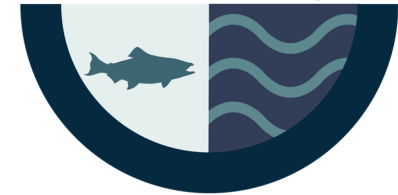




U.S. Department
of Transportation

**Federal Highway
Administration**

Culvert AOP Program



National Culvert Removal Replacement and Restoration Grant Program

Year One [FY 2022] Grant Recipients

For more information, please visit:

<https://www.fhwa.dot.gov/engineering/hydraulics/culverthyd/aquatic/culvertaop.cfm>.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
1	Parks Highway Fish Passage Improvement Plan	State of Alaska	AK	\$20,000,000	The application would replace three culvert sites with bridges and would replace nine sites with appropriate fish passage structures on the Parks Highway in the Susitna River Basin. The completed project would open 51.5 miles of barrier free upstream anadromous habitat and nearly 420 acres of lake habitat.
2	High Priority Fish Passage Restoration at Threemile Creek in Klawock, Alaska	State of Alaska	AK	\$4,504,409	The proposed project will consist of removing two perched culverts on the Craig-Klawock-Hollis Highway that impede fish passage and impact natural channel processes. The application will implement a bridge that spans the bankfull channel. The replacement of this sole barrier on Three Mile Creek will improve fish passage for three anadromous species and two resident fish species providing access to over 1.5 miles of upstream habitat.
3	Port Valdez-Frontal Valdez Arm Watershed	State of Alaska	AK	\$4,258,352	The proposed project is to replace an associated group of eight undersized culverts that are sited within four closely spaced anadromous streams within the boundary of the City of Valdez, AK. The Alaska Department of Fish and Game (ADF&G) has determined that replacement of these undersized culverts with culverts that meet fish passage design criteria will provide 6.87 miles (11.06 km) of new unimpeded access for all life stages of anadromous and resident fishes.
4	Kulixelcan River Culvert Project	Yakutat Tlingit Tribe	AK	\$3,793,988	This application, in partnership with the FH10 AOP Improvement Initiative, proposes to design and replace three culverts on Federal Highway 10 located within the Yakutat City and Borough to restore natural hydrologic conditions, including stream velocity and streambed characteristics. Perched culverts will be replaced to restore natural stream gradients. Two sites need additional design work, while one site has a design in the approval process by the US Forest Service.
5	Naknek River Watershed Culvert Replacements, King Salmon, Alaska	State of Alaska	AK	\$3,746,677	Replacing the Eskimo Creek culvert located on the Alaska Peninsula Highway was the sole high priority culvert replacement identified by the Alaska Department of Fish and Game (ADF&G) during an area wide culvert prioritization effort. The unnamed creek culvert is the only other culvert in the King Salmon-Naknek area rated red by ADF&G, meaning that it is assumed to be inadequate for juvenile fish passage. The replacement of the Eskimo Creek culvert would ensure improved fish passage for two anadromous fish species to at least 5 miles of quality upstream anadromous habitat. Replacing the unnamed creek culvert would provide unobstructed fish passage to 0.55 miles of downstream habitat, 0.85 miles of upstream rearing habitat, and access to two ponds.
6	Eyak Lake Weir Restorations	The Eyak Corporation	AK	\$3,494,392	Redesign and reconstruction of the Lake Eyak weir. The weir is located at the head of the Eyak River, just upstream of a Copper River Highway bridge and within the highway ROW. The weir impedes upstream passage of juvenile salmon and other aquatic organisms and presents structural concerns, with the potential for further adverse effects on the ecosystem and downstream infrastructure if not addressed.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
7	Metlakatla Indian Community Watershed-scale Fish Passage Improvement Project	Metlakatla Indian Community	AK	\$1,754,386	This application will fund and support engineering designs, replacement, or removal of six culverts on four anadromous streams (Graveyard, Gillnet, Colby, and Davids Creeks) on the Annette Islands Reserve (AIR) road system that currently restrict fish passage for Coho and pink salmon, chum salmon, coastal cutthroat trout, and Dolly Varden char. Two of these removals will be direct barrier removals via culvert removal, three will be barrier replacement implementation projects, and one other crossing will have an engineering design produced.
8	Meadow Creek Fish Passage Improvement Project, Matanuska-Susitna Basin, Alaska	Knik Tribe	AK	\$1,697,510	The Knik Tribe proposes working with local agencies to replace three undersized and failing culverts along the Cheri Lake tributary to Meadow Creek within the City of Houston, Alaska as part of a larger drainage and culvert improvement plan. The completed project would open 5.72 miles of barrier free upstream anadromous habitat and nearly 38.4 acres of lake habitat to protect the spawning and lifecycle of three Pacific Salmon species. The proposal includes investigation, design, and construction.
9	Yakutat Fish Passage Culvert Replacement Program	Yakutat Tlingit Tribe	AK	\$837,717	This application includes planning of up to 5 final designs, assessment and prioritization for culvert replacement, and monitoring of projects after construction is completed. DOD will fund the actual construction. . This project is located is the Ankau Saltchucks (Yakutat, Alaska) on former military road. The project will provide additional co-benefits such as flood control and access for tribal subsistence harvesters. Removing the impediments to migratory salmonid passage will positively open hundreds of acres on the Phipps Peninsula to fish passage.
10	State Route MEN-1 Fish Passage	California Department of Transportation	CA	\$15,000,000	California Department of Transportation (Caltrans) proposes to replace two highway culverts with full-span bridges along State Route (SR) 1 in Mendocino County to remediate anadromous fish passage barriers to Coho salmon and steelhead trout. This work will improve the safety of the traveling public by building a structure with a longer service life and will be more resilient to climate change. In addition, the structures will have wider shoulders which will improve the safety of all roadway users.
11	State Route 9 Waterman Gap Fish Passage Project	California Department of Transportation	CA	\$6,000,000	The Project will support the restoration of fish passage on the San Lorenzo River in Castle Rock State Park. The Project will restore fish passage by removing an undersized corrugated pipe culvert and an upstream concrete weir which are currently barriers to endangered or threatened anadromous fish listed under the Endangered Species Act. A federal investment will replace the culvert with a spanning bridge, restoring the streambed to mimic natural conditions. The weir will be removed.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
12	Avenue of the Giants Fish Passage	California Department of Transportation	CA	\$5,000,000	California Department of Transportation (Caltrans) proposes to replace two fish passage barrier culverts with bridges along State Route 254 within Humboldt Redwoods State Park in the Eel River watershed in Humboldt County, California. This application will remediate fish passage barriers for salmon and steelhead trout, which are ESA listed species, and provide anadromous fish access to over 4,100 meters (2.55 miles) of high-quality spawning and rearing habitat in Chadd Creek and Mowry Creek.
13	Campbell Creek Culvert Replacement Project	Napa County	CA	\$1,315,490	The Campbell Creek Culvert Replacement is a proposal by Napa County to replace the existing Dry Creek Road Culvert with a bottomless arch bridge precast concrete culvert (bottomless arch culvert); re-grade the stream channel through and upstream of the culvert so that the channel profile is continuous; and lay back and restore the stream banks along approximately 160 linear feet of the creek above the culvert's inlet to resolve channel incision and reduce sediment deposition along the reach.
14	Stockton East Culvert Crossing Projects	Stockton East Water District	CA	\$1,000,000	Stockton East Water District will replace three fish barriers (low water agricultural crossings), one of which is accompanied by a drop crossing. Replacing the four barriers with concrete box culverts will open up a total of 12.75 river miles of habitat for the Central Valley Steelhead and the Chinook salmon.
15	Wiyot Tribe Butte Creek Fish Barrier Replacement Design	Wiyot Tribe	CA	\$470,000	The Wiyot Tribe proposes to design a new stream crossing structure to replace a culvert and provide unimpeded access to the headwaters of the watershed. The existing double-barrel culvert (each 13-feet wide x 3-feet tall x 75-feet long) on Butte Creek occurs along a road maintained by the Bureau of Land Management (BLM) Arcata Field Office.
16	SH-14 Five Culvert AOP Replacements	Transportation, Idaho Department of	ID	\$3,157,350	This application will replace five culverts along Idaho State Highway 14 (SH-14) with open bottom arch culverts to allow for fish passage. This application would include design and construction work. The Idaho Transportation Department is partnering with USFS and the Nez Perce Tribe on this project.
17	US-12 Big Smith and Swede Creek (AOP) Replacement, Idaho County, Idaho	Transportation, Idaho Department of	ID	\$2,298,981	The Idaho Transportation Department (ITD) is proposing a culvert replacement at Big Smith Creek that located in the unincorporated town of Syringa, Idaho. At this location, Big Smith Creek flows under US-12 before entering the Middle Fork of the Clearwater River in Idaho County, Idaho. US-12 lies within the Nez Perce-Clearwater National Forests (NPCNF) boundary. This application will improve aquatic organism passage (AOP) at Big Smith Creek by replacing the existing culvert under US-12 with a bridge.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
18	Castle Creek Culvert (AOP) Replacement	Transportation, Idaho Department of	ID	\$1,048,619	The Castle Creek Culvert Replacement project is located along Idaho State Highway 14 (SH-14) at milepost 14.7. At this location, Castle Creek flows under SH-14 before entering the South Fork of the Clearwater River in Idaho County, Idaho. This application will improve aquatic organism passage (AOP) at Castle Creek by replacing the two existing 3-foot diameter culverts under SH-14 with a 14' span x 4' rise three-sided box culvert.
19	Tower Creek Passage Improvement Project	State of Idaho Office of Species Conservation	ID	\$525,000	The purpose of this project is to design and construction a replacement culvert on Tower Creek, located on East Tower Creek Road, off U.S. Route 93. Currently, access to the upper reaches of Tower Creek are inaccessible to all life stages of anadromous and fluvial fish passage. Tower Creek is a high quality, cold water tributary to the Salmon River. The barrier is located approximately 2.25 miles upstream from the confluence with the Salmon River and disconnects passage for ESA listed Snake River spring/summer Chinook salmon, Snake River steelhead, Bull trout, and Westslope Cutthroat trout. By removing this barrier, 10.25 miles of Tower Creek, including the North Fork Tower Creek, will be accessible to these listed species for all life stages.
20	Town Brook Stream Restoration: Deep Water Culvert Replacement	Town of Plymouth	MA	\$2,000,000	This application will fund the design, permitting, and construction for the replacement of two culverts (one which is in disrepair and the other which has high probability for severe scour) and the removal of a no longer functional water control structure on Town Brook, a first order coastal stream that flows from the Billington Sea to Plymouth Harbor. The three culverts are hydraulically connected and currently restrict passage for blueback herring and alewife. The culverts to be replaced both provide vehicular and pedestrian access to residential properties and open space.
21	MaineDOT and DMR Culvert Aquatic Organism Passage (AOP) Program - Sandy River Bundle	Maine Department of Transportation	ME	\$9,237,600	Replacing seven crossings that are barriers to one or more anadromous fish species native to the Sandy River Region of Maine. These seven projects represent restoring access to a total of approximately 20 miles (33,398 meters) of habitat and 493 habitat units of 100 square-meters by replacing seven crossings that are barriers to one or more anadromous fish species native to the Sandy River region of Maine.
22	MaineDOT and DMR Culvert Aquatic Organism Passage (AOP) Program - Downeast Maine Bundle	Maine Department of Transportation	ME	\$9,195,000	These projects will restore access to a total of approximately 37 miles (60,279 meters) of habitat and 519 habitat units by replacing nine crossings that are barriers to one or more anadromous fish species native to Downeast Maine, including Atlantic salmon.
23	MaineDOT and DMR Culvert Aquatic Organism Passage (AOP) Program - Central Maine Bundle	Maine Department of Transportation	ME	\$8,945,221	These projects will restore access over 16 miles (26,277 meters) of habitat and 480 habitat units of 100 square meters by replacing seven structures that are barriers to one or more anadromous fish species native to Central Maine, including Atlantic Salmon.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
24	Reconnecting Habitats for Anadromous Fishes and Tribal Resources in Downeast Maine	Passamaquoddy Tribe	ME	\$7,741,450	The proposed project is for four municipal road-stream culvert replacements in Downeast Maine. These projects will benefit ESA listed Atlantic salmon, rainbow smelt, river herring (blueback herring and alewife), American shad, sea lamprey, Atlantic tomcod, and sea-run brook trout by restoring access to migratory and spawning habitats. Specifically, the projects will open 265 salmon habitat units, 7,631 acres of alewife spawning habitat, and over 45 miles of spawning and migratory habitat for the suite of anadromous species. The four proposed culvert projects included in this application are in Washington county, Maine in the towns of East Machias, Perry, and Pembroke. While projects are not directly on current Passamaquoddy tribal land, these projects fall within the traditional Passamaquoddy homeland and will impact fisheries and resources important to the Tribe.
25	Replacement of Culvert (structure # BP-021-2074) over Pembroke Creek on State Road (SR) 1202 (Hickory Fork Road) in Chowan County, North Carolina to Improve Aquatic Organism Passage	North Carolina Department of Transportation	NC	\$472,000	The application requested funding to upgrade an existing culvert to a single box culvert design. The existing crossing structure over Pembroke Creek is a two barrel 60" x 52" Corrugated Metal Pipe Culvert, with a streambed to crown clearance of 7.02'. The two pipes are severely deteriorated and experience frequent blockages from drift and have contributed flooding issues during major storms.
26	Bellamy River Fish Passage Restoration Project - Advancing Design and Permitting for the Upgraded Replacement of the Bellamy Road Culvert in Dover, NH	City of Dover, NH	NH	\$421,600	This application will advance restoration project development (design, engineering, and permitting) for the upgraded replacement of the Bellamy Road culvert, which will enhance five fish species and open 5.2 miles of stream habitat connectivity.
27	State of Oregon Culvert Aquatic Organism Passage	Oregon Department of Fish and Wildlife	OR	\$9,250,000	This project will fund Oregon Department of Fish and Wildlife (ODFW) to replace culverts in the Rogue River watershed. ODFW in partnership with Oregon Department of Transportation (ODOT), Josephine County, and Oregon Wildlife Foundation has identified culvert and fish passage projects on state and county roads that are in critical need of repair to be replaced with a stream simulation design structure to improve habitat connectivity for Chinook salmon, Coho salmon, searun cutthroat trout, and steelhead.
28	Lane County, OR - Shaw Creek Crossing Culvert Replacement, Siuslaw Road MP 36.8	Lane County Public Works	OR	\$2,348,000	This application will install a new fish passage at milepost 36.8 of Siuslaw Road, which is under threat of failure due to the compromised nature of an existing culvert stream crossing at Shaw Creek, a tributary to the main stem of the Siuslaw River. Installing a new stream crossing that provides for fish passage and adequate fluvial function will remove the existing fish passage barrier and hazards while opening up nearly five miles of salmonid spawning habitat, and increase nutrient exchanges and sediment transport through the resulting restored hydrogeomorphic connectivity.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
29	Mill Creek – Brickyard Road AOP Barriers 1106 and 1137 Design and Construction Bundle	Tillamook County	OR	\$1,492,800	The Mill Creek project is part of the Salmon SuperHwy (SSH) strategic effort to restore 95% of historic habitat connectivity for 5 species of anadromous ESA-listed salmonids and Pacific lamprey, while reducing flooding and improving public safety in the flood-prone coastal community of Tillamook County. The application seeks design and construction funding to replace two fish passage barriers on Brickyard Road with structures that meet Federal fish passage requirements.
30	Smith River Basin Priority Passage Projects	Coquille Indian Tribe	OR	\$1,490,792	This application covers the removal and replacement of five culverts and removal or modification of 8 weirs to address access by anadromous fish to approximately 62 river miles in the lower Umpqua River watershed. These projects will improve passage to spawning and rearing habitat for anadromous populations of Chinook Salmon, Oregon Coastal Coho Salmon (ESA listed, threatened), Oregon Coast Steelhead (BLM Sensitive), and Cutthroat Trout, Pacific Lamprey (BLM Sensitive Species) as well as resident populations of Rainbow and Cutthroat Trout, Western Brook Lamprey, and other native fish species.
31	Clackamas County Oregon Culvert AOP Funding Application	Clackamas County, Oregon	OR	\$1,490,320	The Lead Applicant for this project will be Clackamas County, Oregon. It is a design and construction project that would remove the existing culverts, which are passage barriers under certain flow regimes, and replace them with a modular 20' clear span bridge. Conway Creek flows under Aschoff Road in Rhododendron, OR via two degraded and undersized culverts. Aschoff Road has experienced several minor washout and over-topping events. This application would provide access to a minimum of 0.76 miles of upstream spawning and rearing habitat for wild Coho salmon and wild steelhead among other aquatic organisms.
32	Beaver Creek Fish Passage Restoration at Troutdale Rd	Multnomah County	OR	\$1,430,480	The proposal is for the design, right of way acquisition, and permitting phase for the replacement of the existing Troutdale Rd culvert and fish ladder on Beaver Creek with a new at-grade bridge.
33	Palouse Slough Primary Tide Gate Upgrade	Coos County	OR	\$800,000	The proposed project design will remove the existing tide gate and box culvert infrastructure from under the county bridge and install a sheet pile structure upstream of the existing infrastructure with a 4-bay modular tide gate. This proposed primary tide gate upgrade is the first critical step to restoring passage and natural processes in the Palouse subbasin.
34	Myrtle Creek Salmon SuperHwy Fish Passage Restoration Project	Tillamook County	OR	\$617,600	The Myrtle Creek fish passage project seeks construction funding to replace one fish passage barrier on Kilchis River Road with a structure that meets Federal fish passage requirements and will restore habitat for ESA listed Oregon Coast Coho salmon as well as Chinook salmon, Chum salmon, Steelhead trout, Pacific lamprey, and Coastal Cutthroat trout.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
35	Anderson-Drift Creek AOP Culvert Crossing	Lincoln County	OR	\$388,800	Anderson Creek is a tributary of Drift Creek, a major tributary of the Siletz River estuary located approximately 2 miles Southeast of the coastal town of Lincoln City, OR. Anderson Creek historically and currently supports numerous anadromous species of salmonids. The objective of the project is to completely fund Preliminary Engineering to design the replacement of three existing culverts. The project will make the current roadway passable during future flood events and markedly improve AOP for federally protected endangered species.
36	Montague Island Road Culvert Replacement	Virginia Department of Transportation	VA	\$434,400	The Montague Island Road (Route 648) Culvert Replacement project in Middlesex County proposes to replace and improve the existing Mud Creek culvert, located approximately one mile (1,600 meters) upstream from its confluence with the tidally influenced Rappahannock River.
37	Harts Lake Road South at Horn Creek Restoration Project	Pierce County	WA	\$7,600,000	Pierce County is proposing the Harts Lake Road-Horn Creek Restoration Project to replace the culvert that conveys Horn Creek beneath Harts Lake Road South in Pierce County, approximately 4.2 miles southeast of the unincorporated community of McKenna. Replacing this culvert removes a partial barrier to fish migration due to high velocity flows. The application will open access for Chinook, Steelhead, Chum, Coho, and Coastal Cutthroat to more than 4 miles of Horn Creek and tributaries upstream of the Horn Creek Culvert.
38	Clear Creek Watershed Fish Passage BNSF Railway Culvert Replacements	Puyallup Tribe of Indians	WA	\$7,478,240	The Puyallup Tribes propose to remove four fish passage barriers, all of which are culverts, and improve instream habitat for anadromous fish on tributaries of the Puyallup River. The four barriers are located on Clear Creek, a major stream basin on the lower Puyallup River, or tributaries of that stream, all associated with existing culverts under the BNSF Railway. Tributary barriers are located on Swan, Squally, and Canyon creeks. ESA-listed fall Chinook salmon have been documented in Clear Creek and ESA-listed steelhead trout have been documented in all four tributaries. Coho and chum salmon also utilize this watershed, as well as resident trout species. In addition, ESA-listed bull trout have been documented in lower Clear Creek.
39	Bear Creek Basin Fish Passage Project	King County	WA	\$6,849,816	This application bundles three culvert sites within the Bear Creek Basin of Unincorporated King County that are high priorities for fish passage restoration. This application will replace three culverts with culverts at two sites and a bridge at a third. One site "is overtopped by up to one foot of water during relatively minor precipitation events." Project includes improved stormwater treatment and revegetation and some road safety (geometry) improvements.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
40	The Cowlitz Indian Tribe's Hardy Creek Fish Passage Project for the FY22 National Culvert Removal, Replacement, and Restoration Grant Program (Culvert AOP Program)	Cowlitz Indian Tribe	WA	\$5,012,000	This application will remove a documented fish passage barrier located on Hardy Creek, a tributary to the Columbia River, in Skamania County. This application will address the removal of a barrier at the BNSF Railway -Hardy Creek crossing and the installation of a new bridge span. The proposed removal of the culvert barrier beneath the BNSF railroad would restore full anadromous access to 296 meters (970 feet) of spawning and rearing habitat between the BNSF railroad and a documented upstream partial barrier at State Route (SR)-14.
41	Chicken Coop Creek Culvert Restoration Project	Jamestown S'Klallam Tribe	WA	\$4,209,810	The Jamestown S'Klallam Tribe is proposing to complete final designs, permitting, and construction for replacement of two complete fish passage barriers on Chicken Coop Creek, in Clallam County, Washington. The County owns & maintains the two culverts on Chicken Coop Creek, which cross tribally owned lands upstream, and downstream the culvert crossing is adjacent to Trust property. Proposal improves passage for five anadromous species, one of which is an ESA listed species. Chicken Coop creek is identified as adult spawning and juvenile rearing habitat.
42	SR166 - Johnson Creek Fish Barrier Culverts Removal and Estuary Restoration	Washington State Department of Transportation	WA	\$4,171,550	This application will remove the existing series of connected fish-barrier culverts on Johnson Creek to open up approximately 2,928 meters of potential upstream habitat for anadromous fish. The portion of the culvert within the WSDOT right-of-way will be replaced with a new single span bridge to maintain public transportation access into the City of Port Orchard on State Route 166. The sections of culvert immediately upstream of the highway and existing buildings, which are within City jurisdiction, will be entirely removed to eliminate the remainder of the 500-footlong fish barrier, address recurring flooding problems, and restore the historic pocket estuary in their place.
43	Green Cove Creek Fish Barrier Removal - Phase I	Thurston County Public Works	WA	\$3,000,000	This grant request will fund the replacement of the most downstream fish passage barrier in the Green Cove Creek (GCC) watershed. In addition, funding will complete preliminary design for two upstream barriers. These three locations are the key barriers to restore fish access in the GCC watershed. The application is to replace the culvert with a bridge.
44	Springbrook Creek Fish Passage Restoration, Culvert and Weir Removal	City of Bainbridge Island	WA	\$2,568,996	The City of Bainbridge Island is proposing to remove a 60-inch failing culvert (only 33% passable to fish) and weir (100% fish passage barrier) and replacing it with a 60-foot bridge. The goal of the project is to restore fish passage and population capacity within the project reach and upstream, improve in-stream and riparian habitat conditions, and improve the capacity of the stream to accommodate hydrologic changes associated with climate change. Springbrook Creek is designated as critical habitat for ESA listed threatened Puget Sound Steelhead. The project was identified as the number 1 priority restoration project in its watershed as part of a 2018 assessment.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
45	Indian Mary Springs Fish Passage Project	Cowlitz Indian Tribe	WA	\$2,550,000	The Cowlitz Indian Tribe is proposing to replace two undersized 3-ft corrugated culverts on the Indian Mary Springs, a tributary to the Columbia River in the Columbia River Gorge in Skamania County, Washington. The Tribe, in partnership with BNSF Railways, proposes to remove the Indian Mary Springs culverts and associated ballast/fill material at a BNSF Railway crossing, and install a new 90-foot steel bridge crossing. Project benefits include restoring fish access to 2,200 feet of productive wall-based seeps and ground-water resources, restores natural processes, increases juvenile salmonid access to thermal refugia habitat, increase climate resilience, and benefits ESA populations of in-basin and out-of-basin salmon and steelhead species.
46	Workman Creek at Lambert Road Fish Passage	Grays Harbor County	WA	\$2,301,837	The purpose of the Workman Creek at Lambert Road Fish Passage Project is to design, permit, and implement the removal of two fish passage barrier culverts installed under a single road crossing and their replacement with a structure that is fully passable to all aquatic species in Workman Creek. The existing fish passage barrier is under Lambert Road south of Elma, Washington, in Grays Harbor County. This barrier correction will meaningfully restore fish passage for six species of anadromous fish by opening access to 20.73 miles of excellent spawning and rearing habitat in forestland upstream.
47	Pierce County's Brighton Creek at Harts Lake Road S. Culvert Replacement	Pierce County	WA	\$2,007,210	Pierce County is proposing to replace the culvert that conveys Brighton Creek beneath Harts Lake Road South in Pierce County, with a minimum 40-foot span three-sided concrete culvert (bridge) 1 mile east of the unincorporated community of McKenna. Replacing this culvert will remove the lowest downstream fish barrier in Brighton Creek and will open more than 6 miles of upstream habitat, including half a mile of high-quality spawning and rearing habitat for ESA listed steelhead and Coho salmon.
48	Wapato Creek Fish Passage Restoration: The Final 300 Feet	The Port of Tacoma	WA	\$2,000,000	This application will support design and permitting for a solution to a failing culvert that limits aquatic connectivity and threatens operations of a busy international container terminal. Fish passage through the Wapato Creek Culvert is possible only during high tides, which restricts anadromous salmonids' access to upstream habitat.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
49	Squalicum Creek Estuary Restoration, Design	City of Bellingham, Washington	WA	\$1,840,000	This application is part of a larger project to replace two multi-cell culvert crossings at the mouth of Squalicum Creek in Bellingham, Washington, as well as to conduct estuary restoration at said location. The barriers include a railroad spur structure carrying a BNSF railroad facility comprised of six concrete box culverts and a structure on Roeder Avenue that is a three-cell concrete culvert. The overarching project will address barriers to the largest independent coastal stream in the Nooksack River Basin, benefit threatened anadromous fish stocks important to regional salmon recovery efforts, and help reduce urbanized flooding. This funding will be used to advance this design from concept-level to a 60% stage, including significant investigative work, consensus-building and community outreach, and engineering design.
50	Jones Creek Fish Passage BNSF Railway Culvert Replacement	Nooksack Indian Tribe	WA	\$1,238,680	The application will fund the removal of a barrier box culvert in Jones Creek under a BNSF Railway line that is less than 20 meters from the South Fork Noosack River confluence. The Washington Department of Fish and Wildlife classified the site as 33% passable in 2003. The application will replace the culvert with a bridge.
51	Mopang Creek at Walker Road Fish Passage Project	Grays Harbor County	WA	\$931,840	This application will remove a fish passage barrier culvert installed under Walker Road at its crossing over Mopang Creek and replace it with a fully passable structure, benefitting six anadromous fish species including four salmon and two trout species.
52	Whatcom County Fish Passage Restoration Portfolio Development	Whatcom County	WA	\$880,031	This application will fund scoping (survey and base map creation; site geotechnical, hydrology, and hydraulics assessment; obtaining agency concurrence; preparation of 30% designs; and construction cost estimates) on 11 culvert sites around Whatcom County.
53	Middle Creek Culvert Replacement Project	Port Gamble S'Klallam Tribe	WA	\$754,000	This project aims to design the removal and restoration of a 100% fish passage barrier culvert located on Middle Creek. The Middle Creek fish passage barrier(identified as Site ID: 15.0352 in WDFW Inventory) is a high priority project for The Port Gamble S'Klallam Tribe because this stream has been the spawning and rearing ground for Coho, Steelhead, Searun Cutthroat, and Resident Trout.
54	Chenois Creek at Chenois Valley Road Fish Passage	Grays Harbor County	WA	\$753,762	This application will remove two steel culverts installed under a single road crossing of Chenois Creek and replace them with a fully passable structure, benefitting five anadromous fish species including three salmons and two trouts. The proposal will also reconnect the creek with its floodplain.

**National Culvert Removal Replacement and Restoration Grant Program
Year One [FY 2022] Grant Recipients**

Award	Application Name	Applicant	State	Awarded	Application Description
55	Eagle Creek fish passage restoration project	Chelan County	WA	\$744,804	The Eagle Creek Fish Passage Restoration Project will replace 5 fish passage barriers (culverts) in lower Eagle Creek between River Mile (RM) 0.4 and RM 0.6 and open up 750 meters (0.5 RMs) of ESA-listed species habitat to the next upstream barrier located at RM 0.9. The application is part of a watershed scale coordinated effort spanning 27 years to restore accessibility to 20 miles of ESA-listed steelhead and spring Chinook habitat as well as Coho habitat in the Chumstick sub-watershed. All five culvert crossings are located on private driveways with distances ranging from 54 meters to 9 meters from Eagle Creek Road.
56	Garrison Springs Creek/Chambers Creek Road Culvert Replacement	Town of Steilacoom	WA	\$500,000	This application would support design, permitting, engineering, and related studies for the replacement of a culvert under Chambers Creek Road that connects Garrison Springs Creek to Chambers Bay – one of the largest estuary embayments along Puget Sound. Replacing the culvert is a key component to the restoration of the Creek. Once restored and the culvert replaced, Garrison Springs Creek will provide over 1,100 feet of important spawning and rearing habitat for salmonids and other native fish species.
57	Polson Creek Fish Passage Design Project	Grays Harbor County	WA	\$307,142	The purpose of the Polson Creek Fish Passage Design Project is to fund design and the removal of a fish passage barrier culvert, replacing it with a structure that is fully passable to all aquatic species in Polson Creek. This barrier correction will meaningfully restore fish passage for 5 species of anadromous fish by opening access to 5.64 miles of excellent spawning and rearing habitat in forested properties upstream.
58	Berryman Creek at East Hoquiam Road Fish Passage Design Project	Grays Harbor County	WA	\$307,142	This application will involve replacement of a fish passage barrier culvert under a county road crossing on Berryman Creek by designing and permitting the culvert's removal and proceeding to final design of its replacement with a fully passable stream crossing structure.
59	2022 Culvert Aquatic Organism Passage Program Submittal for the Allen Creek at Newaukum Valley Road Fish Passage Design	Lewis County Public Works	WA	\$211,564	This application proposes to provide a final design to remove an existing fish passage barrier at river mile 0.56 of Allen Creek on Newaukum Valley Rd at MP 2.366 and replace it with a fish passable structure. The existing structure consists of two side by side cast in place box culverts approximately 10 ft wide and 7 ft tall, which carry flows from Allen Creek. The structure is 0 percent passable due to a velocity barrier. This proposed fish passable structure, once constructed, is anticipated to restore immediate access to 2.43 miles of habitat for the Southwest Washington Evolutionarily Significant Unit (ESU) of Coho salmon (<i>Oncorhynchus kisutch</i>) and 1.67 miles of habitat for the Southwest Washington Distinct Population Segment (DPS) of winter steelhead trout (<i>Oncorhynchus mykiss</i>).