

# Fish Passage Performance Report



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Environmental Services Office  
Biology Branch  
Stream Restoration Program

# WSDOT FISH PASSAGE PERFORMANCE REPORT

June 30, 2024

*Cover photos: (Top) Chum salmon at Twanoh Creek State Route (SR) 106 post-construction, courtesy of WDFW; (Bottom) US 101 Indian Creek post-construction.*

This report is also available in a pdf format at:

[www.wsdot.wa.gov/construction-planning/protecting-environment/fish-passage](http://www.wsdot.wa.gov/construction-planning/protecting-environment/fish-passage).

Additional data can be obtained by contacting Washington State Department of Transportation's Environmental Services Office or Katrina Keleher: [Katrina.Keleher@wsdot.wa.gov](mailto:Katrina.Keleher@wsdot.wa.gov).

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# Executive Summary

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State highways cross over rivers and streams in thousands of locations throughout Washington. Some crossings can impede fish migration. Since 1991, the Washington State Department of Transportation (WSDOT) has worked to improve fish passage and foster healthy waterways by removing or restoring barriers that can limit or prevent fish and other aquatic species from moving freely to feed, migrate, and reproduce. This report summarizes WSDOT's progress in identifying and correcting fish passage barriers and other related activities completed in the last year.

Statewide there are 4,037 highway crossings on fish bearing waters. Of those, 2,074 are documented fish passage barriers, including 2,040 culverts. Of these, 1,531 block a significant amount of upstream habitat (>200 meters).

WSDOT completed 32 fish passage projects in 2023, improving access to 67.39 miles (108.45 kilometers) of potential upstream habitat. The 32 projects corrected were Federal Court Injunction barrier culverts.

Since 2013, WSDOT has worked to comply with the requirements of a U.S. District Court injunction to correct barriers to salmon and steelhead within the case area. As of June 1, 2024, WSDOT has corrected 146 injunction barrier culverts and restored access to 571.18 miles (919.22 kilometers) of potential habitat for salmon and steelhead. Statewide, WSDOT has completed 420 fish passage barrier corrections to date.



To date, WSDOT has completed 146 injunction fish passage barrier corrections in Washington streams. As a result of this effort, access has been restored to an estimated 571.18 miles\* (919.22 kilometers) of potential upstream habitat, assuming no other human-made obstructions exist in the watershed where the project was completed.

\*The amount of habitat that was previously blocked by fish passage barriers was derived from physical habitat surveys or by using Geographic Information System (GIS) software for sites lacking physical habitat surveys.

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# Introduction

## Background on WSDOT Fish Passage Program

The Washington State Department of Transportation (WSDOT) has long recognized the importance of minimizing the environmental impacts of Washington’s transportation system. As a part of that commitment to the environment, WSDOT created a dedicated program in 1991 to identify and correct barriers that restrict or completely block salmon and trout access to historic spawning and rearing habitat. That same year, WSDOT partnered with the Washington Department of Fish and Wildlife (WDFW) to assist with a comprehensive inventory and assessment of WSDOT owned water crossing structures. With this program, WSDOT identifies high priority barriers and corrects them.

On March 29, 2013, the U.S. District Court issued a permanent injunction requiring the State of Washington to accelerate barrier correction on salmon and steelhead streams within the area subject to the injunction. This area is referred to herein as the “case area”. The case area is that portion of the State of Washington west of the Cascade Mountains and north of the Willapa and Columbia River drainages (Figure 2).

This report summarizes WSDOT’s progress in correcting fish passage barriers during the previous year and over the life of the program. It provides an update on planned work, as well as the results of post-project monitoring and fish presence surveys for completed projects.

The appendices include: a list of barrier culverts subject to the injunction, updates to the WSDOT injunction barrier list, WSDOT’s fish passage barrier correction monitoring plan, monitoring results, and WSDOT fish passage barrier corrections completed.

Potential habitat values listed in this report are calculated using both lineal and incremental gain (Figure 1). Lineal gain represents the length of potential fish habitat upstream of a corrected fish passage barrier to the end of fish use when no additional WSDOT barriers are documented

upstream. Incremental gain represents the length of potential fish habitat between a corrected WSDOT fish passage barrier and the next WSDOT fish passage barrier or corrected barrier upstream. Reporting incremental habitat gain instead of lineal gain in these circumstances ensures WSDOT avoids double-counting potential habitat gain when more than one WSDOT fish passage barrier correction is located within the same watershed.

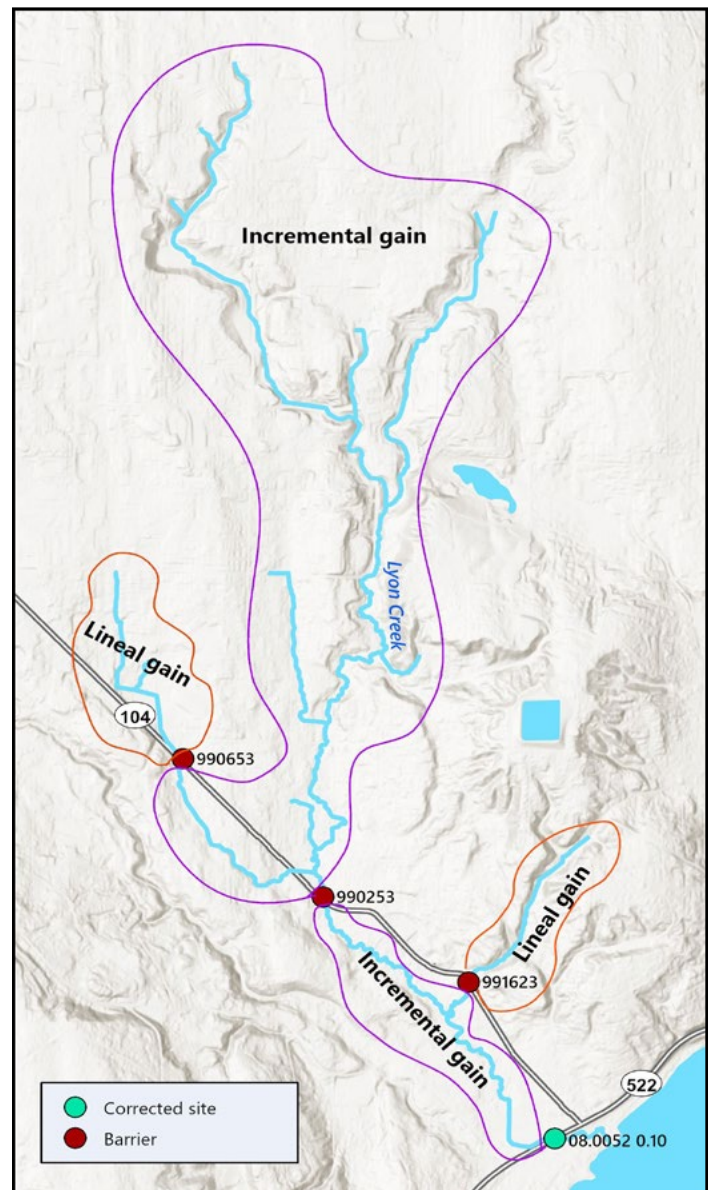


Figure 1. A diagram illustrating lineal and incremental gain in a watershed with one corrected fish passage project (bottom right) and three upstream barriers.

Figure 2. WSDOT fish passage barriers

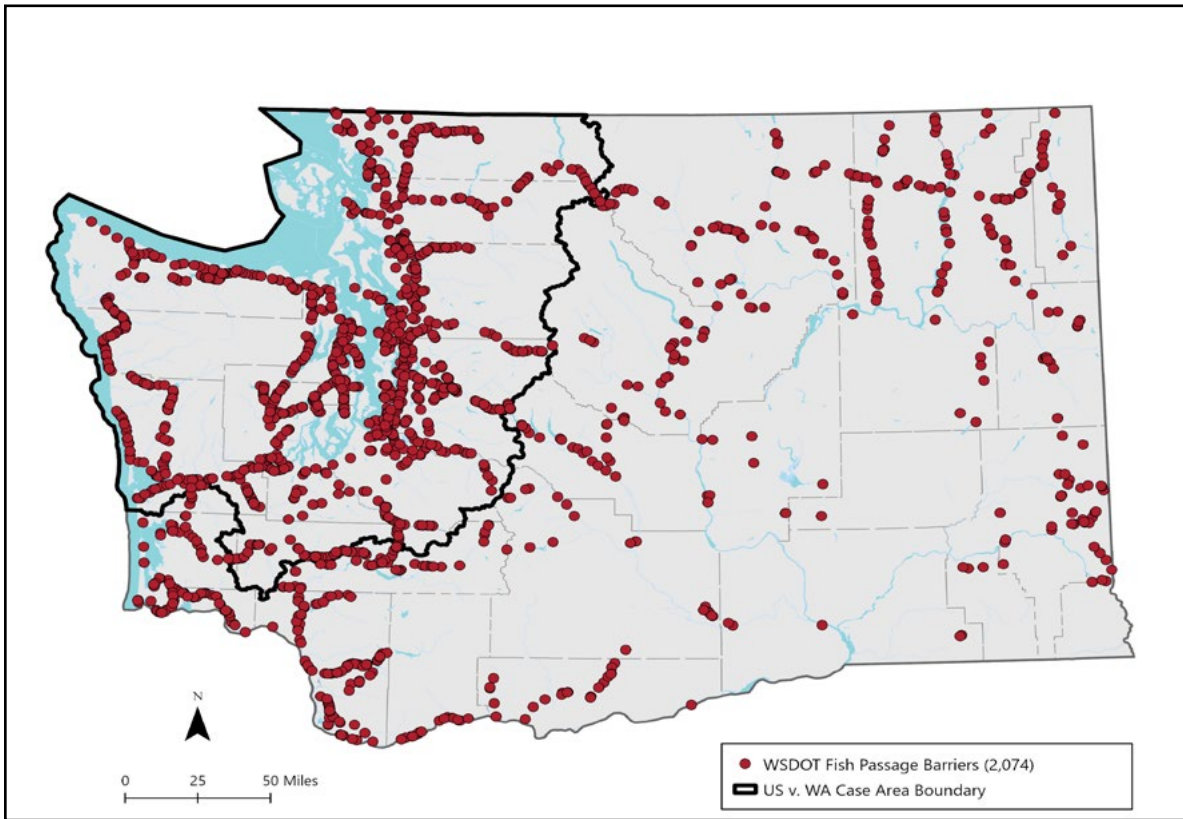
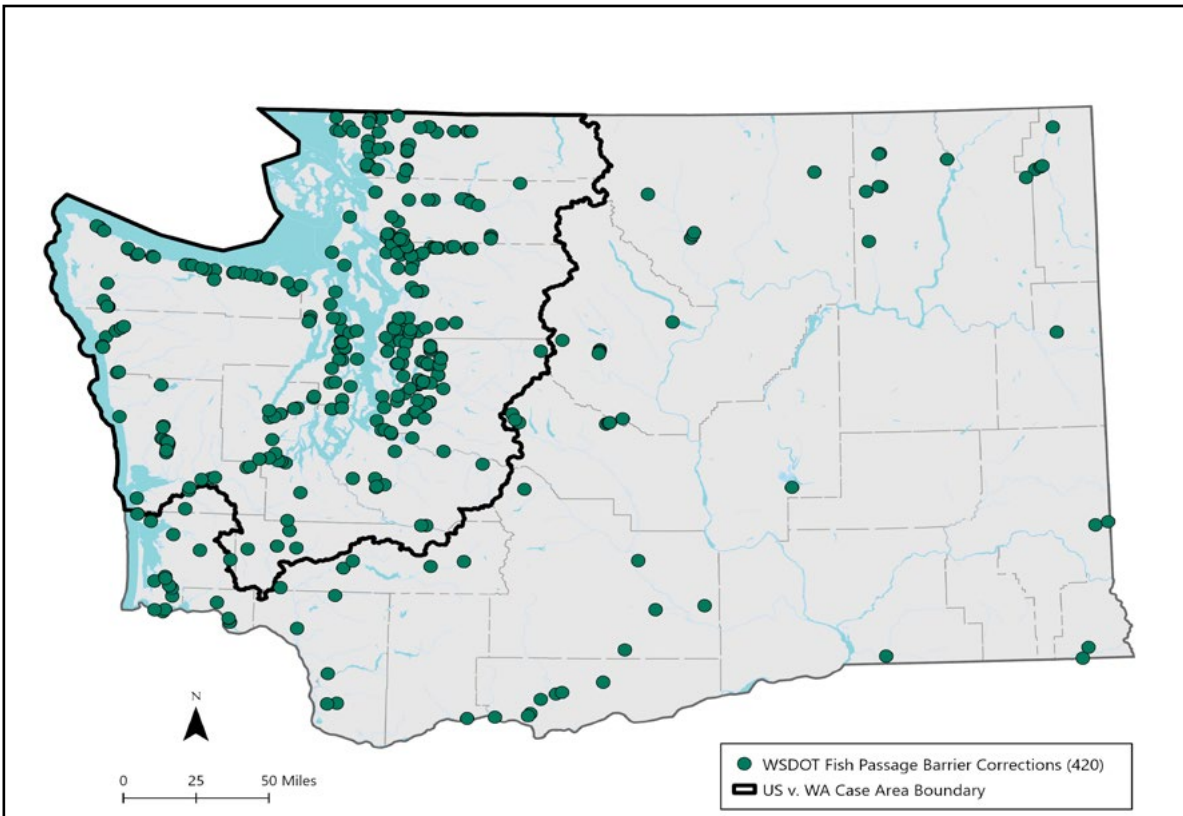


Figure 3. WSDOT fish passage barrier corrections since 1955





# 2023 Fish Passage Projects Completed

WSDOT completed 32 fish passage corrections in 2023 (Figure 4, Table 1), improving an estimated 67.39 miles (108.45 kilometers) of potential upstream habitat. All projects were injunction relevant corrections.

Appendix 5 contains the list of fish passage barrier corrections completed since 1955. Figure 3 is a map of these sites.

Figure 4. WSDOT fish passage projects completed in 2023

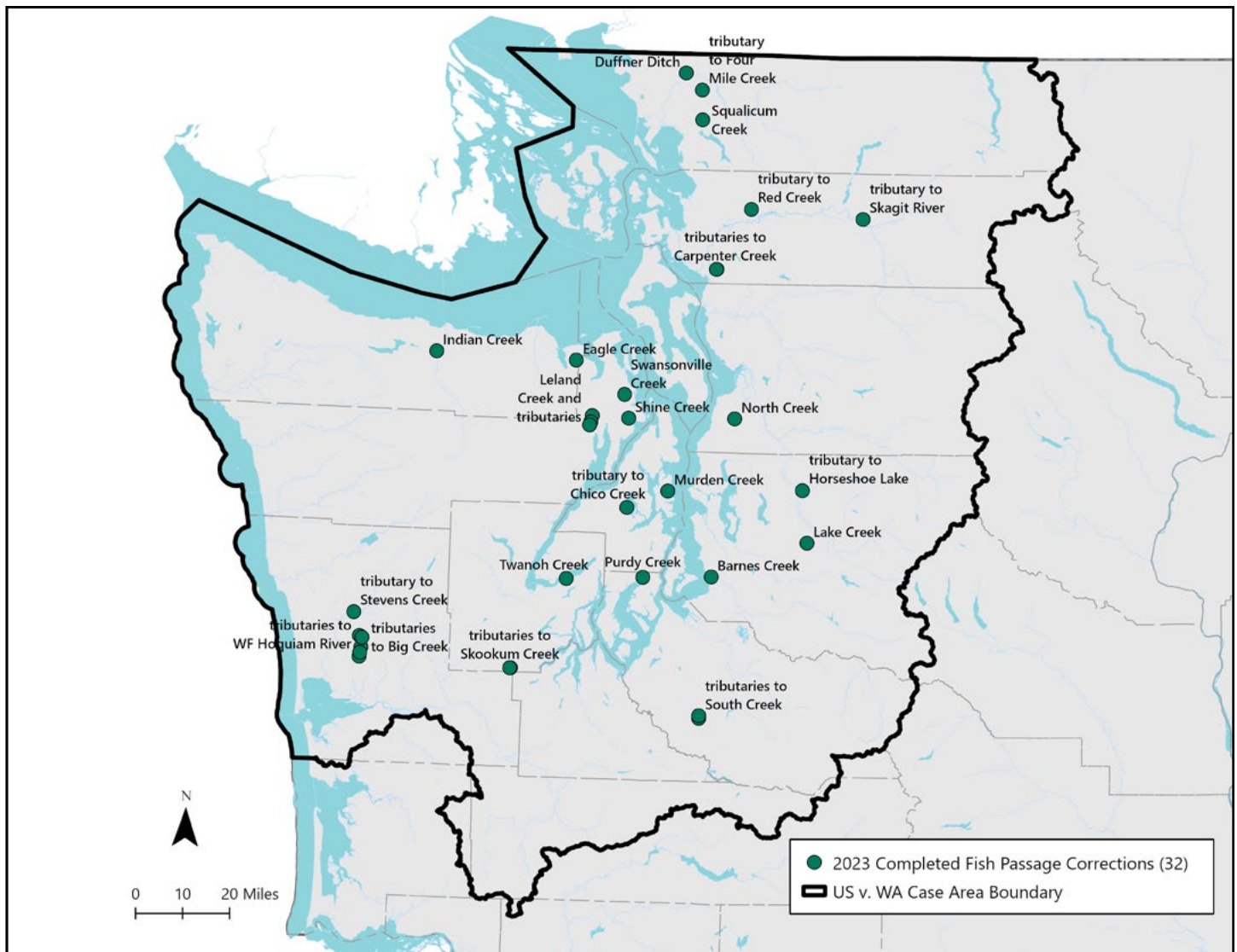


Table 1. Fish Passage Projects Completed in 2023.

Site ID	Injunction Culvert	WSDOT Region	WRIA	Road	MP	Stream	Lineal Gain <sup>1</sup> (mi)	Incremental Gain <sup>1</sup> (mi)	Funding
991473	Yes	NW	1	SR 539	11.10	Duffner Ditch	6.07	5.43	I4
990014 <sup>3</sup>	Yes	NW	1	SR 542	3.45	Squalicum Creek	2.95	2.95	I4
996168	Yes	NW	1	SR 544	3.51	tributary to Four Mile Creek	0.65	0.65	I4
991142	Yes	NW	3	SR 20	69.08	tributary to Red Creek	1.00	1.00	I4
CR2	Yes	NW	3	SR 534	0.53	tributary to Carpenter Creek	1.56	0.11	I4
995265	Yes	NW	3	SR 534; ROW	0.60	tributary to Carpenter Creek tributary	1.45	1.45	I4
994308	Yes	NW	4	SR 20	94.47	tributary to Skagit River	0.75	0.75	I4
990236	Yes	NW	7	SR 18	27.57	Lake Creek	1.35	1.35	I1
995167	Yes	NW	7	SR 203	7.26	tributary to Horseshoe Lake	0.90	0.90	I4
102 N183	Yes	NW	8	SR 96	0.47	North Creek	2.47	2.15 <sup>2</sup>	I4
991191	Yes	NW	9	SR 516	0.43	Barnes Creek	1.11	1.11	I4
991225	Yes	OLY	11	SR 7	37.50	tributary to South Creek	3.48	3.48	I4
990688	Yes	OLY	11	SR 7	38.12	tributary to South Creek	1.48	1.48	I4
990450	Yes	OLY	14	SR 106	12.30	Twanoh Creek	1.90	1.90	I4
991237	Yes	OLY	14	SR 108	5.50	tributary to Skookum Creek	1.75	1.75	I4
990385	Yes	OLY	14	SR 108	5.54	Skookum Creek	0.30	0.30	I4
991907	Yes	OLY	15	SR 3; Access Rd	40.97	tributary to Chico Creek	1.14	0.18 <sup>2</sup>	I4
990345	Yes	OLY	15	SR 302 Spur	15.80	Purdy Creek	6.49	0.82 <sup>2</sup>	I4
994325	Yes	OLY	15	SR 305	2.44	Murden Creek	1.47	1.47	I4
990375	Yes	OLY	17	SR 104	10.36	Shine Creek	2.76	2.76	I4
990711	Yes	OLY	17	SR 19	4.30	Swansonville Creek	2.33	2.33	I4
990134	Yes	OLY	17	US 101	274.25	Eagle Creek	2.54	2.54	I4
990896	Yes	OLY	17	US 101	290.35	tributary to Leland Creek	2.30	2.30	I4
995502	Yes	OLY	17	US 101	291.79	tributary to Leland Creek	1.28	1.28	I4
990241	Yes	OLY	17	US 101	292.52	Leland Creek	14.33	10.52 <sup>2</sup>	I4
18.0283 2.00	Yes	OLY	18	US 101	238.39	Indian Creek	10.63	9.64 <sup>2</sup>	I4
993702	Yes	OLY	22	US 101	98.47	tributary to WF Hoquiam River	0.64	0.64	I4
993704	Yes	OLY	22	US 101	99.45	tributary to WF Hoquiam River	0.62	0.62	I4
990730	Yes	OLY	22	US 101	100.70	tributary to SB Big Creek tributary	1.08	1.08	I4
990033	Yes	OLY	22	US 101	102.97	tributary to Big Creek	1.58	1.58	I4
991501 <sup>3</sup>	Yes	OLY	22	US 101	103.65	tributary to Big Creek	2.13	2.13	I4
990731	Yes	OLY	22	US 101	111.34	tributary to Stevens Creek	0.72	0.72	I4

**Total Habitat Gain: 67.39 mi**

<sup>1</sup> Lineal gain represents the amount of potential fish habitat upstream of a corrected barrier. Incremental habitat gain is reported for sites having other WSDOT barriers located upstream. Incremental habitat gain is the amount of potential fish habitat upstream to the next WSDOT barrier.

<sup>2</sup> Site with WSDOT barrier(s) upstream.

<sup>3</sup> Site previously corrected with a fishway.

Funding Codes:

I4 = Improvement

I1 = Mobility

# Duffner Ditch, Tributary to Bertrand Creek, WRIA 1, Site ID 991473

## Fish Passage Improvement with I4 Funding



This project is located on Duffner Ditch, a tributary to Bertrand Creek and the Nooksack River, in Whatcom County that crosses SR 539 at milepost (MP) 11.1. This stream has the potential to support multiple salmonid species including chum, coho, steelhead, coastal and resident trout. Correcting this barrier improved access to 5.43 miles of potential habitat. Previously, three other fish barriers were corrected on this stream, including 931144, a WSDOT a barrier correction project completed in 2022. Combined these two WSDOT projects improved access to a total of 5.43 miles of potential habitat. The other two barrier corrections on Duffner Ditch were completed by the City of Lynden and are located downstream of SR 539.

### Before Construction



Figure 5. Two side-by-side 4 ft diameter concrete culverts. This site was a partial barrier due to hydraulic drop.

### After Construction



Figure 6. The new crossing was moved to the north and skewed across SR 539 to better align the creek as it crosses to the highway. The new crossing is a concrete box culvert with a 20 ft span, and 12 ft rise. The original two culverts remain in place, one filled/abandoned and the other converted to stormwater conveyance which is managed by the City of Lynden.

Many photos in this report were taken immediately or shortly after construction when streams weren't yet fully watered or when water levels are lower in the summertime.



# Squalicum Creek, Tributary to Bellingham Bay, WRIA 1, Site ID 990014

## Fish Passage Improvement with I4 Funding

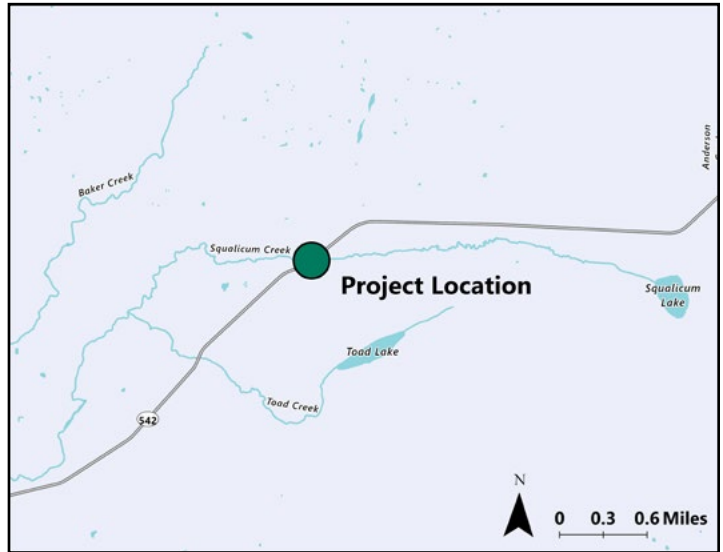
This project is located on the mainstem of Squalicum Creek, a tributary to Bellingham Bay in Whatcom County, that crosses SR 542 at MP 3.45. Multiple salmonid species utilize the watershed including chum, coho, steelhead, coastal and resident trout. Juvenile salmon were observed downstream of this site in 2017. Construction of the new bridge and channel improved access to 2.95 miles of potential habitat. This WSDOT project is one of several fish passage barrier removals in this watershed. To date, three privately owned barriers directly upstream of this project have been corrected. There are two corrected fish barriers downstream of this project including one city barrier correction under James St and one WSDOT barrier correction, site ID 991036 on I-5. Together these projects have restored access to 20.65 miles of potential habitat.

Because Squalicum Creek was identified as a high-quality, green corridor, terrestrial habitat connectivity was designed into the barrier correction by establishing wildlife benches large enough to accommodate deer on the stream banks along the newly constructed channel.

### Before Construction



Figure 7. The old structure was undersized for the stream, a square concrete box 6 ft wide 6 ft tall and 120 ft long. The main issue for salmon was the water surface drop at the outlet which was too large for salmon to jump.



### After Construction

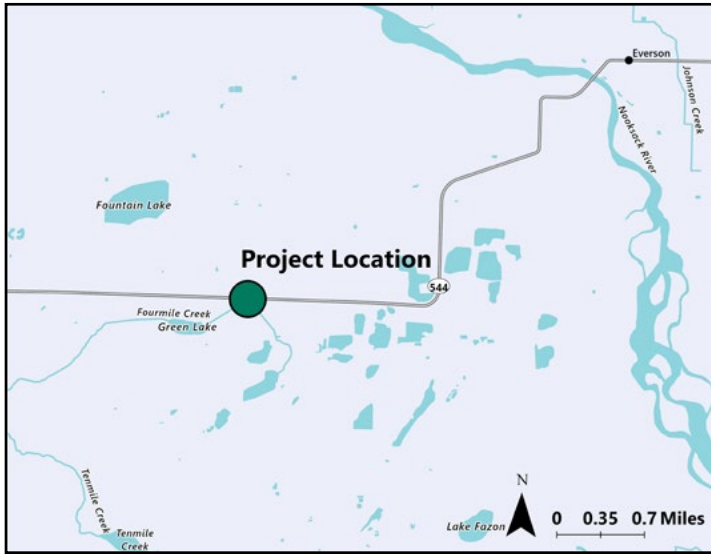


Figure 8. The new crossing is a 73.8 ft span concrete girder bridge.



# Unnamed Tributary to Four Mile Creek, WRIA 1, Site ID 996168

## Fish Passage Improvement with I4 Funding



This project is located on an unnamed tributary to Four Mile Creek, in the Nooksack River watershed in Whatcom County. This tributary crosses SR 544 at MP 3.51. The stream provides habitat to many native species including coho, steelhead, coastal and resident trout. Correcting this barrier improved access to 0.65 miles of potential habitat. Many other barrier removal projects have been completed in this part of the Nooksack watershed, including a privately owned barrier removal directly downstream of this project on the mainstem of Four Mile Creek.

### Before Construction



Figure 9. This culvert was 2 ft in diameter, round, and made of mixed materials with a corrugated steel inlet and cast concrete outlet.

### After Construction



Figure 10. The new crossing is a concrete box culvert with a span of 12.2 ft and a rise of 10 ft.

## Unnamed Tributary to Red Creek, WRIA 3, Site ID 991142

### Fish Passage Improvement with I4 Funding

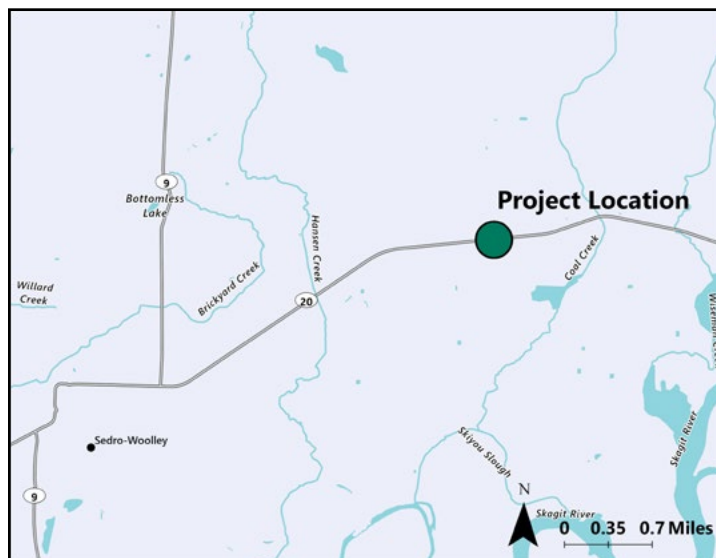
This project is located on an unnamed tributary to Red Creek which flows into Hansen Creek and ultimately the Skagit River near the town of Sedro Woolley. The stream crosses SR 20 at MP 69.08. Multiple salmonid species benefited from this fish passage barrier removal project, including coho, steelhead, coastal and resident trout.



### Before Construction



Figure 11. The old crossing was a concrete, round culvert with a diameter of 1.5 ft and 50.5 ft long. The structure was considered a velocity barrier due to excessive culvert slope.



### After Construction



Figure 12. The new structure is a concrete box culvert 11.2 ft span and a rise of 8.0 ft. The new structure improved access to 1.0 mile of potential habitat.



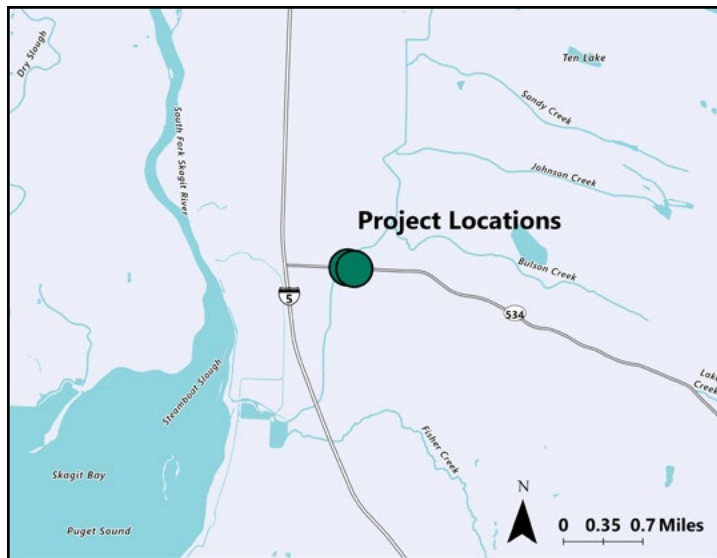
# Unnamed Tributaries to Carpenter Creek, WRIA 3, Site IDs CR2 and 995265

## Fish Passage Improvement with I4 Funding



Sites CR2 and 995265 are two state owned stream crossings located within 200 ft of each other. The crossings are located on an unnamed tributary of Carpenter Creek, within the Lower Skagit River watershed. Each crossing is located along SR 534 near MP 0.53. Prior to construction, CR2 was partial slope barrier and 995265 was a complete water surface drop barrier. Together, these two projects improved access to 1.56 miles of potential habitat for coho, steelhead, coastal and resident trout.

## After Construction



## Before Construction



Figure 13. Top (CR2): Corrugated steel culvert with a diameter of 3.0 ft.



Bottom (995265): Round corrugated steel culvert 2.5 ft in diameter and 222.1 ft long.



Figure 14. Top (CR2): Concrete box culvert, 12.3 ft span, and 13.5 ft rise.

Bottom (995265): Channel was rerouted and now bypasses this fish barrier.



# Unnamed Tributary to Skagit River, WRIA 4, Site ID 994308

## Fish Passage Improvement with I4 Funding

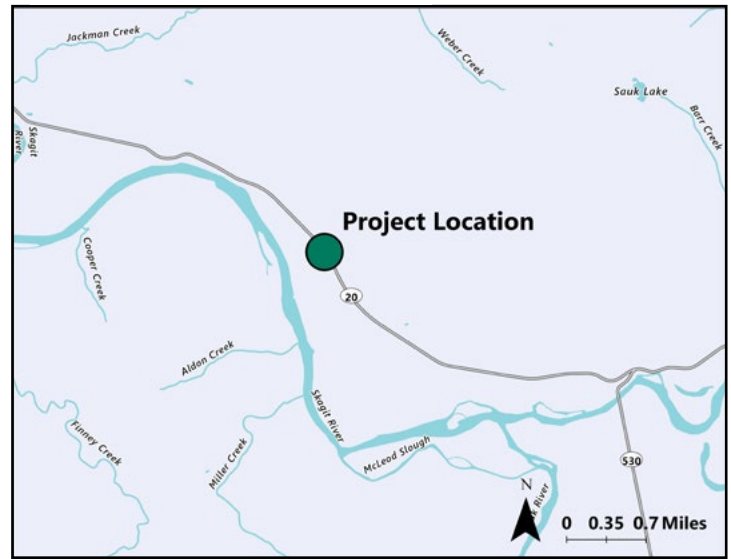
This unnamed tributary crosses SR 20 at MP 94.47, flowing into the Skagit River. This project improved access to 0.75 miles of potential spawning and rearing habitat upstream for steelhead, coastal and resident trout. The private crossing immediately downstream, 994221, was corrected with assistance from the Skagit Fisheries Enhancement Group one month after WSDOT's barrier correction.

The WSDOT structure contains a wildlife bench above the 2-year flow level, allowing for smaller species passage such as bobcat, coyote, raccoon and more.

### Before Construction



Figure 15. The old crossing was a 2.5 ft diameter corrugated steel culvert with aprons on both ends, measuring 121 ft long. The crossing was assessed as a barrier due to an excessive hydraulic drop at the outlet.



### After Construction

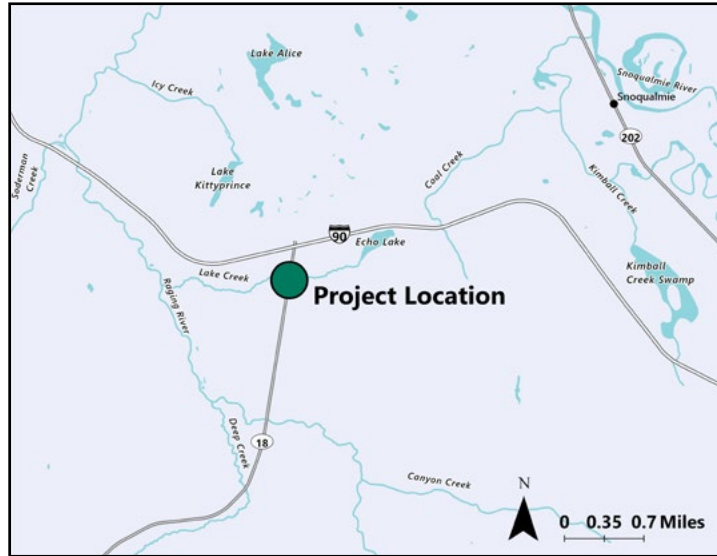


Figure 16. The new structure is a concrete bottomless culvert with a 19.8 ft span, 15 ft rise, and is 55 ft long.



# Lake Creek, Tributary to Raging River, WRIA 7, Site ID 990236

## Fish Passage Improvement with I1 Funding



This fish passage project is located on Lake Creek, a tributary to Raging River and ultimately the Snoqualmie River. Lake Creek crosses SR 18 at MP 27.57. Before the project was completed, the crossing consisted of two side by side concrete culverts that were both partial barriers to fish passage due to high slope. Lake Creek is utilized by coho, steelhead, coastal and resident trout. This project benefited native species by restoring access to 1.35 miles of potential habitat.

### Before Construction



Figure 17. The old crossing was a 3.5 ft diameter round concrete culvert.

### After Construction



Figure 18. The new crossing is a 43.7 ft span concrete bridge.

# Unnamed Tributary to Horseshoe Lake, WRIA 7, Site ID 995167

## Fish Passage Improvement with I4 Funding

This fish barrier correction project is located on an unnamed tributary to Horseshoe Lake in King County. The stream crosses SR 203 at MP 7.26. This water-body supports several native fish, including pink salmon, coho, steelhead, coastal and resident trout. The culvert was considered a total velocity barrier due to steep slope. The new structure improved access to 0.90 miles of potential habitat.



## Before Construction



Figure 19. The old 2 ft diameter culvert consisted of mixed materials, with a corrugated steel outlet and a concrete inlet.



## After Construction

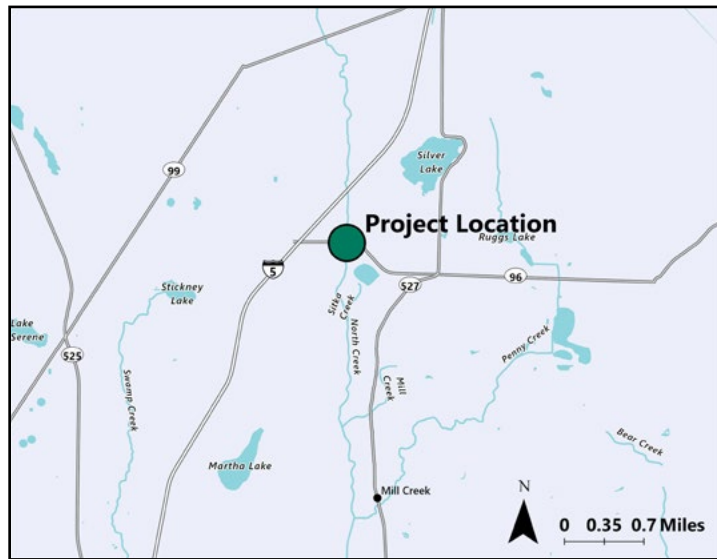


Figure 20. The new crossing is a concrete box culvert with a 19.3 ft span and a 13.7 ft rise.



# North Creek, Tributary to Sammamish River, WRIA 8, Site ID 102 N183

## Fish Passage Improvement with I4 Funding



This site is located on North Creek, a salmon bearing stream near the city of Mill Creek in the Sammamish River watershed. North Creek crosses SR 96 at MP 0.47. North Creek is utilized by many native fish, including Chinook, coho, steelhead, coastal and resident trout. This project improved access to 2.15 miles of potential spawning and rearing habitat. This WSDOT project is one of the many barrier removals on this creek. Directly upstream of the crossing, Snohomish County has corrected 4 fish barriers, the City of Everett has corrected 1, and a private landowner corrected a 6th upstream crossing. Each of these projects increases the positive impact of the others as this watershed becomes more accessible to native fish.

### Before Construction



Figure 21. The old crossing was a squash, corrugated steel culvert with a 5.9 ft span and 3.8 ft rise. It was a partial barrier to fish passage due to shallow water depth and debris accumulation.

### After Construction



Figure 22. The new structure is a concrete bottomless arch culvert 23.6 ft span and 6.8 ft rise.

# Barnes Creek, Tributary to Massey Creek, WRIA 9, Site ID 991191

## Fish Passage Improvement with I4 Funding

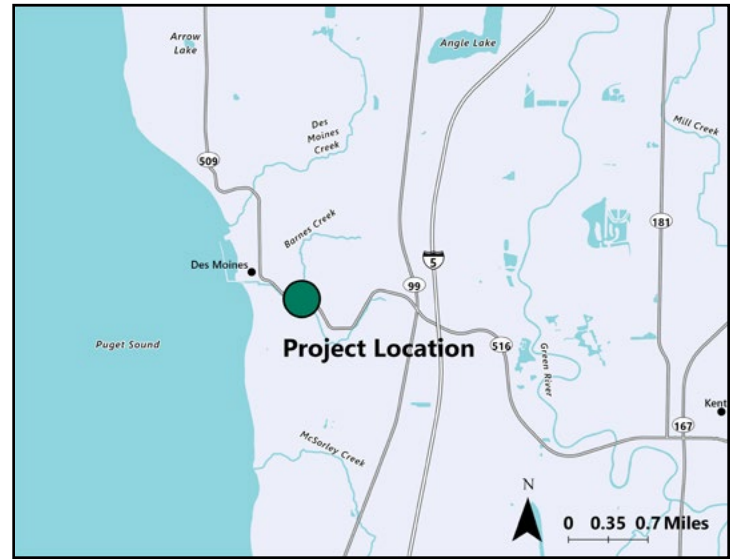
This project is located on Barnes Creek, a tributary to Massey Creek, a coastal stream which flows into the Puget Sound near Des Moines. Barnes Creek crosses SR 516 at MP 0.43. The previous structure was considered a total slope barrier. Removing this barrier improved access to 1.1 miles of potential habitat and increased the benefits of a barrier removal previously completed by the city of Des Moines.



## Before Construction



Figure 23. The old structure was a 2.0 ft diameter mixed material culvert. The downstream end was ceramic connected by a collection box to the upstream end, which was concrete.



## After Construction

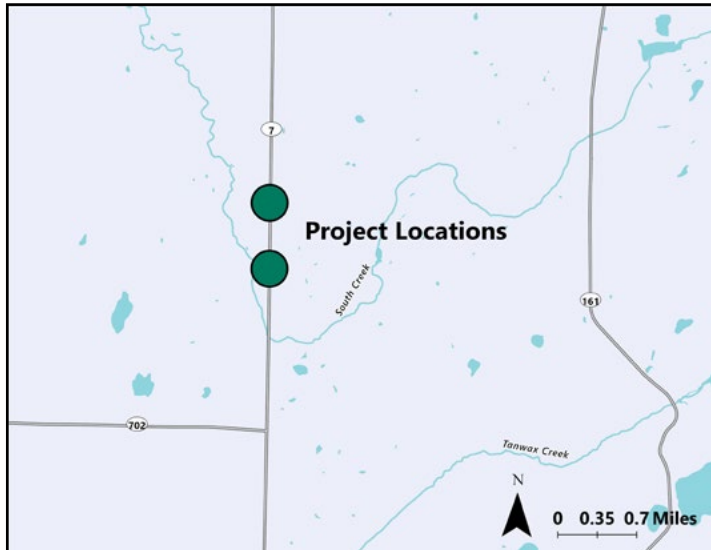


Figure 24. The new crossing is a 20 ft span by 12.6 ft rise concrete bottomless arch culvert.



# Unnamed Tributaries to South Creek, WRIA 11, Site IDs 990688 and 991225

## Fish Passage Improvement with I4 Funding



### Before Construction



Figure 25. Top (991225): Old crossing was a 4.6 ft span by 3.3 ft rise squash, corrugated steel culvert. This site was a barrier due to an excessive hydraulic drop.



Bottom (990688): Old crossing was a 2 ft diameter culvert measuring 78 ft long and was a velocity barrier.

Two independent unnamed tributaries to South Creek are located in southern Pierce County near the town of Eatonville, crossing SR 7 at MP 37.50 (991225) and at MP 38.12 (990688). Together, these two projects improved access to 4.96 miles of potential habitat for coho, coastal and resident trout. Additionally, steelhead are presumed to utilize the creek associated with 991225. The design provided two 5 ft wildlife benches which may allow benefits to semi-aquatic and terrestrial wildlife.

### After Construction

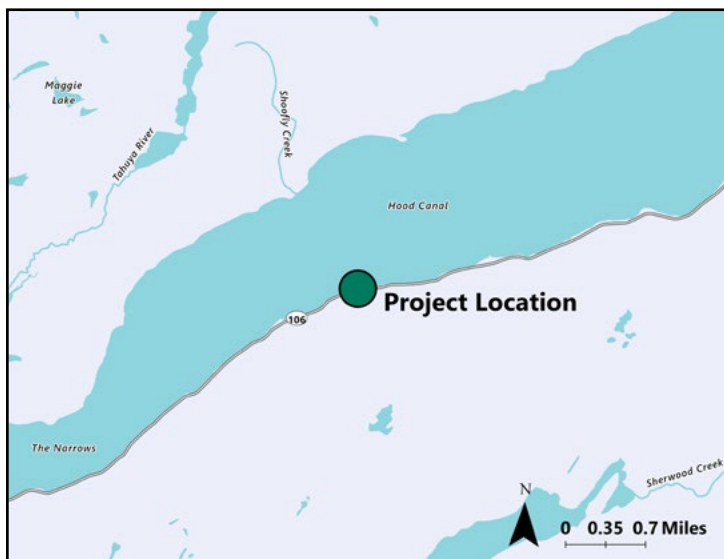


Figure 26. Top (991225): The new concrete box culvert has an 18.2 ft span, 9.4 ft rise, and is 42.6 ft long.

Bottom (990688): The new crossing is a concrete box culvert spanning 20.5 ft by 6.9 ft rise and is 46.9 ft long.

## Twanoh Creek, Tributary to Hood Canal, WRIA 14, Site ID 990450

### Fish Passage Improvement with I4 Funding



Twanoh Creek flows through Twanoh State Park, crossing SR 106 at MP 12.3 which bisects the park, and discharges to Hood Canal in Mason County. The WSDOT barrier correction took place concurrently with a bridge replacement project within the park immediately upstream of the highway in collaboration with WA State Parks. This project corrected the only fish passage barrier on Twanoh Creek, restoring access to 1.9 miles of potential habitat for chum, coho, steelhead, coastal and resident cutthroat trout. Much of the upstream habitat lies within the protected boundary of the state park.

### Before Construction



Figure 27. The old crossing was a 4 ft span by 4 ft rise concrete box culvert that was a barrier due to velocity.

### After Construction

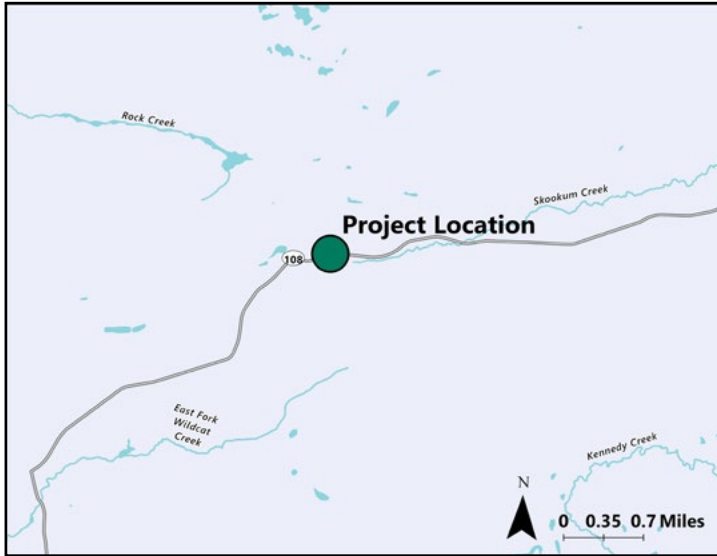


Figure 28. The new crossing is a 29.2 ft span by 7 ft rise concrete box culvert.



# Unnamed Tributary to Skookum Creek, WRIA 14, Site ID 991237

## Fish Passage Improvement with I4 Funding



This tributary to Skookum Creek crosses SR 108 at MP 5.5 and flows into Skookum Creek shortly downstream of the barrier correction mentioned below for 990385. The tributary is within the forested headwaters of the Skookum Creek watershed. This barrier correction restored access to 1.75 miles for coho, steelhead, coastal and resident cutthroat trout and was the downstream-most barrier on this tributary.

### Before Construction



Figure 29. The old crossing was a 3 ft diameter concrete culvert that was a barrier due to slope.

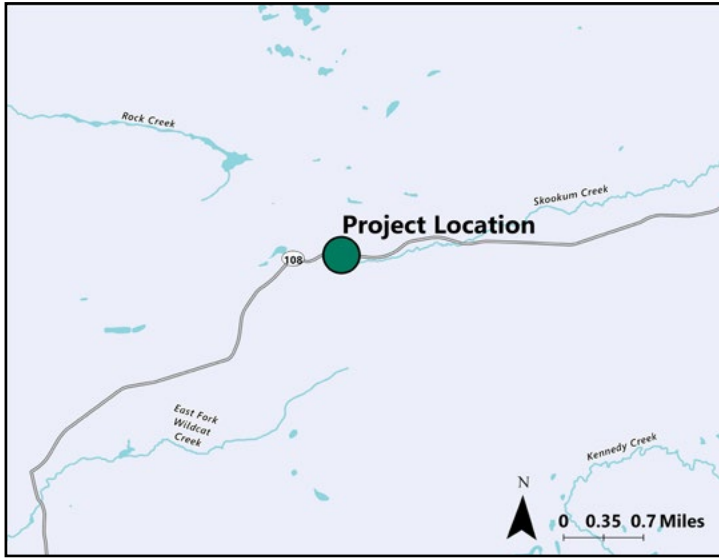
### After Construction



Figure 30. The new crossing is an 18 ft span by 13.7 ft rise concrete box culvert.

# Skookum Creek, Tributary to Little Skookum Inlet, WRIA 14, Site ID 990385

## Fish Passage Improvement with I4 Funding



Skookum Creek crosses SR 108 at MP 5.54 and flows through the low gradient Kamilche Valley before discharging into Little Skookum Inlet near Kamilche in Mason County. This project lies within the forested upper basin of the Skookum Creek watershed. This barrier correction restored access to 0.3 miles of potential habitat for chum, coho, steelhead, coastal and resident cutthroat trout.

### Before Construction



Figure 31. The old crossing was a 6.1 ft square cast-in-place concrete culvert that was both a velocity and depth barrier.

### After Construction

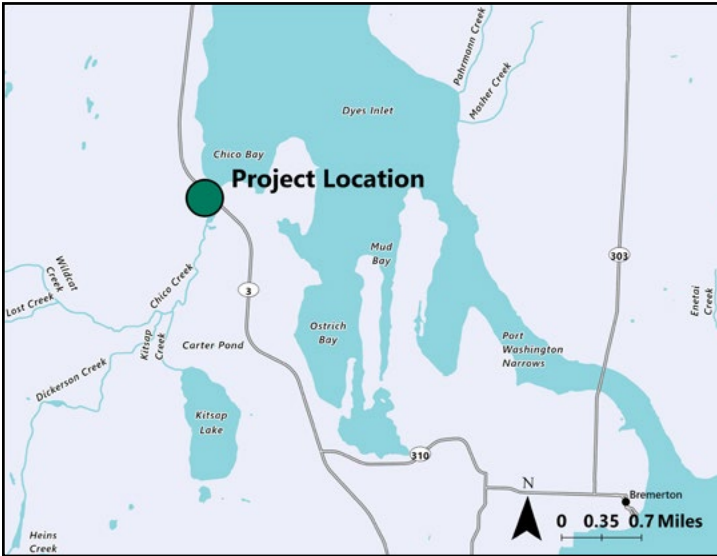


Figure 32. The new crossing is a 35.1 ft span by 16.8 ft rise bottomless arch culvert.



# Unnamed Tributary to Chico Creek, WRIA 15, Site ID 991907

## Fish Passage Improvement with I4 Funding



This unnamed tributary of Chico Creek drains to Chico Creek upstream of SR 3 at MP 40.97 and is located on an access road for the highway. The access road was abandoned and the culvert removed. The creek was restored to an open channel at the crossing location. This multi-year project also includes correction of an upstream barrier on the same tributary to Chico Creek corrected in 2022 and the Chico Creek mainstem barrier culvert located downstream under SR 3 due to be completed in 2024. This watershed has had large improvements in fish passage, including 9 non-WSDOT barrier corrections.

### Before Construction

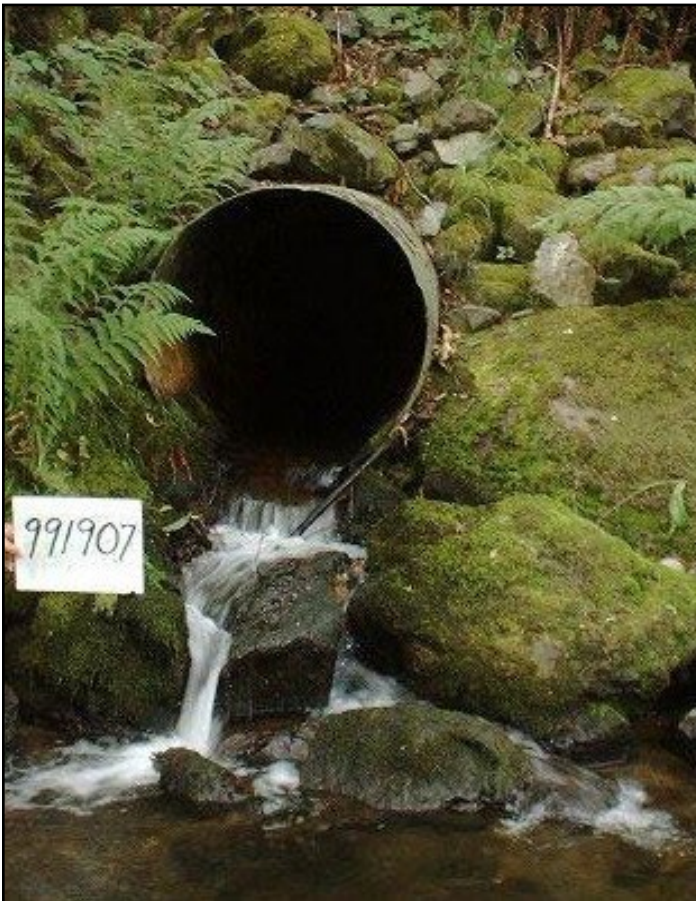


Figure 33. The old crossing was a 3 ft diameter culvert that was a barrier due to a hydraulic drop at the outlet.

### After Construction



Figure 34. Structure-free open channel restores access to 0.18 miles of potential habitat for chum, coho, steelhead, coastal and resident cutthroat trout.

## Fish Passage Improvement with I4 Funding



Purdy Creek is a productive tributary to Puget Sound's Burley Lagoon at the north end of Carr Inlet in Pierce County. This intertidal project crossing SR 302 Spur at MP 15.8 corrected the downstream-most fish passage barrier in the Purdy Creek watershed. A second WSDOT barrier correction project upstream on SR 16 at MP 17.8 is underway.

### Before Construction



Figure 35. The old crossing was a 6 ft square concrete culvert that was a depth and velocity barrier during low tide.

### After Construction

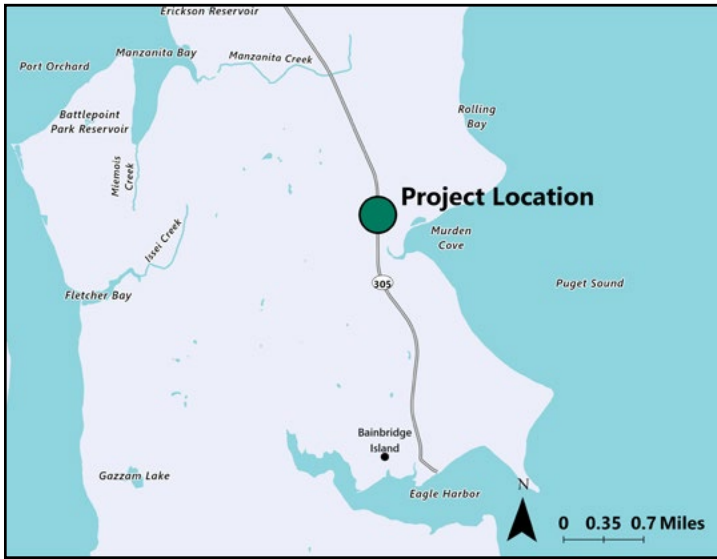


Figure 36. The new crossing is a 70.5 ft concrete girder bridge, improving access to 0.82 miles of potential habitat for chum, Chinook, coho, steelhead, coastal and resident cutthroat trout to the SR 16 crossing.



# Murden Creek, Tributary to Murden Cove, WRIA 15, Site ID 994325

## Fish Passage Improvement with I4 Funding



Murden Creek is a tributary of Puget Sound at Murden Cove, crossing SR 305 at MP 2.44 on Bainbridge Island. This project improved access to 1.47 miles of potential habitat for coho, steelhead, coastal and resident cutthroat trout. There are no fish passage barriers downstream of this project. Upstream, the city of Bainbridge Island removed a fish passage barrier in 2017, increasing the benefits of this project.

### Before Construction



Figure 37. The old crossing was a 5 ft span by 4 ft rise concrete box culvert that was a barrier to fish passage due to velocity and depth.

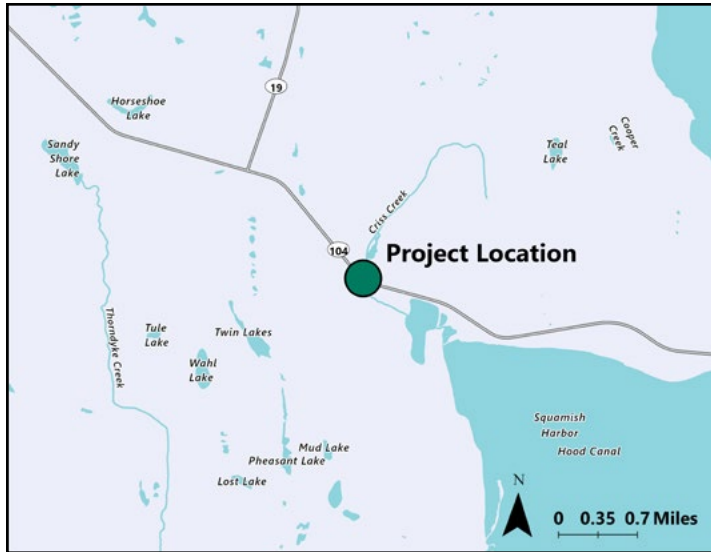
### After Construction



Figure 38. The new crossing is a 110 ft concrete girder bridge. Due to the proximity to public lands, open space, and high wildlife vehicle collision areas, the new crossing was designed with wildlife benches to accommodate deer passage beneath the new bridge.



## Fish Passage Improvement with I4 Funding



Shine Creek, a tributary to Hood Canal, crosses SR 104 at MP 10.36. This project improved access to 2.76 miles of potential spawning and rearing habitat for chum, coho, steelhead, sea run cutthroat and resident trout. Two downstream barriers were previously corrected by Jefferson County public works and a private landowner, leaving no remaining documented barriers downstream. Only one partial barrier is known to exist upstream of SR 104 near the end of the natural distribution of salmon. Therefore, bulk of this watershed is now accessible.

### Before Construction



Figure 39. The old crossing was a 163 ft long, 4.75 ft diameter corrugated steel culvert assessed as a barrier due to excessive velocity.



### After Construction



Figure 40. The new crossing is a concrete bottomless arch culvert with a 17.5 ft span, 17.0 ft rise and is 130 ft long.



Figure 41: A spawning salmon was photographed within the newly constructed channel in September 2023.



## Fish Passage Improvement with I4 Funding



Swansonville Creek is a tributary to East Fork Chimacum Creek, crossing SR 19 at MP 4.30. This fish passage barrier correction in Jefferson County improved access to 2.33 miles of potential spawning and rearing habitat for chum, coho, steelhead, coastal cutthroat and resident trout. In addition to this WSDOT barrier removal project, 3 other barrier removal projects have been completed in this local watershed, including two privately owned crossings directly upstream and one privately owned crossing directly downstream of this project.

### Before Construction



Figure 42. The old crossing was a 97 ft long, 2 ft diameter concrete culvert.

### After Construction



Figure 43. The new crossing is a concrete culvert with an 18.27 ft span, 19 ft rise, and is 80.16 ft long. Wildlife connectivity safety factors ranked high at this site, justifying the addition of wildlife benches up to 5-10 ft wide were constructed above the 2-year flood elevation.



## Eagle Creek, Tributary to Strait of Juan de Fuca WRIA 17, Site ID 990134

### Fish Passage Improvement with I4 Funding

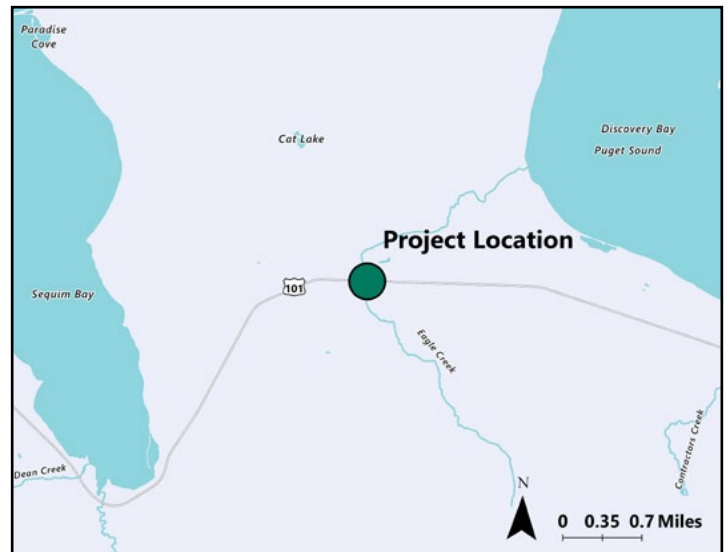
Eagle Creek is located between Gardiner and Blyn, crossing under US 101 at MP 274.25 in Clallam County before discharging into the Strait of Juan de Fuca. This project improved access to 2.54 miles of potential spawning and rearing habitat for coho, steelhead, coastal and resident cutthroat trout.



### Before Construction



Figure 44. The old crossing was a 2 ft diameter concrete culvert that was a barrier due to slope.



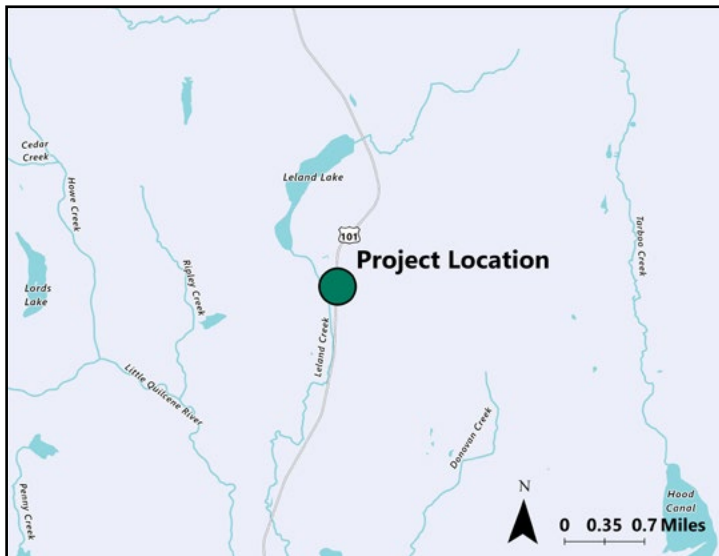
### After Construction



Figure 45. The new crossing is a 20 ft span by 11.5 ft rise concrete bottomless arch culvert. To accommodate potential use by amphibian species in a nearby wetland and proximity to state-endangered fisher distribution range, the structure provides a wildlife bench enabling connectivity beneath US 101 during most of the year.

## Unnamed Tributary to Leland Creek, WRIA 17, Site ID 990896

### Fish Passage Improvement with I4 Funding



WSDOT corrected barriers on two tributaries to Leland Creek. The first project, which is located on what is referred to as the north tributary, crosses US 101 at MP 290.35 in Jefferson County. This individual project improved access to 2.3 miles of potential habitat.

### After Construction

### Before Construction



Figure 46. The old crossing was a 2-cell concrete box culvert with each cell measuring 5 ft span by 4 ft rise. The site was a barrier due to velocity.



Figure 47. The new crossing is an 18.2 ft span by 10 ft rise concrete box culvert that allows passage for chum, coho, steelhead, coastal and resident cutthroat trout.



## Unnamed Tributary to Leland Creek, WRIA 17, Site ID 995502

### Fish Passage Improvement with I4 Funding

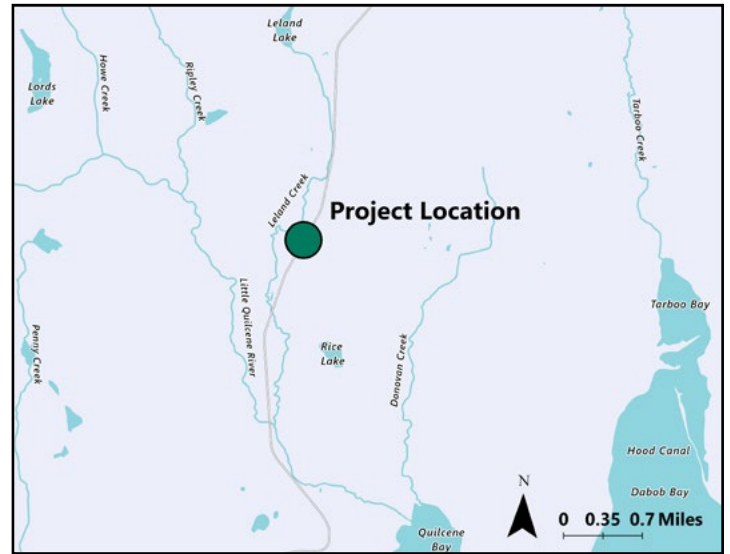
The second tributary, referred to as the south tributary, crosses US 101 at MP 291.79 north of Quilcene. This project improved access to 1.28 miles of potential habitat for chum, coho, steelhead, coastal and resident cutthroat trout.



### Before Construction



Figure 48. The old crossing was a 2.5 ft diameter concrete culvert that was a barrier due to slope.



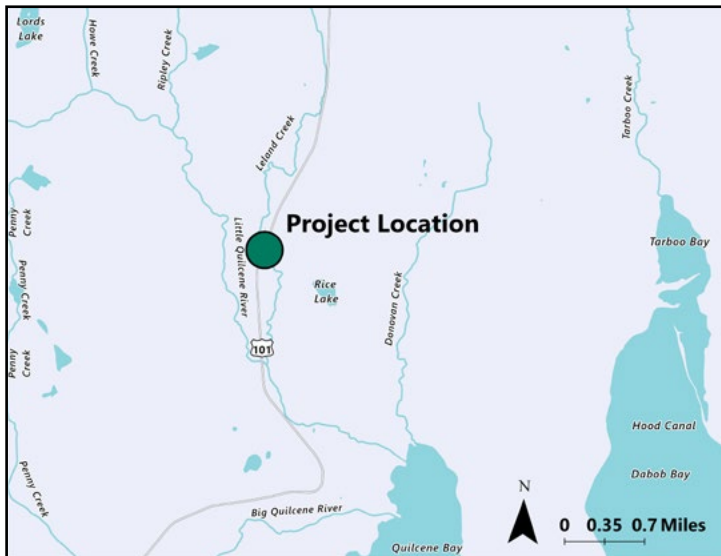
### After Construction



Figure 49. The new crossing is a 13 ft span by 9 ft rise concrete box culvert.

# Leland Creek, Tributary to Little Quilcene River, WRIA 17, Site ID 990241

## Fish Passage Improvement with I4 Funding



### Before Construction



Figure 50. The old crossing was a single cell concrete box culvert measuring 8 ft span, 6 ft rise, and 145 ft long. The culvert was a barrier due to excessive water velocity.



Figure 51. Nearly 200 western pearlshell mussels were safely relocated to similar cobble habitat. The mussels are an excellent indicator of water quality and identified as a state Species of Greatest Conservation Need.



Leland Creek is a large tributary to the lower Quilcene River in east Jefferson County, crossing US 101 at MP 292.52. WSDOT corrected fish passage barriers on two nearby tributaries to Leland Creek concurrently with this project. The Leland Creek mainstem project improved access to 14.33 miles of potential spawning and rearing habitat for coho, chum, steelhead, sea run cutthroat and resident trout. Due to the proximity to State Department of Natural Resources lands both east and west of the crossing, an appropriately sized structure and wildlife benches were constructed to facilitate terrestrial wildlife connectivity, including deer.

### After Construction



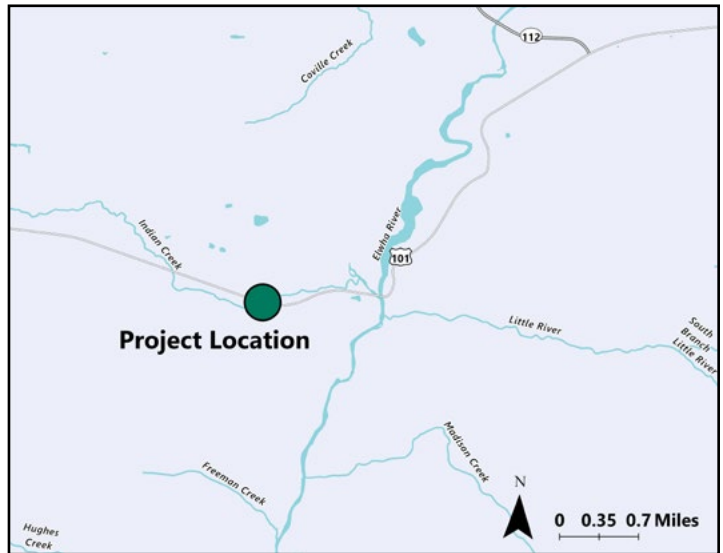
Figure 52. The new crossing is a 117 ft concrete girder bridge. An adult coho salmon was video recorded swimming under the new bridge in September 2023.



## Fish Passage Improvement with I4 Funding

Indian Creek is one of the most diverse streams on the Olympic peninsula as it flows through mostly mixed forest cover with a good distribution of gravel, cobble and boulders, providing spawning and rearing habitat for sockeye, pink, chum, Chinook, coho, steelhead, coastal and resident cutthroat trout, bull trout, and a large population of Pacific lamprey.

The creek crosses US 101 at MP 238.39, joining the Elwha River approximately one mile downstream of the project location. This fish passage barrier correction improved access to 9.64 miles of potential spawning and rearing habitat upstream for all the species listed above and provides access to multiple fish bearing tributaries upstream. This project removed the downstream-most barrier on Indian Creek.



## Before Construction



Figure 53. The old crossing was a concrete arch-shaped culvert retrofitted with a fishway. The dimensions were 19.5 ft span by 15 ft rise and 210 ft long. The fishway consisted of baffles composed of a series of jersey curbs strapped and bolted end to end spaced every 10 ft through the length of the culvert with weirs on the culvert aprons. The fishway was assessed as a barrier due to excessive hydraulic drop over the weirs.

## After Construction



Figure 54. The new crossing is a 172 ft concrete girder bridge. The project was completed in February 2023 and adult salmon were observed spawning beneath of the new structure in September 2023.



Though many of its tributaries originate on public lands, the main stem of Indian Creek mostly flows through privately-owned property. A well-forested riparian zone, narrow in places, flanks the stream over most of its length. The confluence with the Elwha River is an area known for its diversity and abundance of wildlife and was identified as a convergence zone of habitat networks for many species, including elk.

To accommodate all species, a 10-15 ft wildlife bench was incorporated into the design above the 2-year flood level to provide a dry path through the structure all or most of the year to facilitate wildlife passage.



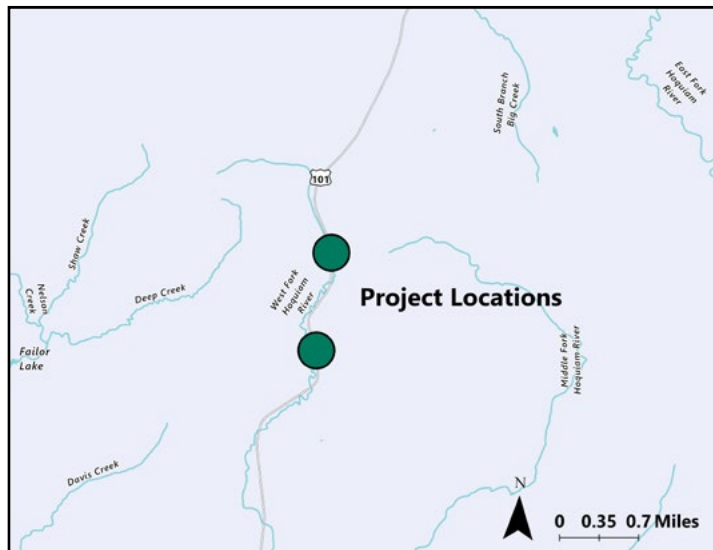
Figure 55. Lamprey in net to be safely relocated at Indian Creek prior to construction.

# Unnamed Tributaries to WF Hoquiam River, WRIA 22, Site IDs 993702 & 993704

## Fish Passage Improvement with I4 Funding



WSDOT corrected barriers on two tributaries to West Fork Hoquiam River along US 101 in Grays Harbor County. The first tributary (Site 993702) crosses US 101 at MP 98.47 before quickly draining into the West Fork Hoquiam River. The second tributary (Site 993704) crosses US 101 nearly a mile away at MP 99.45 before draining into West Fork Hoquiam River approximately 90 ft downstream of the highway. These two barriers blocked off-channel rearing habitat for coho, steelhead, coastal and resident cutthroat trout. These two, respective, projects correct the only documented barriers to fish passage on these tributaries.



### Before Construction



Figure 56. Juvenile coho downstream of newly constructed site 993704 in May 2024.

Figure 57. Top (993702): The old crossing was a 3 ft diameter concrete culvert that was a barrier due to slope. Bottom (993704): The old crossing at 993704 was also a 3 ft diameter concrete culvert that was a barrier due to slope.



## Unnamed Tributaries to WF Hoquiam River, WRIA 22, Site IDs 993702 & 993704 (cont.)

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### After Construction



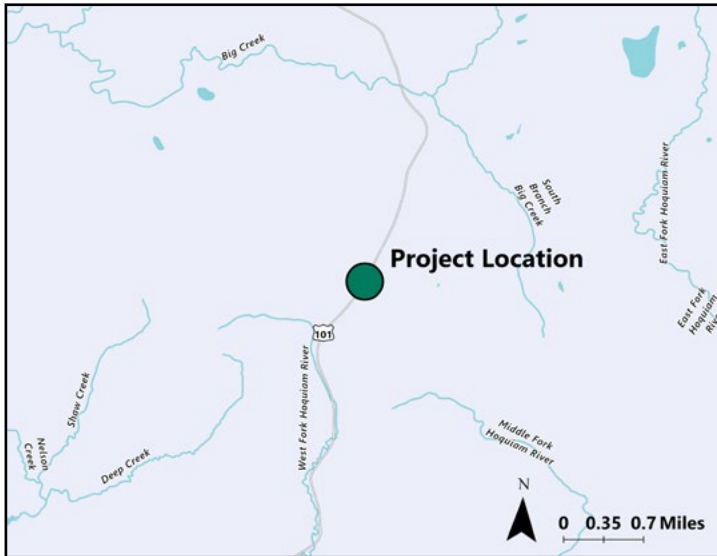
Top (993702): The new crossing at MP 98.47 is a 13.3 ft span by 9.8 ft rise concrete box culvert, restoring access to 0.64 miles of potential habitat.



Bottom (993704): The new crossing at MP 99.45 is a 13.1 ft span by 8.3 ft rise concrete box culvert, restoring access to 0.62 miles of potential habitat.

# Unnamed Tributary to South Branch Big Creek Tributary, WRIA 22, Site ID 990730

## Fish Passage Improvement with I4 Funding



This small, forested tributary in the upper reaches of the South Branch Big Creek basin crosses US 101 at MP 100.7 in Grays Harbor County between Humptulips and Hoquiam before ultimately draining into South Branch Big Creek. This project improved access to 1.08 miles of potential rearing habitat for coho, steelhead, coastal and resident cutthroat trout.

### Before Construction



Figure 59. The old crossing was a 3 ft diameter concrete culvert that was a slope barrier.

### After Construction



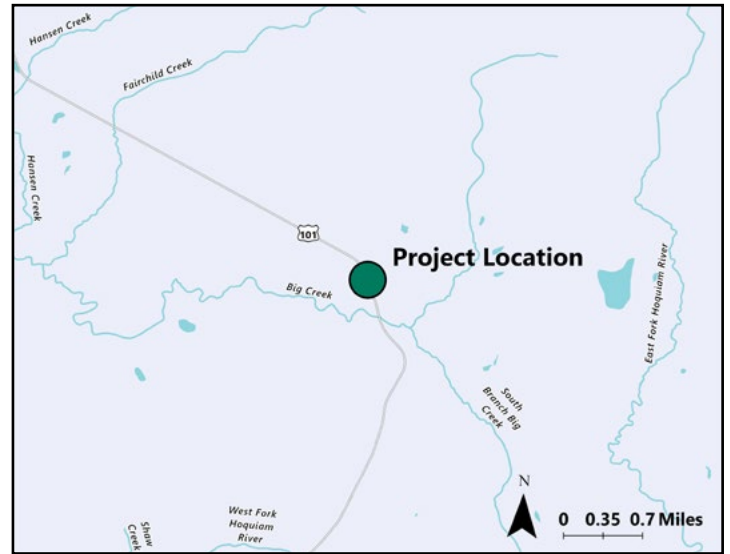
Figure 60. The new crossing is a 15.1 ft span by 14.1 ft rise concrete box culvert.



## Unnamed Tributary to Big Creek, WRIA 22, Site ID 990033

### Fish Passage Improvement with I4 Funding

Another tributary to South Branch Big Creek crosses US 101 at MP 102.97 and is located downstream of the fork between Big Creek and South Branch Big Creek. This project improved access to 1.58 miles of potential habitat for coho, steelhead, coastal and resident cutthroat trout, and bull trout. Grays Harbor County abandoned the need for a crossing upstream of the highway in 2021.



### Before Construction



Figure 61. The old crossing was a box culvert extended with a 6 ft span by 3.6 ft rise squash, corrugated metal culvert that was a barrier due to lack of sufficient water depth during low flow.

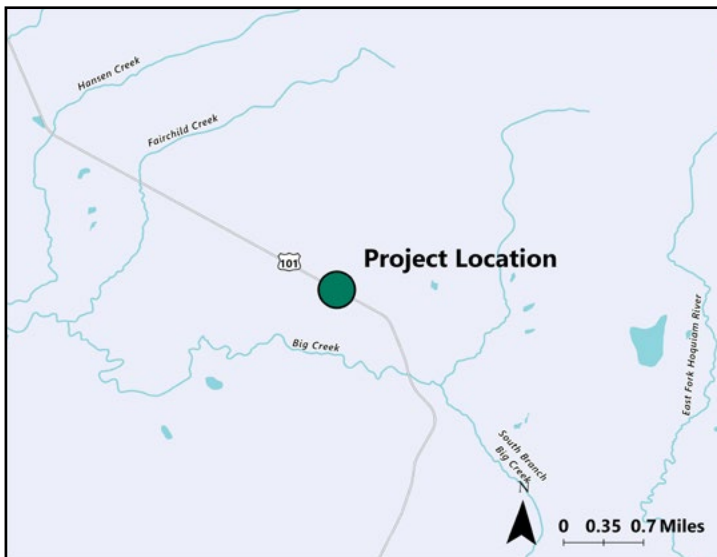
### After Construction



Figure 62. The new crossing is a 25.3 ft span by 12 ft rise concrete box culvert.

## Unnamed Tributary to Big Creek, WRIA 22, Site ID 991501

### Fish Passage Improvement with I4 Funding



Located lower in the watershed than the two sites mentioned above (Sites 990730 and 990033), this tributary to Big Creek crosses US 101 at MP 103.65. This project corrected the only documented fish passage barrier in this tributary, improving access to 2.13 miles of potential spawning and rearing habitat for chum, coho, steelhead, coastal and resident cutthroat trout, and bull trout. Due to ecological priorities based on state-endangered species habitat and a large network of connected protected land, both 990033 and 991501 were constructed to accommodate a wide variety of smaller mammals and semi-aquatic animals by incorporating wildlife benches on both stream banks.

### Before Construction



Figure 63. The old crossing consisted of two corrugated steel culverts each measuring 6 ft in diameter with a channel spanning log control installed downstream of the culverts to aid in backwatering the barrier culverts and hold bed grade. The log control fishway was repaired in 2003 and engineered log jams and root wads were added to the stream channel at that time.

### After Construction



Figure 64. The new crossing structure is a 25.3 ft span by 18.6 ft rise concrete bottomless arch culvert. The single log control fishway was removed as part of the project and replaced with large woody material.



# Unnamed Tributary to Stevens Creek, WRIA 22, Site ID 990731

## Fish Passage Improvement with I4 Funding

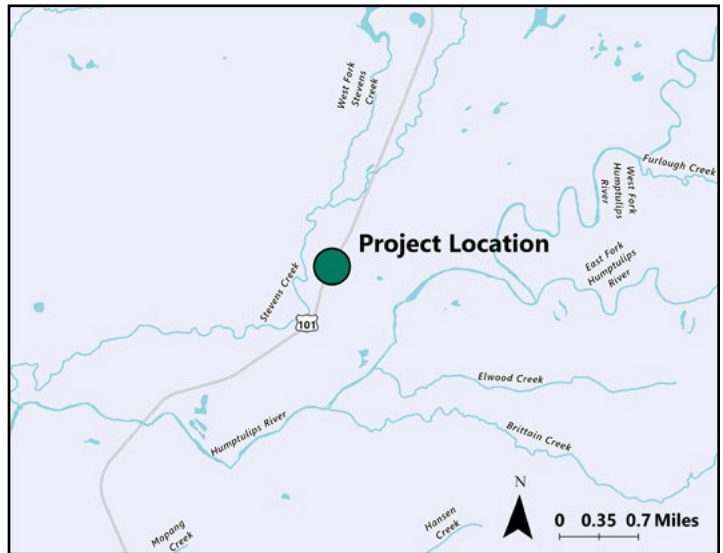
This small, forested tributary of Stevens Creek crosses US 101 at MP 111.34 approximately 1.5 miles north of Humptulips in Grays Harbor County. The project restored access to 0.72 miles of potential habitat for Chinook, coho, steelhead, coastal and resident cutthroat trout plus corrects the only documented barrier on this stream.



## Before Construction



Figure 65. The old crossing consisted of a 4 ft square concrete box culvert cobbled to 4 ft round corrugated metal culvert extensions on either end. This undersized crossing was a barrier due to slope and a hydraulic drop at a joint where the metal culvert met the concrete culvert.



## After Construction



Figure 66. The new crossing is a 28 ft span by 15.6 ft rise structural plate, aluminum, bottomless arch.

Table 2. WSDOT Fish Passage Injunction Barrier Corrections. Sorted by Year, WRIA, Road, and Milepost.

Site ID	Road	MP	Stream	Tributary to	WRIA	Year Corrected	Incremental Habitat Gain (mi)	Lineal Habitat Gain (mi)
991448	SR 9	67.39	NP Cr	Samish R	3	2013	1.31	1.31
994705	SR 520	6.44	unnamed	Yarrow Cr	8	2013	0.44	0.44
994449	SR 520; EB off-ramp	6.03	Yarrow Cr	Lake Washington	8	2013	0.49	3.35
994704	SR 520; Maint Yard	6.40	unnamed	Yarrow Cr	8	2013	0.17	0.61
991215	SR 162	4.82	Ball Cr	Puyallup R	10	2013	1.54	1.54
990297	SR 7	41.13	Muck Cr	Nisqually R	11	2013	5.21	5.21
991246	SR 106	13.50	Twanoh Falls Cr	Hood Canal	14	2013	2.81	0.00
990092	SR 112	57.61	Coville Cr	Strait of Juan de Fuca	19	2013	9.76	9.76
991036	I-5	255.40	Squalicum Cr	Bellingham Bay	1	2014	17.70	21.64
994389	SR 11	20.42	Padden Cr	Bellingham Bay	1	2014	1.84	7.20
995404	SR 530	36.83	unnamed	NF Stillaguamish R	5	2014	0.04	0.04
991169	SR 530	36.90	unnamed	NF Stillaguamish R	5	2014	2.17	0.00
991170	SR 530	37.58	unnamed	NF Stillaguamish R	5	2014	0.12	0.00
994128	SR 522	21.95	unnamed	Skykomish R	7	2014	0.90	0.90
994125	SR 522	21.97	unnamed	Skykomish R	7	2014	0.07	0.07
994236	SR 520	6.19	Yarrow Cr	Lake Washington	8	2014	0.02	2.87
994237	SR 520; LX	6.26	Yarrow Cr	Lake Washington	8	2014	0.15	2.84
994238	SR 520; WB off-ramp	6.27	Yarrow Cr	Lake Washington	8	2014	0.84	2.08
990555	US 101	259.79	Owl Cr	Matriotti Cr	18	2014	2.23	2.23
01.0228 4.80	SR 542	6.55	Anderson Cr	Nooksack R	1	2015	13.61	13.61
991120	SR 9	42.33	Lake Cr	Big Lk	3	2015	6.43	10.22
991718	SR 203	14.55	Coe Clemons Cr	Snoqualmie R	7	2015	1.45	1.45
08.0052 0.10	SR 522	5.76	Lyon Cr	Lake Washington	8	2015	1.82	9.51
991210	SR 99	6.86	WF Hylebos Cr	Hylebos Cr	10	2015	2.09	2.09
991621	SR 542	24.90	High Cr	Kendall Cr	1	2016	2.41	2.41
996155	SR 548	11.19	unnamed	Drayton Harbor	1	2016	2.02	2.02
990624	SR 532	9.75	Secret Cr	Pilchuck Cr	5	2016	1.44	2.84
996928	SR 522	9.66	Horse Cr	Sammamish R	8	2016	1.64	1.64
105 R050320a	SR 167	10.80	Jovita Cr	Milwaukee Canal	10	2016	2.53	2.53
930179	SR 167; ROW	11.43	unnamed	Milwaukee Canal	10	2016	1.38	1.38
990972	SR 161	12.85	South Cr	Muck Cr	11	2016	23.83	23.83
991049	SR 507	36.35	Lacamas Cr	Muck Cr	11	2016	15.09	15.09
14.0021 0.30	SR 108	11.90	Little Skookum Cr	Skookum Cr	14	2016	3.37	3.37
992205	SR 104	22.47	Grovers Cr	Miller Bay	15	2016	3.23	3.23
996753	SR 16; EB	28.10	Anderson Cr	Sinclair Inlet	15	2016	5.77	5.78
990017	SR 16; WB	28.10	Anderson Cr	Sinclair Inlet	15	2016	0.00	5.78
990123	SR 307	0.49	Dogfish Cr	Liberty Bay	15	2016	4.90	4.90
992002	SR 307	4.62	Gamble Cr	Port Gamble	15	2016	5.63	6.22
990205	SR 112	5.17	Jansen Cr	Strait of Juan de Fuca	19	2016	3.55	3.55
990214	SR 112	33.21	Joe Cr	Strait of Juan de Fuca	19	2016	4.45	4.45
990144	SR 112	48.49	Field Cr	Strait of Juan de Fuca	19	2016	5.55	5.55
20.0312 0.60	US 101	197.10	Swanson Cr	Sol Duc R	20	2016	4.13	4.13
990962	SR 121	4.04	Blooms Ditch	Black R	23	2016	3.07	3.07



Site ID	Road	MP	Stream	Tributary to	WRIA	Year Corrected	Incremental Habitat Gain (mi)	Lineal Habitat Gain (mi)
343040	SR 121	4.10	unnamed	Blooms Ditch	23	2016	0.04	0.04
03.0181 0.50	I-5	219.51	Fisher Cr	Carpenter Cr	3	2017	17.11	17.11
05.0018 2.00	SR 532	6.14	Church Cr	Stillaguamish R	5	2017	15.70	18.20
995181	SR 203	14.10	Thayer Cr	Snoqualmie R	7	2017	0.78	0.78
991058	SR 531	8.64	unnamed	Edgecomb Cr	7	2017	0.06	1.82
991059	SR 531	8.71	unnamed	Edgecomb Cr	7	2017	1.76	1.76
996475	I-90; LX	17.00	unnamed	NF Issaquah Cr	8	2017	0.22	0.00
996963	I-90; LX	17.11	NF Issaquah Cr	Issaquah Cr	8	2017	0.86	0.86
934151	I-90; WB off-ramp	17.10	unnamed	NF Issaquah Cr	8	2017	0.09	0.09
991842	SR 900	15.86	Green Cr	May Cr	8	2017	1.34	1.34
996735	SR 3	26.00	unnamed	Mindy Cr	15	2017	0.81	0.81
18.0021 5.40	US 101	260.93	Matriotti Cr	Dungeness R	18	2017	5.02	5.02
991660	SR 112	52.90	Nordstrom Cr	Salt Cr	19	2017	3.02	3.02
990187	SR 542	32.00	Hedrick Cr	Nooksack R	1	2018	0.34	0.34
991122	SR 9	48.01	Gribble Cr	WF Nookachamps Cr	3	2018	2.67	2.67
991717	SR 203	4.91	Historic Langlois Cr	Snoqualmie R	7	2018	5.54	5.54
990233	SR 92	2.69	Little Pilchuck Cr	Pilchuck R	7	2018	28.45	28.93
102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	8	2018	19.88	28.69
102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	8	2018	4.60	4.60
991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	19	2018	3.62	3.62
22.0507 0.10	SR 8	5.00	MF Wildcat Cr	EF Wildcat Cr	22	2018	18.64	18.64
990133	SR 8	6.30	EF Wildcat Cr	Wildcat Cr	22	2018	13.62	13.62
994791	US 12	9.06	unnamed	Wynoochee R	22	2018	1.65	1.65
992349	SR 9	77.36	unnamed	Tawes Cr	1	2019	0.59	0.59
992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	1	2019	3.14	3.14
992356	SR 9	77.94	Tawes Cr	SF Nooksack R	1	2019	2.19	2.19
991160	SR 530	25.94	Schoolyard Cr	NF Stillaguamish R	5	2019	3.53	3.53
990735	SR 6	22.64	Salmon Cr	Rock Cr	23	2019	3.56	3.56
990744	SR 6	31.06	SB Fronia Cr	Fronia Cr	23	2019	3.48	3.48
990746	SR 6	31.08	Fronia Cr	Chehalis R	23	2019	0.00	3.48
995715	I-5; NB	268.64	unnamed	California Cr	1	2020	3.20	3.20
990581	SR 11	18.65	Hoags Cr	Chuckanut Cr	1	2020	0.71	0.71
996003	SR 548	0.29	unnamed	California Cr	1	2020	3.30	3.30
991159	SR 530	24.65	Trafton Cr	NF Stillaguamish R	5	2020	2.81	2.81
990325	SR 202	13.24	Patterson Cr	Snoqualmie R	7	2020	3.21	3.21
991174	SR 202	19.69	unnamed	Patterson Cr	7	2020	2.58	2.58
991173	SR 202	19.77	unnamed	Patterson Cr	7	2020	5.47	5.47
991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	7	2020	3.14	3.14
115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	14	2020	13.32	13.32
990943	SR 116	4.67	Kilisut Harbor	Oak Harbor	17	2020	1.49	0.00
991647	US 101	175.45	unnamed	Hoh R	20	2020	1.89	1.89
990178	US 101	146.85	Harlow Cr	Queets R	21	2020	9.56	10.49
990148	US 101	147.49	Fisher Cr	Queets R	21	2020	3.19	3.19
994386	SR 11	21.08	Padden Cr	Bellingham Bay	1	2021	0.41	5.35
NC129	SR 538	2.18	Logan Cr	Nookachamps Cr	3	2021	1.61	1.61
991106	SR 9	70.60	unnamed	Landingstrip Cr	3	2021	1.34	1.34

Table 2. (Continued)

Site ID	Road	MP	Stream	Tributary to	WRIA	Year Corrected	Incremental Habitat Gain (mi)	Lineal Habitat Gain (mi)
GR9	SR 20	87.70	Fish Cr	Lorenzan Cr	4	2021	1.46	1.46
GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	2021	0.98	0.98
LP19	SR 9	37.26	unnamed	unnamed Pilchuck Cr trib	5	2021	0.02	0.02
996492	SR 169	17.92	unnamed	Cedar R	8	2021	0.14	0.14
105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	2021	9.33	9.33
990286	SR 302	11.30	Minter Cr	Henderson Bay	15	2021	25.48	29.27
990021	US 101	253.85	Bagley Cr	Strait of Juan de Fuca	18	2021	6.49	6.49
18.0173 2.40	US 101	256.10	Siebert Cr	Strait of Juan de Fuca	18	2021	33.99	33.99
934250	US 101; ROW	253.84	unnamed	Bagley Cr	18	2021	1.90	1.90
991544	SR 6	46.39	unnamed	Chehalis R	23	2021	7.92	7.92
991757	SR 6	46.50	unnamed	Chehalis R	23	2021	0.19	8.11
994233	I-5	250.55	Padden Cr	Bellingham Bay	1	2022	4.95	4.95
931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	2022	0.64	0.64
990510	SR 546	0.46	Double Ditch	Fishtrap Cr	1	2022	7.32	7.32
996161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	2022	0.00	7.32
990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	2022	1.16	1.16
990641	SR 9	40.08	Lake Cr	Lake McMurray	3	2022	1.54	1.54
990091	SR 9	41.04	Norway Park Cr	Lake McMurray	3	2022	1.05	1.05
JK2	SR 20	91.30	unnamed	Skagit R	4	2022	0.81	0.81
997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	2022	2.33	2.33
996794	Chico Way; SR 3 ROW	41.08	unnamed	Chico Cr	15	2022	0.79	0.79
996795	SR 3; SB on-ramp	40.99	unnamed	Chico Cr	15	2022	0.12	0.92
15.0051 0.10	SR 302	11.44	Little Minter Cr	Minter Cr	15	2022	0.10	3.79
15.0051 0.20	SR 302	11.50	Little Minter Cr	Minter Cr	15	2022	3.69	3.69
990400	US 101	162.60	Steamboat Cr	Pacific Ocean	20	2022	4.62	4.62
991473	SR 539	11.10	Duffner Ditch	Bertrand Cr	1	2023	5.43	6.07
990014	SR 542	3.45	Squalicum Cr	Bellingham Bay	1	2023	2.95	2.95
996168	SR 544	3.51	unnamed	Four Mile Cr	1	2023	0.65	0.65
991142	SR 20	69.08	unnamed	Red Cr	3	2023	1.00	1.00
CR2	SR 534	0.53	unnamed	Carpenter Cr	3	2023	0.11	1.56
995265	SR 534; ROW	0.60	unnamed	unnamed Carpenter Cr trib	3	2023	1.45	1.45
994308	SR 20	94.47	unnamed	Skagit R	4	2023	0.75	0.75
990236	SR 18	27.57	Lake Cr	Raging R	7	2023	1.35	1.35
995167	SR 203	7.26	unnamed	Horseshoe Lk	7	2023	0.90	0.90
102 N183	SR 96	0.47	North Cr	Sammamish R	8	2023	2.15	2.47
991191	SR 516	0.43	Barnes Cr	Massey Cr	9	2023	1.11	1.11
991225	SR 7	37.50	unnamed	South Cr	11	2023	3.48	3.48
990688	SR 7	38.12	unnamed	South Cr	11	2023	1.48	1.48
990450	SR 106	12.30	Twanoh Cr	Hood Canal	14	2023	1.90	1.90
991237	SR 108	5.50	unnamed	Skookum Cr	14	2023	1.75	1.75
990385	SR 108	5.54	Skookum Cr	Little Skookum Inlet	14	2023	0.30	0.30
990345	spur rd; SR 302	15.80	Purdy Cr	Burley Lagoon	15	2023	0.82	6.49
991907	SR 3; access rd	40.97	unnamed	Chico Cr	15	2023	0.18	1.14
994325	SR 305	2.44	Murden Cr	Murden Cove	15	2023	1.47	1.47
990375	SR 104	10.36	Shine Cr	Hood Canal	17	2023	2.76	2.76



Site ID	Road	MP	Stream	Tributary to	WRIA	Year Corrected	Incremental Habitat Gain (mi)	Lineal Habitat Gain (mi)
990711	SR 19	4.30	Swansonville Cr	EF Chimacum Cr	17	2023	2.33	2.33
990134	US 101	274.25	Eagle Cr	Strait of Juan de Fuca	17	2023	2.54	2.54
990896	US 101	290.35	unnamed	Leland Cr	17	2023	2.30	2.30
995502	US 101	291.79	unnamed	Leland Cr	17	2023	1.28	1.28
990241	US 101	292.52	Leland Cr	Little Quilcene R	17	2023	10.52	14.33
18.0283 2.00	US 101	238.39	Indian Cr	Elwha R	18	2023	9.64	10.63
993702	US 101	98.47	unnamed	WF Hoquiam R	22	2023	0.64	0.64
993704	US 101	99.45	unnamed	WF Hoquiam R	22	2023	0.62	0.62
990730	US 101	100.70	unnamed	unnamed SB Big Cr trib	22	2023	1.08	1.08
990033	US 101	102.97	unnamed	Big Cr	22	2023	1.58	1.58
991501	US 101	103.65	unnamed	Big Cr	22	2023	2.13	2.13
990731	US 101	111.34	unnamed	Stevens Cr	22	2023	0.72	0.72

**Total Incremental Habitat Gain: 571.18 mi**

Notes on Table 2:

Lineal gain represents the amount of potential fish habitat upstream of a corrected barrier. Incremental habitat gain is reported for sites having other WSDOT barriers located upstream. Incremental habitat gain is the amount of potential fish habitat upstream to the next WSDOT barrier.

Costs for projects are available in Appendix 5.

# Fish Passage Program Delivery Progress

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We continue our work to comply with the requirements of a U.S. District Court injunction to correct barriers to salmon and steelhead, and open 90 percent of blocked habitat, as specified in the injunction area, by 2030. We have significantly increased the number of projects under construction contract and beginning design in the 2023-2025 biennium.

We update our Fish Passage project delivery plans quarterly, or sooner, based on new information. See our webpage for updated information on the delivery plan: [2030 Fish Passage Project Delivery Plans Webpage](#)



Figure 67. Chico Creek along SR 3, which is currently under construction, has been one of WSDOT's largest fish passage projects to date. This project has required extensive coordination across the watershed and involved the contributions of many groups, including tribes, the Recreation and Conservation Office, and other agencies like WDFW, the U.S. Navy, and Kitsap County. Being the most downstream barrier in an estuary and intertidal system, this correction will invite immediate benefits to fish and other species.



# Project Planning

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## WSDOT Barrier Corrections and Planning Strategy

WSDOT corrects fish passage barriers through stand alone projects or as part of larger transportation projects.

### Stand-alone Projects

These projects are part of the WSDOT Environmental Retrofit Subprogram (I4). The primary purpose of these projects is to correct fish passage barriers in the injunction area, though some high value projects may also be corrected outside the injunction area each biennium. As part of managing WSDOT's barrier correction program for efficient use of state resources, decisions about project prioritization may involve factors such as:

- amount of habitat blocked and habitat quality;
- tribal input;
- future safety/mobility projects which may address the barrier;
- multiple WSDOT barriers in a watershed;
- project grouping efficiencies for combined construction or traffic detour management;
- structure condition/maintenance issues (culverts identified as being at risk for structural failure are given a high priority);
- partnership opportunities with local agencies, Tribes, enhancement groups, and other landowners.

Proritizing barrier culverts within the case area helps WSDOT comply with the terms of the federal culvert injunction. The prioritization process aims to select the projects that efficiently provide benefits for anadromous and resident anadromous and resident salmonids.

### WSDOT Transportation Improvement Projects

WSDOT also corrects fish barriers during road construction, including safety and mobility projects.

WSDOT integrates fish passage barrier corrections into planned WSDOT transportation improvement projects whenever possible. All fish passage barriers within an upcoming transportation project are considered for correction, including barriers with limited habitat gain that are not considered for correction with dedicated funding. WSDOT works closely with WDFW to identify all fish passage barriers within a project's boundaries.

## Planning and Implementation Improvements

To ensure compliance with the U.S. v. WA injunction requirements by 2030, WSDOT is advancing project delivery through numerous efficiencies, including:

- utilizing the Design-Build and Progressive Design-Build process to encourage innovative design and to increase delivery capacity;
- expediting natural resource consultations and permitting by designating fish passage staff at regulatory agencies;
- bundling projects geographically to minimize impacts to communities and the traveling public while promoting overall watershed benefits;
- fostering partnerships to encourage additional barrier corrections and maximize funding streams;
- ensuring early right-of-way acquisition and utility notification reduces schedule delays; and
- utilization of standard plans for buried structures up to 30 feet which reduces design time and expedites construction.

## Funding

For the 2023-2025 biennium, the legislature provided just over \$1 billion for WSDOT's fish passage program. Refined program estimates from Fall 2023 identified an additional funding need to fully comply with the injunction. WSDOT will continue working with the Legislature in the 2025 session to address this need.

# Fish Passage Barrier Inventory and Assessment

## Fish Passage Inventory Updates

WDFW has inspected 7,736 WSDOT-owned water crossings along 7,052 miles of state highways. WDFW completed the initial inventory in October of 2007. The inspected crossings include culverts as well as other features associated with WSDOT highways and rights-of-way, such as streambed controls and dams.

- Of the 7,736 water crossings, 4,037 were identified as crossings over fish bearing waters.
- Approximately 51% (2,074) of the evaluated fish bearing crossings were identified as barriers (Table 3). Out of the 2,074\* barriers, 1,058 are total barriers to fish passage, 937 provide partial fish passage, while 79 have an unknown percent passability.
- 243 crossings require further analysis to determine fish passage barrier status.
- Barriers with a significant habitat gain\*\* (1,531) are prioritized as directed by the injunction.
- 73 fish passage barrier crossings require verification of significant habitat gain.

\*The number of fish passage barriers is a dynamic value that changes as the on-going inventory takes place. As previously undetected culverts are inventoried, the number of crossings (and possibly fish passage barriers) may increase.

\*\*A significant reach of habitat is defined as a section of stream having at least 200 linear meters of usable habitat without a gradient or natural barrier, both upstream and downstream of the fish passage feature.

Table 3. Fish Passage Barriers Statewide

Total Number of Fish Barriers	Fish Passage Barriers			Unknown Barrier Status	Barriers with Significant Habitat Gain	Barriers with Limited Habitat Gain <sup>1</sup>	Barriers with Habitat Threshold Gain Not Determined	Barriers Fixed <sup>2</sup>
	Total Barriers (0% Passable)	Partial Barriers (33% or 67% Passable)	Percent Passable Unknown					
2,074	1,058	937	79	243	1,531	470	73	420

Based on WSDOT Fish Passage Inventory as of June 1, 2024.

<sup>1</sup> Barriers with less than 200 m potential habitat gain.

<sup>2</sup> Four hundred twenty WSDOT fish passage barriers have been reported as replaced or retrofitted for fish passage; however, some of these require additional work to meet current fish passage criteria.



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Culvert conditions can change over time and reassessment is an ongoing effort. One example is WSDOT's reassessment of injunction-relevant non-barrier culverts every 10 years. In 2023, WDFW reassessed 50 injunction relevant non-barrier culverts and determined:

- 31 had no change in barrier status,
- 4 changed to an unknown barrier status,
- 2 were non-fish bearing,
- 0 were resident trout only,
- 12 were barriers,
- 1 crossing with an unknown barrier status was determined to be passable.

WSDOT also directs WDFW to reassess water crossings along highways in advance of transportation improvement projects in order to provide project planners with the most up-to-date information about WSDOT's fish passage sites. In 2023, WDFW conducted an inventory and assessment on 12.31 miles of highway related to transportation improvements.

### **U.S. v. WA List of WSDOT Case Area Barrier Culverts**

In 2023, WSDOT corrected 32 injunction barriers, opening 67.39 miles (108.45 kilometers) of salmon and steelhead habitat. A list of culverts blocking salmon or steelhead passage within the case area was filed on September 27, 2013, containing 1,014 barriers, including 847 with a significant habitat gain and 167 with a limited habitat gain. As of June 1, 2024, WSDOT has 984 culvert barriers relevant to the U.S. v. WA case - 797 with significant habitat upstream ( $\geq 200$  meters) and 187 with a limited habitat gain ( $< 200$  meters).

The List of WSDOT Case Area Barrier Culverts (Case 2:01-sp-00001-RSM Document 779-1) is updated as WSDOT learns new information about culverts

within the case area and the disposition of culverts may change. The injunction requires the state to re-evaluate non-barrier culverts once every ten years to determine whether they remain passable. Newly identified barriers are discovered as part of this re-inventory work, as culvert conditions can change over time and become barriers.

Updates to WSDOT Culvert Injunction List since September 2013:

- 146 barriers have been corrected and are no longer barriers
- 43 culverts were on resident-fish streams, not containing steelhead or salmon,
- 21 barriers were on streams determined to be non-fish bearing,
- 4 barriers were equipped with tide gates,
- 2 barriers were duplicate records in WDFW's database,
- 44 barriers were re-evaluated as fish passable,
- 14 barriers were incorrectly assigned to WSDOT ownership,
- 2 barriers were not a culvert under a roadway as defined by the federal injunction,
- 247 new injunction relevant barrier culverts were identified.

Appendix I lists the barrier culverts relevant to the injunction as of June 1, 2024. Appendix II lists the updates to the list of WSDOT Case Area Barrier Culverts.

# Monitoring

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## Monitoring Plan

In accordance with the U.S. v. WA Culvert Injunction, representatives from tribal nations and state agencies subject to the injunction agreed upon and finalized the Monitoring Implementation Guidelines in September 2015, which are the basis of WSDOT's Fish Passage Monitoring Plan. Find the complete Monitoring Plan in Appendix III. The Monitoring Plan provides a protocol that can be broadly applied to ensure a consistent and efficient post-project monitoring process for all WSDOT fish passage projects, and satisfies all state and federal permit requirements. Fish passage barrier corrections are monitored at the following time periods:

### Post-Construction Compliance Inspection

WSDOT evaluates all fish passage projects immediately upon completion of construction to ensure they conform to construction permits and design plans. Sites are also evaluated for their ability to pass fish using WDFW's barrier assessment methods.

### Over-Winter Inspection

WSDOT inspects water crossing structures corrected under the injunction within the first year following construction after peak winter flows subside to evaluate the impact of high and low seasonal flows on fish passage at the new structure.

### Long-Term Evaluations

Water crossing structures corrected under the injunction are evaluated at Year 5 and Year 10 after construction to determine if they continue to provide fish passage and to evaluate if the structures conform to the design standards under which they were constructed.

## Actions Resulting from Monitoring

Resulting actions are determined on a case-by-case basis and involve one of the following:

### 1. No Action Needed

The structure is providing fish passage and stream function. The responses to the monitoring standards are within the expected norms.

### 2. Increased Monitoring

The structure is providing fish passage and stream function. Some of the responses to the monitoring standards are outside the expected norms. This action is taken when stream function may naturally correct the substandard responses.

### 3. Repair

The structure is in danger of losing fish passage or stream function, or has lost fish passage but can be restored within the scope of maintenance.

### 4. Modifications

The structure has lost fish passage and stream function but can be restored with a modification to the project site. Modifications are beyond maintenance as they change a portion of the original design elements. Any modification will be monitored to ensure that it functions as designed.

### 5. Add to newly identified barrier list and replace

The structure has lost fish passage and stream function and can only be repaired through complete replacement of the structure.



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## Monitoring Summary

The monitoring effort reported here reflects statewide activities during 2023, including injunction relevant and non-injunction locations. WSDOT conducted 97 monitoring assessments, including:

- 32 Post-Construction Compliance Inspections,
- 14 Over-Winter Assessments,
- 22 Year 5 Evaluations, and
- 12 Year 10 Evaluations

Plus:

- 12 Additional Monitoring Evaluations at 11 sites under Action #2 (Increased Monitoring),
- 2 assessments under Actions #3/4 (Repair/Modify), and
- 3 assessments under condition of our Fish Passage Design Build Warranty.

The WSDOT Fish Passage Barrier Correction Monitoring Plan can be found in Appendix III. Summarized monitoring results for 2023 can be found in Appendix IV. Individual monitoring reports can be generated on the WSDOT fish passage inventory web map by entering the project's unique WDFW Site ID in the Search bar. View our web map by entering the URL [www.tinyurl.com/wsdotfishpassage](http://www.tinyurl.com/wsdotfishpassage).

Of the 32 Post-Construction Inspections, all were within acceptable monitoring parameters, except SR 96 North Creek which had a 100+ year event immediately following construction that created a plane bed condition in the culvert and wracked mobile wood from inside the culvert onto the large woody material in the downstream design reach and was subsequently flagged for Increased Monitoring.

Of the 14 Over-Winter Evaluations, WSDOT Monitoring determined 3 needed Increased

Monitoring and 2 were proposed for Repair. Increased Monitoring site visits are tailored to the specific condition observed at each individual project and is conducted at a frequency and duration such that a determination of whether further action is warranted.

- SR 3 Chico Creek tributary experienced channel degradation through the culvert and upstream design reach that caused braiding of the channel through the length of the culvert and resulted in some perched wood in the upstream design reach. We will closely monitor the channel as it finds a new equilibrium.
- SR 9 Norway Park Creek suffered a large storm event immediately after construction. Aggradation of material filled in the low flow channel, creating a plane bed condition, and negating the function of the meander bar tails in the culvert. The meander bar heads partially deformed but are still in place and forcing sinuosity. We will continue to monitor this project but expect this process to continue until the undersized, private barrier downstream is replaced which will allow sediment transport to resume.
- SR 9 Centennial Creek is a hardened step-pool design that warrants close monitoring of the hydraulic drops during spawning season to ensure they meet the design parameters.
- Both SR 302 Little Minter Creek crossings experienced extensive deformation of the stream channel inside the culverts due to a lack of complexity features of sufficient size and scale to maintain the channel shape during the range of flow events which resulted in a general loss of channel definition approaching, throughout, and exiting the culvert. These two culverts were proposed for Repair.

Included in the 22 Year 5 Evaluations conducted were 5 sites that were carried over from 2022, as it was expected that performance management actions would take place in 2022 at those sites. Those actions were delayed; therefore, the Year 5 evaluations were conducted a year later. One project was flagged for Increased Monitoring, 6 projects were already proposed for a performance management action without change, and 15 met the standards for the Year 5 Interval.

- SR 524 Great Dane Creek developed a mid-channel gravel bar with split flow entrainment because of an in-channel log placed at the outlet. The orientation of the log created deposition of streambed material upstream of the root wad and consequently split flow developed as the two flow paths migrated to the culvert walls. The project was flagged for Increased Monitoring.
- SR 202 Little Bear Creek, SR 8 MF Wildcat Creek, US 101 Matriotti Creek, SR 3 Mindy Creek tributary, SR 900 Green Creek, and I-90 NF Issaquah Creek were all previously proposed for a performance management action. The Year 5 Evaluation reflected no change to that determination.
- One project, NF Issaquah Creek tributary was previously identified as needing a performance management action to correct subsurface flow through the culvert and downstream design channel was removed from that list during the Year 5 Evaluation, because site conditions had changed due to beaver activity downstream of the project and backwatered the entire project reach. Numerous juvenile salmonids were observed upstream of the culvert.

Of the 12 projects receiving Year 10 Evaluations, 1 was flagged for Increased Monitoring, 1 was determined to be non-jurisdictional and changed to non-fish bearing, and 10 met the standards for the Year 10 interval.

- I-90 Rocky Run Creek east of Snoqualmie Pass has experience repeated debris flows since

construction and received an emergency repair in 2023 to arrest bank erosion from undermining the bridge foundations. The stream is still recovering from the effect of the debris flows, and although initially proposed for an additional performance management action to correct subsurface flow due to aggradation of debris material, it was decided to continue monitoring for another winter.

- SR 105 Seastrand Creek was confirmed as being located within a local drainage district management area which WDFW determined to be non-jurisdictional several years prior. The site was changed to non-fish bearing and removed from future monitoring.

For the 12 Increased Monitoring Evaluations which reflect 11 projects, 3 no longer pose a concern and reverted to the regular monitoring schedule, 3 will remain on an annual monitoring schedule (typically annually), and 5 were proposed for performance management.

- SR 9 Lake Creek, SR 169 Cedar River tributary, and SR 504 Wooster Creek were deemed satisfactory and resumed the regular monitoring schedule.
- SR 530 Trafton Creek continues to receive annual monitoring to Year 5 to evaluate the effectiveness of a channel modification that took place in 2022.
- US 101 Coffee Creek continues to receive an annual site visit that includes low flow and temperature monitoring through Year 5.
- SR 108 Little Skookum Creek was rechecked by request to evaluate channel shape and water depth. On 31 July, we observed that the interior channel has deformed as is typical with this era of design. Channel entrained at inlet on the right bank, crossed over mid-length, and has minor entrainment on left bank at outlet. The culvert was determined to be fish passable, but the channel shape lacks definition. A recheck on 7 December to gauge depth of flow for returning adults determined flow depth was adequate for adult spawners. Several carcasses were observed upstream and downstream of culvert and redds were observed upstream.



Annual monitoring continues.

- US 101 Fisher Creek was monitored for loss of channel shape and potential subsurface flow during summer. A camera was installed at the site to inform the hydrologic dynamics. Camera monitoring confirmed subsurface flow under the bridge during the low flow period. This condition is persistent; therefore, the project was proposed for Modification.
- US 101 Bagley Creek developed a hydraulic drop at the upstream tie-in after construction. The project was evaluated as having a featureless upstream design channel and plane bed through the culvert, making passage difficult considering the long channel length. The project was proposed for Repair.
- SR 11 Padden Creek experienced a near 100-year storm event after construction that mobilized a significant amount of sediment into the culvert and resulted in subsurface flow during summer low flow in the culvert that is inconsistent with the adjoining reaches. This undesirable condition persists; therefore, the project was proposed for Modification.
- SR 522 Horse Cr experienced deformation of the channel inside the culvert and scour at the outlet right bank wing wall as vegetation encroached on the channel from the left bank. The channel appears stable at the outlet. Removal of encroaching trees along the headwall could improve channel performance. The project was proposed for Repair.
- SR 11 Hoag's Cr received a performance management action in 2022 to correct subsurface flow partly through the culvert. After rechecks in 2022 and 2023, it was determined that the subsurface flow improved but was still markedly present. The project was again proposed for Modification.

Performance Management: WSDOT Monitoring is tracking pending performance management actions at 11 recently constructed projects to maintain or restore fish passage and/or stream function per Actions #3 and #4 of the Monitoring Plan.

Projects pending actions as of the end of 2023 include:

- SR 202 Little Bear Creek (low depth of flow),
- SR 900 Green Creek (low depth of flow, channel continuity),
- SR 532 Secret Creek (entrainment, channel continuity),
- SR 3 Mindy Creek tributary (seasonal subsurface flow, hydraulic drop),
- US 101 Matriotti Creek (seasonal subsurface flow),
- SR 112 Joe Creek (flow loss, low depth of flow),
- I-90 NF Issaquah Creek (low depth of flow),
- SR 203 Thayer Creek (subsurface flow),
- SR 522 Evans Creek tributary (low depth of flow),
- US 101 Hoh River tributary (subsurface flow),
- SR 20 Fish Creek (plane bed, low depth of flow upstream of culvert).

In addition, 2 projects are pending actions to address hydraulic concerns related to infrastructure. Those projects are US 101 Harlow Creek (bank erosion/channel scour) and SR 8 MF Wildcat Creek (bank erosion/abutment scour). In 2023, WSDOT Monitoring proposed performance management actions take place at 5 additional projects:

- US 101 Fisher Creek (subsurface flow),
- US 101 Bagley Creek tributary (hydraulic drop, plane bed)
- SR 11 Padden Creek (subsurface flow),
- SR 11 Hoag's Creek (subsurface flow),
- SR 522 Horse Creek (scour at outlet)

Effectiveness monitoring was conducted at 2 projects where performance management actions took place in 2023:

- SR 302 Little Minter Creek crosses in two locations, both of which were barrier corrections in 2022. Both culverts experienced significant loss of channel shape, loss of bank material, entrainment, and localized scour over the first winter. Repair work in summer 2023 included the addition of meander bars, rebuilding the channel banks to original grade specifications, installing buried slash, and the addition of large woody material outside of the culverts along with coir logs and live stakes to stabilize the banks. Both sites will be monitored annually.

Lastly, we conducted compliance inspections at WSDOT-adjacent projects as a condition of a Design Build Fish Passage Warranty. All three locations, associated with a large-scale I-405 corridor improvement, passed inspection and we be reassessed at the end of the warranty period.

### Post-Project Evaluation for Fish Presence

Adult spawner surveys are designed to detect the presence of live fish, spawned (dead) fish and/or redd building activity located above and below recently completed I-4 funded, stand-alone fish passage projects. Spawner surveys for each project are conducted during the first two years following construction. Surveys are typically conducted within the first 500 meters (1,640.5 ft.) directly upstream and downstream of the project. However, some surveys may be shorter if the distance to a confluence with a larger body of water downstream is less than 500 meters or if there is a natural barrier upstream within the 500 meters. If there is no spawning habitat within 500 meters upstream or downstream of the fish passage project, the survey may be relocated to where fish are likely to spawn. Each project should have two surveys completed each year during the typical run time (between October and January). If fish presence is detected during the first survey, no additional surveys are required for that location.

Spawner surveys were conducted between November 6th and December 28th, 2024. WDFW Inventory and Assessment crews conducted 19, first-year surveys for projects completed during 2023, and four, second-year surveys for projects completed during 2022. In

total, WDFW crews completed 33 surveys across 24 different project locations. Unfortunately, due to an oil spill adjacent to one project location (CR2), the survey was unable to be completed. Of the 32 sites that were corrected in 2023, 13 sites were not surveyed for spawning activity due to a variety of reasons, including crossing abandonments and fish observations made during post-construction monitoring.

In total, nine projects received positive hits for fish presence/usage, including seven sites that were corrected in 2023 and two sites that were corrected in 2022. A total of 22 live adult salmon (coho and chum) were observed utilizing upstream habitat at five project locations. A total of nine spawned out adult salmon carcasses (coho and chum) were found upstream of four project locations. A total of eight salmon redds were observed upstream of four project locations. A total of one live adult Coho salmon was observed utilizing downstream habitat at one project location. A total of three spawned out adult salmon carcasses (coho and chum) were found downstream of three projects. And a total of one salmon redd was found downstream of one project location.

In cases where adult salmon or redds may not have been observed during WDFW's site visit, it does not mean that fish have not or will not utilize the area. These surveys, provide only a snapshot in time within a relatively small section of stream. There are multiple factors that may help to explain the lack of detection for a specific project. The injunction area covers approximately 20,000 square miles. Due to this large extent, run timing for specific species can be highly variable across the landscape. For example, streams located in Jefferson County may start seeing the return of fish during the later parts of summer, whereas streams located in South Puget Sound may have runs that extend later into the winter. This can make it difficult to determine when the detection probability would be highest for an individual system.

In addition to run timing, there are other natural and anthropogenic variables that may limit detectability. These variables can include but are not limited to, turbidity, high flows, sun glare, accessibility, habitat availability, fish behavior, as well as the level of experience individual surveyors have locating and identifying redd characteristics. Additionally, since



WSDOT barriers are located across the landscape, it is possible that some projects will have additional human-made barriers downstream which may limit access to corrected WSDOT barriers.

Spawner surveys are not necessarily the most effective tool at detecting the presence of fish upstream of a correction. This is why WSDOT is working with researchers to develop new protocols and methods to detect the presence of fish, including the use of eDNA sampling.

Not all projects see utilization by salmonids immediately following a barrier correction. In some cases, it may take several years before the newly available habitat is utilized. Fish passage is only one of the many factors influencing fish production. Among the other factors are surface water diversions, pollution, hydropower, unfavorable ocean conditions, predation, commercial and private harvest, downstream barriers, climate change, and general habitat degradation or loss.

Below is a summary of the projects where utilization by at least one salmonid species was detected.

In addition to the project locations surveyed by WDFW's Inventory and Assessment team, spawning coho were observed by WSDOT and WDFW staff during the Post-Construction Monitoring at SR 18 Lake Cr, Site ID: 990236.

Table 4. Spawner Survey Detections.

Site ID	State Route	Milepost	Stream Name	Species Observed
990731	US 101	111.30	UNT to Stevens Cr	Coho (O. kisutch)
990375	SR 104	10.36	Shine Cr	Coho (O. kisutch)
990896	US 101	290.40	UNT to Leland Cr	Coho (O. kisutch)
995502	US 101	291.80	UNT to Leland Cr	Coho (O. kisutch)
990241	US 101	292.50	Leland Cr	Coho (O. kisutch)
990450	SR 106	12.30	Twano Cr	Chum (O. keta)
990345	SR 302 Spur	15.80	Purdy Cr	Chum (O. keta)
JK2	SR 20	91.30	UNT to Skagit R	Coho (O. kisutch)
990091	SR 9	41.04	Norway Park Cr	Coho (O. kisutch)

## Fishway Inspections and Maintenance

WDFW's 2013 Water Crossing Design Guidelines defines a fishway as "A system specifically designed for passage of fish over, around or through an obstruction. Such systems include hydraulic-control devices, special attraction devices, collection and transportation channels, fish ladders, a series of weirs designed for fish passage, and culvert retrofit systems." Figure 68 illustrates examples of durable and effective WSDOT fishways.

Many highway culvert crossings were retrofitted with fishways during the early to mid-1990's as an interim method to provide fish passage until long-term solutions (e.g. culvert replacement) could be implemented. The expected lifespan of fishway structures is approximately twenty-five years and many of those fishways are deteriorating, becoming fish barriers requiring repair. WSDOT no longer constructs fishways because they do not meet current fish passage design standards nor the terms of the federal culvert injunction.

WSDOT currently maintains 138 fishways statewide. The total number of WSDOT fishways decreased this year, when the former fishway culvert at US 101 Big Creek tributary (Site 991501) was replaced last summer.

Regular inspections and maintenance are essential for the continued successful operation of fishways. Some of the fishways require frequent maintenance to ensure fish passage, but they are not fish passage barriers. WDFW biologists usually perform regular inspections of fishways in the spring. They document maintenance needs or fish passage deficiencies then notify WSDOT. Follow-up inspections, normally conducted in the fall, ensure that fish passage deficiencies were corrected and maintenance needs were met.

In Spring of 2024, WDFW inspected 90 fishways. Sixty-seven of those sites were deemed passable to fish in 2024, of those two sites require maintenance to maintain fish passage. Twenty fishways are documented as partial barriers but with ongoing maintenance can afford some degree of passability.

One fishway is a total barrier and will be prioritized for future correction. Barrier status is unknown for one fishway and will require further assessment to determine barrier status.

Maintenance of the fishways includes removal of organic debris, trash, and sediment, repairing broken weirs and other similar activities.

When fishways reach the end of their useful life and can no longer provide fish passage, they are put on the barrier list to be evaluated by biologists and engineers for a repair solution. Like the other fish passage barriers, barrier fishways are included in the scoping and prioritization process that will ultimately lead to repair or replacement.

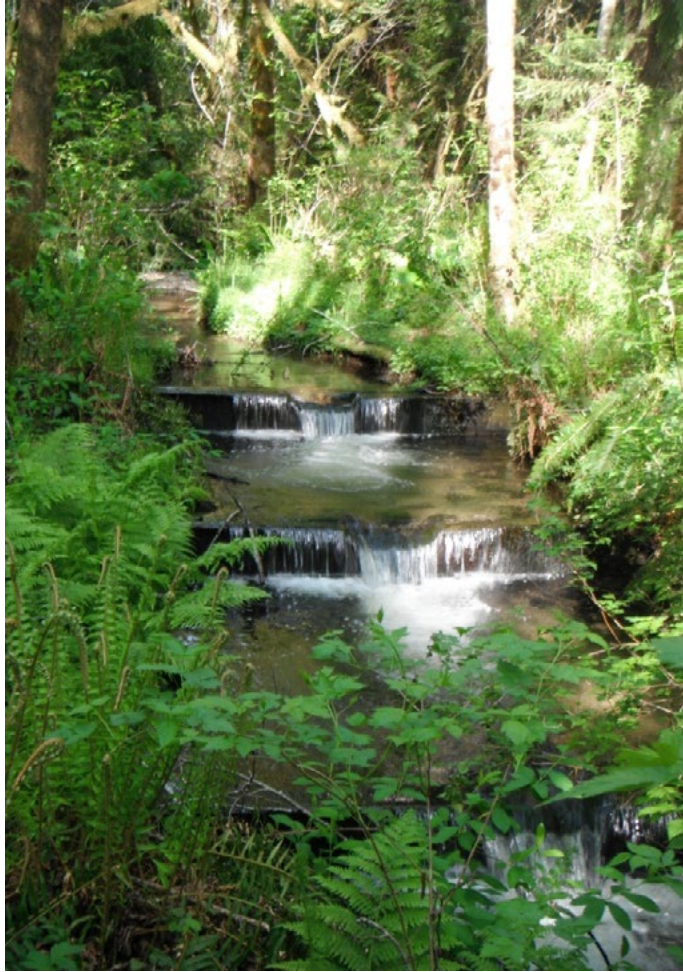


Figure 68. Examples of WSDOT fishways. Top: 14.0009A 0.06 on US 101 Holiday Valley Creek; Bottom left: 990363 on US 101 SF Nemah River; Bottom right: 27.0300 0.00 on SR 503 Robinson Creek.



# Other Ecological Considerations for Fish Passage Projects

## Background

WSDOT's work to remove highway-related barriers to salmon and steelhead migration provides important opportunities to assess and implement additional ecological improvements. Two of these areas are stormwater management and terrestrial habitat connectivity.

## Stormwater

Most of Washington's state highways were constructed before the federal Clean Water Act and the Washington Water Pollution Control Act, and many highway segments still don't have adequate facilities to treat stormwater runoff. WSDOT focuses on these highway segments for investments that minimize or mitigate the harmful effects of toxic chemicals in stormwater, including from a new pollutant identified in 2020 as 6PPD-quinone (6PPD-q), a byproduct of the tire additive 6PPD. 6PPD-q was recently identified as a major cause of urban runoff mortality syndrome resulting in harm or death of fish, particularly in their early life stages. Studies show that 6PPD-q is most deadly to coho salmon, and emerging science indicates harmful effects to other species including rainbow trout and brook trout.

All WSDOT projects treat stormwater when adding new pavement or resurfacing roads to meet current stormwater treatment standards and regulations. WSDOT also addresses stormwater impacts from existing transportation infrastructure through stormwater retrofits. Each WSDOT fish passage project undergoes a stormwater retrofit assessment to identify opportunities to ensure that fish return to higher quality habitat after a barrier is removed.

## Terrestrial Wildlife Habitat Connectivity

Like culverts and other highway-related barriers to fish passage, Washington's extensive network of roadways have, in some areas, impeded the degree that terrestrial species like elk, cougar, and other animals can move freely through and between habitats. From an ecological perspective, a functional network of connected habitats is essential to the

continued existence of Washington's diverse species and natural communities. Improving terrestrial wildlife connectivity along key segments of our state highway network is crucial for improving highway safety and addressing habitat loss and fragmentation.

Riparian corridors, where aquatic and terrestrial environments meet, comprise small portions of the overall landscape but still provide critical ecosystem functions. These areas are commonly utilized by wildlife to travel between patches of suitable habitat, and in highly fragmented urban landscapes, represent some of the last remaining travel routes available. WSDOT's fish barrier removal work presents opportunities to assess habitat connectivity co-benefits at locations that are also identified by habitat biologists as having high priority terrestrial wildlife connectivity needs. In most cases, simultaneously addressing high priority terrestrial wildlife connectivity needs as part of fish passage projects can be accomplished without substantial changes to the fish passage structure design and at little to no additional cost. When possible, addressing terrestrial wildlife habitat connectivity at the same time as fish barrier removal work leads to engineering efficiencies and overall cost-savings.



Figure 69. WSDOT trail camera captures deer walking upon designed wildlife bench beneath newly constructed bridge.

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# Appendix I

## WSDOT Culvert Barriers Relevant to the Injunction



**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with ≥ 200 meters habitat gain; 187 barrier culverts with <200 meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	03.0183 1.20	I-5; LX	218.56	unnamed	Milltown Cr	3	Skagit	Yes	No
NW	07.0396 0.80	SR 18	25.7	Deep Cr	Raging R	7	King	Yes	Yes
NW	08.0070 A 0.25	I-405	26.46	Perry Cr	North Cr	8	Snohomish	Yes	Yes
NW	08.0077 0.20	SR 527	6.55	Penny Cr	North Cr	8	Snohomish	Yes	Yes
NW	101L-01	SR 203	3.97	unnamed	Griffin Cr	7	King	No	Yes
NW	101NORT-01	US 2	15.74	unnamed	Skykomish R	7	Snohomish	Yes	No
NW	101NORT-32	US 2	20.48	unnamed	unnamed Skykomish R trib	7	Snohomish	Yes	Yes
NW	101NORT-33	US 2	20.53	unnamed	Skykomish R	7	Snohomish	Yes	Yes
NW	101OWEN-02	US 2	21.74	Groeneveld Cr	Skykomish R	7	Snohomish	Yes	Yes
NW	101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	King	Yes	No
NW	101S-22	SR 202	22.56	unnamed	Snoqualmie R	7	King	Yes	Yes
NW	101SA-06	SR 202	23.18	Skunk Cr	Snoqualmie R	7	King	Yes	Yes
NW	102 L012	SR 9	0.17	Howell Cr	Little Bear Cr	8	Snohomish	Yes	Yes
NW	102 M046	I-5; WB Ext 177	177.85	McAleer Cr	Lake Washington	8	Snohomish	Yes	Yes
NW	102 M048	I-5; Service Rd	177.85	unnamed	McAleer Cr	8	Snohomish	Yes	Yes
NW	102 N192	SR 99	54.23	North Cr	Sammamish R	8	Snohomish	Yes	Yes
NW	102 N218	I-5	186.93	unnamed	North Cr	8	Snohomish	No	Yes
NW	102 Q028	SR 9	24.44	unnamed	Quilceda Cr	7	Snohomish	Yes	Yes
NW	102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	Snohomish	Yes	No
OL	105 K051518a	SR 302	16.15	Goodnough Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	105 K051618a	SR 16	16.59	Goodnough Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	105 R021121a	SR 162	11.04	Card Cr	Carbon R	10	Pierce	Yes	Yes
NW	105 R022221a	SR 410	41.42	unnamed	White R	10	King	Yes	Yes
OL	105 R032517a	SR 162	12.43	Rauch Cr	Carbon R	10	Pierce	No	No
OL	105 R032918d	SR 162	12.44	Rauch Cr	Carbon R	10	Pierce	Yes	Yes
OL	105 R033018B	SR 165	19.76	Spike-ton Cr	S Prairie Cr	10	Pierce	Yes	Yes
OL	105 R033020A	SR 162	16.67	Treaty Wars Cr	S Prairie Cr	10	Pierce	Yes	No
OL	105 R040517a	SR 162	19.11	unnamed	S Prairie Cr	10	Pierce	Yes	Yes

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with  $\geq 200$  meters habitat gain; 187 barrier culverts with  $<200$  meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	105 R050320b	SR 167; 8th St E	10.65	Milwaukee Canal	White R	10	Pierce	Yes	No
OL	105 R052621a	SR 410	11.66	unnamed	Salmon Cr	10	Pierce	Yes	No
NW	105 R071916a	SR 410	48.29	Boundary Cr	White R	10	Pierce	Yes	Yes
NW	105 R072018a	SR 410	59.57	unnamed	White R	10	Pierce	No	Yes
OL	105 R121419a	SR 509; WB	2.97	Wapato Cr	Blair Waterway	10	Pierce	Yes	No
NW	105 S011918a	SR 161	34.03	unnamed	Hylebos Cr	10	King	Yes	Yes
OL	115 MC144	US 101	355.58	unnamed	Totten Inlet	14	Mason	Yes	Yes
OL	115 MC160	SR 106	7.34	unnamed	Hood Canal	14	Mason	Yes	No
OL	115 MC180	US 101	348.21	unnamed	Mill Cr	14	Mason	Yes	Yes
OL	115 MC190	SR 106	14.72	Mulberg Cr	Hood Canal	14	Mason	Yes	Yes
OL	115 MC218	SR 106	19.57	Devereaux Cr	Hood Canal	14	Mason	Yes	Yes
OL	125 1502W11B	SR 507	8.22	unnamed	Skookumchuck R	23	Thurston	Yes	Yes
OL	125 1806W34G	US 12	19.17	unnamed	Vance Cr	22	Grays Harbor	Yes	Yes
OL	14.0010 0.10	US 101	356.8	Countyline Cr	Schneider Cr	14	Mason	Yes	Yes
OL	15.0056 4.50	SR 16	22.7	Burley Cr	Henderson Bay	15	Kitsap	Yes	Yes
OL	15.0060 1.00	SR 16	17.8	Purdy Cr	Burley Lagoon	15	Pierce	Yes	Yes
OL	15.0201 0.90	SR 166	4.52	Olney Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	15.0208 0.00	SR 166	2.56	Johnson Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	15.0229 0.10	SR 3	40.96	Chico Cr	Dyes Inlet	15	Kitsap	Yes	Yes
OL	15.0246 0.96	SR 3	44.8	Strawberry Cr	Dyes Inlet	15	Kitsap	Yes	Yes
OL	15.0280 1.00	SR 308	1.15	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	162173	SR 104	4.25	unnamed	Barnhouse Cr	17	Jefferson	Yes	Yes
OL	162192	SR 104	12.57	unnamed	Squamish Harbor	17	Jefferson	Yes	Yes
OL	18.0234 1.10	US 101	250	Ennis Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	22.0349 0.70	US 12	12.36	Camp Cr	Chehalis R	22	Grays Harbor	Yes	No
OL	343041	SR 121	4.84	Hopkins Ditch	Salmon Cr	23	Thurston	Yes	No
NW	370614	I-5	243.43	unnamed	Samish Lk	3	Whatcom	Yes	Yes
OL	920412	SR 166; Mile Hill Dr	4.11	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with ≥ 200 meters habitat gain; 187 barrier culverts with <200 meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	930022	SR 160	1.92	unnamed	unnamed Salmonberry Cr trib	15	Kitsap	No	Yes
NW	930252	I-5	187.93	unnamed	Penny Cr	8	Snohomish	Yes	Yes
NW	930309	SR 543	0.12	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
OL	930373	US 101	291.73	unnamed	Leland Cr	17	Jefferson	No	No
OL	930408	SR 303; LX	6.7	unnamed	Hoot Cr	15	Kitsap	Yes	Yes
OL	930416	SR 303; NB on-ramp	6.72	unnamed	Hoot Cr	15	Kitsap	No	Yes
OL	930603	SR 167; ROW	9.47	unnamed	Milwaukee Canal	10	Pierce	Yes	Yes
NW	930834	SR 9	69.87	unnamed	Samish R	3	Whatcom	Yes	Yes
SW	930852	SR 6	33.3	unnamed	Chehalis R	23	Lewis	Yes	Yes
NW	930940	I-5;ROW	215.07	WF Church Cr	Church Cr	5	Snohomish	Yes	No
OL	931349	US 12	11.49	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes
NW	931850	SR 522	21.82	unnamed	unnamed Snohomish R trib	7	Snohomish	No	Yes
NW	932089	I-90; EB	21.82	unnamed	EF Issaquah Cr	8	King	No	Yes
OL	932143	SR 303; LX	6.9	unnamed	Hoot Cr	15	Kitsap	Yes	No
OL	932154	SR 303	6.64	unnamed	Hoot Cr	15	Kitsap	Yes	No
OL	932155	SR 303; NB off-ramp	6.62	unnamed	Hoot Cr	15	Kitsap	Yes	No
NW	932343	I-90	15.14	unnamed	Lake Sammamish	8	King	Yes	Yes
OL	932345	SR 512;WB on ramp	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes	Yes
OL	932347	SR 512	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes	Yes
OL	932349	SR 512; EB off ramp	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes	Yes
NW	932426	US 2; WB on-ramp	5.02	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes	Yes
NW	932428	US 2	5.18	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes	Yes
OL	932502	US 101	281.69	unnamed	Discovery Bay	17	Jefferson	Yes	No
OL	932888	US 101; off-ramp	246.18	unnamed	Tumwater Cr	18	Clallam	Yes	No
NW	932933	I-405	10.06	unnamed	Coal Cr	8	King	Yes	No
OL	933183	SR 509	5.24	unnamed	Commencement Bay	10	Pierce	Yes	No
OL	933185	SR 509	5.71	unnamed	Commencement Bay	10	Pierce	No	No
OL	933186	I-5	134.33	unnamed	Puyallup R	10	Pierce	No	No



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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	933244	I-405	13.16	Sturtevant Cr	Kelsey Cr	8	King	Yes	No
NW	933258	I-405	12.03	Trail Cr	Mercer Sl	8	King	No	No
NW	933259	I-405	7.61	unnamed	Lake Washington	8	King	Yes	No
OL	933284	SR 305	13.12	unnamed	Dogfish Cr	15	Kitsap	Yes	No
OL	933313	I-5; NB	115.77	unnamed	unnamed Red Salmon Cr trib	11	Pierce	No	No
NW	933329	SR 167	23.71	unnamed	Springbrook Cr	9	King	Yes	No
OL	933360	SR 107	4.34	unnamed	Chehalis R	22	Grays Harbor	Yes	No
OL	933361	SR 107; ROW	4.34	unnamed	Chehalis R	22	Grays Harbor	Yes	No
OL	933369	US 101	263.43	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Clallam	Yes	No
NW	933400	I-5; NB; ROW	270.2	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No
NW	933401	I-5; NB ROW	270.4	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No
NW	933402	I-5; NB on-ramp	270.5	unnamed	unnamed California Cr trib	1	Whatcom	No	No
OL	933500	SR 119	9.38	Big Cr	Lake Cushman	16	Mason	Yes	No
NW	933530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	King	Yes	No
NW	933613	I-5; ROW S 288th St	145.81	Bingaman Cr	Bingaman Pond	9	King	Yes	No
OL	933616	US 12	17.56	unnamed	Wenzel Sl	22	Grays Harbor	Yes	No
OL	933644	SR 305	1.9	unnamed	Murden Cove	15	Kitsap	No	No
OL	933663	SR 305	3.37	unnamed	Murden Cove	15	Kitsap	No	No
OL	933664	SR 305	3.4	unnamed	Murden Cove	15	Kitsap	No	No
NW	933665	I-5	196.24	unnamed	Snohomish R	7	Snohomish	Yes	No
OL	933682	US 101;ROW	175.77	unnamed	Hoh R	20	Jefferson	Yes	No
OL	933685	SR 305	5.23	unnamed	Port Madison	15	Kitsap	No	No
OL	933686	SR 305	5.37	unnamed	Manzanita Bay	15	Kitsap	Yes	No
NW	933867	I-90	6.78	unnamed	Lake Washington	8	King	No	No
OL	934154	SR 16	27.49	unnamed	Sinclair Inlet	15	Kitsap	No	No
OL	934255	US 101	167.52	unnamed	Fletcher Cr	20	Jefferson	No	No

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	934276	SR 522	18.77	unnamed	unnamed Evans Cr trib	7	Snohomish	Unknown	No
NW	934371	I-5	259.91	unnamed	Silver Cr	1	Whatcom	Yes	No
NW	934372	SR 529; SB	6	unnamed	Steamboat Sl	7	Snohomish	No	No
NW	934387	SR 99	48.69	unnamed	Swamp Cr	8	Snohomish	Yes	No
OL	934541	SR 16	15.16	unnamed	McCormick Cr	15	Pierce	Yes	No
NW	934543	I-5	172.38	unnamed	SF Thornton Cr	8	King	No	No
NW	934820	I-90; EB on-ramp	25.69	unnamed	Lake Cr	7	King	Yes	No
NW	934821	I-90; WB	25.68	unnamed	Lake Cr	7	King	Yes	No
NW	934822	I-90; WB off-ramp	25.68	unnamed	Lake Cr	7	King	Yes	No
NW	934828	SR 18	27.83	unnamed	Lake Cr	7	King	Yes	No
NW	934882	SR 18	24.42	unnamed	Deep Cr	7	King	Yes	No
NW	935056	SR 169	7.1	Rock Cr	Jones Lk	9	King	Yes	No
OL	935061	SR 16	24.55	unnamed	Blackjack Cr	15	Kitsap	Yes	No
NW	935070	I-5	147.57	unnamed	unnamed SF McSorley Cr trib	9	King	No	No
NW	935187	SR 167	17.39	unnamed	Mill Cr	9	King	No	No
OL	935235	SR 167	8.85	unnamed	Milwaukee Canal	10	Pierce	Yes	No
NW	935338	SR 18	24.71	unnamed	Deep Cr	7	King	No	No
NW	935342	SR 167; NB off-ramp	22.25	unnamed	Garrison Cr	9	King	Yes	No
NW	935343	SR 167; NB off-ramp	22.24	unnamed	Garrison Cr	9	King	Yes	No
OL	935446	SR 507	15.95	unnamed	unnamed Scatter Cr trib	23	Thurston	Yes	No
OL	935539	SR 16	15.05	unnamed	McCormick Cr	15	Pierce	Yes	No
OL	935540	SR 16	15.09	unnamed	McCormick Cr	15	Pierce	Yes	No
NW	935836	SR 599	0.62	Southgate Cr	Duwamish R	9	King	Yes	No
OL	935880	SR 303	6.35	unnamed	Hoot Cr	15	Kitsap	Yes	No
OL	935904	SR 509	6.55	Dry Gulch	Puget Sound	10	Pierce	No	No
NW	935921	I-5; NB on-ramp	0.03	unnamed	Silver Cr	1	Whatcom	Yes	No
NW	936016	SR 515	6.75	Rolling Hills Cr	Springbrook Cr	9	King	Yes	No
NW	936041	I-405	9.2	Lakehurst Cr	Lake Washington	8	King	Yes	No

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with ≥ 200 meters habitat gain; 187 barrier culverts with <200 meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	936077	SR 16	28.44	unnamed	Sinclair inlet	15	Kitsap	No	No
NW	936092	SR 548	12.48	unnamed	Drayton Harbor	1	Whatcom	Yes	No
OL	936179	SR 16 W	27.95	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
OL	936180	SR 16 E; SR 166	27.94	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
NW	936210	SR 539	3.49	Silver Cr	Nooksack R	1	Whatcom	Yes	No
NW	936471	US 2	47.05	unnamed	SF Skykomish R	7	King	Yes	No
OL	936572	SR 166	3.35	unnamed	Blackjack Cr	15	Kitsap	Yes	No
OL	980274	SR 105	38.28	unnamed	Johns R	22	Grays Harbor	No	Yes
OL	980275	SR 105	38.1	unnamed	Johns R	22	Grays Harbor	Yes	Yes
OL	990008	SR 106	6.85	Big Bend Cr	Hood Canal	14	Mason	Yes	No
NW	990015	SR 539	0.3	Spring Cr	Baker Cr	1	Whatcom	Yes	Yes
NW	990022	I-5	256.28	Baker Cr	Squalicum Cr	1	Whatcom	Yes	Yes
OL	990024	SR 303	6.66	Hoot Cr	Barker Cr	15	Kitsap	Yes	Yes
NW	990025	I-5; NB	244.2	Barnes Cr	Samish Lk	3	Whatcom	Yes	Yes
OL	990028	I-5	94.96	Beaver Cr	Black R	23	Thurston	Yes	No
OL	990038	SR 16	25.3	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	990075	US 101	271.98	Chicken Coop Cr	Sequim Bay	17	Clallam	Yes	Yes
OL	990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	Jefferson	Yes	No
NW	990080	SR 532	6.68	unnamed	Church Cr	5	Snohomish	Yes	Yes
NW	990082	SR 410	35.77	Clay Cr	White R	10	King	Yes	Yes
OL	990090	US 101	277.9	Contractors Cr	Discovery Bay	17	Jefferson	Yes	Yes
OL	990107	US 101	270.57	Dean Cr	Sequim Bay	17	Clallam	Yes	No
NW	990111	SR 104	25.52	Willow Cr	Shelleberger Cr	8	Snohomish	Yes	Yes
OL	990121	SR 305	12.8	Dogfish Cr	Liberty Bay	15	Kitsap	Yes	No
NW	990139	SR 522	20.19	Elliott Cr	Snohomish R	7	Snohomish	Yes	Yes
NW	990142	SR 202	11.96	Evans Cr	Bear Cr	8	King	Yes	Yes
NW	990167	SR 520	7.9	Goff Cr	WF Kelsey Cr	8	King	Yes	Yes
OL	990168	SR 3	32.1	Gorst Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	990169	US 101	189.4	Grader Cr	Bogachiel R	20	Clallam	Yes	Yes



**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	990173	SR 18	22.08	Holder Cr	Issaquah Cr	8	King	Yes	Yes
OL	990175	US 101	106.5	Hansen Cr	Big Cr	22	Grays Harbor	Yes	No
OL	990191	US 101	332.65	Mill Cr	Hood Canal	16	Mason	Yes	Yes
OL	990199	I-5	105.85	Indian Cr	Moxlie Cr	13	Thurston	Yes	Yes
NW	990215	SR 11	1.45	unnamed	Joe Leary Sl	3	Skagit	Yes	No
OL	990218	SR 3	50.94	MF Johnson Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	990219	US 101	267.18	Johnson Cr	Sequim Bay	17	Clallam	Yes	Yes
OL	990235	SR 308	0.94	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	990240	US 101	250.5	Lees Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
NW	990246	SR 530	42.14	Little French Cr	NF Stillaguamish R	5	Snohomish	Yes	Yes
OL	990252	US 101	136.45	Cedar Cr	Raft R	21	Grays Harbor	Yes	No
NW	990253	SR 104	31.23	Lyon Cr	Lake Washington	8	King	Yes	Yes
NW	990255	SR 9	27.24	Prairie Cr	Portage Cr	5	Snohomish	Yes	Yes
OL	990269	US 101	184.66	May Cr	Bogachiel R	20	Clallam	Yes	Yes
OL	990270	SR 16	27.1	unnamed	Ross Cr	15	Kitsap	Yes	Yes
NW	990273	I-5	177.93	McAleer Cr	Lake Washington	8	Snohomish	Yes	Yes
NW	990274	SR 522	4.69	Bsche'tla Cr	Lake Washington	8	King	Yes	No
OL	990276	US 101	123.05	McCalla Cr	Boulder Cr	21	Grays Harbor	Yes	Yes
OL	990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	Mason	Yes	No
OL	990292	I-5	105.52	Moxlie Cr	Budd Inlet	13	Thurston	Yes	Yes
NW	990294	SR 528	2.51	Munson Cr	Allen Cr	7	Snohomish	Yes	Yes
OL	990326	US 101	248.1	Peabody Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	990357	SR 16	26.88	Ross Cr	Sinclair Inlet	15	Kitsap	Yes	No
OL	990358	SR 166	1.76	Ross Cr	Sinclair Inlet	15	Kitsap	Yes	No
NW	990361	SR 530	27.75	Ryan Falls Cr	Stillaguamish R	5	Snohomish	No	Yes
OL	990366	SR 160	2.29	Salmonberry Cr	Long Lk	15	Kitsap	Yes	Yes
NW	990376	I-405	19.12	Forbes Cr	Juanita Bay	8	King	Yes	No
OL	990387	SR 112	0.72	Snow Cr	Strait of Juan de Fuca	19	Clallam	Yes	No
OL	990395	SR 3	58.49	Spring Cr	Hood Canal	15	Kitsap	Yes	Yes

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SW	990405	SR 6	36.21	unnamed	Chehalis R	23	Lewis	No	No
NW	990410	SR 20	99.95	Sutter Cr	Skagit R	4	Skagit	Yes	Yes
SW	990423	SR 6	36.74	unnamed	Hope Cr	23	Lewis	Yes	Yes
NW	990430	SR 522	2.86	Thornton Cr	Lake Washington	8	King	Yes	Yes
NW	990432	SR 900	19.14	unnamed	Tibbetts Cr	8	King	No	Yes
NW	990433	SR 900	19.5	Tibbetts Cr	Lake Sammamish	8	King	Yes	Yes
OL	990448	US 101	246.4	Tumwater Cr	Port Angeles Harbor	18	Clallam	Yes	Yes
OL	990449	US 101	304.24	Turner Cr	Hood Canal	16	Jefferson	No	Yes
OL	990452	US 101	135.26	unnamed	Lunch Cr	21	Grays Harbor	Yes	Yes
OL	990453	US 101	135.95	unnamed	Lunch Cr	21	Grays Harbor	Yes	Yes
OL	990455	US 101	136.7	unnamed	Cedar Cr	21	Grays Harbor	Yes	No
OL	990456	US 101	137.82	unnamed	Crane Cr	21	Grays Harbor	Yes	No
OL	990457	US 101	142.68	Harlow Cr	Queets R	21	Grays Harbor	Yes	No
NW	990469	I-5	202.32	WF Quilceda Cr	Snohomish R	7	Snohomish	Yes	No
NW	990474	SR 410	25.17	Watercress Cr	Newaukum Cr	9	King	Yes	Yes
OL	990480	SR 112	49.48	Whiskey Cr	Strait of Juan de Fuca	19	Clallam	Yes	Yes
OL	990481	US 101	249.4	White Cr	Ennis Cr	18	Clallam	Yes	Yes
OL	990485	US 12	0.61	Wilson Cr	Chehalis R	22	Grays Harbor	Yes	No
OL	990543	US 101	132	unnamed	Ten O Clock Cr	21	Grays Harbor	Yes	Yes
OL	990546	US 101	135.68	Lunch Cr	Raft R	21	Grays Harbor	Yes	Yes
OL	990547	US 101	136.9	unnamed	Cedar Cr	21	Grays Harbor	Yes	No
OL	990548	US 101	142.48	unnamed	Harlow Cr	21	Grays Harbor	Yes	No
OL	990549	US 101	154.45	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	Jefferson	Yes	No
OL	990553	US 101	170.12	unnamed	Hoh R	20	Jefferson	Yes	No
OL	990554	US 101	209.32	Wisem Cr	Sol Duc R	20	Clallam	Yes	Yes
OL	990559	SR 112	6.95	unnamed	Strait of Juan de Fuca	19	Clallam	Yes	Yes
OL	990563	US 12	36.33	Roundtree Cr	Harris Cr	23	Grays Harbor	Yes	No
NW	990577	SR 542	24.49	unnamed	High Cr	1	Whatcom	Yes	Yes

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	990580	SR 542	29.02	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	990582	SR 542	14.07	unnamed	Nooksack R	1	Whatcom	Yes	No
NW	990584	SR 542	15.05	unnamed	Jim Cr	1	Whatcom	Yes	Yes
NW	990585	SR 542	15.08	unnamed	Jim Cr	1	Whatcom	Yes	Yes
NW	990588	SR 542	15.97	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990589	SR 542	17.85	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	990590	SR 542	26.25	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	990598	SR 542	31.57	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990600	SR 542	32.08	unnamed	Hedrick Cr	1	Whatcom	Yes	Yes
NW	990602	SR 542	34.49	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990604	SR 542	38.15	Deerhorn Cr	NF Nooksack R	1	Whatcom	No	Yes
NW	990622	I-5	211.5	Secret Cr	Pilchuck Cr	5	Snohomish	Yes	No
NW	990623	I-5; SB	211.7	Secret Cr	Pilchuck Cr	5	Snohomish	Yes	No
NW	990628	SR 530	26.29	unnamed	Schoolyard Cr	5	Snohomish	Yes	Yes
NW	990629	SR 530	25.74	unnamed	Schoolyard Cr	5	Snohomish	Yes	Yes
NW	990630	SR 530	27.46	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990632	SR 530	26.68	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990633	SR 530	26.87	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990634	SR 530	27.66	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990638	SR 530	30.67	unnamed	McGovern Cr	5	Snohomish	No	Yes
NW	990639	SR 530	34.3	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990640	SR 530	35.24	unnamed	Montague Cr	5	Snohomish	Yes	Yes
NW	990644	SR 530	31.01	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990645	SR 530	33.3	unnamed	NF Stillaguamish R	5	Snohomish	No	No
NW	990646	SR 530	34.7	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990647	SR 530	34.8	unnamed	NF Stillaguamish R	5	Snohomish	Yes	No
NW	990650	SR 530	38.6	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990652	SR 530	43.34	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990653	SR 104	30.67	unnamed	Lyon Cr	8	King	Yes	Yes



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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	990655	SR 522	6.63	Cat Whisker Cr	Lake Washington	8	King	Yes	Yes
OL	990686	SR 7	32.4	unnamed	Silver Lk	11	Pierce	Yes	Yes
OL	990708	SR 3	44.62	unnamed	Strawberry Cr	15	Kitsap	Yes	Yes
OL	990710	SR 104	16.55	Machias Cr	Hood Canal	15	Kitsap	Yes	Yes
OL	990712	US 101	271.57	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	990715	SR 112	35.28	unnamed	Strait of Juan de Fuca	19	Clallam	No	Yes
OL	990717	US 101	169.42	unnamed	Braden Cr	20	Jefferson	Yes	Yes
OL	990719	US 101	170.81	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	990732	US 101	93.79	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
SW	990736	SR 6	22.94	unnamed	Salmon Cr	23	Pacific	Yes	Yes
SW	990737	SR 6	23.49	unnamed	Rock Cr	23	Pacific	Yes	Yes
SW	990738	SR 6	25.24	unnamed	Rock Cr	23	Lewis	Yes	Yes
SW	990740	SR 6	26.36	unnamed	Rock Cr	23	Lewis	Yes	Yes
SW	990751	SR 6	33.56	unnamed	unnamed Chehalis R trib	23	Lewis	Yes	Yes
SW	990755	SR 6	34.85	unnamed	Chehalis R	23	Lewis	Yes	No
SW	990756	SR 6	35.08	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	990757	SR 6	35.42	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	990758	SR 6	35.85	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	990764	SR 6	42.38	unnamed	unnamed SF Chehalis R trib	23	Lewis	No	Yes
OL	990770	SR 8	6.15	unnamed	EF Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	990773	SR 8	9.1	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes	Yes
OL	990883	US 101	137.32	Crane Cr	Raft R	21	Grays Harbor	Yes	Yes
NW	990885	SR 530	66.5	unnamed	Skagit R	4	Skagit	Yes	No
OL	990899	US 101	307	Twana Cr	Hood Canal	16	Jefferson	Yes	Yes
OL	990905	SR 105	36.26	unnamed	South Bay	22	Grays Harbor	No	Yes
OL	990908	SR 106	10.83	unnamed	Hood Canal	14	Mason	Yes	No
OL	990916	SR 109	11.61	Campbell Sl	Grays Harbor	22	Grays Harbor	Yes	No
OL	990917	SR 109	11.66	Campbell Sl	Grays Harbor	22	Grays Harbor	Yes	No

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OL	990919	SR 109	17.81	unnamed	Connor Cr	21	Grays Harbor	Yes	No
OL	990920	SR 109	19.4	unnamed	Connor Cr	21	Grays Harbor	Yes	Yes
OL	990921	SR 109	2.71	unnamed	Grays Harbor	22	Grays Harbor	Yes	Yes
OL	990922	SR 109	35.73	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990924	SR 109	37.43	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990927	SR 109	39.15	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990932	SR 109	6.91	unnamed	Grass Cr	22	Grays Harbor	Yes	Yes
OL	990933	SR 109	7.1	unnamed	Pacific Ocean	22	Grays Harbor	No	Yes
OL	990938	SR 109	9.77	unnamed	Gillis Sl	22	Grays Harbor	Yes	Yes
OL	990941	SR 112	29.7	Butler Cr	Butler Cove	19	Clallam	Yes	Yes
OL	990952	US 12	34.4	unnamed	Chehalis R	23	Grays Harbor	Yes	No
OL	990957	US 12	6.58	unnamed	Higgins Sl	22	Grays Harbor	Yes	Yes
OL	990958	US 12	6.92	Higgins Sl	Chehalis R	22	Grays Harbor	Yes	Yes
OL	990970	SR 161	1.02	unnamed	Mashel R	11	Pierce	No	Yes
OL	990997	SR 303	4.4	Steele Cr	Grouch Cr	15	Kitsap	Yes	No
OL	991000	SR 308	2.16	unnamed	Puget Sound	15	Kitsap	Yes	Yes
NW	991008	I-405;NB	27.7	Royal Anne Cr	North Cr	8	Snohomish	No	No
NW	991031	I-5	145.93	Bingaman Cr	Bingaman Pond	9	King	Yes	No
OL	991040	I-5	86.2	unnamed	Prairie Cr	23	Thurston	Yes	No
OL	991052	SR 510	6.28	unnamed	McAllister Cr	11	Thurston	No	Yes
NW	991053	SR 524	8.06	unnamed	North Cr	8	Snohomish	No	Yes
NW	991054	SR 525	2.05	unnamed	Swamp Cr	8	Snohomish	Yes	Yes
NW	991057	SR 531	8.37	unnamed	Edgcomb Cr	7	Snohomish	No	No
OL	991063	SR 8	0.1	unnamed	Cloquallum Cr	22	Grays Harbor	Yes	Yes
OL	991066	SR 8	3.72	unnamed	Wildcat Cr	22	Grays Harbor	Yes	Yes
NW	991107	SR 542	16.28	unnamed	Nooksack R	1	Whatcom	No	Yes
NW	991111	SR 542	13.47	unnamed	Mitchell Cr	1	Whatcom	Yes	Yes
NW	991112	SR 542	19.6	unnamed	NF Nooksack R	1	Whatcom	Yes	No
NW	991113	SR 542	23.95	unnamed	High Cr	1	Whatcom	Yes	Yes

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NW	991114	SR 9	62.36	unnamed	Samish R	3	Skagit	Yes	No
NW	991116	SR 9	65.32	unnamed	Samish R	3	Skagit	Yes	No
NW	991123	SR 20	80.1	unnamed	Skagit R	3	Skagit	Yes	No
NW	991125	SR 20	94.68	unnamed	Skagit R	4	Skagit	No	Yes
NW	991126	SR 20	94.82	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991131	SR 20	112.9	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991135	SR 9	64.68	unnamed	Samish R	3	Skagit	No	Yes
NW	991136	SR 9	65.07	unnamed	Samish R	3	Skagit	No	Yes
NW	991146	SR 20	72.85	Childs Cr	Skagit R	3	Skagit	Yes	No
NW	991150	SR 20	87.2	Eagle Cr	Skagit R	4	Skagit	Yes	No
NW	991151	SR 20	87.31	Eagle Cr	Skagit R	4	Skagit	Yes	Yes
NW	991158	SR 9	38.83	unnamed	Pilchuck Cr	5	Skagit	Yes	No
NW	991161	SR 530	26.4	unnamed	unnamed Schoolyard Cr	5	Snohomish	No	Yes
NW	991164	SR 530	32.51	unnamed	tribh NF Stillaguamish R	5	Snohomish	No	Yes
NW	991166	SR 9	32.2	Bryant Cr	Armstrong Cr	5	Snohomish	Yes	Yes
NW	991176	SR 525	1.1	Box Springs Cr	Swamp Cr	8	Snohomish	Yes	Yes
NW	991181	SR 202	5.27	unnamed	Sammamish R	8	King	No	Yes
NW	991182	I-90	16.21	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	991185	SR 900	19.4	unnamed	Tibbetts Cr	8	King	No	Yes
NW	991192	SR 509	13.49	Cold Cr	Puget Sound	9	King	Yes	Yes
NW	991196	SR 99	13.54	McSorley Cr	Puget Sound	9	King	Yes	Yes
NW	991198	SR 167	21.17	Mill Cr	Springbrook Cr	9	King	Yes	Yes
NW	991200	SR 167	24.17	unnamed	Springbrook Cr	9	King	No	Yes
NW	991202	SR 167	25.94	Rolling Hills Cr	Springbrook Cr	9	King	Yes	Yes
NW	991204	SR 410	22.67	unnamed	Boise Cr	10	King	Yes	No
NW	991206	SR 410	22.94	unnamed	Boise Cr	10	King	Yes	No
NW	991208	SR 410	26.27	unnamed	Boise Cr	10	King	Yes	No
OL	991211	SR 167	10	Milwaukee Canal	White R	10	Pierce	Yes	No



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OL	991212	SR 167	8.05	Milwaukee Canal	White R	10	Pierce	Yes	No
NW	991213	SR 164	9.06	Second Cr	White R	10	King	Yes	Yes
OL	991214	SR 162	3.7	Alderton Cr	Puyallup R	10	Pierce	Yes	Yes
NW	991219	SR 410	39.18	unnamed	White R	10	King	No	Yes
SW	991221	SR 6	43.61	unnamed	Chehalis R	23	Lewis	Yes	Yes
NW	991224	SR 167	16.12	Mill Cr	Green R	9	King	Yes	No
OL	991229	SR 702	4.53	Murray Cr	Nisqually R	11	Pierce	Yes	Yes
OL	991239	SR 302	2.36	unnamed	North Bay	15	Mason	Yes	Yes
OL	991240	SR 3	58.21	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	991241	SR 3	50.85	SF Johnson Cr	Johnson Cr	15	Kitsap	Yes	Yes
OL	991242	SR 3	57.23	unnamed	Kinman Cr	15	Kitsap	Yes	Yes
OL	991245	SR 106	13.84	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	991250	US 101	335.93	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	991254	US 101	331.83	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	991258	SR 112	29.71	unnamed	Butler Cr	19	Clallam	Yes	Yes
OL	991259	SR 112	12.26	unnamed	Hoko R	19	Clallam	Yes	Yes
OL	991261	US 101	161.5	unnamed	Pacific Ocean	20	Jefferson	Yes	Yes
OL	991262	US 101	163.13	unnamed	Pacific Ocean	20	Jefferson	Yes	Yes
OL	991264	US 101	189.15	unnamed	Grader Cr	20	Clallam	Yes	Yes
OL	991265	SR 109	26.1	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991266	SR 109	33.4	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991268	US 101	153.96	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	991270	SR 109	36.43	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991271	SR 109	36.38	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991272	SR 109	33.1	Wain Cr	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991276	US 101	156.1	unnamed	Pacific Ocean	21	Jefferson	Yes	Yes
OL	991283	US 12	5.24	unnamed	Mox Chuck Sl	22	Grays Harbor	Yes	Yes
OL	991284	US 12	4.59	unnamed	Mox Chuck Sl	22	Grays Harbor	Yes	Yes
OL	991285	US 12	5.38	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes

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SW	991288	SR 508	11.55	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991289	SR 508	12.66	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991290	SR 508	15.1	unnamed	Kearney Cr	23	Lewis	Yes	Yes
SW	991291	SR 508	17.06	unnamed	Stowell Cr	23	Lewis	Yes	Yes
SW	991292	SR 508	5.53	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991293	SR 508	6.78	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
OL	991295	SR 105	31.11	unnamed	South Bay	22	Grays Harbor	Yes	Yes
SW	991296	SR 508	15.85	unnamed	Kearney Cr	23	Lewis	Yes	Yes
OL	991297	SR 105	44.56	unnamed	Grays Harbor	22	Grays Harbor	Yes	Yes
OL	991298	SR 105	40.5	unnamed	South Bay	22	Grays Harbor	Yes	Yes
OL	991302	SR 105	41.76	unnamed	Grays Harbor	22	Grays Harbor	No	Yes
NW	991445	SR 20	85.63	unnamed	unnamed Skagit R trib	4	Skagit	Yes	Yes
NW	991446	SR 9	66.51	unnamed	Samish R	3	Skagit	No	No
NW	991447	SR 9	66.85	unnamed	Samish R	3	Whatcom	Yes	Yes
NW	991451	SR 9	41.5	unnamed	Lake Cr	3	Skagit	No	Yes
NW	991452	SR 20	118.41	Babcock Cr	Skagit R	4	Whatcom	No	Yes
OL	991477	US 101	360.68	unnamed	Eld Inlet	14	Thurston	Yes	Yes
OL	991499	I-5	94.57	unnamed	Beaver Cr	23	Thurston	Yes	Yes
OL	991505	US 101	188.09	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	991507	US 101	182.2	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991508	US 101	182.84	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991509	US 101	183.05	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991510	US 101	183.87	unnamed	Bogachiel R	20	Jefferson	No	Yes
OL	991516	SR 16	20.36	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	991522	SR 302	2.1	unnamed	North Bay	15	Mason	Yes	Yes
OL	991523	SR 302	2.48	unnamed	North Bay	15	Mason	Yes	Yes
OL	991525	SR 302	4.2	Victor Cr	North Bay	15	Mason	Yes	Yes
OL	991526	SR 302	4.7	unnamed	Case Inlet	15	Mason	No	Yes
OL	991527	SR 302	5.5	unnamed	Rocky Bay	15	Pierce	Yes	Yes

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OL	991528	US 12	11.01	unnamed	Schofield Cr	22	Grays Harbor	Yes	Yes
OL	991533	US 12	23.3	unnamed	Cloquallum Cr	22	Grays Harbor	Yes	Yes
OL	991535	US 12	29.19	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991536	US 12	29.45	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991538	US 12	33.44	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991539	US 12	33.6	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991540	US 12	28.6	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991541	US 12	28.17	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
NW	991547	SR 20	70.24	unnamed	Coal Cr	3	Skagit	Yes	Yes
OL	991559	SR 302	0.9	unnamed	North Bay	15	Mason	Yes	Yes
OL	991567	SR 160	4.5	unnamed	Curley Cr	15	Kitsap	Yes	Yes
OL	991572	SR 307	1.45	unnamed	Dogfish Cr	15	Kitsap	Yes	Yes
OL	991574	US 101	181.46	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991575	US 101	181.2	Dowans Cr	Bogachiel R	20	Jefferson	Yes	Yes
OL	991579	SR 19	6.82	unnamed	EF Chimacum Cr	17	Jefferson	Yes	Yes
OL	991581	US 101	104.92	unnamed	Fairchild Cr	22	Grays Harbor	Yes	No
OL	991585	SR 3	34.27	unnamed	Gorst Cr	15	Kitsap	Yes	Yes
OL	991598	US 101	175.91	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	991603	US 101	314.1	unnamed	Hood Canal	16	Jefferson	Yes	Yes
OL	991606	US 101	315.19	Schaerer Cr	Hood Canal	16	Mason	Yes	Yes
OL	991612	SR 3	59.52	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	991613	SR 3	57.87	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	991614	US 101	322.83	unnamed	Hood Canal	16	Mason	Yes	Yes
NW	991623	SR 104	31.73	unnamed	Lyon Cr	8	King	Yes	Yes
OL	991633	US 12	5.62	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes
NW	991640	SR 542	27.2	unnamed	Nooksack R	1	Whatcom	Yes	Yes
OL	991642	SR 105	39.77	unnamed	O'Leary Cr	22	Grays Harbor	Yes	Yes
NW	991651	SR 509	9.6	unnamed	Puget Sound	10	King	No	Yes
OL	991653	US 101	126.24	unnamed	Quinault R	21	Grays Harbor	Yes	Yes



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SW	991654	SR 6	24.3	unnamed	Rock Cr	23	Pacific	No	Yes
OL	991659	I-5	98.11	unnamed	Salmon Cr	23	Thurston	Yes	No
OL	991661	SR 112	53.5	Falls Cr	Salt Cr	19	Clallam	Yes	Yes
OL	991662	SR 507	15.71	unnamed	unnamed Scatter Cr trib	23	Thurston	Yes	No
OL	991666	US 101	269.24	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	991667	US 101	268.54	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	991670	SR 16	28.6	Kabelac Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	991672	SR 108	7.62	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	991673	US 101	285.69	Andrews Cr	Snow Cr	17	Jefferson	Yes	No
NW	991681	SR 167	23.84	unnamed	Springbrook Cr	9	King	Yes	Yes
OL	991686	SR 112	56.5	unnamed	Coville Cr	19	Clallam	Yes	Yes
OL	991690	US 101	111.9	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
NW	991702	SR 900	18.59	unnamed	May Cr	8	King	Yes	Yes
NW	991704	SR 542	20.1	unnamed	NF Nooksack R	1	Whatcom	Unknown	No
NW	991705	SR 542	21.45	unnamed	Kendall Cr	1	Whatcom	Yes	Yes
NW	991707	SR 20	93.21	unnamed	Skagit R	4	Skagit	No	Yes
NW	991709	SR 20	93.7	unnamed	Skagit R	4	Skagit	No	Yes
NW	991710	SR 20	93.84	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991720	SR 203	4.37	unnamed	Snoqualmie R	7	King	Yes	Yes
NW	991721	SR 203	4.91	Indian Cr	Langlois Cr	7	King	Yes	No
NW	991725	I-5	224.62	Maddox Cr	SF Skagit R	3	Skagit	Yes	Yes
OL	991727	SR 107	5.49	unnamed	Chehalis R	22	Grays Harbor	No	Yes
OL	991728	SR 3	29.63	unnamed	Union R	15	Kitsap	Yes	Yes
OL	991731	SR 112	21.1	unnamed	Green Cr	19	Clallam	Yes	Yes
OL	991732	SR 112	29.12	Indian Cr	Strait of Juan De Fuca	19	Clallam	Yes	Yes
OL	991733	SR 113	0.9	unnamed	Beaver Cr	20	Clallam	Yes	Yes
OL	991735	US 101	271.22	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	991737	SR 112	27.53	unnamed	Pysht R	19	Clallam	Yes	No
OL	991738	SR 112	51.6	Uptha Cr	Salt Cr	19	Clallam	Yes	Yes

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OL	991744	SR 3	52.21	Johnson Cr	Liberty Bay	15	Kitsap	Yes	Yes
NW	991750	SR 531	2.61	Fish Cr	Portage Cr	5	Snohomish	Yes	Yes
SW	991756	SR 508	5.1	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
OL	991795	SR 3	23.94	unnamed	Devereaux Cr	14	Mason	Yes	Yes
OL	991797	SR 3	25.31	Sweetwater Cr	Hood Canal	15	Mason	Yes	Yes
OL	991802	SR 162	6.33	unnamed	Puyallup R	10	Pierce	No	Yes
NW	991803	SR 542	2.4	Toad Lk Cr	Squalicum Cr	1	Whatcom	Yes	Yes
NW	991805	SR 525	15.03	unnamed	Deer Lagoon	6	Island	Yes	Yes
NW	991813	SR 9	17.75	unnamed	Stevens Cr	7	Snohomish	Yes	Yes
NW	991814	SR 9	18.79	unnamed	Lake Stevens	7	Snohomish	No	Yes
NW	991825	US 2	36.73	unnamed	SF Skykomish R	7	Snohomish	No	Yes
NW	991827	SR 92	0.78	Lundeen Cr	Lake Stevens	7	Snohomish	Yes	Yes
NW	991830	SR 92	2.14	unnamed	Catherine Cr	7	Snohomish	No	Yes
NW	991831	SR 92	2.99	unnamed	Little Pilchuck Cr	7	Snohomish	Yes	Yes
OL	991835	SR 109	3.41	unnamed	Grays Harbor	22	Grays Harbor	Yes	Yes
OL	991836	SR 109	4.46	unnamed	Little Hoquiam R	22	Grays Harbor	Yes	Yes
NW	991839	SR 164	13.34	unnamed	Newaukum Cr	9	King	Yes	Yes
OL	991850	US 101	271.83	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	991851	SR 307	2.5	unnamed	Gamble Cr	15	Kitsap	Yes	Yes
OL	991855	SR 305	12.59	unnamed	SF Dogfish Cr	15	Kitsap	Yes	Yes
OL	991866	SR 16	19.54	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	991867	SR 16	20.44	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	991910	US 12	6.55	unnamed	Higgins Sl	22	Grays Harbor	Yes	No
OL	991911	US 12	7.26	unnamed	Higgins Sl	22	Grays Harbor	Yes	Yes
OL	991939	SR 16	14.63	unnamed	McCormick Cr	15	Pierce	Yes	Yes
OL	991940	SR 16	14.65	McCormick Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	991941	SR 16	14.86	McCormick Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	991942	SR 16	15.02	unnamed	McCormick Cr	15	Pierce	Yes	Yes
OL	991944	SR 16; EB off-ramp	0.19	McCormick Cr	Henderson Bay	15	Pierce	Yes	Yes

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OL	991958	SR 305	7.28	Klebeal Cr	Agate Passage	15	Kitsap	Yes	Yes
NW	991962	SR 525	5.67	unnamed	Big Gulch	8	Snohomish	No	No
NW	991973	SR 539; ROW	0.3	WF Springs Cr	Spring Cr	1	Whatcom	Yes	No
NW	991979	I-5	213.29	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
OL	991987	SR 3	21.29	unnamed	Case Inlet	14	Mason	No	Yes
OL	991991	SR 3	26.4	unnamed	Union R	15	Mason	Yes	Yes
OL	991994	SR 3	36.51	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	991995	SR 3	36.1	Wright Cr	Sinclair Inlet	15	Kitsap	Yes	No
OL	991997	SR 307	0.98	unnamed	unnamed Puget Sound trib	15	Kitsap	Yes	Yes
OL	991998	SR 307	0.98	unnamed	unnamed Puget Sound trib	15	Kitsap	Yes	Yes
OL	991999	SR 307	1.34	unnamed	Dogfish Cr	15	Kitsap	Yes	Yes
NW	992003	I-5; NB on-ramp	256	Spring Cr	Baker Cr	1	Whatcom	Yes	Yes
OL	992004	SR 8	7.27	unnamed	Sand Cr	22	Grays Harbor	Yes	No
OL	992005	SR 8	7.34	unnamed	Sand Cr	22	Grays Harbor	Yes	No
OL	992008	SR 308	1.33	Little Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	992009	SR 166	0.73	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
NW	992062	SR 161	34.71	unnamed	Hylebos Cr	10	King	Yes	Yes
NW	992064	SR 161	35.01	unnamed	EF Hylebos Cr	10	King	Yes	Yes
NW	992175	I-5	213.66	unnamed	Secret Cr	5	Snohomish	Yes	Yes
NW	992181	I-5	213.27	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	992182	I-5	213.27	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
OL	992199	SR 104	17.67	Ladine DeCouteau Cr	Port Gamble	15	Kitsap	Yes	Yes
OL	992200	SR 104	17.82	unnamed	Port Gamble	15	Kitsap	Yes	Yes
OL	992201	SR 104	19.12	unnamed	Port Gamble	15	Kitsap	Yes	Yes
OL	992202	SR 104	19.39	unnamed	Port Gamble	15	Kitsap	Yes	Yes
OL	992207	SR 104	22.95	Carpenter Cr	Appletree Cove	15	Kitsap	Yes	Yes



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OL	992208	SR 104	23.37	unnamed	Appletree Cove	15	Kitsap	No	Yes
SW	992277	SR 508	4.26	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
NW	992344	SR 9	76.95	unnamed	Black Sl	1	Whatcom	Yes	Yes
NW	992345	SR 9	77.12	unnamed	Black Sl	1	Whatcom	Yes	Yes
NW	992354	SR 9	77.93	unnamed	Tawes Cr	1	Whatcom	Yes	No
NW	992360	SR 164	5.89	Charlie Jones Cr	White R	10	King	Yes	Yes
NW	992364	I-5	143.6	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	992371	SR 522	17.48	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	992378	SR 522	19.28	Anderson Cr	Evans Cr	7	Snohomish	Yes	Yes
NW	992385	I-405	15.09	Yarrow Cr	Lake Washington	8	King	Yes	Yes
NW	992631	SR 522	17.87	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	992632	SR 522	17.82	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	992641	SR 92	0.22	unnamed	Stevens Cr	7	Snohomish	Yes	Yes
NW	992651	SR 518	3	unnamed	Gilliam Cr	9	King	No	Yes
NW	992654	I-405	20.92	unnamed	Juanita Cr	8	King	Yes	Yes
NW	992798	I-90	13.83	Lewis Cr	Lake Sammamish	8	King	Yes	Yes
NW	992846	SR 524	5.54	Golde Cr	Scriber Cr	8	Snohomish	Yes	Yes
NW	992987	SR 539	0.04	Baker Cr	Squalicum Cr	1	Whatcom	Yes	Yes
OL	993007	SR 105	31.79	unnamed	South Bay	22	Grays Harbor	No	Yes
OL	993010	SR 105	34.02	unnamed	unnamed South Bay trib	22	Grays Harbor	Yes	No
OL	993013	SR 3	46.09	unnamed	WF Clear Cr	15	Kitsap	Yes	Yes
NW	993083	SR 522	11.26	Par Cr	Sammamish R	8	King	Yes	Yes
NW	993084	SR 527	2.76	Queensborough Cr	North Cr	8	Snohomish	Yes	Yes
NW	993091	I-5	187.64	unnamed	Silver Lk	8	Snohomish	Yes	Yes
NW	993103	SR 524	3.89	Scriber Cr	Swamp Cr	8	Snohomish	Yes	Yes
NW	993106	I-405	25.35	unnamed	North Cr	8	Snohomish	No	Yes
NW	993109	I-405	26.9	unnamed	Queensborough Cr	8	Snohomish	Yes	Yes
NW	993124	I-5; ROW	187.89	unnamed	Silver Lk	8	Snohomish	Yes	Yes
OL	993659	SR 108	0.18	unnamed	EF Wildcat Cr	22	Grays Harbor	No	Yes

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OL	993670	US 101	80.4	unnamed	Chehalis R	22	Grays Harbor	Yes	Yes
OL	993674	US 101	89.48	unnamed	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993675	US 101	89.77	unnamed	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993679	US 101	90.73	unnamed	Hoquaim R	22	Grays Harbor	Yes	Yes
OL	993680	US 101	90.95	unnamed	Hoquiam R	22	Grays Harbor	Yes	No
OL	993681	US 101; ROW	89.48	unnamed	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993688	US 101	92.33	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	No
OL	993695	US 101	93.49	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993698	US 101	95.46	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993712	US 101	103.25	unnamed	Big Cr	22	Grays Harbor	Yes	No
OL	993717	US 101	110.84	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
OL	993722	SR 8	1.02	unnamed	Cloquallum Cr	22	Grays Harbor	No	No
OL	993723	SR 8	1.27	unnamed	Cloquallum Cr	22	Grays Harbor	Yes	Yes
OL	993724	SR 8	3.16	unnamed	Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	993725	SR 8	3.51	unnamed	Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	993727	SR 8	1.37	unnamed	unnamed Cloquallum Cr trib	22	Grays Harbor	No	Yes
OL	993728	SR 8	10.12	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes	Yes
OL	993729	SR 8	10.12	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes	Yes
NW	993849	SR 99	51.45	unnamed	Swamp Cr	8	Snohomish	Yes	Yes
OL	994085	SR 303; NB off-ramp	6.63	Hoot Cr	Barker Cr	15	Kitsap	Yes	Yes
OL	994086	SR 303; NB on-ramp	6.68	Hoot Cr	Barker Cr	15	Kitsap	Yes	Yes
NW	994117	SR 520	5.42	unnamed	Lake Washington	8	King	No	Yes
NW	994123	SR 524	14.52	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	994124	SR 524	14.4	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
SW	994300	I-5	78.11	unnamed	Dillenaugh Cr	23	Lewis	Yes	Yes
OL	994320	SR 305	0.49	Ravine Cr	Eagle Harbor	15	Kitsap	Yes	Yes
OL	994324	SR 305	0.62	Ravine Cr	Eagle Harbor	15	Kitsap	Yes	Yes
OL	994326	SR 305	3.73	Manzanita Cr	Manzanita Bay	15	Kitsap	Yes	Yes

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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	994327	SR 305	8.92	Sam Snyder Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	994328	SR 305	10.55	unnamed	Liberty Bay	15	Kitsap	Yes	No
NW	994406	I-405	3.06	Thunder Hills Cr	Rolling Hills Cr	9	King	Yes	Yes
NW	994409	SR 515	7.08	Thunder Hills Cr	Rolling Hills Cr	9	King	Yes	Yes
NW	994410	I-90	23.13	Soderman Cr	Raging R	7	King	Yes	Yes
NW	994412	I-90	10.21	Richards Cr	Lake Washington	8	King	No	Yes
NW	994415	I-90	14.83	W Village Park Cr	Lake Sammamish	8	King	Yes	No
NW	994430	SR 522	14.25	Howell Cr	Little Bear Cr	8	Snohomish	Yes	Yes
NW	994432	SR 522	14.38	unnamed	Howell Cr	8	Snohomish	No	Yes
NW	994440	SR 522	16.57	Daniels Cr	Cottage Lake Cr	8	Snohomish	Yes	Yes
SW	994463	SR 508	17.55	Stowell Cr	Kearney Cr	23	Lewis	Yes	Yes
OL	994464	US 101	269.49	unnamed	Sequim Bay	17	Clallam	Yes	No
OL	994478	US 101; ROW	271.22	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	994484	US 101	303.01	Marple Cr	Jackson Cove	17	Jefferson	Yes	Yes
NW	994501	I-5; SB	244.2	Barnes Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	994562	I-5	174.71	Thornton Cr	Lake Washington	8	King	Yes	Yes
OL	994788	US 12	3.76	Elliott Sl	Chehalis R	22	Grays Harbor	Yes	Yes
OL	994798	US 12	20.34	McDonald Cr	Vance Cr	22	Grays Harbor	Yes	No
OL	994799	US 12	26.87	unnamed	Chehalis R	22	Grays Harbor	Yes	Yes
NW	994859	SR 18	23.66	unnamed	Deep Cr	7	King	Yes	No
NW	994947	SR 20	114.71	unnamed	Skagit R	4	Skagit	No	Yes
SW	994954	SR 508	0.53	Allen Cr	Newaukum R	23	Lewis	Yes	Yes
SW	994955	SR 508	0.64	unnamed	Allen Cr	23	Lewis	Yes	Yes
SW	994958	SR 508	1.7	unnamed	unnamed Allen Cr trib	23	Lewis	Yes	Yes
SW	994959	SR 508	1.85	unnamed	unnamed Allen Cr trib	23	Lewis	Yes	Yes
SW	994966	SR 508	4.7	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	994969	SR 508	8.88	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	994971	SR 508	11.27	unnamed	SF Newaukum R	23	Lewis	Yes	Yes



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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
SW	994976	SR 508	15.42	unnamed	unnamed Kearney Cr trib	23	Lewis	Yes	Yes
SW	994979	SR 508	16.5	Unnamed	Stowell Cr	23	Lewis	Yes	Yes
SW	994981	SR 508	16.99	unnamed	Stowell Cr	23	Lewis	Yes	Yes
NW	994984	I-90	24.86	unnamed	Lake Cr	7	King	Yes	Yes
NW	995000	US 2	45.47	unnamed	SF Skykomish R	7	King	Yes	Yes
NW	995002	US 2	48.78	unnamed	SF Skykomish R	7	King	No	Yes
NW	995020	US 2	48.94	unnamed	SF Skykomish R	7	King	Yes	Yes
NW	995021	US 2	49.87	unnamed	SF Skykomish R	7	King	Yes	Yes
NW	995023	US 2	52.7	unnamed	Tye R	7	King	Yes	Yes
NW	995049	US 2	4.67	Cemetery Cr	Snohomish R	7	Snohomish	No	No
NW	995062	US 2	52.39	unnamed	Tye R	7	King	No	Yes
NW	995084	SR 9	22.72	unnamed	Quilceda Cr	7	Snohomish	Yes	Yes
NW	995085	SR 9	22.58	Quilceda Cr	Ebey Sl	7	Snohomish	Yes	No
NW	995086	SR 9	16.66	Hulbert Cr	Ebey Sl	7	Snohomish	Yes	Yes
NW	995087	SR 9	12.57	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes	Yes
NW	995097	SR 20	105.34	Backus Cr	Skagit R	4	Skagit	No	Yes
NW	995102	US 2	6.57	unnamed	Pilchuck R	7	Snohomish	Yes	No
NW	995108	US 2	12.94	unnamed	French Cr	7	Snohomish	Yes	Yes
NW	995126	SR 526	0.77	Japanese Gulch Cr	Possession Sound	7	Snohomish	Yes	No
NW	995136	SR 529	3.46	unnamed	Port Gardner Bay	7	Snohomish	Yes	No
NW	995137	SR 204	0.21	unnamed	Ebey Sl	7	Snohomish	Yes	Yes
NW	995138	SR 204	0.54	unnamed	Ebey Sl	7	Snohomish	Yes	Yes
NW	995150	SR 204	1.19	Burri Cr	Ebey Sl	7	Snohomish	Yes	Yes
NW	995152	SR 204	1.8	Weiser Cr	Ebey Sl	7	Snohomish	Yes	Yes
NW	995184	SR 203	18.19	unnamed	Snoqualmie R	7	Snohomish	No	Yes
NW	995186	SR 203	18.48	unnamed	Snoqualmie R	7	Snohomish	No	Yes
NW	995188	SR 203	19.52	Peoples Cr	Snoqualmie R	7	Snohomish	Unknown	No
NW	995190	SR 203	19.73	unnamed	Snoqualmie R	7	Snohomish	Yes	No

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NW	995194	SR 202	16.79	unnamed	Patterson Cr	7	King	Yes	Yes
NW	995200	SR 202	23.22	unnamed	Skunk Cr	7	King	Yes	Yes
NW	995208	SR 531	9.68	unnamed	Prairie Cr	7	Snohomish	Yes	No
NW	995214	SR 96	5.86	unnamed	Marshland Canal	7	Snohomish	Yes	Yes
NW	995215	SR 96	5.98	unnamed	unnamed Snohomish R trib	7	Snohomish	Yes	Yes
NW	995216	SR 96	6.09	unnamed	Marshland Canal	7	Snohomish	Yes	Yes
NW	995217	SR 96	6.49	unnamed	Marshland Canal	7	Snohomish	Yes	Yes
NW	995221	I-5	218.01	unnamed	unnamed Milltown Cr trib	3	Skagit	No	Yes
NW	995227	I-5; NB	234.65	unnamed	Samish R	3	Skagit	No	Yes
NW	995228	I-5	235.65	unnamed	Samish R	3	Skagit	No	Yes
NW	995232	I-5; NB	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995233	I-5; Median	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995234	I-5; SB	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995235	I-5; SB ROW	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995236	I-5; SB Ext 240	240.92	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995238	I-5; SB	241.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995240	I-5; SB Ext 240	240.99	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995241	I-5; NB Ext 240	241.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995242	I-5	218.44	unnamed	Milltown Cr	3	Skagit	Yes	Yes
NW	995245	I-5; NB off-ramp	240.92	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995246	I-5; NB Ext 240	241.1	unnamed	unnamed Friday Cr trib	3	Skagit	Yes	Yes
NW	995247	I-5; NB on-ramp	246	unnamed	unnamed Friday Cr trib	3	Whatcom	Yes	Yes
NW	995248	I-5; NB off-ramp	246	unnamed	unnamed Friday Cr trib	3	Whatcom	Yes	Yes
NW	995249	I-5	242.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995250	I-5; NB	243.96	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	995255	I-5; SB Ext 246	246.22	unnamed	Lake Cr	3	Whatcom	Yes	Yes
NW	995256	I-5; SB Ext 246	246.12	unnamed	Lake Cr	3	Whatcom	Yes	Yes
NW	995259	I-5; SB off-ramp	241.1	unnamed	unnamed Friday Cr trib	3	Skagit	Yes	Yes

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NW	995262	I-5	189.9	unnamed	Wood Cr	7	Snohomish	No	Yes
NW	995275	SR 9	39.51	unnamed	Lake McMurray	3	Skagit	No	Yes
NW	995292	I-5	141.54	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995293	I-5; SB off-ramp	142.1	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995295	I-5; NB ROW	141.17	unnamed	unnamed Hylebos Cr trib	10	King	Yes	Yes
NW	995297	I-5; SB on-ramp	141.84	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995298	SR 18; SW cloverleaf	2.67	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995299	I-5; NB off-ramp	143.75	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995300	I-5; NB on-ramp	143.9	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995326	SR 96	5.29	Thomas Cr	Marshall Sl	7	Snohomish	Yes	Yes
NW	995390	SR 9	64.93	unnamed	Samish R	3	Skagit	No	Yes
NW	995392	SR 9	67.46	unnamed	Samish R	3	Whatcom	No	Yes
NW	995395	SR 9	69.1	unnamed	Samish R	3	Whatcom	No	Yes
NW	995396	SR 9	69.15	unnamed	Samish R	3	Whatcom	No	Yes
NW	995398	SR 9	69.96	unnamed	Samish R	3	Whatcom	Yes	Yes
NW	995402	SR 530	36.67	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	995409	SR 542	28.87	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	995411	I-5	246.75	Chuckanut Cr	Puget Sound	1	Whatcom	Yes	Yes
NW	995422	SR 20	46.54	unnamed	Lake Campbell	3	Skagit	Yes	No
NW	995423	SR 20	48.08	unnamed	Fidalgo Bay	3	Skagit	Yes	No
NW	995424	SR 20	48.12	unnamed	Fidalgo Bay	3	Skagit	Yes	No
NW	995425	SR 20	48.17	unnamed	Fidalgo Bay	3	Skagit	Yes	No
NW	995430	SR 20; SPUJ	50.48	unnamed	Fidalgo Bay	3	Skagit	Yes	Yes
NW	995436	SR 20	78.01	unnamed	Careys Lk	3	Skagit	No	Yes
NW	995469	SR 167	22.63	unnamed	Springbrook Cr	9	King	Unknown	Yes
NW	995470	I-405	2.31	Rolling Hills Cr	Springbrook Cr	9	King	Yes	Yes
NW	995474	SR 18	21.03	unnamed	Holder Cr	8	King	Yes	Yes
OL	995475	SR 161	14.89	unnamed	unnamed South Cr trib	11	Pierce	Yes	Yes



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OL	995484	US 101	275.72	unnamed	Eagle Cr	17	Jefferson	Yes	Yes
OL	995488	US 101	278.66	unnamed	Discovery Bay	17	Jefferson	No	Yes
OL	995490	US 101	281.61	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	995491	US 101	281.72	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	995496	US 101	284.87	unnamed	Snow Cr	17	Jefferson	Yes	No
OL	995497	US 101	283.57	unnamed	Snow Cr	17	Jefferson	Yes	Yes
OL	995499	US 101	289.36	unnamed	Leland Cr	17	Jefferson	Yes	Yes
OL	995500	US 101	289.91	unnamed	Leland Cr	17	Jefferson	No	Yes
OL	995521	SR 116	1.64	unnamed	Port Townsend Bay	17	Jefferson	Yes	Yes
OL	995544	US 101	255.65	unnamed	Siebert Cr	18	Clallam	No	Yes
OL	995551	US 101	263.68	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Clallam	Yes	No
NW	995699	I-5	251.36	unnamed	Connelly Cr	1	Whatcom	Yes	Yes
NW	995701	I-5	258.56	unnamed	unnamed Silver Cr trib	1	Whatcom	Unknown	No
NW	995703	I-5	259.08	unnamed	unnamed Silver Cr trib	1	Whatcom	Unknown	Yes
NW	995704	I-5	260.58	Silver Cr	Nooksack R	1	Whatcom	Yes	No
NW	995709	I-5	260.98	unnamed	Tennant Cr	1	Whatcom	Yes	Yes
NW	995720	I-5;NB	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No
NW	995723	I-5	260.39	unnamed	Silver Cr	1	Whatcom	Yes	No
NW	995726	I-5	275.33	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	995731	I-5; SB Ext 270	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	Yes
OL	995743	SR 20	0.65	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	995748	SR 20	1.39	unnamed	Discovery Bay	17	Jefferson	No	Yes
OL	995753	SR 20	3.67	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	995760	SR 104; EB off-ramp	0.18	unnamed	unnamed Snow Cr trib	17	Jefferson	Yes	No
NW	995770	SR 542	24.25	unnamed	High Cr	1	Whatcom	Yes	Yes
NW	995774	SR 547	6.71	unnamed	Saar Cr	1	Whatcom	Yes	Yes
NW	995776	SR 542	16.21	unnamed	unnamed Nooksack R trib	1	Whatcom	No	Yes

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NW	995777	SR 542	17.37	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	995780	SR 9	70.81	unnamed	SF Nooksack R	1	Whatcom	No	Yes
NW	995783	SR 9	71.54	unnamed	SF Nooksack R	1	Whatcom	No	Yes
NW	995785	SR 9	87.4	unnamed	Sumas R	1	Whatcom	Yes	No
NW	995790	SR 11	8.66	unnamed	Samish Bay	1	Skagit	Yes	Yes
NW	995796	SR 11	18.47	unnamed	Chuckanut Cr	1	Whatcom	Yes	Yes
OL	995805	SR 117	1.2	Tumwater Cr	Port Angeles Harbor	18	Clallam	Yes	No
OL	995813	US 101	235.07	unnamed	Indian Cr	18	Clallam	Yes	No
OL	995815	US 101	235.81	unnamed	Indian Cr	18	Clallam	No	Yes
OL	995816	US 101	236.28	unnamed	Indian Cr	18	Clallam	Yes	Yes
OL	995817	US 101	236.35	unnamed	Indian Cr	18	Clallam	Yes	Yes
OL	995818	US 101	237.98	unnamed	Indian Cr	18	Clallam	Yes	Yes
OL	995823	US 101	239.31	unnamed	Indian Cr	18	Clallam	Yes	No
NW	995857	I-405; NB on-ramp	0.42	Gilliam Cr	Green R	9	King	Yes	Yes
OL	995893	SR 507	30.61	McKenna Cr	Nisqually R	11	Thurston	Yes	Yes
OL	995899	SR 702	5.6	unnamed	Horn Cr	11	Pierce	No	Yes
OL	995913	SR 119	5.66	unnamed	Lake Cushman	16	Mason	No	No
OL	995915	SR 119	7.02	unnamed	Lake Cushman	16	Mason	Yes	Yes
OL	995916	SR 119	7.8	unnamed	Lake Cushman	16	Mason	Yes	Yes
OL	995917	SR 119	8.2	unnamed	Big Cr	16	Mason	Yes	Yes
OL	995918	SR 119	8.35	unnamed	Big Cr	16	Mason	No	Yes
OL	995931	US 101	305.59	unnamed	Hood Canal	16	Jefferson	Yes	Yes
OL	995935	US 101	310.27	unnamed	Hood Canal	16	Jefferson	No	No
OL	995936	US 101	310.4	unnamed	Hood Canal	16	Jefferson	Yes	Yes
NW	995970	SR 18	22.55	unnamed	unnamed Holder Cr trib	8	King	No	No
NW	995971	SR 18	22.75	unnamed	Holder Cr	8	King	Yes	Yes
NW	995972	SR 18	22.95	unnamed	Holder Cr	8	King	Yes	Yes
NW	995973	SR 18	23.45	unnamed	Holder Cr	8	King	Yes	Yes
NW	995974	SR 18	23.56	unnamed	unnamed Holder Cr trib	8	King	Yes	Yes

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NW	995982	SR 9	10.61	Cemetery Cr	Snohomish R	7	Snohomish	Yes	Yes
NW	995984	SR 525	9.7	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995986	SR 525	9.54	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995992	SR 525	11.99	Maxwelton Cr	Useless Bay	6	Island	Yes	Yes
NW	995994	SR 525	9.14	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	996006	SR 548	0.87	unnamed	California Cr	1	Whatcom	Yes	Yes
NW	996007	SR 548	1.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	Yes
NW	996008	SR 548	1.24	unnamed	California Cr	1	Whatcom	Yes	Yes
NW	996030	I-5; NB off-ramp to I-405	154.39	Gilliam Cr	Green R	9	King	Yes	Yes
NW	996032	I-405	7.62	unnamed	Lake Washington	8	King	Yes	Yes
NW	996071	I-5	214.73	WF Church Cr	Church Cr	5	Snohomish	Yes	Yes
NW	996073	I-5	214.74	WF Church Cr	Church Cr	5	Snohomish	Yes	Yes
NW	996074	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996076	I-5	210.01	unnamed	Stillaguamish R	5	Snohomish	Yes	Yes
NW	996077	I-5	214.38	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996079	SR 9	27.94	unnamed	unnamed to Portage Cr	5	Snohomish	Yes	Yes
NW	996080	SR 9	33.2	Roth Cr	Bryant Lk	5	Snohomish	Yes	Yes
NW	996082	SR 9	34.23	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	996088	SR 9	38.14	unnamed	unnamed Pilchuck Cr trib	5	Skagit	No	Yes
NW	996089	SR 9	38.27	unnamed	unnamed Pilchuck Cr trib	5	Skagit	No	Yes
NW	996092	SR 530	25.88	unnamed	Schoolyard Cr	5	Snohomish	No	Yes
NW	996100	SR 530	35.06	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
OL	996115	SR 106	2.07	unnamed	unnamed Skokomish R trib	16	Mason	Yes	Yes
OL	996127	SR 106	3.39	unnamed	Hood Canal	16	Mason	No	No
OL	996135	US 101	325.68	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996138	US 101	327.76	Little Lilliwaup Cr	Hood Canal	16	Mason	Yes	Yes



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NW	996142	SR 548	4.27	unnamed	Fingalson Cr	1	Whatcom	No	Yes
NW	996148	SR 548	6.76	unnamed	Terrell Cr	1	Whatcom	Yes	Yes
NW	996153	SR 548	10.55	unnamed	California Cr	1	Whatcom	Yes	Yes
NW	996156	SR 548	13.8	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	996163	SR 546	1.47	unnamed	Fishtrap Cr	1	Whatcom	Yes	Yes
NW	996164	SR 546	2.01	unnamed	Fishtrap Cr	1	Whatcom	Yes	Yes
NW	996167	SR 546	6.02	unnamed	Páatstel Cr	1	Whatcom	Yes	Yes
NW	996203	SR 525	7.56	unnamed	Possession Bay	8	Snohomish	No	Yes
NW	996205	SR 524; SPUR	0.21	Shelleberger Cr	Puget Sound	8	Snohomish	Yes	Yes
NW	996208	SR 104	29.23	unnamed	Lake Ballinger	8	Snohomish	No	Yes
NW	996216	SR 99	49.01	unnamed	Scriber Cr	8	Snohomish	Yes	Yes
OL	996220	US 101	160.42	unnamed	Pacific Ocean	20	Jefferson	No	Yes
OL	996223	US 101	160.89	unnamed	Pacific Ocean	20	Jefferson	Yes	Yes
OL	996224	US 101	164.57	unnamed	Pacific Ocean	20	Jefferson	No	Yes
OL	996225	US 101	165.11	unnamed	Cedar Cr	20	Jefferson	No	Yes
OL	996228	US 101	169.19	unnamed	Braden Cr	20	Jefferson	Yes	No
NW	996251	I-90	10.52	Sunset Cr	Richards Cr	8	King	Yes	Yes
NW	996266	SR 509	9.18	unnamed	Puget Sound	10	King	Yes	Yes
NW	996270	SR 509	10.96	Lakota Cr	Puget Sound	10	King	Yes	Yes
NW	996272	SR 509	11.43	unnamed	Lakota Cr	10	King	Yes	Yes
OL	996274	SR 7	58.34	unnamed	Commencement Bay	10	Pierce	Yes	No
NW	996277	SR 18	0.29	unnamed	EF Hylebos Cr	10	King	Yes	Yes
NW	996279	SR 164	7.01	unnamed	White R	10	King	No	Yes
NW	996281	SR 164	10.65	unnamed	unnamed White R trib	10	King	No	Yes
OL	996288	SR 167	10.46	unnamed	Milwaukee Canal	10	Pierce	Yes	Yes
NW	996290	SR 167	11.37	unnamed	Milwaukee Canal	10	King	Yes	Yes
OL	996291	SR 162	13.64	unnamed	Prairie Cr	10	Pierce	Yes	Yes
NW	996319	SR 20	46.01	unnamed	Campbell Lk	3	Skagit	Yes	Yes
OL	996343	SR 162	19.7	Spiketon Cr	S Prairie Cr	10	Pierce	Yes	Yes

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with ≥ 200 meters habitat gain; 187 barrier culverts with <200 meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	996358	US 101	331.18	unnamed	Hood Canal	16	Mason	No	Yes
OL	996366	US 101	334.4	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996371	US 101	338.37	unnamed	Skobob Cr	16	Mason	Yes	Yes
OL	996383	SR 106	4.11	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996424	SR 112	31.46	unnamed	Jim Cr	19	Clallam	Yes	Yes
OL	996426	SR 112	32.85	unnamed	Joe Cr	19	Clallam	No	Yes
OL	996427	SR 112	33.02	unnamed	Joe Cr	19	Clallam	No	Yes
OL	996430	SR 112	34.12	unnamed	Deep Cr	19	Clallam	Yes	Yes
OL	996431	SR 112	34.2	unnamed	Deep Cr	19	Clallam	Yes	Yes
OL	996432	SR 112	34.28	unnamed	Deep Cr	19	Clallam	Yes	Yes
NW	996454	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996460	SR 524	14.28	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	996472	I-90	15.92	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996476	I-90, WB Off-Ramp	16.03	unnamed	Tibbetts Cr	8	King	Yes	No
NW	996477	I-90, WB onramp	15.82	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996478	I-90	12.75	unnamed	Lake Sammamish	8	King	Yes	Yes
NW	996482	I-405	5.09	Johns Cr	Lake Washington	8	King	Yes	No
NW	996493	SR 169	18.06	unnamed	Cedar R	8	King	No	Yes
NW	996500	SR 169	19.82	unnamed	Cedar R	8	King	No	No
OL	996508	SR 3	38.41	Ostrich Cr	Ostrich Bay	15	Kitsap	Yes	Yes
NW	996514	SR 169, ROW	18.06	unnamed	Cedar R	8	King	No	Yes
OL	996523	SR 112	42.52	unnamed	Murdock Cr	19	Clallam	Yes	No
OL	996528	SR 112	44.34	unnamed	Murdock Cr	19	Clallam	Yes	Yes
OL	996529	SR 112	45.66	unnamed	Murdock Cr	19	Clallam	No	Yes
OL	996536	SR 112	49.62	EF Whiskey Cr	Whiskey Cr	19	Clallam	Yes	Yes
OL	996539	SR 112	51.53	Itsa Cr	Uptha Cr	19	Clallam	Yes	No
OL	996541	SR 112	57.05	unnamed	Coville Cr	19	Clallam	No	Yes
OL	996552	SR 112	23.07	unnamed	Green Cr	19	Clallam	No	Yes
OL	996554	SR 112	24.26	unnamed	Pysht R	19	Clallam	Yes	Yes

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with ≥ 200 meters habitat gain; 187 barrier culverts with <200 meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	996555	SR 112	24.77	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996556	SR 112	25.2	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996571	SR 113	8.35	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996573	SR 113	9.7	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996574	SR 113	9.81	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996578	SR 112; Maint Yard	22.99	unnamed	Green Cr	19	Clallam	No	Yes
OL	996619	SR 410	21.73	unnamed	Lake Tapps Canal	10	Pierce	Yes	Yes
OL	996684	SR 112	17.14	Swamp Cr	Clallam R	19	Clallam	Yes	Yes
OL	996686	SR 112	17.55	unnamed	Clallam R	19	Clallam	Yes	No
OL	996687	SR 112	17.65	unnamed	Clallam R	19	Clallam	No	Yes
OL	996691	SR 112	19.36	unnamed	Clallam R	19	Clallam	No	Yes
OL	996694	SR 112	21.64	unnamed	unnamed Green Cr trib	19	Clallam	No	Yes
OL	996696	SR 112	22.88	unnamed	Green Cr	19	Clallam	No	No
OL	996699	SR 300	2.36	unnamed	Union R	15	Mason	Yes	Yes
OL	996700	SR 300	2.38	unnamed	Union R	15	Mason	No	Yes
OL	996710	US 12	31.19	unnamed	Chehalis R	23	Grays Harbor	No	Yes
OL	996712	US 12	31.61	unnamed	Cedar Cr	23	Grays Harbor	Yes	Yes
OL	996714	US 12	32.69	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	996729	SR 104	22.23	unnamed	Grovers Cr	15	Kitsap	Yes	Yes
OL	996734	SR 3	25.15	unnamed	Hood Canal	15	Mason	Yes	Yes
OL	996738	SR 16	28.82	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
OL	996742	SR 3	41.52	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996745	SR 3	41.81	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996747	SR 3	42.21	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996748	SR 3	42.56	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996752	SR 16	21.58	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	996754	SR 16; EB off-ramp	26.61	Ross Cr	Sinclair Inlet	15	Kitsap	No	No
OL	996755	SR 16; WB on-ramp	25.24	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996756	SR 16; EB off-ramp	25.3	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes



**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	996760	SR 16	19.28	unnamed	Burley Cr	15	Kitsap	No	Yes
OL	996763	SR 302	1.25	unnamed	Coulter Cr	15	Mason	No	Yes
OL	996765	SR 302	1.86	unnamed	North Bay	15	Mason	Yes	Yes
OL	996783	SR 302	15.95	unnamed	Henderson Bay	15	Pierce	Yes	Yes
OL	996796	SR 3	39.45	unnamed	Dyes Inlet	15	Kitsap	No	Yes
OL	996798	SR 3; SB on-ramp	39.13	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996801	SR 3	46.82	unnamed	Clear Cr	15	Kitsap	Yes	Yes
OL	996803	SR 3	47.72	unnamed	Clear Cr	15	Kitsap	Yes	Yes
OL	996804	SR 3	49.48	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	996808	SR 3	55.01	unnamed	Hood Canal	15	Kitsap	Yes	No
OL	996811	SR 3	59.55	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	996856	SR 3	43.58	Koch Cr	Dyes Inlet	15	Kitsap	No	Yes
NW	996880	SR 522; ROW	12.86	unnamed	Little Bear Cr	8	King	Yes	Yes
NW	996915	SR 523	1.24	Littles Cr	Thornton Cr	8	King	Yes	Yes
NW	996916	SR 522	12.86	unnamed	Little Bear Cr	8	King	Yes	Yes
NW	996917	SR 202	0.97	unnamed	Sammamish R	8	King	No	Yes
NW	996921	SR 202	4.17	unnamed	High School Cr	8	King	Yes	Yes
NW	996925	SR 202	4.25	High School Cr	Sammamish R	8	King	Yes	Yes
OL	996931	SR 308	0.3	Clear Cr	Puget Sound	15	Kitsap	Yes	Yes
OL	996932	SR 308	2.57	unnamed	Liberty Bay	15	Kitsap	Yes	Yes
OL	996933	SR 308	2.41	unnamed	Liberty Bay	15	Kitsap	No	Yes
OL	996954	SR 160	5.13	unnamed	Sinclair Inlet	15	Kitsap	No	Yes
OL	996955	SR 160	6.06	unnamed	Puget Sound	15	Kitsap	No	Yes
OL	996956	SR 166	2.12	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996957	SR 166	2.27	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
NW	996965	I-90	20.42	unnamed	EF Issaquah Cr	8	King	Yes	Yes
NW	996966	I-90; EB on-ramp	15.92	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996967	I-90; WB on-ramp	15.89	unnamed	Tibbetts Cr	8	King	Yes	Yes
OL	997051	US 101	169.89	unnamed	unnamed Braden Cr trib	20	Jefferson	No	No

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with ≥ 200 meters habitat gain; 187 barrier culverts with <200 meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	997052	US 101	169.94	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997053	US 101	170.87	unnamed	unnamed Hoh R trib	20	Jefferson	Yes	No
OL	997054	US 101	171.29	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997059	US 101	174.79	unnamed	Old Joe Sl	20	Jefferson	No	Yes
OL	997070	US 101	177.77	unnamed	Hoh R	20	Jefferson	No	Yes
OL	997081	US 101	183.11	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	997087	US 101	184.87	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	997091	US 101	187.18	unnamed	Bogachiel R	20	Clallam	No	Yes
OL	997093	US 101	188.19	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	997095	US 101	188.42	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	997096	US 101	188.64	unnamed	Bogachiel R	20	Clallam	No	Yes
OL	997097	US 101	191.12	Uncle John's Cr	Mill Cr	20	Clallam	Yes	Yes
OL	997098	US 101	190.05	unnamed	Mill Cr	20	Clallam	Yes	Yes
OL	997107	US 101	202.71	unnamed	Sol Duc R	20	Clallam	Yes	Yes
OL	997108	US 101	210.22	unnamed	Sol Duc R	20	Clallam	No	Yes
OL	997109	US 101	210.78	unnamed	Sol Duc R	20	Clallam	Yes	Yes
OL	997157	US 101	356.48	unnamed	Schneider Cr	14	Mason	Yes	Yes
OL	997158	US 101	354.01	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	997159	US 101	354.22	unnamed	Skookum Cr	14	Mason	No	Yes
OL	997161	US 101	357.4	Griggs Cr	Schneider Cr	14	Thurston	Yes	Yes
OL	997163	SR 106	5.45	unnamed	Hood Canal	14	Mason	No	Yes
OL	997176	SR 106	9.7	unnamed	Hood Canal	14	Mason	No	Yes
OL	997182	SR 106	11.57	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	997184	SR 106	14.61	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	997210	SR 108	5.2	unnamed	unnamed Skookum Cr trib	14	Mason	Yes	Yes
OL	997224	SR 108	9.35	unnamed	Kamilche Cr	14	Mason	Yes	Yes
OL	997225	SR 108	9.47	Kamilche Cr	Skookum Cr	14	Mason	Yes	Yes
OL	997231	SR 3	2.11	unnamed	Goldsburrough Cr	14	Mason	No	Yes

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

797 barrier culverts with  $\geq 200$  meters habitat gain; 187 barrier culverts with  $<200$  meters habitat gain. 984 sites are on the current injunction list - 768 are original injunction barriers, and 216 are newly identified barriers.

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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	997235	SR 3	4.67	unnamed	Oakland Bay	14	Mason	Yes	Yes
OL	997309	US 101	122.92	unnamed	McCalla Cr	21	Grays Harbor	Yes	Yes
OL	997311	SR 109	21.12	unnamed	Copalis R	21	Grays Harbor	No	Yes
OL	997338	US 101	140.08	unnamed	NF Raft R	21	Grays Harbor	Yes	No
OL	997342	US 101	152.47	unnamed	Queets R	21	Jefferson	Yes	Yes
OL	997345	US 101	154.27	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	997360	SR 109	24.23	unnamed	unnamed Boone Cr trib	21	Grays Harbor	No	Yes
OL	997363	SR 109	24.56	unnamed	Boone Cr	21	Grays Harbor	Yes	Yes
OL	997365	SR 3	7.16	unnamed	Oakland Bay	14	Mason	Yes	Yes
OL	997368	SR 3	7.59	unnamed	Oakland Bay	14	Mason	Yes	Yes
OL	997369	SR 3	7.96	unnamed	Oakland Bay	14	Mason	No	Yes
OL	997371	SR 3	8.28	unnamed	Oakland Bay	14	Mason	Yes	Yes
NW	997396	SR 20	85.94	unnamed	House Cr	4	Skagit	Yes	Yes
NW	997398	SR 20	86.86	unnamed	Skagit R	4	Skagit	Yes	Yes
OL	997623	SR 7	28.02	unnamed	Mashel R	11	Pierce	No	Yes
NW	997645	SR 515	3.97	Panther Cr	Springbrook Cr	9	King	Yes	Yes
NW	997649	SR 516	2.98	unnamed	Green R	9	King	Yes	Yes
NW	997651	SR 516	5.8	Mill Cr	Springbrook Cr	9	King	Yes	Yes
NW	997660	SR 18	7.51	unnamed	Big Soos Cr	9	King	Yes	Yes
NW	997661	SR 18	8	unnamed	Soosette Cr	9	King	Yes	Yes
NW	997674	SR 516	1.28	unnamed	Massey Cr	9	King	No	No
NW	997675	SR 509; SR 99	14.2	Redondo Cr	Poverty Bay	9	King	Yes	Yes
NW	997679	SR 509	24.42	Miller Cr	Puget Sound	9	King	Yes	Yes
NW	997681	SR 509	29.15	Lost Fork Hamm Cr	Duwamish R	9	King	No	Yes
NW	997684	SR 99	23.31	unnamed	Duwamish R	9	King	Yes	Yes
NW	997685	SR 99	24.71	unnamed	NF Hamm Cr	9	King	No	Yes
NW	997687	SR 99	24.86	NF Hamm Cr	Duwamish R	9	King	Yes	Yes
NW	997691	SR 169	7.15	Unnamed	Jones Lk	9	King	Yes	Yes
NW	997692	SR 169	7.25	unnamed	Jones Lk	9	King	Yes	Yes

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2024)**

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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	997693	SR 169	8.27	unnamed	Ginder Cr	9	King	Yes	Yes
NW	997694	SR 169	8.29	Ginder Cr	Rock Cr	9	King	Yes	Yes
NW	997697	SR 518	3.57	unnamed	Gilliam Cr	9	King	No	Yes
OL	997705	I-5	109.62	College Cr	Woodland Cr	13	Thurston	Yes	Yes
OL	997706	I-5	104.13	unnamed	Deschutes R	13	Thurston	Yes	Yes
NW	997712	SR 530	64.41	unnamed	Hilt Cr	4	Skagit	No	Yes
NW	997717	SR 20	98.44	unnamed	Skagit R	4	Skagit	Unknown	No
OL	997780	SR 109	27.05	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997781	SR 109	27.41	Spruce Cr	Pacific Ocean	21	Grays Harbor	No	Yes
OL	997784	SR 109	30.26	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997786	SR 109	31.93	unnamed	Moclips R	21	Grays Harbor	Yes	Yes
OL	997787	SR 109	33.87	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997790	SR 109	36	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997920	SR 512	3.3	unnamed	NF Clover Cr	12	Pierce	Yes	Yes
NW	997974	SR 161	34.14	unnamed	unnamed Hylebos Cr trib	10	King	Yes	Yes
NW	998602	I-405	21.94	Juanita Cr	Lake Washington	8	King	Yes	Yes
NW	998886	SR 518	2.82	Gilliam Cr	Green R	9	King	Yes	Yes
NW	998964	I-5; NB off-ramp	154.48	unnamed	Gilliam Cr	9	King	No	Yes
NW	998969	I-405	4.61	unnamed	Lake Washington	8	King	No	No
NW	998971	I-405	7.83	unnamed	Lake Washington	8	King	Yes	No
NW	998972	I-405	7.9	unnamed	Lake Washington	8	King	Yes	No
NW	998974	I-405; SB	12.43	Hixson Cr	Mercer Sl	8	King	No	Yes
NW	998976	I-405; SB	27.76	Royal Anne Cr	North Cr	8	Snohomish	No	No
NW	998977	I-405; SB	27.83	unnamed	Royal Anne Cr	8	Snohomish	Yes	Yes
OL	999626	SR 3	26.26	Mindy Cr	Union R	15	Mason	Yes	Yes
NW	CD18	SR 20	105.42	Olson Cr	Skagit R	4	Skagit	Yes	Yes
NW	CR122	I-5	225.24	Martha Washington Cr	Maddox Cr	3	Skagit	Yes	Yes
NW	DM7	SR 20	116.25	unnamed	Skagit R	4	Skagit	Yes	Yes



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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	FR73	I-5; SB	243.91	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	FR75	I-5	245.76	Lake Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	GR43	SR 20	86.21	Ebing Cr	Skagit R	4	Skagit	Yes	Yes
NW	GR54	SR 20	87.01	Eagle Cr	Skagit R	4	Skagit	Yes	Yes
NW	HC53	SR 9	59.08	unnamed	unnamed Hansen Cr trib	3	Skagit	Yes	Yes
NW	HC93	SR 9	59.46	unnamed	Hansen Cr	3	Skagit	Yes	Yes
NW	LP23	SR 9	35.46	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	LP31	SR 9	38.64	unnamed	unnamed Pilchuck Cr trib	5	Skagit	No	Yes
NW	LP32	SR 9	38.69	unnamed	Pilchuck Cr	5	Skagit	Yes	Yes
NW	LP66		213.86	unnamed	Secret Cr	5	Snohomish	Yes	Yes
NW	NC158	SR 9	39.16	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	NC163	SR 9	43.08	unnamed	Lake Cr	3	Skagit	Yes	Yes
NW	NC164	SR 9	41.93	unnamed	Lake Cr	3	Skagit	Yes	Yes
NW	NC166	SR 9	40.77	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	NC170	SR 9	39.87	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	NC180	SR 9	39.69	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	NC69	SR 9	49	unnamed	Nookachamps Cr	3	Skagit	Yes	Yes
NW	PA104	SR 20	51.77	Blind Sl	Padilla Bay	3	Skagit	Yes	No
NW	PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	Skagit	Unknown	No
NW	SF49	SR 20	61.26	Gages Sl	Skagit R	3	Skagit	Yes	Yes
NW	SR67	SR 9	64.45	unnamed	Samish R	3	Skagit	No	Yes
NW	SR71	SR 9	63.74	unnamed	Samish R	3	Skagit	Yes	No

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# Appendix II

## Updates to the WSDOT Injunction Barrier List

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2024)**

270 culverts are no longer injunction barriers requiring repair. 242 newly identified barrier culverts have been added to the injunction barrier list. Some sites are listed as having been both added and removed, including corrected newly identified barriers.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
994233	I-5	250.55	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	9/28/2022	Y
991036	I-5	255.15	Squalicum Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015	Y
995701	I-5	258.56	unnamed	unnamed to Silver Cr	1	added to injunction barrier list	newly identified barrier - limited gain	3/16/2016	N
934371	I-5	259.91	unnamed	Silver Cr	1	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	N
995704	I-5	260.58	Silver Cr	Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	5/7/2021	N
933400	I-5 NB ROW	270.20	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - significant gain	7/2/2015	N
995720	I-5; NB	270.14	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - significant gain	6/18/2015	N
995723	I-5; NB Ext 260	260.00	unnamed	Silver Cr	1	added to injunction barrier list	newly identified barrier - significant gain	9/18/2017	N
935921	I-5; NB on-ramp	0.03	unnamed	Silver Cr	1	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	N
933402	I-5; NB on-ramp	270.50	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - limited gain	3/2/2022	N
995715	I-5;NB	268.64	unnamed	California Cr	1	not an injunction barrier	barrier corrected	10/4/2020	Y
933401	I-5;NB ROW	270.40	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - significant gain	3/2/2022	N
01.0626 0.35	SR 11	18.60	Chuckanut Cr	Chuckanut Bay	1	added to injunction barrier list	newly identified barrier - significant gain	9/11/2017	N
01.0626 0.35	SR 11	18.60	Chuckanut Cr	Chuckanut Bay	1	not an injunction barrier	culvert determined to not be a barrier	7/25/2018	N
990581	SR 11	18.65	Hoags Cr	Chuckanut Cr	1	not an injunction barrier	barrier corrected	10/23/2020	Y
994389	SR 11	20.25	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015	Y
994386	SR 11	21.08	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	10/30/2021	Y
936210	SR 539	3.49	Silver Creek	Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	3/15/2023	N
991473	SR 539	11.1	Duffner Ditch	Bertrand Cr	1	not an injunction barrier	barrier corrected	10/31/2023	Y
991973	SR 539 SB	0.30	WF Spring Cr	Spring Cr	1	added to injunction barrier list	newly identified barrier - significant gain	4/30/2018	N
990014	SR 542	3.45	Squalicum Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	10/31/2023	N
990014	SR 542	3.50	Squalicum Cr	Bellingham Bay	1	added to injunction barrier list	newly identified barrier - significant gain	9/25/2017	N
01.0228 4.80	SR 542	6.55	Anderson Cr	Nooksack R	1	not an injunction barrier	barrier corrected	12/29/2015	Y
990582	SR 542	14.07	unnamed	Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	5/23/2023	N
990434	SR 542	15.32	unnamed	Jim Cr	1	not an injunction barrier	culvert determined to not be a barrier	6/28/2017	Y
991112	SR 542	19.57	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	7/11/2017	N
991704	SR 542	20.14	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier - limited gain	9/25/2017	N
991621	SR 542	24.90	High Cr	Kendall Cr	1	not an injunction barrier	barrier corrected	12/20/2016	Y
990187	SR 542	32.00	Hedrick Cr	NF Nooksack R	1	not an injunction barrier	barrier corrected	12/26/2018	Y
990603	SR 542	36.61	Lookout Cr	NF Nooksack R	1	not an injunction barrier	resident trout only	6/15/2014	Y
996168	SR 544	3.51	unnamed	Four Mile Cr	1	not an injunction barrier	barrier corrected	9/21/2023	Y
931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	not an injunction barrier	barrier corrected	9/21/2022	Y
990510	SR 546	0.46	Double Ditch	Fishtrap Cr	1	not an injunction barrier	barrier corrected	9/21/2022	Y
996161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	added to injunction barrier list	newly identified barrier - significant gain	8/5/2014	N
996161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	not an injunction barrier	barrier corrected	9/21/2022	N
990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	8/24/2017	N
990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	not an injunction barrier	barrier corrected	9/21/2022	N

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List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
996003	SR 548	0.29	unnamed	California Cr	1	not an injunction barrier	barrier corrected	10/23/2020	Y
996149	SR 548	8.11	unnamed	Terrell Cr	1	not an injunction barrier	culvert determined to not be a barrier	4/27/2021	Y
996155	SR 548	11.19	unnamed	Drayton Harbor	1	not an injunction barrier	barrier corrected	12/20/2016	Y
996092	SR 548	12.48	unnamed	Drayton Harbor	1	added to injunction barrier list	newly identified barrier - limited gain	11/9/2022	N
991106	SR 9	70.60	unnamed	Landingstrip Cr	1	not an injunction barrier	barrier corrected	12/13/2021	Y
992349	SR 9	77.36	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019	Y
992350	SR 9	77.43	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019	Y
992354	SR 9	77.93	unnamed	Tawes Cr	1	added to injunction barrier list	newly identified barrier - significant gain	10/2/2023	N
992356	SR 9	77.94	Tawes Cr	SF Nooksack R	1	not an injunction barrier	barrier corrected	12/20/2019	Y
995785	SR 9	87.40	unnamed	Sumas R	1	added to injunction barrier list	newly identified barrier - significant gain	10/24/2023	N
03.0181 0.50	I-5	219.41	Fisher Cr	Carpenter Cr	3	not an injunction barrier	barrier corrected	10/13/2017	Y
03.0183 1.20	I-5; LX	218.56	unnamed	Milktown Cr	3	added to injunction barrier list	newly identified barrier - significant gain	8/5/2021	N
990215	SR 12	1.45	unnamed	Joe Leardy Slough	3	added to injunction barrier list	newly identified barrier - significant gain	10/18/2023	N
996320	SR 20	46.10	unnamed	Campbell Lk	3	not an injunction barrier	resident trout only	11/30/2022	Y
995422	SR 20	46.54	unnamed	Lake Campbell	3	added to injunction barrier list	newly identified barrier - significant gain	3/1/2023	N
995423	SR 20	48.07	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier - significant gain	7/24/2017	N
995424	SR 20	48.12	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier - significant gain	7/24/2017	N
995425	SR 20	48.16	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier - significant gain	7/24/2017	N
PA104	SR 20	51.77	Blind Sl	Padilla Bay	3	added to injunction barrier list	newly identified barrier - significant gain	6/22/2022	N
933175	SR 20	53.53	unnamed	Guemes Channel	3	added to injunction barrier list	newly identified barrier - significant gain	6/18/2015	N
995432	SR 20	53.90	unnamed	Indian Sl	3	not an injunction barrier	not a culvert feature	2/3/2014	Y
991142	SR 20	69.08	unnamed	Red Cr	3	not an injunction barrier	barrier corrected	10/31/2023	Y
991146	SR 20	72.85	Childs Cr	Skagit R	3	added to injunction barrier list	newly identified barrier - significant gain	9/16/2015	N
995438	SR 20	77.75	unnamed	Careys Cr	3	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Y
991123	SR 20	80.10	unnamed	Skagit R	3	added to injunction barrier list	newly identified barrier - significant gain	9/16/2015	N
933175	SR 20; spur	53.53	unnamed	Guemes Channel	3	not an injunction barrier	resident trout only	12/6/2021	N
CR2	SR 534	0.53	unnamed	Carpenter Cr	3	not an injunction barrier	barrier corrected	10/31/2023	Y
995265	SR 534; ROW	0.6	unnamed	unnamed Carpenter Cr trib	3	not an injunction barrier	barrier corrected	10/31/2023	Y
PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	added to injunction barrier list	newly identified barrier - limited gain	1/25/2016	N
NC129	SR 538	2.18	Logan Cr	Nookachamps Cr	3	not an injunction barrier	barrier corrected	12/13/2021	Y
990641	SR 9	40.08	Lake Cr	Lake McMurray	3	not an injunction barrier	barrier corrected	10/19/2022	Y
990091	SR 9	41.04	Norway Park Cr	Lake McMurray	3	not an injunction barrier	barrier corrected	10/19/2022	Y
991120	SR 9	42.36	Lake Cr	Big Lk	3	not an injunction barrier	barrier corrected	12/29/2015	Y
991114	SR 9	62.36	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - significant gain	9/15/2015	N
SR71	SR 9	63.74	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - significant gain	9/15/2015	N
991116	SR 9	65.32	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - significant gain	9/10/2015	N
991446	SR 9	66.51	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - limited gain	10/13/2015	N



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991448	SR 9	67.33	NP Cr	Samish R	3	not an injunction barrier	barrier corrected	12/31/2013	Y
991122	SR 99	48.00	Gribble Cr	WF Nookachamps Cr	3	not an injunction barrier	barrier corrected	4/26/2019	Y
993116	I-5	180.63	Scriber Cr	Swamp Cr	4	not an injunction barrier	culvert determined to not be a barrier	1/4/2018	Y
GR43	SR 20	86.21	Ebing Cr	Skagit R	4	not an injunction barrier	culvert determined to not be a barrier	3/27/2017	Y
991150	SR 20	87.20	Eagle Cr	Skagit R	4	added to injunction barrier list	newly identified barrier - significant gain	10/28/2015	N
GR9	SR 20	87.70	Fish Cr	Lorenzan Cr	4	not an injunction barrier	barrier corrected	12/13/2021	Y
GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	not an injunction barrier	barrier corrected	12/13/2021	Y
JK2	SR 20	91.30	unnamed	Skagit R	4	not an injunction barrier	barrier corrected	10/19/2022	Y
991711	SR 20	94.10	unnamed	Skagit R	4	not an injunction barrier	resident trout only	7/3/2014	Y
994308	SR 20	94.47	unnamed	Skagit R	4	not an injunction barrier	barrier corrected	10/31/2023	Y
997717	SR 20	98.44	unnamed	Skagit River	4	added to injunction barrier list	newly identified barrier - significant gain	10/22/2023	N
994941	SR 20	111.68	unnamed	Skagit R	4	not an injunction barrier	culvert determined to not be a barrier	2/21/2023	Y
932471	SR 20	118.10	Unnamed	Thorton Cr	4	not an injunction barrier	stream determined to be non-fish bearing	1/12/2016	Y
GR43	SR 21	86	Ebing Cr	Skagit River	4	added to injunction barrier list	newly identified barrier - significant gain	10/22/2023	N
990885	SR 530	66.53	unnamed	Skagit R	4	added to injunction barrier list	newly identified barrier - significant gain	9/18/2017	N
990623	1-5 SB	211.70	Secret Cr	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier - significant gain	4/17/2018	N
990622	I-5	211.50	Secret Cr	Pilchuck R	5	added to injunction barrier list	newly identified barrier - significant gain	12/10/2019	N
930940	I-5,ROW	215.07	WF Church Cr	Church Cr	5	added to injunction barrier list	newly identified barrier - significant gain	6/17/2021	N
991159	SR 530	24.65	Traffon Cr	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	11/8/2020	Y
991160	SR 530	25.94	Schoolyard Cr	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	12/20/2019	Y
990645	SR 530	33.30	unnamed	NF Stillaquamish R	5	added to injunction barrier list	newly identified barrier - limited gain	8/31/2022	N
990647	SR 530	34.80	unnamed	NF Stillaquamish	5	added to injunction barrier list	newly identified barrier - significant gain	1/10/2024	N
995404	SR 530	36.83	unnamed	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Y
991169	SR 530	36.90	unnamed	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Y
991170	SR 530	37.58	unnamed	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Y
990649	SR 530	38.53	unnamed	NF Stillaquamish R	5	not an injunction barrier	culvert determined to not be a barrier	1/10/2023	Y
05.0018 2.00	SR 532	6.14	Church Cr	Stillaguamish R	5	not an injunction barrier	barrier corrected	10/13/2017	Y
990890	SR 532	8.71	Jackson Gulch Cr	Stillaguamish R	5	not an injunction barrier	resident trout only	5/28/2020	Y
990624	SR 532	9.75	Secret Cr	Pilchuck Cr	5	not an injunction barrier	barrier corrected	12/20/2016	Y
LP19	SR 9	37.26	unnamed	unnamed Pilchuck Creek tributary	5	added to injunction barrier list	newly identified barrier - limited gain	4/10/2018	N
LP19	SR 9	37.26	unnamed	unnamed Pilchuck Creek tributary	5	not an injunction barrier	barrier corrected	10/30/2021	N
991158	SR 9	38.88	unnamed	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier - significant gain	4/4/2016	N
995978	SR 20	12.96	Crockett Lk	Keystone Harbor	6	not an injunction barrier	resident trout only	1/7/2015	Y
934011	Broadway Ave	n/a	unnamed	unnamed Thomas Cr trib	7	not an injunction barrier	not WSDOT ownership	2/24/2021	N
934015	Broadway Ave	n/a	unnamed	unnamed Thomas Cr trib	7	not an injunction barrier	not WSDOT ownership	2/24/2021	N
934011	Broadway Ave	n/a	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	12/21/2016	N

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Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
934015	Broadway Ave	n/a	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	12/21/2016	N
933665	I-5	196.24	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	4/22/2019	N
990469	I-5	202.32	WF Quilceda Cr	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	10/25/2023	N
995284	I-5	203.22	unnamed	WF Quilceda Cr	7	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Y
102_Q058	I-5	203.24	unnamed	WF Quilceda Cr	7	not an injunction barrier	duplicate record	11/4/2013	Y
934821	I-90 WB	25.68	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	N
934822	I-90 WB; off-ramp	25.68	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	N
934820	I-90; EB; on-ramp	25.69	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	N
994859	SR 18	23.66	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	3/4/2019	N
994860	SR 18	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	N
994860	SR 18	24.24	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing	1/19/2021	N
934882	SR 18	24.42	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - limited gain	10/16/2019	N
935338	SR 18	24.71	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - limited gain	6/13/2022	N
934791	SR 18	25.04	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	3/4/2019	N
934791	SR 18	25.67	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing	1/27/2021	N
990236	SR 18	27.57	Lake Cr	Raging R	7	not an injunction barrier	barrier corrected	10/31/2023	Y
934828	SR 18	27.83	unnamed	unnamed Lake Cr trib	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	N
934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	N
934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing	1/19/2021	N
990325	SR 202	13.24	Patterson Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	11/4/2020	Y
991174	SR 202	19.69	unnamed	Patterson Cr	7	not an injunction barrier	barrier corrected	11/4/2020	Y
991173	SR 202	19.77	unnamed	Patterson Cr	7	not an injunction barrier	barrier corrected	11/4/2020	Y
101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	added to injunction barrier list	newly identified barrier - significant gain	1/7/2016	N
991721	SR 203	4.91	unnamed	Langlois Cr	7	added to injunction barrier list	newly identified barrier - significant gain	12/3/2014	N
991717	SR 203	4.98	Langlois Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	4/22/2019	Y
995167	SR 203	7.26	unnamed	Horseshoe Lk	7	not an injunction barrier	barrier corrected	10/31/2023	Y
995178	SR 203	11.61	unnamed	unnamed Snoqualmie R trib	7	not an injunction barrier	culvert determined to not be a barrier	12/20/2022	Y
991716	SR 203	13.60	Loutis Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	10/23/2020	Y
995181	SR 203	14.10	Thayer Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	9/11/2017	Y
991718	SR 203	14.55	Coe Clemmons Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	12/29/2015	Y
995188	SR 203	19.52	Peoples Cr	Snoqualmie R	7	added to injunction barrier list	newly identified barrier - significant gain	4/16/2024	N
995190	SR 203	19.73	unnamed	Snoqualmie R	7	added to injunction barrier list	newly identified barrier - significant gain	8/20/2022	N
995141	SR 204	0.96	unnamed	Ebey Sl	7	not an injunction barrier	resident trout only	9/26/2021	Y
934276	SR 322	18.77	unnamed	unnamed Evans Cr trib	7	added to injunction barrier list	newly identified barrier - significant gain	12/5/2018	N
992381	SR 322	19.35	unnamed	Anderson Cr	7	not an injunction barrier	stream determined to be non-fish bearing	10/16/2021	Y
994128	SR 322	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014	Y
994125	SR 322	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014	Y
995126	SR 326	0.80	Japanese Gulch Cr	Possession Sound	7	added to injunction barrier list	newly identified barrier - significant gain	5/2/2019	N

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995136	SR 529	3.40	unnamed	Port Gardner Bay	7	added to injunction barrier list	newly identified barrier - significant gain	10/10/2023	N
991057	SR 531	8.37	unnamed	MF Quilceda Cr	7	added to injunction barrier list	newly identified barrier - limited gain	1/28/2019	N
991058	SR 531	8.65	Edgecomb Cr	MF Quilceda Cr	7	added to injunction barrier list	newly identified barrier - significant gain	10/16/2014	N
991058	SR 531	8.65	Edgecomb Cr	MF Quilceda Cr	7	not an injunction barrier	barrier corrected	10/25/2017	N
991059	SR 531	8.71	Edgecomb Cr	MF Quilceda Cr	7	not an injunction barrier	barrier corrected	10/25/2017	Y
995208	SR 531	9.70	unnamed	unnamed	7	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	N
934372	SR 539 SB	6.00	unnamed	Streamboat Sl	7	added to injunction barrier list	newly identified barrier - limited gain	12/18/2017	N
999168	SR 9	14.00	Centennial Cr	Pilchuck R	7	not an injunction barrier	culvert determined to not be a barrier	12/4/2019	Y
995085	SR 9	22.58	Quilceda Cr	Ebey Sl	7	added to injunction barrier list	newly identified barrier - significant gain	2/15/2023	N
991810	SR 9; Access Rd	4.15	unnamed	unnamed	7	not an injunction barrier	resident trout only	1/15/2015	Y
990233	SR 92	2.69	Little Pilchuck Cr	Pilchuck R	7	not an injunction barrier	barrier corrected	4/26/2019	Y
995046	US 2	3.59	unnamed	unnamed	7	not an injunction barrier	stream determined to be non-fish bearing	9/20/2016	Y
995049	US 2	4.67	Cemetery Cr	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	9/27/2022	N
995101	US 2	6.23	Bunk Foss Cr	Pilchuck R	7	not an injunction barrier	culvert determined to not be a barrier	10/30/2020	Y
995102	US 2	6.57	unnamed	Pilchuck R	7	added to injunction barrier list	newly identified barrier - significant gain	6/3/2024	N
101NORT-01	US 2	15.74	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier - significant gain	10/9/2017	N
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier - significant gain	5/2/2016	N
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	10/16/2017	N
101NORT-36	US 2	19.30	unnamed	Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	9/14/2017	Y
992066	US 2	24.80	unnamed	Wallace R	7	added to injunction barrier list	newly identified barrier - significant gain	5/4/2016	N
992066	US 2	24.80	unnamed	Wallace R	7	not an injunction barrier	culvert determined to not be a barrier	9/7/2016	N
991822	US 2	34.36	unnamed	Skykomish R	7	not an injunction barrier	resident trout only	1/27/2021	Y
995058	US 2	44.26	unnamed	SF Skykomish R	7	not an injunction barrier	resident trout only	6/27/2018	Y
995059	US 2	44.30	unnamed	SF Skykomish R	7	not an injunction barrier	resident trout only	6/27/2018	Y
936471	US 2	47.05	unnamed	SF Skykomish River	7	added to injunction barrier list	newly identified barrier - significant gain	7/6/2023	N
995061	US 2	48.35	unnamed	SF Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Y
934093	US 2	48.82	unnamed	SF Skykomish R	7	added to injunction barrier list	newly identified barrier - limited gain	5/8/2017	N
934093	US 2; ROW	48.82	unnamed	SF Skykomish R	7	not an injunction barrier	not under a state road	10/6/2020	N
08.0183 3.10	270th Ave	20.28	EF Issaquah Cr	Issaquah Cr	8	not an injunction barrier	not WSDOT ownership	7/24/2014	Y
998969	I-405	4.61	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - limited gain	12/5/2018	N
996482	I-405	5.09	Johns Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	9/9/2015	N
999410	I-405	6.31	Clover Cr	Lk Washington	8	not an injunction barrier	resident trout only	6/6/2017	Y
933259	I-405	7.61	Gypsy Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	5/18/2015	N
998971	I-405	7.83	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	5/18/2015	N
998972	I-405	7.90	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	5/18/2015	N
934704	I-405	8.15	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - limited gain	1/14/2019	N
934704	I-405	8.18	unnamed	Lake Washington	8	not an injunction barrier	stream determined to be non-fish bearing	7/24/2021	N

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936041	I-405	9.20	Lakehurst Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	8/20/2022	N
932933	I-405	10.00	unnamed	Coal Cr	8	added to injunction barrier list	newly identified barrier - significant gain	12/5/2018	N
933258	I-405	12.03	Trail Cr	Mercer Sl	8	added to injunction barrier list	newly identified barrier - limited gain	5/18/2015	N
933244	I-405	13.05	Sturtevant Cr	Richards Cr	8	added to injunction barrier list	newly identified barrier - significant gain	2/24/2015	N
998982	I-405	19.07	unnamed	Forbes Cr	8	not an injunction barrier	stream determined to be non-fish bearing	5/14/2022	Y
990376	I-405	19.12	Forbes Cr	Juanita Bay	8	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	N
932812	I-405	20.50	unnamed	Juanita Cr	8	added to injunction barrier list	newly identified barrier - significant gain	10/29/2014	N
932812	I-405	20.50	unnamed	Juanita Cr	8	not an injunction barrier	culvert determined to not be a barrier	11/11/2023	N
991008	I-405	27.70	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier - limited gain	3/29/2016	N
993898	I-405; ROW	29.67	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/28/2015	Y
998979	I-405; SB	21.44	unnamed	Juanita Cr	8	not an injunction barrier	stream determined to be non-fish bearing	8/4/2016	Y
998976	I-405; SB	27.76	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier - limited gain	3/29/2016	N
934543	I-5	172.38	unnamed	SF Thornton Cr	8	added to injunction barrier list	newly identified barrier - limited gain	3/29/2019	N
996229	I-5	183.33	unnamed	Swamp Cr	8	not an injunction barrier	stream determined to be non-fish bearing	9/20/2023	Y
994842	I-5; ROW	175.00	unnamed	Thornton Cr	8	not an injunction barrier	not under a state road	3/2/2022	Y
933867	I-90	6.75	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - limited gain	9/11/2017	N
994415	I-90	14.71	unnamed	Lake Sammamish	8	added to injunction barrier list	newly identified barrier - significant gain	10/11/2017	N
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	added to injunction barrier list	newly identified barrier - limited gain	5/8/2017	N
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	N
996473	I-90; EB	21.23	unnamed	EF Issaquah Cr	8	not an injunction barrier	culvert determined to not be a barrier	8/4/2017	Y
996476	I-90; WB Off-ramp	16.03	unnamed	Tilbetts Cr	8	added to injunction barrier list	newly identified barrier - significant gain	7/15/2019	N
996475	I-90; WB off-ramp	17.00	unnamed	NF Issaquah Cr	8	added to injunction barrier list	newly identified barrier - significant gain	10/13/2016	N
996475	I-90; WB off-ramp	17.00	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	N
996963	I-90; WB on-ramp	17.00	NF Issaquah Cr	Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	Y
996885	Redmond Way	5.33	unnamed	unnamed	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Y
996886	Redmond Way	5.40	unnamed	Peters Cr	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Y
996887	Redmond Way	5.69	Peters Cr	Sammamish R	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Y
996492	SR 169	17.92	unnamed	Cedar R	8	not an injunction barrier	barrier corrected	12/6/2021	Y
996494	SR 169	18.48	unnamed	Cedar R	8	not an injunction barrier	culvert determined to not be a barrier	5/14/2022	Y
996500	SR 169	19.84	unnamed	Cedar R	8	added to injunction barrier list	newly identified barrier - limited gain	1/7/2019	N
995970	SR 18	22.55	unnamed	unnamed Holder Cr trib	8	added to injunction barrier list	newly identified barrier - limited gain	3/4/2019	N
102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	8	not an injunction barrier	barrier corrected	4/26/2019	Y
996930	SR 202; ROW	1.03	unnamed	Sammamish R	8	not an injunction barrier	barrier corrected prior to 2013	2/12/2022	Y
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	added to injunction barrier list	newly identified barrier - significant gain	1/6/2014	N
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/30/2014	N
994705	SR 520	6.44	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	12/31/2013	Y
994449	SR 520; EB off-ramp	6.03	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	3/15/2016	Y
994237	SR 520; LX	6.26	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014	Y



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270 culverts are no longer injunction barriers requiring repair. 242 newly identified barrier culverts have been added to the injunction barrier list. Some sites are listed as having been both added and removed, including corrected newly identified barriers.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
994704	SR 520; Maint Yard	6.40	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	3/15/2016	Y
994238	SR 520; WB off-ramp	6.27	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014	Y
990274	SR 522	4.69	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	9/15/2020	N
08.0052 0.10	SR 522	5.76	Lyon Cr	Lake Washington	8	not an injunction barrier	barrier corrected	12/29/2015	Y
996928	SR 522	9.60	Hoise Cr	Sammamish R	8	not an injunction barrier	barrier corrected	4/26/2019	Y
996910	SR 522	11.59	unnamed	Sammamish R	8	not an injunction barrier	stream determined to be non-fish bearing	4/26/2019	Y
996913	SR 522	13.66	unnamed	Little Bear Cr	8	not an injunction barrier	culvert determined to not be a barrier	9/11/2021	Y
994440	SR 522	16.54	Daniels Cr	Cottage Lk Cr	8	not an injunction barrier	culvert determined to not be a barrier	11/19/2013	Y
994440	SR 522	16.57	Daniels Cr	Cottage Lk Cr	8	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	Y
996915	SR 523	1.24	unnamed	Thornton Cr	8	not an injunction barrier	resident trout only	12/16/2013	Y
996915	SR 523	1.24	unnamed	Thornton Cr	8	added to injunction barrier list	newly identified barrier - significant gain	12/20/2019	Y
993100	SR 524	6.95	Martha Cr	Swamp Cr	8	not an injunction barrier	culvert determined to not be a barrier	3/15/2022	Y
993122	SR 524	7.02	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015	Y
102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	8	not an injunction barrier	barrier corrected	4/26/2019	Y
993121	SR 524; ROW	7.07	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015	Y
102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier - significant gain	7/8/2014	N
991962	SR 525	5.67	unnamed	Big Gulch	8	added to injunction barrier list	newly identified barrier - limited gain	8/29/2022	N
991842	SR 900	15.86	Green Cr	May Cr	8	not an injunction barrier	barrier corrected	10/13/2017	Y
102 N183	SR 96	0.47	North Cr	Sammamish R	8	not an injunction barrier	barrier corrected	10/31/2023	Y
993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	not an injunction barrier	culvert determined to not be a barrier	10/8/2022	N
993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	N
993487	SR 99	48.69	unnamed	Swamp Cr	8	added to injunction barrier list	newly identified barrier - Significant Gain	6/22/2022	N
09.0377 2.12	200th Ave	21.80	Des Moines Cr	Puget Sound	9	not an injunction barrier	not WSDOT ownership	6/11/2014	Y
998967	I-405; ROW	0.61	Gilliam Cr	Green R	9	not an injunction barrier	culvert determined to not be a barrier	12/22/2022	Y
991031	I-5	145.93	Bingaman Cr	Green R	9	added to injunction barrier list	newly identified barrier - significant gain	1/6/2016	N
993070	I-5	147.57	unnamed	unnamed SF McSorley Cr trib	9	added to injunction barrier list	newly identified barrier - limited gain	10/14/2021	N
993613	I-5; ROW S 288th St	145.81	Bingaman Cr	Bingaman Pond	9	added to injunction barrier list	newly identified barrier - significant gain	2/3/2017	N
991224	SR 167	16.12	Mill Cr	Green R	9	added to injunction barrier list	newly identified barrier - significant gain	8/10/2022	N
9935187	SR 167	17.39	unnamed	Mill Cr	9	added to injunction barrier list	newly identified barrier - limited gain	9/4/2021	N
990394	SR 167	21.64	Spring Brook Cr	Black R	9	not an injunction barrier	culvert determined to not be a barrier	7/27/2016	Y
993329	SR 167	23.71	unnamed	Springbrook Cr	9	added to injunction barrier list	newly identified barrier - significant gain	5/28/2022	N
993530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	added to injunction barrier list	newly identified barrier - significant gain	12/28/2017	N
9935343	SR 167 off ramp	22.24	unnamed	Harrison Cr	9	added to injunction barrier list	newly identified barrier - significant Gain	8/11/2021	N
9935342	SR 167 off ramp	22.25	unnamed	Harrison Cr	9	added to injunction barrier list	newly identified barrier - significant Gain	8/11/2021	N
9935036	SR 169	7.10	Rock Cr	Rock Cr	9	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	N
997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	not an injunction barrier	barrier corrected	9/20/2022	Y
997646	SR 181	7.30	unnamed	Springbrook Cr	9	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Y

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List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
936016	SR 515	6.75	Rolling Hills Cr	Springbrook Cr	9	added to injunction barrier list	newly identified barrier - significant gain	7/30/2022	N
991191	SR 516	0.43	Barnes Cr	Massey Cr	9	not an injunction barrier	barrier corrected	10/31/2023	Y
997674	SR 516	1.28	unnamed	Massey Cr	9	added to injunction barrier list	newly identified barrier - limited gain	8/20/2022	N
997670	SR 516	10.58	unnamed	Big Soos Cr	9	not an injunction barrier	stream determined to be non-fish bearing	5/11/2018	Y
990210	SR 516	12.33	Jenkins Cr	Big Soos Cr	9	not an injunction barrier	culvert determined to not be a barrier	10/16/2014	Y
935836	SR 599	0.62	Southgate Cr	Duwamish R	9	added to injunction barrier list	newly identified barrier - significant gain	7/24/2023	N
933186	I-5	134.33	unnamed	Puyallup R	10	added to injunction barrier list	newly identified barrier - limited gain	9/9/2015	N
991800	SR 162	4.39	unnamed	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	11/22/2016	Y
991215	SR 162	4.82	Ball Cr	Puyallup R	10	not an injunction barrier	barrier corrected	12/31/2013	Y
105 R032517a	SR 162	12.43	Rauch Cr	Carbon R	10	added to injunction barrier list	newly identified barrier - significant gain	10/14/2021	N
105 R033020A	SR 162	16.66	unnamed	S Prairie Cr	10	added to injunction barrier list	newly identified barrier - significant gain	6/9/2017	Y
105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	not an injunction barrier	barrier corrected	10/23/2021	Y
991837	SR 164	10.21	unnamed	unnamed	10	not an injunction barrier	culvert determined to not be a barrier	6/28/2017	Y
996308	SR 164; ROW	7.00	unnamed	White R	10	not an injunction barrier	not WSDOT ownership	3/15/2016	Y
990083	SR 167	0.82	Clear Cr	Puyallup R	10	not an injunction barrier	not a culvert feature	2/3/2014	Y
991212	SR 167	8.05	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - significant gain	4/1/2020	N
935235	SR 167	8.85	unnamed	Milwaukee Canal	10	added to injunction barrier list	newly identified barrier - significant gain	8/3/2023	N
991211	SR 167	10.00	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - significant gain	4/1/2020	N
996290	SR 167	11.37	unnamed	Milwaukee Canal	10	not an injunction barrier	culvert determined to not be a barrier	10/29/2013	Y
996290	SR 167	11.37	unnamed	Milwaukee Canal	10	added to injunction barrier list	newly identified barrier - significant gain	8/5/2020	Y
105 R050320b	SR 167; 8th St E	10.65	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - significant gain	8/7/2021	N
105 R050320a	SR 167; NB Ext 8	12.05	Jovita Cr	Milwaukee Canal	10	not an injunction barrier	barrier corrected	12/20/2016	Y
930179	SR 167; ROW	12.72	unnamed	Milwaukee Canal	10	not an injunction barrier	barrier corrected	12/20/2016	Y
996618	SR 410	17.26	Fennel Cr	Puyallup R	10	not an injunction barrier	resident trout only	9/11/2017	Y
991204	SR 410	22.64	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier - significant gain	6/5/2017	N
991206	SR 410	22.94	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier - significant gain	6/5/2017	N
991205	SR 410	23.83	unnamed	Boise Cr	10	not an injunction barrier	culvert determined to not be a barrier	3/2/2018	Y
991208	SR 410	26.27	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier - significant gain	9/7/2022	N
996622	SR 410	31.48	unnamed	Scatter Cr	10	not an injunction barrier	resident trout only	8/20/2022	Y
996671	SR 410	53.01	unnamed	White R	10	not an injunction barrier	resident trout only	6/2/2021	Y
105 R052621a	SR 410; EB on-ramp	11.66	unnamed	Salmon Cr	10	added to injunction barrier list	newly identified Level B velocity barrier. Add to significant gain list	10/16/2019	N
105 R121419a	SR 509	2.98	Wapato Cr	Blair Waterway	10	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	N
933183	SR 509	5.24	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier - significant gain	11/19/2018	N
933185	SR 509	5.81	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier - limited gain	9/9/2015	N
935904	SR 509	6.55	Dry Gulch	Puget Sound	10	added to injunction barrier list	newly identified barrier - limited gain	8/10/2023	N
990412	SR 512	4.17	Swan Cr	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	6/18/2015	Y

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List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
996274	SR 7	58.34	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier - significant gain	12/28/2015	N
996275	SR 99	0.44	unnamed	Fife Ditch	10	not an injunction barrier	stream determined to be non-fish bearing	5/28/2020	Y
991210	SR 99	6.86	WF Hylebos Cr	Hylebos Cr	10	not an injunction barrier	barrier corrected	12/29/2015	Y
933313	I-5; NB	115.77	unnamed	unnamed Red Salmon Cr trib	11	added to injunction barrier list	newly identified barrier - limited gain	6/1/2015	N
990972	SR 161	12.85	South Cr	Muck Cr	11	not an injunction barrier	barrier corrected	12/20/2016	Y
991049	SR 507	36.35	Lacamas Cr	Muck Cr	11	not an injunction barrier	barrier corrected	12/20/2016	Y
990656	SR 510	5.64	unnamed	McAllister Cr	11	not an injunction barrier	resident trout only	2/7/2023	Y
990084	SR 7	11.56	Coal Cr	Roundtop Cr	11	not an injunction barrier	resident trout only	10/30/2014	Y
990672	SR 7	14.72	unnamed	East Cr	11	not an injunction barrier	resident trout only	10/30/2014	Y
997628	SR 7	33.52	unnamed	Cranberry Lk	11	not an injunction barrier	culvert determined to not be a barrier	6/5/2021	Y
991225	SR 7	37.25	unnamed	South Cr	11	not an injunction barrier	barrier corrected	10/31/2023	Y
990687	SR 7	38.60	unnamed	South Cr	11	not an injunction barrier	stream determined to be non-fish bearing	9/19/2014	Y
990297	SR 7	41.17	Muck Cr	Nisqually R	11	not an injunction barrier	barrier corrected	12/31/2013	Y
990688	SR 8	38.12	unnamed	South Cr	11	not an injunction barrier	barrier corrected	10/31/2023	Y
998888	I-5	109.19	College Cr	Woodland Cr	13	added to injunction barrier list	newly identified barrier - limited gain	1/25/2016	N
998888	I-5	109.19	College Cr	Woodland Cr	13	not an injunction barrier	stream determined to be non-fish bearing	12/2/2023	N
990008	SR 106	6.85	Big Bend Cr	Hood Canal	14	added to injunction barrier list	newly identified barrier - significant gain	12/19/2013	N
115 MC160	SR 106	7.34	unnamed	Hood Canal	14	added to injunction barrier list	newly identified barrier - significant gain	5/7/2021	N
990908	SR 106	10.83	unnamed	Hood Canal	14	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
990450	SR 106	12.3	Twanoh Cr	Hood Canal	14	not an injunction barrier	barrier corrected	10/31/2023	Y
991246	SR 106	13.50	Twanoh Falls Cr	Hood Canal	14	not an injunction barrier	barrier corrected	12/31/2013	Y
991237	SR 108	5.5	unnamed	Skookum Cr	14	not an injunction barrier	barrier corrected	10/31/2023	Y
990385	SR 108	5.54	Skookum Cr	Little Skookum Inlet	14	not an injunction barrier	barrier corrected	10/31/2023	Y
990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	added to injunction barrier list	newly identified barrier - significant gain	5/4/2015	N
14.0021 0.30	SR 108	11.90	Little Skookum Cr	Skookum Cr	14	not an injunction barrier	barrier corrected	12/20/2016	Y
990706	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	resident trout only	12/28/2015	Y
990707	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	resident trout only	12/28/2015	Y
115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	14	not an injunction barrier	barrier corrected	11/8/2020	Y
996794	Chico Way; SR 3 ROW	41.08	unnamed	Chico Cr	15	not an injunction barrier	barrier corrected	10/13/2022	Y
992205	SR 104	22.47	Grovers Cr	Miller Bay	15	not an injunction barrier	barrier corrected	12/20/2016	Y
935539	SR 16	15.05	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
935540	SR 16	15.09	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
934541	SR 16	15.16	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	N
935061	SR 16	24.55	unnamed	Blackjack Cr	15	added to injunction barrier list	newly identified barrier - significant gain	8/30/2021	N
990357	SR 16	26.80	Ross Cr	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	6/15/2015	N
934154	SR 16	27.49	unnamed	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - limited gain	5/1/2017	N
996738	SR 16	28.82	unnamed	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	2/28/2023	N
996753	SR 16; EB	28.10	Anderson Cr	Sindair Inlet	15	not an injunction barrier	barrier corrected	12/20/2016	Y

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996754	SR 16; EB Ext	26.61	unnamed	Ross Cr	15	added to injunction barrier list	newly identified barrier - significant gain	3/25/2019	N
990017	SR 16; WB	28.10	Anderson Cr	Sindair Inlet	15	not an injunction barrier	barrier corrected	12/20/2016	Y
992009	SR 166	0.52	unnamed	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	5/1/2017	N
990358	SR 166	1.76	Ross Cr	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	3/25/2019	N
936572	SR 166	3.35	unnamed	Blackjack Cr	15	added to injunction barrier list	newly identified barrier - significant gain	4/22/2024	N
996735	SR 3	26.13	unnamed (Romance Hill)	Mindy Cr	15	not an injunction barrier	barrier corrected	12/20/2016	Y
991995	SR 3	36.10	Wright Cr	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	10/12/2013	N
996741	SR 3	40.37	unnamed	Dyes Inlet	15	not an injunction barrier	culvert determined to not be a barrier	12/28/2022	Y
996808	SR 3	55.01	unnamed	Hood Canal	15	added to injunction barrier list	newly identified barrier - significant gain	9/10/2022	N
991907	SR 3; Access Rd	40.97	unnamed	Chico Cr	15	not an injunction barrier	barrier corrected	10/31/2023	Y
931620	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015	Y
931621	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015	Y
996795	SR 3; SB on-ramp	40.99	unnamed	Chico Cr	15	not an injunction barrier	barrier corrected	10/13/2022	Y
990286	SR 302	11.30	Minter Cr	Henderson Bay	15	not an injunction barrier	barrier corrected	9/4/2021	Y
15.0051 0.10	SR 302	11.44	Little Minter Cr	Minter Cr	15	not an injunction barrier	barrier corrected	9/27/2022	Y
15.0051 0.20	SR 302	11.5	Little Minter Cr	Minter Cr	15	not an injunction barrier	barrier corrected	9/27/2022	Y
990345	SR 302; SPPURDY	15.8	Purdy Cr	Burley Lagoon	15	not an injunction barrier	barrier corrected	10/31/2023	Y
935880	SR 303	6.35	unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	N
932154	SR 303	6.64	unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - limited gain	4/2/2022	N
990997	SR 303	4.40	Steele Cr	Crouch Cr	15	added to injunction barrier list	newly identified barrier - significant gain	9/26/2021	N
932143	SR 303; LX	6.90	unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - limited gain	3/14/2022	N
932163	SR 303; ROW	4.33	unnamed	Steele Cr	15	not an injunction barrier	not WSDOT ownership	3/15/2016	Y
932155	SR 303;NB off-ramp	6.62	unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - limited gain	3/19/2022	N
933644	SR 305	1.90	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - limited gain	6/1/2016	N
994325	SR 305	2.44	Murden Cr	Murden Cove	15	not an injunction barrier	barrier corrected	10/31/2023	Y
933663	SR 305	3.37	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - limited gain	6/1/2016	N
933664	SR 305	3.40	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - limited gain	7/2/2019	N
933685	SR 305	5.23	unnamed	Port Madison	15	added to injunction barrier list	newly identified barrier - limited gain	4/11/2016	N
933686	SR 305	5.37	unnamed	Manzanita Bay	15	added to injunction barrier list	newly identified barrier - significant gain	4/11/2016	N
994328	SR 305	10.55	unnamed	Liberty Bay	15	added to injunction barrier list	newly identified barrier - significant gain	4/11/2016	N
990121	SR 305	12.80	Dogfish Cr	Liberty Bay	15	added to injunction barrier list	newly identified barrier - significant gain	8/30/2021	N
933284	SR 305	13.12	unnamed	Dogfish Cr	15	added to injunction barrier list	newly identified barrier - significant gain	12/28/2015	N
990123	SR 307	0.49	Dogfish Cr	Liberty Bay	15	not an injunction barrier	barrier corrected	12/20/2016	Y
992002	SR 307	4.62	Gamble Cr	Port Gamble	15	not an injunction barrier	barrier corrected	12/20/2016	Y
936077	SR16	28.44	unnamed	Sindair inlet	15	added to injunction barrier list	newly identified barrier - limited gain	2/27/2023	N
936180	SR16 E; SR 166	27.94	unnamed	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	3/20/2023	N
936179	SR16 W	27.95	unnamed	Sindair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	3/20/2023	N



**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2024)**

270 culverts are no longer injunction barriers requiring repair. 242 newly identified barrier culverts have been added to the injunction barrier list. Some sites are listed as having been both added and removed, including corrected newly identified barriers.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
996127	SR 106	3.39	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier - limited gain	4/29/2015	N
995019	SR 119	3.98	unnamed	Lake Kokanee	16	not an injunction barrier	resident trout only	6/30/2015	Y
995913	SR 119	5.66	unnamed	Lk Cushman	16	added to injunction barrier list	newly identified barrier - limited gain	6/30/2015	N
933500	SR 119	9.38	Big Cr	Lake Cushman	16	added to injunction barrier list	newly identified barrier - significant gain	3/1/2018	N
999584	US 101	308.74	unnamed	Hood Canal	16	not an injunction barrier	resident trout only	11/4/2013	Y
995935	US 101	310.27	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier - limited gain	2/3/2017	N
991615	US 101	317.45	unnamed	Hood Canal	16	not an injunction barrier	resident trout only	10/18/2014	Y
933494	US 101	334.30	unnamed	Hood Canal	16	not an injunction barrier	culvert determined to not be a barrier	7/11/2019	N
933494	US 101	334.47	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier - limited gain	3/20/2017	N
996367	US 101	334.74	unnamed	Hood Canal	16	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Y
990375	SR 104	10.36	Shine Cr	Hood Canal	17	not an injunction barrier	barrier corrected	10/2/2023	Y
990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	added to injunction barrier list	newly identified barrier - significant gain	10/28/2015	N
990943	SR 116	4.67	Kilisut Harbor	Oak Harbor	17	added to injunction barrier list	newly identified barrier - significant gain	11/15/2013	N
990943	SR 116	4.67	Kilisut Harbor	Oak Harbor	17	not an injunction barrier	barrier corrected	10/12/2020	N
990711	SR 19	4.30	Swansonville Cr	EF Chimacum Cr	17	not an injunction barrier	barrier corrected	10/2/2023	Y
994464	US 101	269.45	unnamed	Sequim Bay	17	added to injunction barrier list	newly identified barrier - significant gain	5/8/2017	N
990107	US 101	270.57	Dean Cr	Sequim Bay	17	added to injunction barrier list	newly identified barrier - significant gain	8/13/2019	N
990134	US 101	274.25	Eagle Cr	Strait of Juan de Fuca	17	not an injunction barrier	barrier corrected	10/2/2023	Y
932502	US 101	281.69	unnamed	Discovery Bay	17	added to injunction barrier list	newly identified barrier - significant gain	11/15/2023	N
995496	US 101	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	N
991673	US 101	285.70	Andrews Cr	Snow Cr	17	added to injunction barrier list	newly identified barrier - significant gain	3/2/2018	N
990896	US 101	290.35	unnamed	Leland Cr	17	not an injunction barrier	barrier corrected	10/31/2023	Y
930373	US 101	291.73	unnamed	Leland Cr	17	added to injunction barrier list	newly identified barrier - limited gain	3/2/2018	N
995502	US 101	291.79	unnamed	Leland Cr	17	not an injunction barrier	barrier corrected	10/31/2023	Y
990241	US 101	292.52	Leland Cr	Little Quilcene R	17	not an injunction barrier	barrier corrected	10/31/2023	Y
995760	US 101; NB onramp	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	N
995805	SR 117	1.20	Tumwater Cr	Port Angeles Harbor	18	added to injunction barrier list	newly identified barrier - significant gain	9/27/2023	N
995813	US 101	235.07	unnamed	Indian Cr	18	added to injunction barrier list	newly identified barrier - significant gain	2/8/2024	N
18.0283 2.00	US 101	238.35	Indian Cr	Elwha R	18	not an injunction barrier	barrier corrected	10/31/2023	Y
995823	US 101	239.31	unnamed	Indian Cr	18	added to injunction barrier list	newly identified barrier - significant gain	7/10/2017	N
990021	US 101	253.84	Bagley Cr	Strait of Juan de Fuca	18	not an injunction barrier	barrier corrected	12/6/2021	Y
18.0173 2.40	US 101	256.10	Siebert Cr	Strait of Juan de Fuca	18	not an injunction barrier	barrier corrected	12/6/2021	Y
990555	US 101	259.79	Owl Cr	Matriotti Cr	18	not an injunction barrier	barrier corrected	10/22/2014	Y
18.0021 5.40	US 101	260.93	Matriotti Cr	Dungeness R	18	not an injunction barrier	barrier corrected	10/13/2017	Y
933369		263.43	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	added to injunction barrier list	newly identified barrier - significant gain	12/28/2015	N
995551	US 101	263.68	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	added to injunction barrier list	newly identified barrier - significant gain	6/23/2015	N

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List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
934250	US 101 ROW	253.84	unnamed	Bagley Creek	18	added to injunction barrier list	newly identified barrier - significant gain	1/4/2018	N
932888	US 101; off-ramp	246.18	unnamed	Tumwater Cr	18	added to injunction barrier list	newly identified barrier - significant gain	4/13/2017	N
934250	US 101; ROW	253.84	unnamed	Bagley Cr	18	not an injunction barrier	barrier corrected	12/6/2021	N
990387	SR 112	0.72	Snow Cr	Strait of Juan de Fuca	19	added to injunction barrier list	newly identified barrier - significant gain	5/14/2022	N
990205	SR 112	5.17	Jansen Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/20/2016	Y
991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/26/2018	Y
996686	SR 112	17.55	unnamed	Clallam R	19	added to injunction barrier list	newly identified barrier - significant gain	9/26/2023	N
996696	SR 112	22.88	unnamed	Green Cr	19	added to injunction barrier list	newly identified barrier - limited gain	10/15/2023	N
991737	SR 112	27.53	unnamed	Pysht R	19	added to injunction barrier list	newly identified barrier - significant gain	10/22/2023	N
990214	SR 112	33.21	Joe Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/20/2016	Y
996523	SR 112	42.52	unnamed	Murdock Cr	19	added to injunction barrier list	newly identified barrier - significant gain	1/31/2024	N
990144	SR 112	48.49	Field Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/20/2016	Y
991693	SR 112	50.73	unnamed	Whiskey Cr	19	not an injunction barrier	culvert determined to not be a barrier	6/26/2022	Y
996539	SR 112	51.53	Itsa Cr	Uphtha Cr	19	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	N
991660	SR 112	52.90	Nordstrom Cr	Salt Cr	19	not an injunction barrier	barrier corrected	10/13/2017	Y
990092	SR 112	57.61	Coville Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/31/2013	Y
996563	SR 113	6.55	unnamed	unnamed Pysht R trib	19	not an injunction barrier	resident trout only	2/13/2023	Y
991565	US 101	221.00	unnamed	Lk Crescent	19	not an injunction barrier	resident trout only	5/8/2015	Y
996391	US 101	222.11	Eagle Cr	Lk Crescent	19	not an injunction barrier	resident trout only	5/8/2015	Y
996398	US 101	226.24	Smith Cr	Lk Crescent	19	not an injunction barrier	resident trout only	5/7/2015	Y
990400	US 101	162.60	Steamboat Cr	Pacific Ocean	20	not an injunction barrier	barrier corrected	9/19/2022	Y
934255	US 101	167.52	unnamed	Fletcher Cr	20	added to injunction barrier list	newly identified barrier - limited gain	7/17/2018	N
996228	US 101	169.24	unnamed	Braden Cr	20	added to injunction barrier list	newly identified barrier - significant gain	3/2/2018	Y
990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	N
997051	US 101	169.89	unnamed	unnamed tributary to Braden Creek tributary	20	added to injunction barrier list	newly identified barrier - limited gain	3/7/2018	N
990553	US 101	170.12	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier - significant gain	3/2/2018	N
997053	US 101	170.87	unnamed	unnamed to Hoh R trib	20	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	N
997055	US 101	174.43	unnamed	Hoh R	20	not an injunction barrier	stream determined to be non-fish bearing	8/30/2021	Y
991647	US 101	175.45	unnamed	Hoh R	20	not an injunction barrier	barrier corrected	10/23/2020	Y
997063	US 101	176.55	unnamed	Hoh R	20	not an injunction barrier	resident trout only	1/3/2023	Y
997071	US 101	177.80	unnamed	unnamed Hoh R trib	20	not an injunction barrier	stream determined to be non-fish bearing	1/4/2023	Y
997072	US 101	177.97	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	resident trout only	1/21/2014	Y
991595	US 101	178.09	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	resident trout only	1/21/2014	Y
991589	US 101	178.30	unnamed	Hell Roaring Cr	20	not an injunction barrier	resident trout only	1/21/2014	Y
991590	US 101	178.63	unnamed	Hell Roaring Cr	20	not an injunction barrier	resident trout only	1/21/2014	Y
991591	US 101	179.13	unnamed	Hell Roaring Cr	20	not an injunction barrier	resident trout only	1/21/2014	Y
991592	US 101	179.57	Hell Roaring Cr	Hoh R	20	not an injunction barrier	resident trout only	1/21/2014	Y

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List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
997078	US 101	179.73	unnamed	Hell Roaring Cr	20	not an injunction barrier	resident trout only	1/21/2014	Y
991593	US 101	180.20	unnamed	EF Hell Roaring Cr	20	not an injunction barrier	resident trout only	1/21/2014	Y
997082	US 101	183.44	unnamed	Dowans Cr	20	not an injunction barrier	stream determined to be non-fish bearing	7/21/2014	N
990156	US 101	186.41	unnamed	Bogachiel R	20	not an injunction barrier	culvert determined to not be a barrier	3/21/2017	Y
991515	US 101	187.79	unnamed	Bogachiel R	20	not an injunction barrier	resident trout only	1/16/2014	Y
933421	US 101	189.05	unnamed	Grader Cr	20	added to injunction barrier list	newly identified barrier - significant gain	1/26/2016	N
933421	US 101	189.05	unnamed	Grader Cr	20	not an injunction barrier	duplicate record	4/21/2023	N
20.0312 0.60	US 101	197.10	Swanson Cr	Soleduck R	20	not an injunction barrier	barrier corrected	12/20/2016	Y
933682	US 101; ROW	175.77	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier - significant gain	3/22/2016	N
990919	SR 109	17.81	unnamed	Connor Cr	21	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	N
990138	SR 109	28.05	Elk Cr	Pacific Ocean	21	not an injunction barrier	culvert determined to not be a barrier	7/18/2019	Y
990544	US 101	132.16	unnamed	unnamed Ten O Clock Cr trib	21	not an injunction barrier	resident trout only	7/16/2019	Y
990252	US 101	136.45	Cedar Cr	Raft R	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
990455	US 101	136.70	unnamed	Cedar Cr	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
990547	US 101	136.90	unnamed	Cedar Cr	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
990456	US 101	137.82	unnamed	Crane Cr	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
997338	US 101	140.08	unnamed	NF Raft R	21	added to injunction barrier list	newly identified barrier - significant gain	7/1/2021	N
990548	US 101	142.48	Harlow Cr	Queets R	21	added to injunction barrier list	newly identified barrier - significant gain	1/9/2014	N
990457	US 101	142.68	Harlow Cr	Queets R	21	added to injunction barrier list	newly identified barrier - significant gain	1/9/2014	N
990178	US 101	146.85	Harlow Cr	Queets R	21	not an injunction barrier	barrier corrected	10/23/2020	Y
990148	US 101	147.49	Fisher Cr	Queets R	21	not an injunction barrier	barrier corrected	9/24/2020	Y
990722	US 101	154.88	unnamed	Pacific Ocean	21	not an injunction barrier	resident trout only	7/21/2020	Y
990550	US 101	154.90	unnamed	Pacific Ocean	21	not an injunction barrier	resident trout only	7/21/2020	Y
997355	US 101	155.80	unnamed	Pacific Ocean	21	not an injunction barrier	resident trout only	8/19/2014	Y
991301	SR 105	31.38	unnamed	South Bay	22	not an injunction barrier	not a culvert feature	2/3/2014	Y
993010	SR 105	34.02	unnamed	unnamed South Bay trib	22	added to injunction barrier list	newly identified barrier - significant gain	9/28/2020	N
994785	SR 105	46.39	unnamed	unnamed	22	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Y
933360	SR 107	4.34	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier - significant gain	1/25/2016	N
933361	SR 107 ROW	4.31	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier - significant gain	1/25/2016	N
990916	SR 109	11.61	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - significant gain	7/18/2019	N
990917	SR 109	11.66	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - significant gain	7/18/2019	N
993722	SR 8	1.02	unnamed	Cloquallum Cr	22	added to injunction barrier list	newly identified barrier - significant gain	12/5/2018	N
22.0507 0.10	SR 8	5.00	MF Wildcat Cr	EF Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018	Y
990133	SR 8	6.30	EF Wildcat Cr	Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018	Y
992004	SR 8	7.27	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - significant gain	7/2/2019	N
992005	SR 8	7.34	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - significant gain	7/2/2019	N
993673	US 101	84.15	unnamed	Chehalis R	22	not an injunction barrier	not a culvert feature	2/3/2014	Y
993680	US 101	90.96	unnamed	Hoquiam R	22	added to injunction barrier list	newly identified barrier - significant gain	12/31/2017	N

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Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
993688	US 101	92.33	unnamed	WF Hoquiam R	22	added to injunction barrier list	newly identified barrier - significant gain	7/25/2018	N
993702	US 101	98.47	unnamed	WF Hoquiam R	22	not an injunction barrier	barrier corrected	10/2/2023	Y
993704	US 101	99.45	unnamed	WF Hoquiam R	22	not an injunction barrier	barrier corrected	10/2/2023	Y
990730	US 101	100.70	unnamed	unnamed SB Big Cr trib	22	not an injunction barrier	barrier corrected	10/2/2023	Y
990033	US 101	102.97	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier - significant gain	3/1/2018	N
990033	US 101	102.97	unnamed	Big Cr	22	not an injunction barrier	barrier corrected	10/31/2023	N
991501	US 101	103.65	unnamed	Big Cr	22	not an injunction barrier	barrier corrected	10/31/2023	Y
991581	US 101	104.92	unnamed	Fairchild Cr	22	added to injunction barrier list	newly identified barrier - significant gain	5/28/2022	N
990175	US 101	106.51	Hansen Cr	Humtullips R	22	added to injunction barrier list	newly identified barrier - significant gain	7/2/2019	N
993714	US 101	107.42	Mopang Cr	Big Cr	22	not an injunction barrier	culvert determined to not be a barrier	3/2/2018	Y
990731	US 101	111.34	unnamed	Stevens Cr	22	not an injunction barrier	barrier corrected	10/31/2023	Y
993712	US 101	103.27	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	N
990485	US 12	0.61	Wilson Cr	Chehalis R	22	added to injunction barrier list	newly identified barrier - significant gain	1/31/2018	N
991910	US 12	6.55	unnamed	Higgins Sl	22	added to injunction barrier list	newly identified barrier - significant gain	12/16/2015	N
991909	US 12	6.56	unnamed	unnamed Higgins Sl trib	22	not an injunction barrier	resident trout only	12/5/2018	Y
994791	US 12	9.04	unnamed	Wynoochee R	22	not an injunction barrier	barrier corrected	10/19/2018	Y
22.0349	0.70	12.36	Camp Cr	Metcaif Sl	22	added to injunction barrier list	newly identified barrier - significant gain	9/18/2017	N
933616	US 12	17.56	unnamed	Wenzel Sl	22	added to injunction barrier list	newly identified barrier - significant gain	4/13/2017	N
994798	US 12	20.34	McDonald Cr	Vance Cr	22	added to injunction barrier list	injunction barrier requiring repair. Add to significant gain list	7/20/2023	N
995538	I-5	71.34	unnamed	unnamed Newaukum R trib	23	not an injunction barrier	stream determined to be non-fish bearing	2/26/2024	Y
991040	I-5	86.20	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	N
990028	I-5	94.96	Beaver Cr	Black R	23	added to injunction barrier list	newly identified barrier - significant gain	12/8/2020	N
991659	I-5	98.11	unnamed	Salmon Cr	23	added to injunction barrier list	newly identified barrier - significant gain	4/13/2017	N
990962	SR 121	4.04	Blooms Ditch	Black R	23	not an injunction barrier	barrier corrected	12/20/2016	Y
343040	SR 121	4.10	unnamed	Blooms Ditch	23	not an injunction barrier	barrier corrected	12/20/2016	Y
343041	SR 121	4.84	Hopkins Ditch	Salmon Cr	23	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	N
991662	SR 507	15.71	unnamed	unnamed Scatter Cr trib	23	added to injunction barrier list	newly identified barrier - significant gain	8/22/2019	N
935446	SR 507	15.95	unnamed	unnamed Scatter Cr trib	23	added to injunction barrier list	newly identified barrier - significant gain	7/26/2023	N
991755	SR 508	3.50	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	11/22/2016	Y
994967	SR 508	5.75	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	3/30/2017	Y
990735	SR 6	22.64	Salmon Cr	Rock Cr	23	not an injunction barrier	barrier corrected	12/20/2019	Y
990741	SR 6	29.00	unnamed	Chehalis R	23	not an injunction barrier	culvert determined to not be a barrier	2/6/2023	Y
990744	SR 6	31.06	SB Fronia Cr	Fronia Cr	23	not an injunction barrier	barrier corrected	12/20/2019	Y
990746	SR 6	31.08	Fronia Cr	Chehalis R	23	not an injunction barrier	barrier corrected	12/18/2019	Y
990755	SR 6	34.85	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - significant gain	8/4/2016	N
990405	SR 6	36.21	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - limited gain	11/22/2019	N
990534	SR 6	40.53	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016	Y



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990761	SR 6	41.70	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016	Y
991544	SR 6	46.29	unnamed	Chehalis R	23	not an injunction barrier	barrier corrected	10/16/2021	Y
991757	SR 6	46.50	unnamed	Chehalis R	23	not an injunction barrier	barrier corrected	10/16/2021	Y
990952	US 12	34.40	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - significant gain	10/18/2022	N
990563	US 12	36.33	Roundtree Cr	Harris Cr	23	added to injunction barrier list	newly identified barrier - significant gain	10/15/2018	N

**Notes on Appendix II**

Four sites (GR43, 996290, 994440, and 996915) were original injunction barriers that were removed from the list, and then later re-added. Therefore, these four sites are listed in Appendix II but not included in the total count of sites removed or added.

One site (933421) was a duplicate record and is listed in Appendix II as a site added and a site removed, but is not included in the total count of sites added or removed.

Two sites (102 Q058 and 996320), were duplicate records and are listed in Appendix II as sites removed, but they are not included in the total count of sites removed.

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# Appendix III

## Fish Passage Barrier Correction Monitoring Plan

## Monitoring WSDOT Fish Passage Barrier Corrections

Federal Court Injunction No.C70-9214, signed by U.S. District Judge Ricardo S. Martinez on March 29<sup>th</sup>, 2013 requires long-term monitoring of fish passage barrier corrections. Monitoring Implementation Guidelines were agreed upon and finalized by state agencies and tribal nations on September 16, 2015. In addition to monitoring required by the injunction, the Army Corp of Engineers has authority to require long term monitoring under the Clean Water Act Section 404 and Rivers & Harbors Act Section 10 Permits. The Washington Department of Fish and Wildlife (WDFW) has authority to require long term monitoring as a provision of a Hydraulic Project Approval (HPA) issued for a WSDOT fish passage barrier correction project if the design is an alternative to the methodologies approved by the department. WSDOT proposes to use the standardized monitoring protocol to meet those monitoring requirements as we use for injunction area projects. This will ensure consistency and efficiency. WSDOT headquarters Environmental Services Office (ESO) and Hydraulics office have developed a Monitoring Plan to evaluate how each site compares to performance standards through time. Per the Injunction, methodology to determine fish passage is derived from the *Fish Passage Inventory, Assessment, and Prioritization Manual*, WDFW 2019. This plan satisfies all state and federal requirements for post-project monitoring of WSDOT owned fish passage barrier corrections within WSDOT right-of-way.

### Monitoring Approach

Prior to beginning field work, monitoring staff gather historic information from the WSDOT Fish Passage database- Fish Passage Site Management (FPSM). From the data and comments included in FPSM, staff will assemble the following:

- Site location: latitude and longitude coordinates, State Route (SR) and Milepost (MP)
- Waterbody information: Stream name, channel width
- Critical Safety Information (if special conditions apply)
- Fence/Gate Access Directions (if applicable)

Additionally, staff will compile recent pertinent information about the sites that include:

- HPA issued by WDFW
- Permit drawings: proximity map and design drawings that were submitted with and named in the HPA.
- Final Hydraulic Design Report and As-built plan set if available

### Monitoring Time Frame

Fish passage corrections are monitored at the following time periods:

- Post Construction Inspection - follows the completion of in-water work and effort is made to complete this evaluation before the contractor has left the site
- Year 1 Evaluation - occurs after the first winter following completion of initial construction or subsequent repairs
- Long-Term Evaluations - 5 and 10 years after construction
- Additional Monitoring – ad hoc at the discretion of the WSDOT biologist

## Monitoring Parameters

Post Construction Evaluation- Sites are evaluated to ensure that they comply with the permitted designs. The following project elements are compared against the plan set defined in the HPA:

- Culvert or bridge span
- Culvert rise and length
- Culvert or bridge type
- Streambed mix
- Streambed shape
- Streambed slope
- Other design features (LWM, coarse bands, barbs, pre-formed pools, etc.) identified in the design
- In addition, channel assessment protocols described in the Year 1 Evaluation will also be assessed at the Post Construction interval.

Year 1 Evaluation – Projects are assessed after the first winter to evaluate the impact of higher seasonal flows. The following parameters are used to determine if the individual project continues to provide fish passage and stream function:

- Has the site experienced a bankfull event?
- Streambed material: Is there streambed material throughout the project limits? How does the material compare to the common condition?
- Measure freeboard at inlet and outlet: Is the streambed aggrading or scouring?
- Is there unusual subsurface flow compared to the common condition?
- Compare water depth throughout the project limits and compare to common condition.
- Thalweg: Does a low-flow channel exist through the entire length of the project limits? How does it compare to the common condition?
- Channel location: Is the channel flowing predominately along the edge of the structure? What percentage of channel is along the edge of the structure? Alternating sides?
- Channel width: How wide is the stream channel bed compared to the design channel and the common condition?
- Measure streambed slope upstream, throughout, and downstream of the project and compare project slope to common condition
- Other design features (LWM, coarse bands, barbs, pre-formed pools, etc.): Are these features functioning as intended in the design?
- Hydraulic drops: Are there hydraulic drops and, if present, how do they compare to the original design, previous monitoring assessments, and natural channel?
- Photograph the major project elements
- Evaluate project limits for fish passage and stream function and note any risks to stream continuity

Long-Term Evaluations - Sites are evaluated 5 and 10 years after construction to determine whether the project still provides fish passage and stream function. Monitoring protocols described for the Year 1 Evaluation will be repeated to determine if the project still meets design expectations.

Additional Monitoring – Ad hoc evaluations can take place anytime between regular monitoring intervals at the discretion of the WSDOT biologist to reevaluate project performance based on responses recorded during a previous assessment or at the request of regional WSDOT staff or tribal biologists.



## **Actions Resulting from the Monitoring Process\***

Actions will be determined on a case-by-case basis and will involve one of the following solutions:

1. No Action Needed - The structure is providing fish passage and stream function. The responses to the monitoring standards are within the expected norms.
2. Increased Monitoring - The structure is providing fish passage and stream function. Some of the responses to the monitoring standards are outside the expected norms. This action is taken when stream function may naturally correct the substandard responses.
3. Repair - The structure is in danger of losing fish passage or stream function or has lost fish passage but can be restored by activities within the scope of maintenance work. This may be initiated at any time, after a time of increased monitoring, or after a site-specific meeting with the Tribes.
4. Modifications - The structure has lost fish passage and stream function but can be restored with a modification to the project site. Modifications are beyond maintenance as they change a portion of the original design elements. This may be initiated at any time, after a time of increased monitoring, or after a site-specific meeting with the Tribes.
5. Add to newly identified barrier list and repair - The structure has lost fish passage and stream function and can only be repaired through complete replacement of the structure.

\*Language taken directly from the Injunction Implementation Guidelines. WSDOT applies Actions 1-4 to the entire project length. Repair is considered at risk of losing either fish passage or stream function. Modification is considered having lost fish passage or stream function.

## **Documenting Results**

Summary results of the Fish Passage Monitoring are available in the annual *WSDOT Fish Passage Performance Report* posted online at <https://wsdot.wa.gov/construction-planning/protecting-environment/fish-passage>

WSDOT staff can access monitoring data through our internal Fish Passage database <http://webapps.wsdot.loc/Environmental/Biology/FishPassage/>

Parties external to WSDOT can access monitoring reports online via an interactive web map [www.tinyurl.com/wsdotfishpassage](http://www.tinyurl.com/wsdotfishpassage)

Direct questions about Monitoring to:

Tammy Schmidt, WSDOT Fish Passage Monitoring and Performance Coordinator  
[Tammy.Schmidt@wsdot.wa.gov](mailto:Tammy.Schmidt@wsdot.wa.gov) 360.705.7475

Susan Kanzler, WSDOT Environmental Services / Stream Restoration Program Manager  
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Last updated 11/15/2023

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# Appendix IV

## Monitoring Results

**Appendix IV. Monitoring Results - 2023 Inspections**

List sorted by WRIA, Road, and Milepost

WRIA	WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Date	Injunction	Comments	Results
1	NW	994233	5	250.55	Padden Cr	Over-Winter	5/22/2023	yes		Passed
1	NW	990581	11	18.65	Hoag's Cr	Increased Monitoring	11/28/2023	yes	Modification installed summer 2022 - monitor for effectiveness	Proposed for Re-repair
1	NW	994386	11	21.08	Padden Cr	Increased Monitoring	7/31/2023	yes	Check subsurface flow/aggradation in culvert	Proposed for Modification
1	NW	991473	539	11.1	Duffner Ditch	Post-Construction	10/18/2023	yes		Passed
1	NW	990014	542	3.45	Squalicum Cr	Post-Construction	10/18/2023	yes		Passed
1	NW	990187	542	32	Hedrick Cr	Year 5	5/23/2023	yes		Passed
1	NW	996168	544	3.51	Four Mile Cr trib	Post-Construction	9/21/2023	yes		Passed
1	NW	931144	546	0.17	Duffner Ditch	Over-Winter	5/22/2023	yes		Passed
1	NW	990510	546	0.42	Double Ditch	Over-Winter	5/22/2023	yes		Passed
1	NW	996161	546	0.46	Pepin	Over-Winter	5/22/2023	yes		Passed
1	NW	990223	546	4.21	Kamm Cr	Over-Winter	5/22/2023	yes		Passed
3	NW	990641	9	40.08	Lake Cr	Over-Winter	5/8/2023	yes		Passed
3	NW	990091	9	41.04	Norway Park Cr	Over-Winter	5/8/2023	yes		Increased Monitoring
3	NW	991120	9	42.36	Lake Cr	Increased Monitoring	5/8/2023	yes		Passed/Resume Schedule
3	NW	991122	9	48	Gribble Cr	Year 5	5/8/2023	yes		Passed
3	NW	991448	9	67.33	NP Creek	Year 10	5/23/2023	yes		Passed
3	NW	991142	20	69.08	Red Cr trib	Post-Construction	10/18/2023	yes		Passed
3	NW	CR2	534	0.53	Carpenter Cr trib	Post-Construction	9/21/2023	yes		Passed
3	NW	995265	534 ROW	0.6	Carpenter Cr trib	Post-Construction	9/21/2023	yes	Abandoned/converted to stormwater	Passed
4	NW	JK2	20	91.3	Skagit R trib	Over-Winter	7/31/2023	yes		Passed
4	NW	994308	20	94.47	Skagit R trib	Post-Construction	7/12/2023	yes		Passed
5	NW	991159	530	24.65	Trafton Cr	Increased Monitoring	7/12/2023	yes	Recheck channel modification	Continue increased monitoring
7	NW	935067	9	13.79	Centennial Cr	Over-Winter	5/8/2023	no		Increased Monitoring
7	NW	990236	18	27.57	Lake Cr	Post-Construction	10/16/2023	yes		Passed
7	NW	990233	92	2.73	Little Pilchuck Cr	Year 5	5/8/2023	yes		Passed
7	NW	991717	203	4.98	Langlois Cr	Year 5	6/26/2023	yes		Passed
7	NW	995167	203	7.26	Horseshoe Lk trib	Post-Construction	10/16/2023	yes		Passed
8	NW	996475	90	17	NF Issaquah Cr trib	Year 5	6/26/2023	yes	Carried over from 2022	Passed
8	NW	102 N183	96	0.47	North Cr	Post-Construction	11/6/2023	yes		Increased Monitoring
8	NW	996492	169	17.92	Cedar R trib	Increased Monitoring	12/26/2023	yes		Passed/Resume Schedule
8	NW	102 L062	202	0.1	Little Bear Cr	Year 5	6/26/2023	yes		Previously proposed for Repair
8	NW	994705	520	6.44	SF Yarrow Creek	Year 10	5/24/2023	yes		Passed
8	NW	996928	522	9.66	Horse Cr	Increased Monitoring	12/26/2023	yes	Recheck channel shape/water depth for returning adults	Proposed for Repair
8	NW	102 L020	524	12.44	Great Dane Cr	Year 5	5/23/2023	yes	Recheck culvert interior at low flow.	Increased Monitoring
8	NW	991842	900	15.86	Green Cr	Year 5	6/26/2023	yes	Carried over from 2022	Previously proposed for Modification

**Appendix IV. Monitoring Results - 2023 Inspections**

List sorted by WRIA, Road, and Milepost

WRIA Region	Site ID	Road	Milepost	Stream	Monitoring Type	Date	Injunction	Comments	Results
8 NW	996963 LX	90:WB ramp	17.11	NF Issaquah Cr	Year 5	6/26/2023	yes	Carried over from 2022	Previously proposed for Repair
8 NW	934731	n/a	n/a	UNT Lake Wa trib	DB Compliance	11/16/2023	no	Eastside Rail Corridor	Passed
8 NW	934730	n/a	n/a	Lake Wa trib	DB Compliance	11/16/2023	no	Eastside Rail Corridor	Passed
8 NW	932411	n/a	n/a	Juanita Cr trib	DB Compliance	11/16/2023	no	Woods Lake Apt driveway	Passed
9 NW	991202	167	26.1	Rolling Hills Cr	Year 5	5/24/2023	yes		Passed
9 NW	997695	169	9.95	Ravensdale Cr	Over-Winter	6/13/2023	yes		Passed
9 NW	991191	516	0.43	Barnes Cr	Post-Construction	11/1/2023	yes		Passed
10 OL	991215	162	4.82	Ball Creek	Year 10	5/17/2023	yes		Passed
11 OL	991225	7	37.5	South Cr trib	Post-Construction	11/2/2023	yes		Passed
11 OL	990688	7	38.12	South Cr trib	Post-Construction	11/2/2023	yes		Passed
11 OL	990297	7	41.17	Muck Creek	Year 10	5/17/2023	yes		Passed
14 OL	115 MC093	101	346.95	Coffee Cr	Increased Monitoring	8/2/2023	yes	Year 3	Continue Increased Monitoring
14 OL	990450	106	12.3	Twanoh Cr	Post-Construction	10/11/2023	yes		Passed
14 OL	991246	106	15.53	Twanoh Falls Creek	Year 10	5/31/2023	yes		Passed
14 OL	991237	108	5.5	Skookum Cr trib	Post-Construction	10/31/2023	yes		Passed
14 OL	990385	108	5.54	Skookum Cr	Post-Construction	10/31/2023	yes		Passed
14 OL	14.0021 0.30	108	11.9	Little Skookum Cr	Increased Monitoring	7/31/2023 and 12/7/2023	yes	Check water depth/channel definition in culvert	Continue Increased Monitoring
15 OL	996735	3	26.13	Mindy Cr trib	Year 5	9/26/2023	yes	Carried over from 2022	Previously proposed for Modification
15 OL	15.0051 0.10	302	11.44	Little Minter Cr	Over-Winter	6/5/2023	yes	Deformation of channel shape in culvert	Proposed for Repair
15 OL	15.0051 0.10	302	11.44	Little Minter Cr	Repair/Modify	9/12/2023	yes	Repair completed in Aug 2023	Increased Monitoring
15 OL	15.0051 0.20	302	11.5	Little Minter Cr	Over-Winter	6/5/2023	yes	Deformation of channel shape in culvert	Proposed for Repair
15 OL	15.0051 0.20	302	11.5	Little Minter Cr	Repair/Modify	9/12/2023	yes	Repair completed in Aug 2023	Increased Monitoring
15 OL	994325	305	3.44	Murden Cr	Post-Construction	11/8/2023	yes		Passed
15 OL	996794	3:SB ramp	41.08	Chico Cr trib	Over-Winter	5/30/2023	yes	Recheck channel shape through culvert in 2024	Increased Monitoring
15 OL	991907	3:SB ramp	41.08	Chico Cr trib	Post-Construction	11/8/2023	yes		Passed
15 OL	990345	302 Spur	15.8	Purdy Cr	Post-Construction	11/8/2023	yes		Passed
17 OL	990711	19	4.3	Swansonville Cr	Post-Construction	10/2/2023	yes		Passed
17 OL	990134	101	274.25	Eagle Cr	Post-Construction	10/2/2023	yes		Passed
17 OL	990896	101	290.35	Leland Cr trib	Post-Construction	9/20/2023	yes		Passed
17 OL	995502	101	291.79	Leland Cr trib	Post-Construction	9/20/2023	yes		Passed
17 OL	990241	101	292.52	Leland Cr	Post-Construction	9/20/2023	yes		Passed
17 OL	990375	104	10.36	Shine Cr	Post-Construction	10/2/2023	yes		Passed
18 OL	18.0283 2.00	101	238.35	Indian Cr	Post-Construction	5/15/2023	yes		Passed



**Appendix IV. Monitoring Results - 2023 Inspections**

List sorted by WRIA, Road, and Milepost

WRIA	WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Date	Injunction	Comments	Results
18	OL	18.0021	540 101	260.93	Matriotti Cr	Year 5	10/2/2023	yes	Carried over from 2022	Previously proposed for Modification
18	OL	934250	101 ROW	253.84	Bagley Cr trib	Increased Monitoring	10/2/2023	yes	Check WSD at tie in and loss of channel shape in culvert	Proposed for Modification
19	OL	991739	112	7.35	Olsen Cr	Year 5	5/9/2023	yes		Passed
19	OL	990092	112	57.61	Coville Creek	Year 10	5/9/2023	yes		Passed
19	OL	996044	112 ROW	57.61	Coville Creek	Year 10	5/9/2023	yes		Passed
20	OL	990400	101	162.6	Steamboat Cr	Over-Winter	10/4/2023	yes		Passed
21	OL	990148	101	147.49	Fisher Cr	Increased Monitoring	10/4/2023	yes	Monitor channel shape and potential sub flow under bridge	Proposed for Repair
22	OL	22.0507	0.10 8	5	MF Wildcat Cr	Year 5	5/31/2023	yes		Previously proposed for Repair
22	OL	990133	8	6.3	EF Wildcat Cr	Year 5	5/31/2023	yes		Passed
22	OL	994791	12	9.04	Wynoochee trib	Year 5	5/24/2023	yes		Passed
22	OL	993702	101	98.47	WF Hoquiam R trib	Post-Construction	9/19/2023	yes		Passed
22	OL	993704	101	99.45	WF Hoquiam R trib	Post-Construction	9/19/2023	yes		Passed
22	OL	990730	101	100.7	UNT to SB Big Cr trib	Post-Construction	9/19/2023	yes		Passed
22	OL	990033	101	102.97	Big Cr trib	Post-Construction	10/4/2023	yes		Passed
22	OL	991501	101	103.65	Big Cr trib	Post-Construction	10/4/2023	yes		Passed
22	OL	990731	101	111.34	Stevens Cr trib	Post-Construction	10/4/2023	yes		Passed
24	OL	993138	105	24.39	Seastrand Cr	Year 10	5/18/2023	no	Determined non-jurisdictional. Site changed to NFB	NFB
26	SW	992228	12	115.29	Cowlitz R trib	Year 10	12/28/2023	no		Passed
26	SW	991634	504	17	Wooster Cr	Increased Monitoring	12/28/2023	no		Passed/Resume Schedule
26	SW	991634	504	17	Wooster Cr	Year 5	12/28/2023	no		Passed
30	SW	932550	142	23.66	Little Klickitat R trib	Year 10	5/2/2023	no		Passed
39	SC	992942	90	56.81	Rocky Run Cr	Year 10	8/23/2023	no		Increased Monitoring
39	SC	992948	90	60.3	Townsend Cr	Year 5	8/23/2023	no		Passed
39	SC	992950	90	61.3	Price Cr	Year 5	8/23/2023	no		Passed
39	SC	992951	90	61.4	Noble Cr	Year 5	8/23/2023	no		Passed
39	NC	990413	97	159.26	Swauk Cr	Year 5	8/30/2023	no		Passed
45	NC	991849	2	88.54	Skinney Cr	Year 10	8/30/2023	no		Passed
45	NC	992763	97	165.57	Tronson Cr trib	Year 5	8/30/2023	no		Passed

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# Appendix V

## WSDOT Fish Passage Barrier Corrections Completed

### Appendix V. WSDOT Barrier Corrections Completed

List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
OL	990480	SR 112	49.48	Whiskey Cr	Strait of Juan de Fuca	19	Clallam	1955	
OL	14.0010	US 101	356.8	Countyline Cr	Schneider Cr	14	Mason	1985	
NW	08.0049	I-5; NB off-ramp	177.67	McAleer Cr	Lake Washington	8	King	1986	
OL	14.0009A	US 101	357.9	Holiday Valley Cr	Schneider Cr	14	Thurston	1986	
NW	03.0354A	SR 20	77.7	Little Careys Cr	Careys Cr	3	Skagit	1987	
NW	996965	I-90	20.42	unnamed	EF Issaquah Cr	8	King	1990	
OL	990448	US 101	246.4	Tumwater Cr	Port Angeles Harbor	18	Clallam	1991	19,991
NW	990142	SR 202	11.96	Evans Cr	Bear Cr	8	King	1992	319,044
OL	990323	SR 3	33.7	Parish Cr	Gorst Cr	15	Kitsap	1992	14,835
SW	990171	SR 6	8.9	Green Cr	Willapa R	24	Pacific	1992	8,000
NW	995411	I-5	246.75	Chuckanut Cr	Puget Sound	1	Whatcom	1993	
NW	01.0626	SR 11	18.6	Chuckanut Cr	Chuckanut Bay	1	Whatcom	1993	68,788
NW	991712	US 2	17.94	unnamed	Skykomish R	7	Snohomish	1993	60,000
OL	15.0280	SR 308	1.15	Big Scandia Cr	Liberty Bay	15	Kitsap	1993	
NW	08.0302	SR 169	23.62	Maplewood Cr	Cedar R	8	King	1994	
NW	08.0077	SR 527	6.55	Penny Cr	North Cr	8	Snohomish	1994	
SW	990363	US 101	29.8	SF Nemah R	Willapa Bay	24	Pacific	1994	34,986
SC	990189	US 97	37.14	Highbridge Springs	Satus Cr	37	Yakima	1994	
NW	990644	SR 530	31.01	unnamed	NF Stillaguamish R	5	Snohomish	1995	
NW	991168	SR 530	31.9	unnamed	NF Stillaguamish R	5	Snohomish	1995	
NW	990272	SR 104	29.65	McAleer Cr	Lake Washington	8	Snohomish	1995	
NW	08.0070A	SR 527	4	Sulphur Springs Cr	North Cr	8	Snohomish	1995	
NW	08.0075	SR 527	4.46	Silver Cr No2	North Cr	8	Snohomish	1995	
NW	08.0070B	SR 527	6.32	Nickel Cr	North Cr	8	Snohomish	1995	
OL	996952	SR 160	3.8	Curley Cr	Sinclair Inlet	15	Kitsap	1995	
OL	990219	US 101	267.18	Johnson Cr	Sequim Bay	17	Clallam	1995	121,945
NW	991154	SR 530	55.07	Hatchery Cr	Sauk R	4	Skagit	1996	
NW	991153	SR 530	55.9	unnamed	Skagit R	4	Skagit	1996	
NW	990271	SR 530	29.63	McGovern Cr	NF Stillaguamish R	5	Snohomish	1996	
NW	991162	SR 530	31.2	unnamed	NF Stillaguamish R	5	Snohomish	1996	
NW	991164	SR 530	32.51	unnamed	NF Stillaguamish R	5	Snohomish	1996	
NW	991519	SR 18	19.59	unnamed	Carey Cr	8	King	1996	
NW	990064	SR 18	19.76	Carey Cr	Issaquah Cr	8	King	1996	
OL	990348	SR 112	3.99	Rasmussen Cr	Strait of Juan de Fuca	19	Clallam	1996	545,699
OL	990197	US 101	171.7	Huelsdonk Cr	Hoh R	20	Jefferson	1996	18,594
OL	990169	US 101	189.4	Grader Cr	Bogachiel R	20	Clallam	1996	189,964
NW	991155	SR 530	54.6	Lyle Cr	Sauk R	4	Skagit	1997	
NW	990390	SR 18	8.9	Soosette Cr	Big Soos Cr	9	King	1997	

### Appendix V. WSDOT Barrier Corrections Completed

List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
OL	990224	SR 3	57.1	Kinman Cr	Hood Canal	15	Kitsap	1997	365,902
OL	990164	US 101	186.3	Fuhrman Cr	Bogachiel R	20	Clallam	1997	
OL	990156	US 101	186.41	unnamed	Bogachiel R	20	Clallam	1997	
OL	990716	US 101	186.45	unnamed	Frakker Cr	20	Clallam	1997	
OL	991512	US 101	186.7	Forgotten Marsh	Fuhrman Cr	20	Clallam	1997	
OL	991581	US 101	104.92	unnamed	Fairchild Cr	22	Grays Harbor	1997	198,126
OL	990143	US 101	105.63	Fairchild Cr	Humtulpils R	22	Grays Harbor	1997	195,742
OL	22.0349	US 12	12.36	Camp Cr	Chehalis R	22	Grays Harbor	1997	
SW	992462	US 101	28.92	Roaring Cr Sl	Naselle R	24	Pacific	1997	
EA	990350	SR 20	388.13	Renshaw Cr	Pend Orielle R	62	Pend Oreille	1997	
EA	990351	SR 20	389.5	Renshaw Cr	Pend Orielle R	62	Pend Oreille	1997	
NW	05.0021	I-5	216.73	WF Church Cr	Church Cr	5	Snohomish	1998	17,101
NW	07.0383A	SR 202	13.8	Dry Cr	Patterson Cr	7	King	1998	
NW	101S-23	SR 203	7.83	unnamed	Harris Cr	7	King	1998	
NW	994239	SR 520; Access Rd	6.27	Yarrow Cr	Lake Washington	8	King	1998	
NW	997679	SR 509	24.42	Miller Cr	Puget Sound	9	King	1998	
OL	990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	Mason	1998	260,615
OL	991852	SR 303	6.9	Barker Cr	Dyes Inlet	15	Kitsap	1998	
OL	990121	SR 305	12.8	Dogfish Cr	Liberty Bay	15	Kitsap	1998	
OL	991502	US 101	101.13	unnamed	SB Big Cr	22	Grays Harbor	1998	250,899
OL	991532	US 12	13.84	Metcalf Sl	Smith Canal	22	Grays Harbor	1998	
SW	990119	SR 14	55.8	Dog Cr	Columbia R	29	Skamania	1998	
SW	990211	SR 14	66	Jewett Cr	Columbia R	29	Klickitat	1998	413,000
SW	990116	SR 142	5.2	Dillacort Cr	Klickitat R	30	Klickitat	1998	
EA	990250	SR 20	384.95	Lost Cr	Pend Orielle R	62	Pend Oreille	1998	
NW	990433	SR 900	19.5	Tibbetts Cr	Lake Sammamish	8	King	1999	147,000
OL	990249	US 101	174	Lost Cr	Hoh R	20	Jefferson	1999	
OL	991270	SR 109	36.43	unnamed	Pacific Ocean	21	Grays Harbor	1999	189,566
OL	991690	US 101	111.9	unnamed	Stevens Cr	22	Grays Harbor	1999	
SW	991698	US 101	24.11	unnamed	Willapa Bay	24	Pacific	1999	
SW	990035	SR 4	35.6	Birnie Cr	Columbia R	25	Wahkiakum	1999	67,570
SW	992272	I-5	42.4	unnamed	Cowlitz R	26	Cowlitz	1999	
SW	990948	US 12	127.44	Dry Cr	Cowlitz R	26	Lewis	1999	
NC	990149	SR 971	8.9	First Cr	Lake Chelan	47	Chelan	1999	287,000
NC	990145	SR 971	9.1	First Cr	Lake Chelan	47	Chelan	1999	287,000
NW	991708	SR 20	90.13	unnamed	Skagit R	4	Skagit	2000	
NW	990622	I-5	211.5	Secret Cr	Pilchuck Cr	5	Snohomish	2000	45,107
NW	990294	SR 528	2.51	Munson Cr	Allen Cr	7	Snohomish	2000	



**Appendix V. WSDOT Barrier Corrections Completed**

List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
NW	990262	SR 522	1.87	Maple Leaf Cr	Thornton Cr	8	King	2000	
NW	105 R071916a	SR 410	48.29	Boundary Cr	White R	10	Pierce	2000	
OL	990910	SR 106	6.95	Dalby Cr	Hood Canal	14	Mason	2000	
OL	990466	US 101	246.9	Valley Cr	Port Angeles Harbor	18	Clallam	2000	102,297
OL	991295	SR 105	31.11	unnamed	South Bay	22	Grays Harbor	2000	
SW	991684	SR 506	2.33	unnamed	Stillwater Cr	26	Lewis	2000	99,000
SC	990436	US 97	57.2	Toppenish Cr	Yakima R	37	Yakima	2000	
NC	980108	SR 153	29.27	Beaver Cr	Methow R	48	Okanogan	2000	765,461
EA	990881	SR 20	380.1	unnamed	Lake Thomas	59	Stevens	2000	
EA	992006	SR 21	172.17	Lambert Cr	Curlew Cr	60	Ferry	2000	
NW	DM10	SR 20	114.94	Damnation Cr	Skagit R	4	Skagit	2001	
OL	991797	SR 3	25.31	Sweetwater Cr	Hood Canal	15	Mason	2001	261,000
OL	991729	SR 112	19.56	unnamed	Clallam R	19	Clallam	2001	
OL	991545	SR 112	19.89	unnamed	Clallam R	19	Clallam	2001	
OL	991263	US 101	162.15	Big Cedar Cr	Pacific Ocean	20	Jefferson	2001	121,328
SW	990220	SR 4	4.5	Johnson Cr	Naselle R	24	Pacific	2001	269,000
SW	991397	SR 4	25.91	unnamed	Skamokawa R	25	Wahkiakum	2001	
SW	990036	SR 409	3.85	Birnie Cr	Columbia R	25	Wahkiakum	2001	322,000
SW	991440	SR 503	49.03	Kenyon Cr	NF Lewis R	27	Cowlitz	2001	224,000
SW	992271	SR 142	3.65	Knight Cr	Klickitat R	30	Klickitat	2001	
NC	990381	US 2	87.1	Skinney Cr	Chiwaukum Cr	45	Chelan	2001	480,000
NC	990382	US 2	87.67	Skinney Cr	Chiwaukum Cr	45	Chelan	2001	480,000
NC	990383	US 2	88.03	Skinney Cr	Chiwaukum Cr	45	Chelan	2001	480,000
EA	990312	SR 20	309.31	O'Brien Cr	Sanpoil R	52	Ferry	2001	302,000
EA	990299	SR 20	309.96	NF O'Brien Cr	O'Brien Cr	52	Ferry	2001	302,000
EA	990300	SR 20	310.1	NF O'Brien Cr	O'Brien Cr	52	Ferry	2001	302,000
NW	991741	SR 534	1.2	unnamed	Bulson Cr	3	Skagit	2002	790,555
NW	NC180	SR 9	39.69	unnamed	Lake McMurray	3	Skagit	2002	
NW	NC170	SR 9	39.87	unnamed	Lake McMurray	3	Skagit	2002	
NW	995398	SR 9	69.96	unnamed	Samish R	3	Whatcom	2002	
NW	990291	SR 530	44	Moose Cr	NF Stillaguamish R	5	Snohomish	2002	140,000
NW	990317	SR 530	44.27	Fink Cr	NF Stillaguamish R	5	Snohomish	2002	140,000
NW	990344	SR 9	28.38	Portage Cr	South Sl	5	Snohomish	2002	
NW	991166	SR 9	32.2	Bryant Cr	Armstrong Cr	5	Snohomish	2002	
NW	LP23	SR 9	35.46	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	2002	
NW	LP27	SR 9	35.52	unnamed	Pilchuck Cr	5	Snohomish	2002	
NW	LP28	SR 9	35.7	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	2002	
NW	990625	SR 9	38.57	unnamed	unnamed Pilchuck Cr trib	5	Skagit	2002	

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WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
NW	LP32	SR 9	38.69	unnamed	Pilhuck Cr	5	Skagit	2002	
NW	08.0268	I-405	10.12	Coal Cr	Lake Washington	8	King	2002	155,710
NW	993115	I-405	29.67	Martha Cr	Swamp Cr	8	Snohomish	2002	
NW	08.0110	SR 202	11.05	Rutherford Cr	Evans Cr	8	King	2002	
SW	990071	SR 401	8.8	Cement Cr	SF Naselle R	24	Pacific	2002	200,000
SC	990440	SR 241	9.17	unnamed	Sulphur Cr Wstwy	37	Yakima	2002	
SC	990409	SR 410	82.8	Wash Cr	American R	38	Yakima	2002	
NC	990202	US 97	158.32	Iron Cr	Swauk Cr	39	Kittitas	2002	
NW	995977	SR 20	25.77	unnamed	Penn Cove	6	Island	2003	
NW	101S-27	SR 203	12.76	Deer Cr	Snoqualmie R	7	King	2003	
NW	08.0183	I-90	17	EF Issaquah Cr	Issaquah Cr	8	King	2003	
NW	991189	SR 527	6.99	unnamed	North Cr	8	Snohomish	2003	
NW	995981	SR 9	0.81	Unnamed	Little Bear Cr	8	Snohomish	2003	
NW	991199	SR 167	23.65	Upper Springbrook Cr	Springbrook Cr	9	King	2003	
NW	990208	SR 18	12.7	Jenkins Cr	Big Soos Cr	9	King	2003	
NW	990209	SR 18	13.8	Jenkins Cr	Big Soos Cr	9	King	2003	
OL	161180	US 101	167.44	Fletcher Cr	Hoh R	20	Jefferson	2003	19,005
SW	990377	US 12	81.22	Silver Cr	Mayfield Lk	26	Lewis	2003	527,000
EA	990180	SR 21	155.06	Golden Harvest Cr	Sanpoil R	52	Ferry	2003	
NW	990434	SR 542	15.32	unnamed	Jim Cr	1	Whatcom	2004	
NW	995578	SR 542	44.14	unnamed	NF Nooksack R	1	Whatcom	2004	
NW	995580	SR 542	44.34	unnamed	NF Nooksack R	1	Whatcom	2004	
NW	995584	SR 542	45.57	Happy Valley Cr	NF Nooksack R	1	Whatcom	2004	
NW	990136	SR 11	6.84	Edison Sl	Samish Bay	3	Skagit	2004	
NW	994411	I-90	15.48	Tibbetts Cr	Lake Sammamish	8	King	2004	5,536,555
NW	105 S012018a	SR 509	10.71	Lakota Cr	Dumas Bay	10	King	2004	
OL	115 MC176	SR 106	7.06	Alderbrook Cr	Hood Canal	14	Mason	2004	
OL	990370	US 101	359.6	Schneider Cr	Totten Inlet	14	Thurston	2004	
OL	17.0285	US 101	270.88	Jimmycomelately Cr	Sequim Bay	17	Clallam	2004	1,282,482
OL	18.0234	US 101	250	Ennis Cr	Strait of Juan de Fuca	18	Clallam	2004	58,165
OL	19.0110	SR 112	32.02	Jim Cr	Strait of Juan de Fuca	19	Clallam	2004	870,000
SW	992311	US 101	53.56	Old Mill Pond Cr	Willapa R	24	Pacific	2004	
NW	995582	SR 542	45.51	Happy Valley Cr	NF Nooksack R	1	Whatcom	2005	
NW	992374	SR 522	18.43	unnamed	Evans Cr	7	Snohomish	2005	
NW	990016	SR 522	18.82	unnamed	unnamed Evans Cr trib	7	Snohomish	2005	
NW	991821	SR 92	0.47	Stevens Cr	Lake Stevens	7	Snohomish	2005	634,398
NW	991576	SR 18	18.19	Taylor Cr	Downs Cr	8	King	2005	
NW	990426	SR 18	18.43	Taylor Cr	Downs Cr	8	King	2005	

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List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
NW	102 N171	SR 527	7.38	Mill Cr	North Cr	8	Snohomish	2005	
NW	993087	SR 527	9.33	unnamed	Penny Cr	8	Snohomish	2005	
NW	991620	SR 161	35.14	Hylebos Cr	Commencement Bay	10	King	2005	
OL	991636	SR 706	8.02	unnamed	Nisqually R	11	Pierce	2005	
OL	991227	SR 706	9.81	unnamed	Nisqually R	11	Pierce	2005	
OL	990384	SR 106	0.85	Skobob Cr	Skokomish R	16	Mason	2005	1,731,000
OL	991275	US 101	130.6	unnamed	Ten O Clock Cr	21	Grays Harbor	2005	
NC	992058	SR 262	13.19	Irrigation Ditch	Potholes Reservoir	41	Grant	2005	
NC	990228	SR 20	181.37	Little Boulder Cr	Methow R	48	Okanogan	2005	567,336
NW	370220	SR 9	96.1	Easterbrook Cr	Bone Cr	1	Whatcom	2006	
NW	370219	SR 9	96.6	Bone Cr	Sumas R	1	Whatcom	2006	
NW	995979	SR 20	14.65	Crockett Lk	Keystone Harbor	6	Island	2006	
NW	990376	I-405	19.12	Forbes Cr	Juanita Bay	8	King	2006	
NW	995980	SR 9	0.97	unnamed	Little Bear Cr	8	Snohomish	2006	
NW	990316	SR 9	1.16	Cutthroat Cr	Little Bear Cr	8	Snohomish	2006	
OL	15.0285 H.0.50	7th Ave NE	12.34	SF Dogfish Cr	Dogfish Cr	15	Kitsap	2006	
OL	990998	SR 305	11.62	SF Dogfish Cr	Dogfish Cr	15	Kitsap	2006	
OL	991853	SR 305	12.1	SF Dogfish Cr	Dogfish Cr	15	Kitsap	2006	
OL	991854	SR 305	12.29	SF Dogfish Cr	Dogfish Cr	15	Kitsap	2006	
OL	996943	SR 305; ROW	12.16	SF Dogfish Cr	Dogfish Cr	15	Kitsap	2006	
OL	990714	SR 112	24.91	unnamed	Pysht R	19	Clallam	2006	647,773
OL	990713	SR 112	54.35	Bear Cr	Salt Cr	19	Clallam	2006	666,151
SW	992223	SR 142	13.4	Snyder Canyon Cr	Klickitat R	30	Klickitat	2006	0 <sup>3</sup>
SW	30.0068 0.40	SR 142	20.2	Bowman Cr	L Klickitat R	30	Klickitat	2006	1,495,495
NC	990282	US 2	70.21	Mill Cr	Nason Cr	45	Chelan	2006	1,674,411
NC	980114	SR 20	205.83	Beaver Cr	Methow R	48	Okanogan	2006	700,915
NC	980124	SR 20	206.85	Frazer Cr	Beaver Cr	48	Okanogan	2006	700,915
EA	991471	SR 31	18.22	Three Mile Cr	Pend Orielle R	62	Pend Oreille	2006	
NW	990578	SR 542	28.3	unnamed	Boulder Cr	1	Whatcom	2007	
NW	981788	SR 548	6.34	Terrell Cr	Birch Bay	1	Whatcom	2007	
NW	07.0148 1.30	SR 92	1.93	Catherine Cr	Little Pilchuck Cr	7	Snohomish	2007	377,749
NC	995038	US 2	57.8	unnamed	Tye R	7	King	2007	
NW	08.0059 7.00	I-405	29.75	Swamp Cr	Sammamish R	8	Snohomish	2007	436,324
NW	993090	I-5	182.73	Swamp Cr	Sammamish R	8	Snohomish	2007	433,648
NW	996459	SR 524	12.93	Whistle Cr	Cutthroat Cr	8	Snohomish	2007	
OL	991566	SR 303	5.6	Steele Cr	Crouch Cr	15	Kitsap	2007	
OL	990122	SR 307	0.07	Dogfish Cr	Liberty Bay	15	Kitsap	2007	

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List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
EA	995837	SR 270	4.29	unnamed	Paradise Cr	34	Whitman	2007	
EA	999625	SR 270	9.08	unnamed	Paradise Cr	34	Whitman	2007	
SC	990988	SR 24	1.07	Blue Sl	Yakima R	37	Yakima	2007	
NC	994035	SR 20	278.6	Bonaparte Cr	Okanogan R	49	Okanogan	2007	
NW	991109	SR 539	2.05	unnamed	Spring Cr	1	Whatcom	2008	
NW	990112	SR 539	4.24	Deer Cr	Tenmile Cr	1	Whatcom	2008	
NW	FD41	SR 20	44.74	Meadow Cr	Skagit Bay	3	Skagit	2008	
NW	991817	SR 9	31.61	unnamed	Bryant Cr	5	Snohomish	2008	
NW	995209	SR 96	4.07	unnamed	unnamed Snohomish R trib	7	Snohomish	2008	
NW	08.0320	SR 18	16.94	Downs Cr	Cedar R	8	King	2008	
NW	991641	SR 524	9.1	Filbert Cr	North Cr	8	Snohomish	2008	
SW	994652	I-5; NB off-ramp	11	unnamed	Gee Cr	27	Clark	2008	
SC	999499	US 12	319.35	Touchet R	Walla Walla R	32	Walla Walla	2008	
NW	990046	SR 542	27.99	Bruce Cr	Nooksack R	1	Whatcom	2009	
NW	990023	SR 542	28.73	Baptist Camp Cr	NF Nooksack R	1	Whatcom	2009	495,103
NW	991751	SR 531	3.8	Cougar Cr	Fish Cr	5	Snohomish	2009	
NW	991184	SR 900	20.09	Clay Cr	Tibbetts Cr	8	King	2009	
NW	991723	SR 900	20.34	unnamed	Tibbetts Cr	8	King	2009	
OL	998155	SR 16	20.06	unnamed	Burley Cr	15	Kitsap	2009	
OL	993576	SR 16	20.2	unnamed	Burley Cr	15	Kitsap	2009	
OL	991244	SR 106	2.95	unnamed	Skokomish R	16	Mason	2009	1,270,093
OL	992196	SR 104	12.7	unnamed	Squamish Harbor	17	Jefferson	2009	1,475,868
SW	994286	I-5	74.05	Berwick Cr	Dillenbaugh Cr	23	Lewis	2009	
OL	991908	US 101	76.48	Mosquito Cr	North R	24	Grays Harbor	2009	1,357,943
SW	992234	SR 122	4.99	unnamed	Mayfield Lk	26	Lewis	2009	385,839
NW	991060	SR 542	16.07	unnamed	Nooksack R	1	Whatcom	2010	
NW	990606	SR 542	38.98	Chain-up Cr	NF Nooksack R	1	Whatcom	2010	1,289,251
OL	990709	SR 305	9.6	unnamed	Liberty Bay	15	Kitsap	2010	2,887,452
OL	991742	SR 305	9.86	Bjorgen Cr	Liberty Bay	15	Kitsap	2010	3,546,564
OL	991252	US 101	335.02	unnamed	Hood Canal	16	Mason	2010	
SW	931450	SR 105	24.26	unnamed	Seastrand Cr	24	Pacific	2010	
SW	993139	SR 105	24.42	unnamed	Seastrand Cr	24	Pacific	2010	
SW	992821	US 101	3.3	unnamed	Columbia R	24	Pacific	2010	
EA	997498	US 2	296.35	Deadman Cr	Little Spokane R	55	Spokane	2010	
NW	990429	SR 548	4.69	Terrell Cr	Birch Bay	1	Whatcom	2011	1,569,358
NW	AR11	SR 20	75.75	Red Cabin Cr	Skagit R	3	Skagit	2011	3,610,665
NW	07.0939	US 2	23.09	Wagleys Cr	Skykomish R	7	Snohomish	2011	726,441
NW	994459	SR 520	4.48	Fairweather Cr	Lake Washington	8	King	2011	



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WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
NW	998987	SR 520	4.81	unnamed	Cozy Cove	8	King	2011	
NW	994119	SR 520	5.81	unnamed	Yarrow Cr	8	King	2011	
OL	990729	US 101	100.92	unnamed	SB Big Cr	22	Grays Harbor	2011	845,786
OL	990032	US 101	102.14	unnamed	SB Big Cr	22	Grays Harbor	2011	1,062,966
OL	999532	I-5	85.81	unnamed	Dry Cr	23	Thurston	2011	
SW	990307	SR 105	16.57	Norris Sl	Willapa R	24	Pacific	2011	3,023,493
OL	992493	US 101	68.99	unnamed	Lower Salmon Cr	24	Grays Harbor	2011	1,505,251
NW	990151	SR 530	42.99	Fortson Cr	NF Stillaguamish R	5	Snohomish	2012	1,852,338
NW	08.0183	Pipeline Crossing	18.83	EF Issaquah Cr	Issaquah	8	King	2012	3,337,235
NW	996930	SR 202; ROW	1.03	unnamed	Sammamish R	8	King	2012	
NW	991736	SR 520	6.04	Yarrow Cr	Lake Washington	8	King	2012	
NW	994227	SR 520; WB on-ramp	5.95	Yarrow Cr	Lake Washington	8	King	2012	
NW	994234	SR 520; WB on-ramp	5.95	Yarrow Cr	Lake Washington	8	King	2012	
NW	931684	SR 9	2.87	unnamed	Great Dane Cr	8	Snohomish	2012	
NW	991486	SR 167	25.65	Panther Cr <sup>4</sup>	Springbrook Cr	9	King	2012	
OL	991730	SR 112	25.6	unnamed	Pysht R	19	Clallam	2012	996,662
OL	990304	SR 112	47.1	Nelson Cr	Lyre R	19	Clallam	2012	2,031,115
SW	994301	I-5	81.77	China Cr	Chehalis R	23	Lewis	2012	
SW	990052	US 97	21.35	Butler Cr	E Prong Little Klickitat R	30	Klickitat	2012	3,634,545
EA	990096	SR 21	172.85	Curlew Cr	Kettle R	60	Ferry	2012	
NW	991448	SR 9	67.39	NP Cr	Samish R	3	Whatcom	2013	1,220,015
NW	994704	SR 520; Maint Yard	6.4	unnamed	Yarrow Cr	8	King	2013	
NW	994705	SR 520	6.44	unnamed	Yarrow Cr	8	King	2013	
NW	994449	SR 520; EB off-ramp	6.03	Yarrow Cr	Lake Washington	8	King	2013	
OL	991215	SR 162	4.82	Ball Cr	Puyallup R	10	Pierce	2013	
OL	990297	SR 7	41.13	Muck Cr	Nisqually R	11	Pierce	2013	2,065,841
OL	991246	SR 106	13.5	Twanoh Falls Cr	Hood Canal	14	Mason	2013	2,864,719
OL	990092	SR 112	57.61	Coville Cr	Strait of Juan de Fuca	19	Clallam	2013	1,754,881
SW	993138	SR 105	24.39	Seastrand Cr	Drainage Ditch #1	24	Pacific	2013	
OL	993048	SR 107; ROW	0.76	unnamed	Little North R	24	Grays Harbor	2013	
SW	992228	US 12	115.29	unnamed	Cowitz R	26	Lewis	2013	
SW	932550	SR 142	23.62	unnamed	Little Klickitat R	30	Klickitat	2013	
SC	992942	I-90; WB	56.81	Rocky Run Cr	Keechelus Lk	39	Kittitas	2013	
NC	991849	US 2	88.54	Skinney Cr	Chiwaukum Cr	45	Chelan	2013	
EA	990362	SR 21	133.6	S Nanamkin Cr	Sanpoil R	52	Ferry	2013	
NW	991036	I-5	255.4	Squalicum Cr	Bellingham Bay	1	Whatcom	2014	1,516,068
NW	994389	SR 11	20.42	Padden Cr	Bellingham Bay	1	Whatcom	2014	2,899,049

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WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
NW	995404	SR 530	36.83	unnamed	NF Stillaguamish R	5	Snohomish	2014	
NW	991169	SR 530	36.9	unnamed	NF Stillaguamish R	5	Snohomish	2014	
NW	991170	SR 530	37.58	unnamed	NF Stillaguamish R	5	Snohomish	2014	
NW	990359	SR 530	37.95	Rowan II Cr	NF Stillaguamish R	5	Snohomish	2014	
NW	991171	SR 530	37.96	unnamed	NF Stillaguamish R	5	Snohomish	2014	
NW	995405	SR 530	38.14	unnamed	NF Stillaguamish R	5	Snohomish	2014	
NW	994128	SR 522	21.95	unnamed	Skykomish R	7	Snohomish	2014	
NW	994125	SR 522	21.97	unnamed	Skykomish R	7	Snohomish	2014	
NW	994236	SR 520	6.19	Yarrow Cr	Lake Washington	8	King	2014	
NW	994237	SR 520; LX	6.26	Yarrow Cr	Lake Washington	8	King	2014	
NW	994238	SR 520; WB off-ramp	6.27	Yarrow Cr	Lake Washington	8	King	2014	
NW	932370	SR 410	31.12	Scatter Cr	White R	10	King	2014	
OL	15.0229	SR 3	40.96	Chico Cr	Dyes Inlet	15	Kitsap	pending <sup>5</sup>	326,100
OL	990555	US 101	259.79	Owl Cr	Matriotti Cr	18	Clallam	2014	
NW	01.0228	SR 542	6.55	Anderson Cr <sup>4</sup>	Nooksack R	1	Whatcom	2015	8,029,094
NW	991120	SR 9	42.33	Lake Cr	Big Lk	3	Skagit	2015	2,444,365
NW	991718	SR 203	14.55	Coe Clemons Cr	Snoqualmie R	7	King	2015	3,215,200
NW	08.0052	SR 522	5.76	Lyon Cr	Lake Washington	8	King	2015	1,600,001
NW	991210	SR 99	6.86	WF Hylebos Cr <sup>4</sup>	Hylebos Cr	10	King	2015	2,639,948
SW	991374	SR 4	3.1	Petes Cr	Naselle R	24	Pacific	2015	
SW	931100	SR 4	33.94	unnamed	Elochoman Sl	25	Wahkiakum	2015	1,506,146
SW	990818	SR 4	34.1	unnamed	Elochoman Sl	25	Wahkiakum	2015	1,738,124
SW	990283	SR 502	5.13	Mill Cr	Salmon Cr	28	Clark	2015	
SC	995878	SR 129	5.78	Rattlesnake Cr	Grande Ronde R	35	Asotin	2015	1,038,260
NW	991621	SR 542	24.9	High Cr	Kendall Cr	1	Whatcom	2016	2,118,192
NW	996155	SR 548	11.19	unnamed	Drayton Harbor	1	Whatcom	2016	934,932
NW	990624	SR 532	9.75	Secret Cr	Pilchuck Cr	5	Snohomish	2016	3,278,072
NW	996928	SR 522	9.66	Horse Cr	Sammamish R	8	King	2016	
OL	105 R050320a	SR 167	10.8	Jovita Cr <sup>4</sup>	Milwaukee Canal	10	Pierce	2016	
NW	930179	SR 167; ROW	11.43	unnamed	Milwaukee Canal	10	King	2016	
OL	990972	SR 161	12.85	South Cr	Muck Cr	11	Pierce	2016	1,634,328
OL	991049	SR 507	36.35	Lacamas Cr	Muck Cr	11	Pierce	2016	2,139,771
OL	14.0021	SR 108	11.9	Little Skookum Cr	Skookum Cr	14	Mason	2016	2,674,585
OL	992205	SR 104	22.47	Grovers Cr	Miller Bay	15	Kitsap	2016	1,504,836
OL	996753	SR 16; EB	28.1	Anderson Cr	Sinclair Inlet	15	Kitsap	2016	0 <sup>3</sup>

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WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
OL	990017	SR 16; WB	28.1	Anderson Cr	Sinclair Inlet	15	Kitsap	2016	6,745,035
OL	990123	SR 307	0.49	Dogfish Cr	Liberty Bay	15	Kitsap	2016	1,366,090
OL	992002	SR 307	4.62	Gamble Cr	Port Gamble	15	Kitsap	2016	1,867,216
OL	990205	SR 112	5.17	Jansen Cr	Strait of Juan de Fuca	19	Clallam	2016	2,602,158
OL	990214	SR 112	33.21	Joe Cr	Strait of Juan de Fuca	19	Clallam	2016	1,949,017
OL	990144	SR 112	48.49	Field Cr <sup>4</sup>	Strait of Juan de Fuca	19	Clallam	2016	196,019
OL	20.0312	US 101	197.1	Swanson Cr	Sol Duc R	20	Clallam	2016	2,111,082
OL	990962	SR 121	4.04	Blooms Ditch	Black R	23	Thurston	2016	2,556,888
OL	343040	SR 121	4.1	unnamed	Blooms Ditch	23	Thurston	2016	0 <sup>3</sup>
NW	03.0181	I-5	219.51	Fisher Cr <sup>4</sup>	Carpenter Cr	3	Skagit	2017	8,600,106
NW	05.0018	SR 532	6.14	Church Cr	Stillaguamish R	5	Snohomish	2017	5,756,865
NW	995181	SR 203	14.1	Thayer Cr	Snoqualmie R	7	King	2017	
NW	991058	SR 531	8.64	unnamed	Edgecomb Cr	7	Snohomish	2017	0 <sup>3</sup>
NW	991059	SR 531	8.71	unnamed <sup>4</sup>	Edgecomb Cr	7	Snohomish	2017	3,100,000
NW	996475	I-90; LX	17	unnamed	NF Issaquah Cr	8	King	2017	7,400,000
NW	996963	I-90; LX	17.11	NF Issaquah Cr	Issaquah Cr	8	King	2017	0 <sup>3</sup>
NW	934151	I-90; WB off-ramp	17.1	unnamed	NF Issaquah Cr	8	King	2017	0 <sup>3</sup>
NW	991842	SR 900	15.86	Green Cr	May Cr	8	King	2017	1,800,000
OL	996735	SR 3	26	unnamed	Mindy Cr	15	Mason	2017	
OL	18.0021	US 101	260.93	Matriotti Cr <sup>4</sup>	Dungeness R	18	Clallam	2017	2,500,000
OL	991660	SR 112	52.9	Nordstrom Cr	Salt Cr	19	Clallam	2017	2,300,000
SW	991409	SR 401	0.84	Megler Cr <sup>6</sup>	Columbia R	24	Pacific	2017	68,475
SC	999342	I-90	59.48	Resort Cr	Keechelus Lk	39	Kittitas	2017	
EA	990267	US 395	249.98	Matsen Cr	Kettle R	60	Ferry	2017	2,200,000
NW	990187	SR 542	32	Hedrick Cr	Nooksack R	1	Whatcom	2018	7,000,000
NW	991122	SR 9	48.01	Gribble Cr <sup>4</sup>	WF Nookachamps Cr	3	Skagit	2018	3,200,000
NW	991717	SR 203	4.91	Historic Langlois Cr	Snoqualmie R	7	King	2018	2,100,000
NW	990233	SR 92	2.69	Little Pilchuck Cr	Pilchuck R	7	Snohomish	2018	7,000,000
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	8	King	2018	10,300,000
NW	102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	8	Snohomish	2018	1,600,000
OL	991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	19	Clallam	2018	3,500,000
OL	22.0507	SR 8	5	MF Wildcat Cr	EF Wildcat Cr	22	Grays Harbor	2018	7,600,000
OL	990133	SR 8	6.3	EF Wildcat Cr	Wildcat Cr	22	Grays Harbor	2018	9,000,000
OL	994791	US 12	9.06	unnamed	Wynoochee R	22	Grays Harbor	2018	4,900,000
SW	991634	SR 504	17.02	Wooster Cr	NF Toutle R	26	Cowlitz	2018	3,700,000
SC	992948	I-90	60.6	Townsend Cr	Keechelus Lk	39	Kittitas	2018	

### Appendix V. WSDOT Barrier Corrections Completed

List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
SC	992950	I-90	61.35	Price Cr	Yakima R	39	Kittitas	2018	
NC	990413	US 97	159.24	Swauk Cr	Yakima R	39	Kittitas	2018	3,600,000
NC	992763	US 97	165.54	unnamed	Tronsen Cr	45	Chelan	2018	1,000,000
NW	992349	SR 9	77.36	unnamed	Tawes Cr	1	Whatcom	2019	3,900,000
NW	992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	1	Whatcom	2019	0 <sup>3</sup>
NW	992356	SR 9	77.94	Tawes Cr	SF Nooksack R	1	Whatcom	2019	2,700,000
NW	991160	SR 530	25.94	Schoolyard Cr <sup>4</sup>	NF Stillaguamish R	5	Snohomish	2019	3,900,000
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr	23	Pacific	2019	2,500,000
SW	990744	SR 6	31.06	SB Fronia Cr	Fronia Cr	23	Lewis	2019	3,000,000
SW	990746	SR 6	31.08	Fronia Cr	Chehalis R	23	Lewis	2019	0 <sup>3</sup>
SC	990048	SR 129	0.9	Buford Cr <sup>6</sup>	Grande Ronde R	35	Asotin	2019	
NW	995715	I-5, NB	268.64	unnamed	California Cr	1	Whatcom	2020	9,200,000
NW	990581	SR 11	18.65	Hoags Cr	Chuckanut Cr	1	Whatcom	2020	2,200,000
NW	996003	SR 548	0.29	unnamed	California Cr	1	Whatcom	2020	2,800,000
NW	991159	SR 530	24.65	Trafton Cr	NF Stillaguamish R	5	Snohomish	2020	17,600,000
NW	990325	SR 202	13.24	Patterson Cr	Snoqualmie R	7	King	2020	7,300,000
NW	991174	SR 202	19.69	unnamed	Patterson Cr	7	King	2020	6,000,000
NW	991173	SR 202	19.77	unnamed	Patterson Cr	7	King	2020	0 <sup>3</sup>
NW	991716	SR 203	13.6	Loutsis Cr	Snoqualmie R	7	King	2020	6,700,000
OL	115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	14	Mason	2020	20,300,000
OL	990943	SR 116	4.67	Kilisut Harbor <sup>6</sup>	Oak Harbor	17	Jefferson	2020	11,900,000
OL	991647	US 101	175.45	unnamed	Hoh R	20	Jefferson	2020	
OL	990178	US 101	146.85	Harlow Cr <sup>4</sup>	Queets R	21	Jefferson	2020	9,200,000
OL	990148	US 101	147.49	Fisher Cr	Queets R	21	Jefferson	2020	5,300,000
SW	991412	SR 401	2.03	unnamed <sup>6</sup>	Columbia R	24	Pacific	2020	
NW	994386	SR 11	21.08	Padden Cr	Bellingham Bay	1	Whatcom	2021	5,300,000
NW	NC129	SR 538	2.18	Logan Cr	Nookachamps Cr	3	Skagit	2021	3,100,000
NW	991106	SR 9	70.6	unnamed	Landingstrip Cr	3	Whatcom	2021	2,100,000
NW	GR9	SR 20	87.7	Fish Cr	Lorenzan Cr	4	Skagit	2021	5,000,000
NW	GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	Skagit	2021	0 <sup>3</sup>
NW	LP19	SR 9	37.26	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	2021	2,800,000
NW	996492	SR 169	17.92	unnamed <sup>6</sup>	Cedar R	8	King	2021	
NW	105 R042117a	SR 164	8.24	Pussyfoot Cr <sup>4</sup>	White R	10	King	2021	19,500,000
OL	990286	SR 302	11.3	Minter Cr	Henderson Bay	15	Pierce	2021	9,600,000
OL	990021	US 101	253.85	Bagley Cr <sup>4</sup>	Strait of Juan de Fuca	18	Clallam	2021	13,100,000 <sup>8</sup>
OL	18.0173 2.40	US 101	256.1	Siebert Cr	Strait of Juan de Fuca	18	Clallam	2021	21,400,000



### Appendix V. WSDOT Barrier Corrections Completed

List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
OL	934250	US 101; ROW	253.84	unnamed	Bagley Cr	18	Clallam	2021	0 <sup>3</sup>
SW	991544	SR 6	46.39	unnamed	Chehalis R	23	Lewis	2021	10,800,000 <sup>8</sup>
SW	991757	SR 6	46.5	unnamed	Chehalis R	23	Lewis	2021	0 <sup>3</sup>
NC	990414	US 97	159.67	Swauk Cr	Yakima R	39	Kittitas	2021	7,300,000
NW	994233	I-5	250.55	Padden Cr	Bellingham Bay	1	Whatcom	2022	28,300,000
NW	931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	Whatcom	2022	5,400,000
NW	990510	SR 546	0.46	Double Ditch	Fishtrap Cr	1	Whatcom	2022	0 <sup>3</sup>
NW	996161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	Whatcom	2022	0 <sup>3</sup>
NW	990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	Whatcom	2022	2,200,000
NW	990641	SR 9	40.08	Lake Cr	Lake McMurray	3	Skagit	2022	10,600,000 <sup>8</sup>
NW	990091	SR 9	41.04	Norway Park Cr	Lake McMurray	3	Skagit	2022	0 <sup>3</sup>
NW	JK2	SR 20	91.3	unnamed	Skagit R	4	Skagit	2022	6,800,000 <sup>8</sup>
NW	997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	King	2022	11,300,000 <sup>8</sup>
OL	996794	Chico Way; SR 3 ROW	41.08	unnamed	Chico Cr	15	Kitsap	2022	8,400,000 <sup>8</sup>
OL	996795	SR 3; SB on-ramp	40.99	unnamed	Chico Cr	15	Kitsap	2022	0 <sup>3</sup>
OL	15.0051	SR 302	11.44	Little Minter Cr <sup>4</sup>	Minter Cr	15	Pierce	2022	0 <sup>3.8</sup>
OL	15.0051	SR 302	11.5	Little Minter Cr <sup>4</sup>	Minter Cr	15	Pierce	2022	0 <sup>3</sup>
OL	990400	US 101	162.6	Steamboat Cr <sup>4</sup>	Pacific Ocean	20	Jefferson	2022	11,900,000 <sup>8</sup>
NW	991473	SR 539	11.1	Duffner Ditch	Bertrand Cr	1	Whatcom	2023	4,400,000
NW	990014	SR 542	3.45	Squalicum Cr <sup>4</sup>	Bellingham Bay	1	Whatcom	2023	13,900,000
NW	996168	SR 544	3.51	unnamed	Four Mile Cr	1	Whatcom	2023	3,300,000
NW	991142	SR 20	69.08	unnamed	Red Cr	3	Skagit	2023	5,400,000
NW	CR2	SR 534	0.53	unnamed	Carpenter Cr	3	Skagit	2023	7,200,000
NW	995265	SR 534; ROW	0.6	unnamed	unnamed Carpenter Cr trib	3	Skagit	2023	0 <sup>3</sup>
NW	994308	SR 20	94.47	unnamed	Skagit R	4	Skagit	2023	0 <sup>3</sup>
NW	990236	SR 18	27.57	Lake Cr	Raging R	7	King	2023	
NW	995167	SR 203	7.26	unnamed	Horseshoe Lk	7	King	2023	14,000,000 <sup>2</sup>
NW	102 N183	SR 96	0.47	North Cr	Sammamish R	8	Snohomish	2023	9,500,000
NW	991191	SR 516	0.43	Barnes Cr	Massey Cr	9	King	2023	4,700,000
OL	991225	SR 7	37.5	unnamed	South Cr	11	Pierce	2023	9,100,000 <sup>2</sup>
OL	990688	SR 7	38.12	unnamed	South Cr	11	Pierce	2023	0 <sup>3</sup>
OL	990450	SR 106	12.3	Twanoh Cr	Hood Canal	14	Mason	2023	4,500,000
OL	991237	SR 108	5.5	unnamed	Skookum Cr	14	Mason	2023	50,700,000 <sup>2</sup>
OL	990385	SR 108	5.54	Skookum Cr	Little Skookum Inlet	14	Mason	2023	0 <sup>3</sup>

### Appendix V. WSDOT Barrier Corrections Completed

List sorted by Year Corrected, WRIA, Road, and Milepost

WSDOT Region	Site ID	Road	MP	Stream	Tributary To	WRIA	County	Year Fixed	Project Cost \$ <sup>1</sup>
OL	990345	spur rd; SR 302	15.8	Purdy Cr	Burley Lagoon	15	Pierce	2023	9,600,000 <sup>2</sup>
OL	991907	SR 3; access rd	40.97	unnamed	Chico Cr	15	Kitsap	2023	0 <sup>3</sup>
OL	994325	SR 305	2.44	Murden Cr	Murden Cove	15	Kitsap	2023	13,400,000
OL	990375	SR 104	10.36	Shine Cr	Hood Canal	17	Jefferson	2023	0 <sup>3</sup>
OL	990711	SR 19	4.3	Swansonville Cr	EF Chimacum Cr	17	Jefferson	2023	3,900,000
OL	990134	US 101	274.25	Eagle Cr	Strait of Juan de Fuca	17	Clallam	2023	
OL	990896	US 101	290.35	unnamed	Leland Cr	17	Jefferson	2023	16,900,000
OL	995502	US 101	291.79	unnamed	Leland Cr	17	Jefferson	2023	0 <sup>3</sup>
OL	990241	US 101	292.52	Leland Cr	Little Quilcene R	17	Jefferson	2023	0 <sup>3</sup>
OL	18.0283	US 101	238.39	Indian Cr	Elwha R	18	Clallam	2023	14,700,000
OL	993702	US 101	98.47	unnamed	WF Hoquiam R	22	Grays Harbor	2023	58,800,000
OL	993704	US 101	99.45	unnamed	WF Hoquiam R	22	Grays Harbor	2023	0 <sup>3</sup>
OL	990730	US 101	100.7	unnamed	unnamed SB Big Cr trib	22	Grays Harbor	2023	0 <sup>3</sup>
OL	990033	US 101	102.97	unnamed	Big Cr	22	Grays Harbor	2023	0 <sup>3</sup>
OL	991501	US 101	103.65	unnamed <sup>4</sup>	Big Cr	22	Grays Harbor	2023	0 <sup>3</sup>
OL	990731	US 101	111.34	unnamed	Stevens Cr	22	Grays Harbor	2023	0 <sup>3</sup>

## Appendix 5 Notes:

**Shaded** - injunction barrier corrections

- 1 - Project Costs only available for barrier corrections completed as a stand-alone project. Recent corrections are subject to update, as more work may occur in the project after barrier correction. Costs rounded up to the nearest \$100,000.
- 2 - Project Cost includes cost of other contract work not yet completed
- 3 - Project Costs included in an associated site's contract.
- 4 - Previous correction reverted to a barrier; barrier re-corrected.
- 5 - Pending - Interim fix; culvert will be replaced by a bridge.
- 6 - Partnership. Project costs represent WSDOT contribution.
- 7 - Site 15.0285 H 0.50, SF Dogfish Cr is now owned by the city of Poulsbo.
- 8 - Project cost has been updated since 2023 annual report.