vegetation success of 80% after three seasons shall be assured prior to the end date of this permit.
3. **NOTIFICATION REQUIREMENT:** Prior to the start of construction activities Enforcement Officer Christopher Erhardt shall be notified by phone at 509-662-0452 or by email at Christopher.Erhardt@dfw.wa.gov at least 24 hours before starting work at the above locations. The notification shall include the application ID number located in the upper right hand corner of the HPA, date and time of work.
4. **NOTIFICATION REQUIREMENT:** The Area Habitat Biologist Amanda Barg shall receive notification at amanda.barg@dfw.wa.gov or 509-888-8004 no less than three working days prior to start of work, and again within seven days of completion of work to arrange for a compliance inspection. The notification shall include the permittee's name, project location, starting date for work or completion date of work, and the application ID number for this HPA.
5. Work shall conform to plans and specifications submitted with the hydraulic project application AND approved



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addendums and submitted modifications to the application, except as modified by this approval. A copy of those plans and specifications, and the application, must be on-site during construction.

6. Chelan County Natural Resource Department shall monitor and ensure project compliance with the provisions of this HPA.

SITE PREPARATION

7. Prior to commencement of work within the ordinary high water line, the permittee shall stake the crossing site(s) to delineate the road way prism and the culvert inlet and outlet. The permittee shall also arrange a pre-construction meeting on site with the contractor and WDFW to discuss the plan of work including method for construction of temporary bypass(es), dewatering of work area(s), and other work related to protection of water quality and fish life. No work shall begin within the ordinary high water marks until staking is approved and completion of the pre-construction meeting.

8. Alteration or disturbance of the bank and bank vegetation shall be limited to that necessary to construct the project.

9. The project shall be clearly marked/staked prior to construction. Clearing limits, work/travel corridors, plant materials to be salvaged, and material storage and stockpile sites shall be clearly identified to workers and operators. Sensitive areas to be protected from disturbance shall be delineated so as to be clearly visible to equipment operators. Equipment shall enter and operate only within the delineated clearing limits, work corridors, and stockpile areas.

10. Flows and weather conditions shall be monitored daily, for events that may cause extremely high flows. In such events all equipment and any deleterious materials shall be removed from work areas located within the potential reach of high water until flows have abated.

11. Temporary erosion control measures shall be implemented as necessary to ensure that earth, sediment and runoff from the work area are not discharged to the stream.

EQUIPMENT AND WORKSITE LIMITATIONS

12. The culverts shall be installed during a period of low stream flow. Installation shall be done in isolation from the flowing stream, by using a temporary stream bypass at the culvert site.

13. The culverts shall be installed by a trackhoe or equivalent machinery operating from the bank. Except as noted in provision 14 below, all vehicles and equipment shall work from outside of the ordinary high water line.

14. If necessary to gain working position, one round trip ford crossing of the creek with the trackhoe, or similar equipment, is authorized at each crossing location.

TEMPORARY WATER BYPASS

15. A temporary bypass to divert flow around the work area shall be in place prior to initiation of other work in the wetted perimeter. A piped bypass, isolated with a coffer dam, shall be the approved bypass method.

16. A sandbag revetment or similar device shall be installed at the bypass inlet to divert the entire flow through the bypass.

17. A sandbag revetment or similar device shall be installed at the downstream end of the bypass to prevent backwater from entering the work area.

18. The bypass shall be of sufficient size to pass all flows and debris for the duration of the project.

19. Prior to releasing the water flow to the project area, all bank protection or armoring shall be completed.

20. Upon completion of the project all material used in the temporary bypass shall be removed from the site and the



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site returned to preproject or improved conditions.

21. The permittee shall capture and safely move food fish, game fish, and other fish life from the job site. The permittee shall have fish capture and transportation equipment ready and on the job site. Captured fish shall be immediately and safely transferred to free-flowing water downstream of the project site. The permittee may request the Washington Department of Fish and Wildlife assist in capturing and safely moving fish life from the job site to free-flowing water, and assistance may be granted if personnel are available.

22. All individuals participating in fish capture and removal should have training, knowledge and skills in the safe handling of fish.

23. A plan should be designed and available on-site to consider the characteristics and size of the area to be isolated and the sequence of activities that will provide the best conditions for the safe capture and removal of fish.

24. Any device used for diverting water from a fish-bearing stream shall be equipped with a fish guard to prevent passage of fish into the diversion device pursuant to RCW 77.57.010 and 77.57.070. The pump intake shall be screened by one of the following:

- a. Perforated plate: 0.094 inch (maximum opening diameter).
- b. Profile bar: 0.069 inch (maximum width opening).
- c. Woven wire: 0.087 inch (maximum opening in the narrow direction).

The minimum open area for all types of fish guards is 27%. The screened intake shall consist of a facility with enough surface area to ensure that the velocity through the screen is less than 0.4 feet per second. Screen maintenance shall be adequate to prevent injury or entrapment of juvenile fish and the screen shall remain in place whenever water is withdrawn from the stream through the pump intake.

CULVERT INSTALLATION

25. The culvert shall be installed and maintained to ensure unimpeded fish passage.

26. The culvert width at the streambed shall be equal to or greater than the average width of the streambed.

27. The width between the culvert footings for a bottomless culvert shall be equal to or greater than the average width of the streambed.

28. Footings of the bottomless culvert shall be buried sufficiently deep so they will not become exposed by scour within the culvert.

29. The culvert shall be installed to maintain structural integrity to the 100-year peak flow with consideration of the debris likely to be encountered.

30. Fill associated with the culvert installation shall be protected from erosion to the 100-year peak flow.

31. The culvert shall be installed and maintained to avoid inlet scouring and to prevent erosion of stream banks downstream of the project.

32. The culvert facility shall be maintained by the owner(s) per RCW 77.57.030 to ensure continued, unimpeded fish passage. If the structure becomes a hindrance to fish passage, the owner(s) shall be responsible for obtaining an Hydraulic Project Approval and providing prompt repair. Financial responsibility for maintenance and repairs shall be that of the owner(s).

33. The culvert shall be installed in the dry or in isolation from the stream flow by the installation of a bypass flume or culvert, or by pumping the stream flow around the work area.

34. Disturbance of the streambed and banks shall be limited to that necessary to place the culvert and any required channel modification associated with it. Affected streambed and bank areas outside the culvert and associated fill



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shall be restored to preproject configuration following installation of the culvert. Within one year of project completion, the banks shall be revegetated with native or other approved woody species. Vegetative cuttings shall be planted at a maximum interval of three feet (on center) and maintained as necessary for three years to ensure 80 percent survival.

35. Approach material shall be structurally stable.

WATER QUALITY

36. All materials and equipment used for construction, monitoring and fish salvage shall be free of aquatic invasive species. Materials and equipment shall be decontaminated so that no viable invasive species are transported from the job site.

37. Equipment used for this project shall be free of external petroleum-based products. Accumulation of soils or debris shall be removed from the drive mechanisms (wheels, tires, tracks, etc.) and undercarriage of equipment prior to its use within 150 feet of Coulter Creek or any adjacent water body. Equipment shall be checked daily for leaks and any necessary repairs shall be completed prior to commencing work activities.

38. Vehicle staging, cleaning, maintenance, refueling, and fuel storage shall be located a minimum of 150 feet from Coulter Creek, or any other water body.

39. The contractor shall develop an adequate, site specific Spill Prevention and Countermeasure or Pollution Control Plan which shall include: site plan and narrative describing methods of erosion/sediment control; methods for confining/removing/disposing of excess construction materials and measures for equipment washout facilities; a spill containment plan; and, measures to reduce/recycle hazardous and non-hazardous wastes.

40. The spill containment control plan shall include the following information: notification procedures, specific cleanup and disposal instructions for different products, quick response containment and cleanup measures, proposed methods of disposal of spilled materials and employee training on spill containment.

41. Materials for containment and cleanup shall be available on-site during pre-construction, construction and restoration phases of the project.

42. Erosion control methods shall be used to prevent silt-laden water from entering the stream. These may include, but are not limited to, straw bales, filter fabric, temporary sediment ponds, check dams of pea gravel-filled burlap bags or other material, and/or immediate mulching of exposed areas.

43. Prior to starting work, temporary filter fabric, straw bale, or pea gravel-filled burlap bag check dam(s) shall be installed downstream. Accumulated sediments shall be removed during the project and prior to removing the check dam(s) after completion of work.

44. Wastewater from project activities and water removed from within the work area shall be routed to an area landward of the ordinary high water line to allow removal of fine sediment and other contaminants prior to being discharged to the stream.

45. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of flood water in an approved upland disposal site.

46. If high flow conditions that may cause siltation are encountered during this project, work shall stop until the flow subsides.

47. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

48. Fresh concrete or concrete by-products shall not be allowed to enter the stream at any time during this project. All



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forms used for concrete shall be completely sealed to prevent the possibility of fresh concrete from getting into the stream.

49. Material removed from inside the cofferdam shall be disposed of outside the flood plain of the stream.

50. The cofferdam shall be completely sealed to prevent concrete or other deleterious products from leaching into the stream.

51. The sediment plume created by instream work shall not exceed 5 NTUs above background at 100 feet downstream of the project location. Turbidity becomes visible at approximately 5 NTU. If these criteria are exceeded during project implementation or during removal of the temporary cofferdam, work shall be suspended until the criteria are met.

52. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), immediate notification shall be made to the Washington Military Department's Emergency Management Division at 1-800-258-5990, and to the Area Habitat Biologist listed below.

SITE RESTORATION

53. All temporary structures, devices materials or equipment shall be removed from the site by hand or hand held equipment and all waste materials properly disposed of at an upland location.

54. Within seven calendar days of project completion, all disturbed areas shall be protected from erosion using vegetation or other means. Within one year of project completion, the banks, including areas, shall be revegetated with native or other approved woody species. Vegetative cuttings shall be planted at a maximum interval of three feet (on center) and maintained as necessary for three years to ensure 80 percent survival.

55. The final site condition shall ensure that there is no net loss of aquatic productivity, fish or shellfish life or their habitats resulting from this project and shall not produce any negative or longterm impacts to local fish life and their habitat.

56. POST-CONSTRUCTION NOTIFICATION REQUIREMENT: The permittee, agent or contractor shall contact the Washington Department of Fish and Wildlife by e-mail to HPAapplications@dfw.wa.gov; mail to Post Office Box 43234, Olympia, Washington 98501-1091; or fax to (360) 902-2946 within seven days of completion of the work. The notification shall include the permittee's name, project location, completion date for the work, and the Hydraulic Project Approval control number. The department may conduct a compliance inspection; however, the department will notify the permittee or agent prior to the inspection.

LOCATION #1:	Site Name: Coulter Creek Culvert Replacement , COles Corner, WA					
WORK START:	August 15, 2014			WORK END:	October 31, 2014	
<u>WRIA</u>		<u>Waterbody:</u>			<u>Tributary to:</u>	
45 - Wenatchee		Nason Creek (rb)			Wenatchee River	
<u>1/4 SEC:</u>	<u>Section:</u>	<u>Township:</u>	<u>Range:</u>	<u>Latitude:</u>	<u>Longitude:</u>	<u>County:</u>
	11	26 N	16 E	47.765733	-120.802189	Chelan



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Location #1 Driving Directions

From Leavenworth, WA take HWY 2 West towards Seattle. From the intersection of HWY 2 and SR 207 drive 3.3 miles west on Hwy 2 and turn left onto Dardanells Rd. Cross over the railroad tracks. The project site is .1 mile from the tracks.

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW. Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued under RCW 77.55.021 are subject to additional restrictions, conditions, or revocation if the Department of Fish and Wildlife determines that changed conditions require such action. The person(s) to whom this Hydraulic Project Approval is issued has the right to appeal those decisions. Procedures for filing appeals are listed below.

MINOR MODIFICATIONS TO THIS HPA: You may request approval of minor modifications to the required work timing or to the plans and specifications approved in this HPA. A minor modification to the required work timing means up to a one-week deviation from the timing window in the HPA when there are no spawning or incubating fish present within the vicinity of the project. You may request subsequent minor modifications to the required work timing. A minor modification of the plans and specifications means any changes in the materials, characteristics or construction of your project that does not alter the project's impact to fish life or habitat and does not require a change in the provisions of the HPA to mitigate the impacts of the modification. Minor modifications do not require you to pay additional application fees or be issued a new HPA. If you originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a minor modification through APPS. A link to APPS is at <http://wdfw.wa.gov/licensing/hpa/>. If you do not use APPS you must submit a written request that clearly indicates you are seeking a minor modification to an existing HPA. Include the HPA number and a description of the requested change and send by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234, or by email to HPAapplications@dfw.wa.gov. Do not include payment with your request. You should allow up to 45 days for the department to process your request.



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MAJOR MODIFICATIONS TO THIS HPA: You may request approval of major modifications to any aspect of your HPA. Any approved change other than a minor modification to your HPA will require issuance of a new HPA. If you paid an application fee for your original HPA you must pay an additional \$150 for the major modification. If you did not pay an application fee for the original HPA, no fee is required for a change to it. If you originally applied for your HPA through the online Aquatic Protection Permitting System (APPS), you may request a major modification through APPS. A link to APPS is at <http://wdfw.wa.gov/licensing/hpa/>. If you do not use APPS you must submit a written request that clearly indicates you are requesting a major modification to an existing HPA. Include the HPA number, check, and a description of the requested change. Send your written request and payment, if applicable, by mail to: Washington Department of Fish and Wildlife, PO Box 43234, Olympia, Washington 98504-3234. You should allow up to 45 days for the department to process your request.

APPEALS INFORMATION

If you wish to appeal the issuance, denial, conditioning, or modification of a Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW) recommends that you first contact the department employee who issued or denied the HPA to discuss your concerns. Such a discussion may resolve your concerns without the need for further appeal action. If you proceed with an appeal, you may request an informal or formal appeal. WDFW encourages you to take advantage of the informal appeal process before initiating a formal appeal. The informal appeal process includes a review by department management of the HPA or denial and often resolves issues faster and with less legal complexity than the formal appeal process. If the informal appeal process does not resolve your concerns, you may advance your appeal to the formal process. You may contact the HPA Appeals Coordinator at (360) 902-2534 for more information.

A. INFORMAL APPEALS: WAC 220-110-340 is the rule describing how to request an informal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete informal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request an informal appeal of that action. You must send your request to WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. WDFW must receive your request within 30 days from the date you receive notice of the decision. If you agree, and you applied for the HPA, resolution of the appeal may be facilitated through an informal conference with the WDFW employee responsible for the decision and a supervisor. If a resolution is not reached through the informal conference, or you are not the person who applied for the HPA, the HPA Appeals Coordinator or designee will conduct an informal hearing and recommend a decision to the Director or designee. If you are not satisfied with the results of the informal appeal, you may file a request for a formal appeal.

B. FORMAL APPEALS: WAC 220-110-350 is the rule describing how to request a formal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete formal appeal procedures. The following information summarizes that rule.



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C. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS: If there is no timely request for an appeal, the WDFW action shall be final and unappealable.

Habitat Biologist	Amanda.Barg@dfw.wa.gov
Amanda Barg	509-888-8004

Amanda R Barg for Director
WDFW