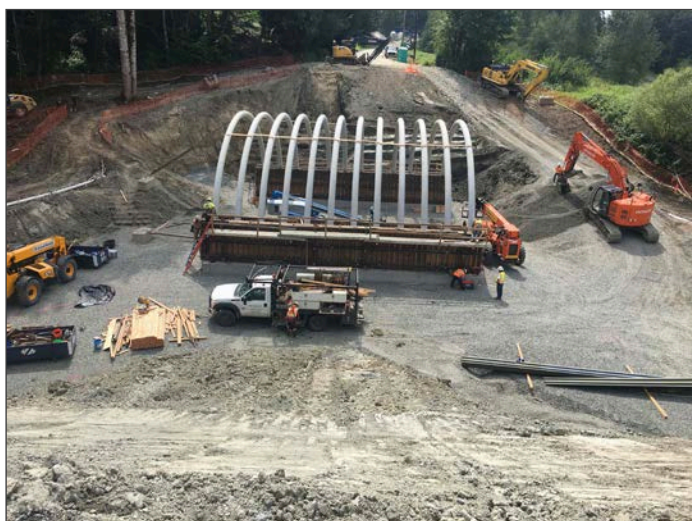


---

# WSDOT FISH PASSAGE PERFORMANCE REPORT

---

JUNE 30, 2021







Environmental Services Office  
Biology Branch  
Stream Restoration Program

# WSDOT FISH PASSAGE PERFORMANCE REPORT

June 30, 2021

*Cover photos, clockwise from the upper left-hand corner: State Route (SR) 203 Loutsis Creek 2020 construction; SR 203 Loutsis Creek post-construction; SR 401 Hungry Harbor constructed 2020; SR 116 Kilisnoe Harbor constructed 2020.*

This report is also available in a pdf format at <https://www.wsdot.wa.gov/Projects/FishPassage/>.

Additional data can be obtained by contacting Washington State Department of Transportation's Environmental Services Office, Susan Kanzler, e-mail [susan.kanzler@wsdot.wa.gov](mailto:susan.kanzler@wsdot.wa.gov), phone: (360) 705-7250.

Primary report authors include Susan Kanzler, Damon Romero, Kathy Prosser, Tammy Schmidt, and Marc Hershfield. Maps, figures, and photos provided by Susan Kanzler, Damon Romero, Kathy Prosser, Tammy Schmidt, and Marc Hershfield. Additional photos provided by the Washington State Department of Transportation (WSDOT) and the Washington Department of Fish and Wildlife (WDFW).

---

#### **Americans with Disabilities Act (ADA) Information**

This material can be made available in an alternate format by emailing the Office of Equal Opportunity at [wsdotada@wsdot.wa.gov](mailto:wsdotada@wsdot.wa.gov) or by calling toll free, 855-362-4ADA (4232). Persons who are deaf or hard of hearing may make a request by calling the Washington State Relay at 711.

#### **Title VI Notice to Public**

It is the Washington State Department of Transportation's (WSDOT) policy to assure that no person shall, on the grounds of race, color, national origin or sex, as provided by Title VI of the Civil Rights Act of 1964, be excluded from participation in, be denied the benefits of, or be otherwise discriminated against under any of its federally funded programs and activities. Any person who believes his/her Title VI protection has been violated, may file a complaint with WSDOT's Office of Equal Opportunity (OEO). For additional information regarding Title VI complaint procedures and/or information regarding our non-discrimination obligations, please contact OEO's Title VI Coordinator at (360) 705-7090.



# Table of Contents

---

<b>Executive Summary</b> .....	IX
<b>Introduction</b> .....	1
Background on WSDOT Fish Passage Program.....	1
<b>2020 Fish Passage Projects Completed</b> .....	3
Unnamed Tributaries to California Creek.....	5
Hoag’s Creek, Tributary to Chuckanut Creek.....	6
Trafton Creek, Tributary to North Fork Stillaguamish River.....	7
Patterson Creek, Tributary to Snoqualmie River.....	8
Unnamed Tributaries to Patterson Creek.....	9
Loutsis Creek, Tributary to Snoqualmie River.....	10
Coffee Creek, Tributary to Goldsborough Creek.....	11
Kilisut Harbor.....	12
Unnamed Tributary to Hoh River.....	13
Harlow Creek, Tributary to Queets River.....	14
Fisher Creek, Tributary to Queets River.....	15
Hungry Harbor.....	16
<b>2021 Fish Passage Projects Planned</b> .....	24
<b>Project Planning</b> .....	26
WSDOT Barrier Corrections and Planning Strategy.....	26
Planning and Implementation Improvements.....	26
<b>Fish Passage Barrier Inventory</b> .....	28
Fish Passage Inventory Updates.....	28
U.S. v. WA List of WSDOT Case Area Barrier Culverts.....	30
<b>Monitoring</b> .....	31
Monitoring Plan.....	31
Actions Resulting from Monitoring.....	31
Monitoring Results.....	31
Post-Project Evaluation for Fish Presence.....	33
Fishway Inspections and Maintenance.....	34

## List of Tables

Table 1. Fish Passage Projects Completed in 2020.....	4
Table 2. WSDOT Fish Passage Barrier Corrections Completed .....	17
Table 3. Fish Passage Projects Planned for Completion in 2021.....	25
Table 4. Fish Passage Barriers Statewide.....	28

## List of Figures

Figure 1. WSDOT fish passage barriers.....	2
Figure 2. WSDOT fish passage barrier corrections since 1955.....	2
Figure 3. WSDOT fish passage projects completed in 2020.....	3
Figure 4. Unnamed tributary to California Creek pre-construction photo.....	5
Figure 5. Unnamed tributary to California Creek post-construction photos.....	5
Figure 6. Hoag's Creek pre-construction photo.....	6
Figure 7. Hoag's Creek post-construction photo.....	6
Figure 8. Trafton Creek pre-construction photo.....	7
Figure 9. Trafton Creek post-construction photo.....	7
Figure 10. Patterson Creek pre-construction photo.....	8
Figure 11. Patterson Creek post-construction photo.....	8
Figure 12. Unnamed tributaries to Patterson Creek pre-construction photos.....	9
Figure 13. Unnamed tributaries to Patterson Creek post-construction photos.....	9
Figure 14. Loutsis Creek pre-construction photo.....	10
Figure 15. Loutsis Creek post-construction photo.....	10
Figure 16. Coffee Creek pre-construction photo.....	11
Figure 17. Coffee Creek post-construction photo.....	11
Figure 18. Kilisut Harbor pre-construction photo.....	12
Figure 19. Kilisut Harbor post-construction photo.....	12
Figure 20. Unnamed tributary to Hoh River pre-construction photo.....	13
Figure 21. Unnamed tributary to Hoh River post-construction photo.....	13
Figure 22. Harlow Creek pre-construction photo.....	14
Figure 23. Harlow Creek post-construction photo.....	14
Figure 24. Fisher Creek pre-construction photo.....	15
Figure 25. Fisher Creek post-construction photo.....	15
Figure 26. Hungry Harbor pre-construction photo.....	16
Figure 27. Hungry Harbor post-construction photo.....	16
Figure 28. WSDOT fish passage projects scheduled for completion in 2021.....	24
Figure 29. SR 401 Hungry Harbor culvert.....	33
Figure 30. Examples of WSDOT fishways.....	34

# List of Appendices

Appendix I	WSDOT Culvert Barriers Relevant to the Injunction.....	35
Appendix II	Updates to the WSDOT Injunction Barrier List.....	63
Appendix III	Fish Passage Barrier Correction Monitoring Plan.....	73
Appendix IV	Monitoring Results.....	77
Appendix V	Dedicated Funding Project Evaluations - Spawner Surveys.....	81
Appendix VI	WSDOT Fishway Inspections.....	85
	A. Northwest Region.....	86
	B. Olympic Region.....	88
	C. Southwest Region.....	89





# Executive Summary

---

State highways cross streams and rivers in thousands of places in Washington State, which can impede fish migration. Since 1991, the Washington State Department of Transportation (WSDOT) has worked to improve fish passage and reconnect streams to help keep our waterways healthy. This report summarizes WSDOT's progress in identifying and correcting fish passage barriers and related activities completed in the past year.

Statewide there are 3,965 highway crossings on fish bearing waters. Of those, 2,073 are documented fish passage barriers, including 2,040 culverts. Of these, 1,531 block a significant amount of upstream habitat (> 200 meters).

To date, WSDOT has completed 365 fish passage barrier corrections statewide, allowing access to approximately 1,215 miles (1,956 kilometers) of potential upstream habitat for fish. WSDOT completed fourteen fish passage barriers corrections in 2020, opening up 54.28 miles (87.35 kilometers) of potential upstream habitat. Thirteen of the 14 barriers 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, 2021, WSDOT has corrected 86 injunction barrier culverts and opened 383 miles (616 kilometers) of blocked salmon and steelhead habitat.

WSDOT plans to complete 20 fish passage barrier corrections in 2021, 17 of which are subject to the injunction. These projects will open up approximately 110.42 miles (177.7 kilometers) of potential fish habitat.



# 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 has the ability to identify high priority barriers and correct them with dedicated fish passage funds while continuing to correct barriers during planned transportation projects.

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 1).

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 corrections, as well as the results of post-project monitoring, fish utilization of completed projects, and fishway inspections.

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, spawner survey results, and fishways requiring maintenance for fish passage.



To date, WSDOT has completed 365 fish passage barrier corrections in Washington streams. As a result of this effort, access has been restored to an estimated 1,215 miles\* (1,956 kilometers) of potential upstream habitat, assuming no other human-made obstacles exist in a given watershed where the project was completed.

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

Figure 1. WSDOT fish passage barriers

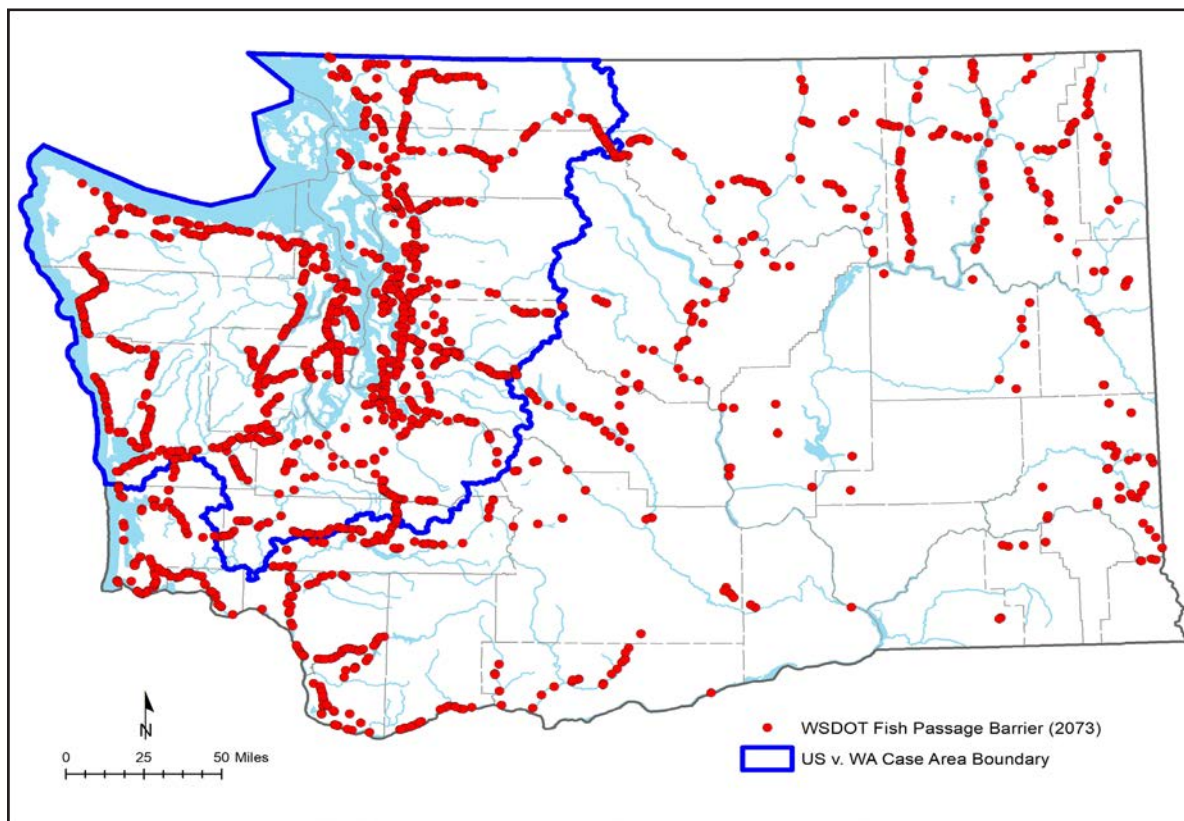
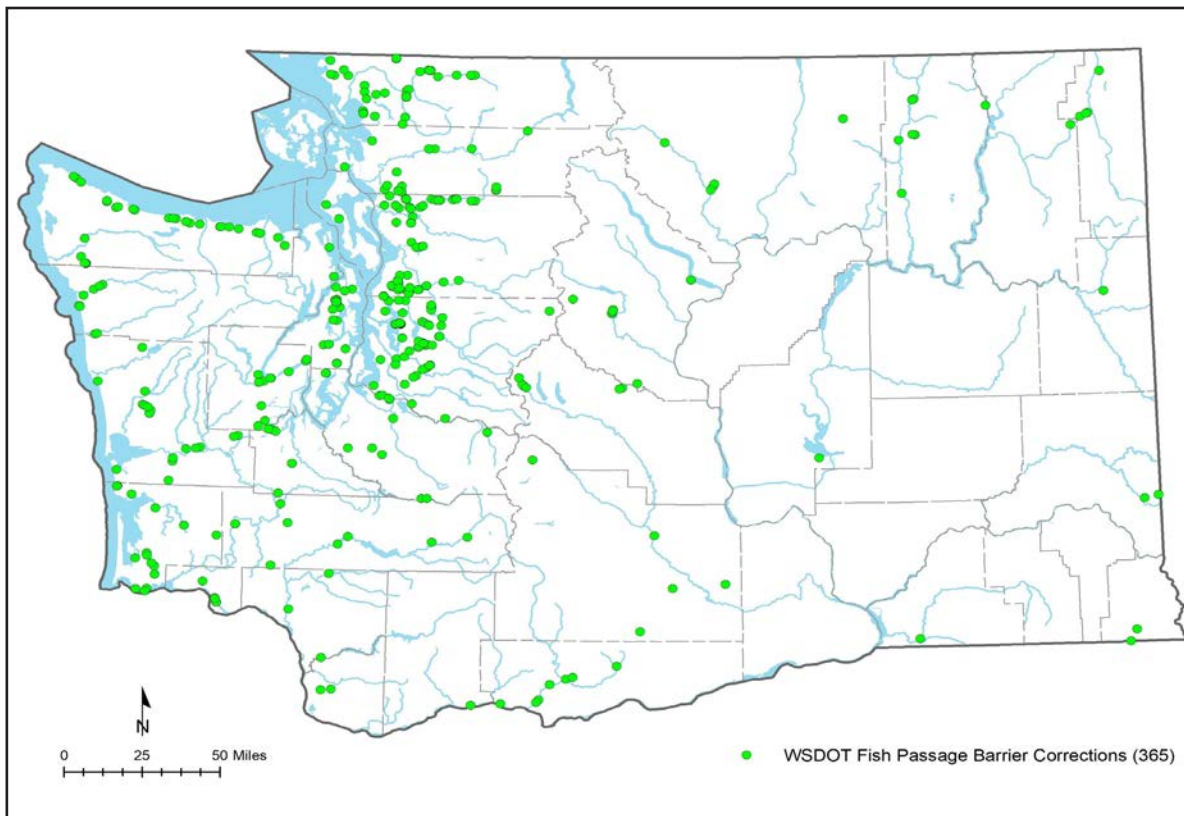


Figure 2. WSDOT fish passage barrier corrections since 1955





# 2020 Fish Passage Projects Completed

WSDOT completed 14 fish passage barrier corrections in 2020 (Figure 3, Table 1), opening an estimated 54.28 miles (87.35 kilometers) of potential upstream habitat. One project corrected a previous correction, replacing a culvert retrofitted with a fishway in 1996 that had reverted to a barrier.

Thirteen of the 14 projects corrected injunction barriers. All 14 barrier corrections were funded by the WSDOT environmental improvement subprogram I4. Two barriers were corrected in partnerships using additional grant funding. WSDOT partnered with the North Olympic Salmon Coalition on the SR 116 Kilisut Harbor project, with funding from WSDOT, the

US Fish and Wildlife Service (USFWS), US Navy, WA Department of Ecology, and the Recreation and Conservation Office/ Salmon Recovery Funding Board (SRFB). WSDOT also partnered with the Columbia River Estuary Study Taskforce (CREST) to correct a barrier on SR 401 at Hungry Harbor. This project used grant funding from the SRFB, Bonneville Power Association, Lower Columbia River Estuary Partnership, Lower Columbia Fish Recovery Board, and USFWS.

Table 2 shows a list of fish passage barrier corrections completed since 1955. Figure 2 is a map of these sites.

Figure 3. WSDOT fish passage projects completed in 2020

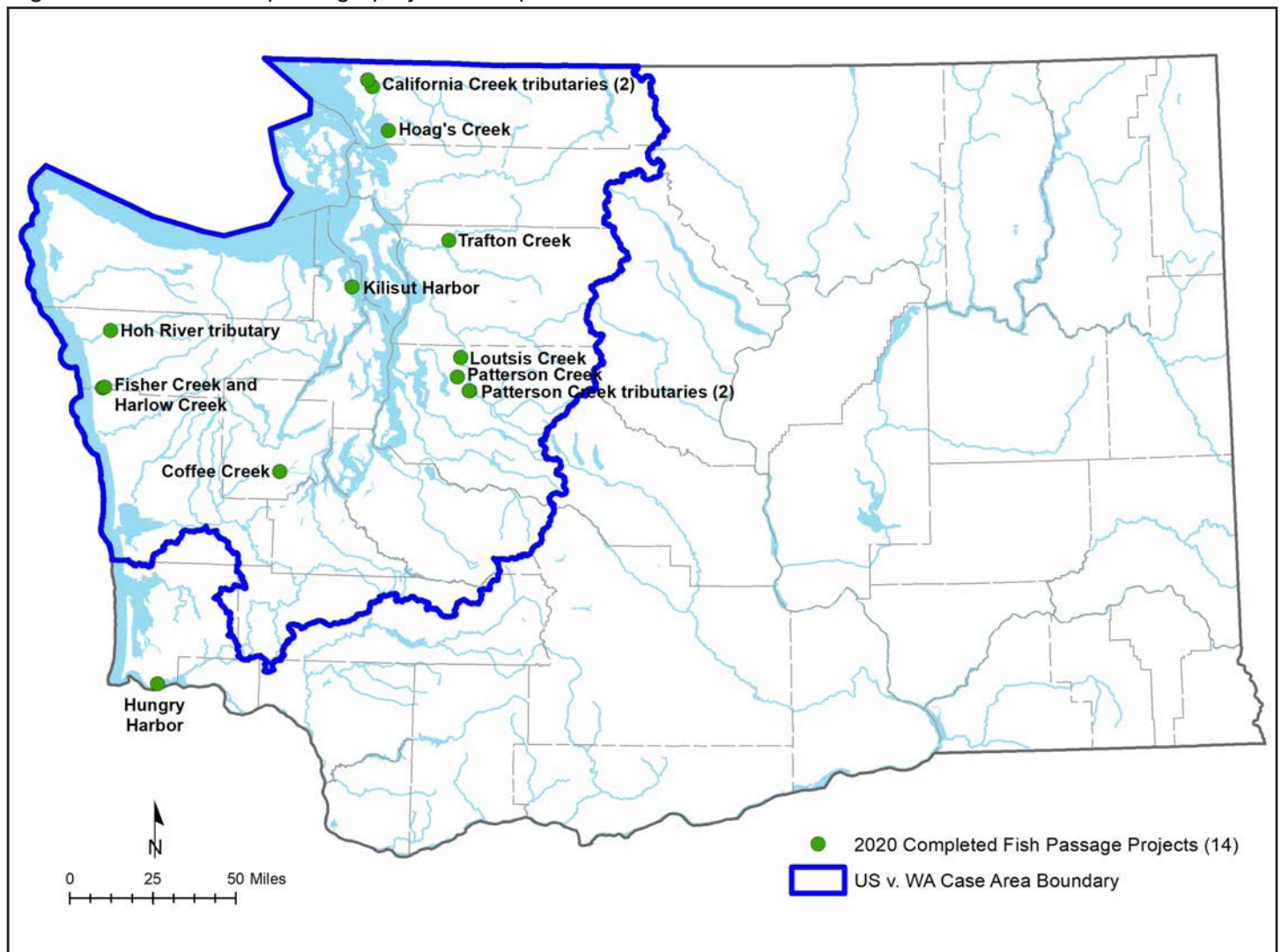


Table 1. Fish Passage Projects Completed in 2020. The fourteen projects listed below corrected thirteen barriers applicable to the Federal Court Injunction.

Site ID	Injunction Culvert	WSDOT Region	Road	MP	Stream	WRIA	Lineal Gain <sup>1</sup> (mi)	Incremental Gain <sup>1</sup> (mi)	Funding
995715	Yes	NW	I-5	268.64	tributary to California Creek	1	3.20	3.20	I4
990581	Yes	NW	SR 11	18.65	Hoag's Creek	1	0.71	0.71	I4
996003	Yes	NW	SR 548	0.29	tributary to California Creek	1	3.30	3.30	I4
991159	Yes	NW	SR 530	24.65	Trafton Creek	5	2.81	2.81	I4
990325	Yes	NW	SR 202	13.24	Patterson Creek	7	3.21	3.21	I4
991174	Yes	NW	SR 202	19.69	tributary to Patterson Creek	7	2.58	2.58	I4
991173	Yes	NW	SR 202	19.77	tributary to Patterson Creek	7	5.47	5.47	I4
991716	Yes	NW	SR 203	13.60	Loutsis Creek	7	3.14	3.14	I4
115 MC093	Yes	OL	US 101	346.95	Coffee Creek	14	13.32	13.32	I4
990943	Yes	OL	SR 116	4.67	Kilisut Harbor	17	1.49	1.49	I4, G
991647	Yes	OL	US 101	175.45	tributary to Hoh River	20	1.89	1.89	I4
990178 <sup>3</sup>	Yes	OL	US 101	146.85	Harlow Creek	21	10.49	9.56 <sup>2</sup>	I4
990148	Yes	OL	US 101	147.49	Fisher Creek	21	3.19	3.19	I4
991412	No	SW	SR 401	2.03	Hungry Harbor	24	0.42	0.42	I4, P, G

**Total 55.22 mi 54.28 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> Previously corrected site.

Funding Codes:

I4 = Improvement

G = Grants

P = Preservation

# Unnamed Tributaries to California Creek

## Fish Passage Improvement with I4 Funding



This project corrected barrier culverts on two tributaries to California Creek, one crossing I-5 at milepost 268.64 and another on SR 548 at milepost 0.29 near Ferndale in Whatcom County. These undersized culverts blocked passage of coho, steelhead, and sea-run cutthroat trout. These projects restore access to 3.2 miles (5.15 kilometers) of habitat upstream of I-5 and 3.3 miles (5.31 kilometers) of habitat upstream of SR 548, respectively. A spawned coho was observed upstream of I-5 in December 2020.

### Before Construction



Figure 4. The old crossing on I-5 (photo) was a 5.5 ft (1.67 m) diameter corrugated steel culvert that was a high flow velocity barrier to adult fish. The 340 ft (103.6 m) long culvert extended under all lanes of I-5 and Zell Road. The old crossing on SR 548 was a 3 ft (0.91 m) diameter concrete culvert which was both a high flow velocity barrier and low flow depth barrier.

### After Construction



Figure 5. The lengthy I-5 culvert was replaced with three shorter structures. Two new structures were installed under the northbound (top) and southbound (bottom) lanes of I-5 and one under Zell Road. Both new structures are 18 ft (5.5 m) wide by 9.1 ft (2.78 m) high concrete box culverts. The new crossing on SR 548 is a 12.1 ft (3.69 m) wide by 6.2 ft (1.9 m) high concrete box culvert.



# Hoag's Creek, Tributary to Chuckanut Creek

## Fish Passage Improvement with I4 Funding

Hoag's Creek is a tributary connecting Hoag's Pond to Chuckanut Creek. Hoag's Creek crosses SR 11 at milepost 18.65 near Chuckanut Village, in southwest Bellingham. This project restores access to 0.71 miles (1.14 kilometers) of habitat for coho and sea-run cutthroat trout.



## Before Construction



Figure 6. The old crossing was a 2 ft (0.61 m) diameter concrete culvert that was considered a total barrier due to an excessive hydraulic drop at the outlet.

## After Construction

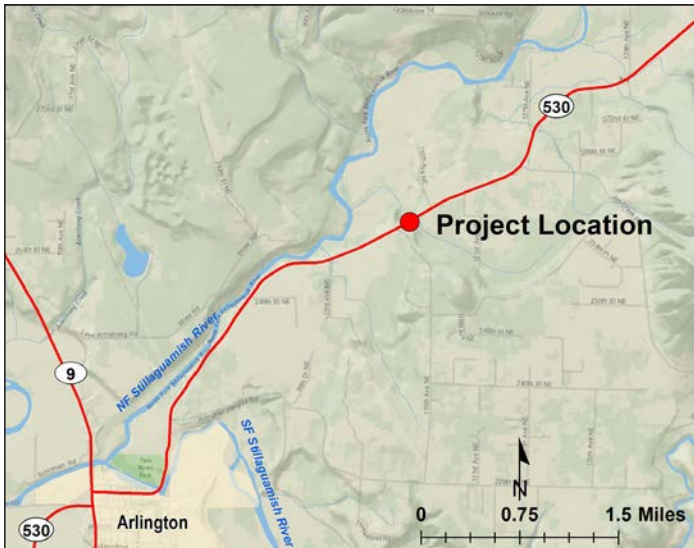


Figure 7. The new crossing is a 12 ft (3.66 m) diameter corrugated steel culvert coated in polymer to reduce corrosion. Additional consideration for small terrestrial species passage is reflected in the larger structure size. The project design included fish habitat complexity features by adding large wood in the channel both upstream and downstream of the new culvert.



# Trafton Creek, Tributary to North Fork Stillaguamish River

## Fish Passage Improvement with I4 Funding



Trafton Creek crosses SR 530 at milepost 24.65 near the unincorporated community of Trafton in rural Snohomish County and drains to the North Fork Stillaguamish River. The Tulalip Tribes of Washington and the Stillaguamish Tribe consider Trafton Creek of high value for salmon recovery. This project restored access to 2.81 miles (4.52 kilometers) of habitat for coho, steelhead, and sea-run cutthroat trout, as well as ESA listed bull trout. Previously, coho were observed to spawn up to the existing barrier culvert but no further.

## Before Construction



Figure 8. The old crossing was a 4 ft (1.22 m) round concrete culvert that was a barrier to fish passage due to an excessive water drop at the outlet, low water depth, and high velocity flow.

## After Construction



Figure 9. The new structure is a 26 ft (7.9 m) diameter structural plate steel culvert fitted with boulder cross-vanes to force the formation of step pools. Outside the structure, large wood and small slash were incorporated into the stream channel design. A deformable grade control, created with woody branches, helps to dissipate stream energy and reduces velocity entering the project reach.



# Patterson Creek, Tributary to Snoqualmie River

## Fish Passage Improvement with I4 Funding

Patterson Creek crosses SR 202 at milepost 13.24 in King County between Redmond and Fall City. This project restores access to 3.21 miles (5.16 kilometers) of habitat upstream of SR 202. Challenges immediately befell this project when the stream channel in an alluvial fan several hundred feet upstream jumped from the existing alignment perpendicular to SR 202 to one paralleling it. Additional channel work is scheduled for summer 2021 to encourage the stream channel away from the highway and back into the adjacent wetland.



## Before Construction



Figure 10. The old culvert was a 5 ft (1.53 m) wide by 3 ft (0.91 m) high concrete box culvert that was a high flow velocity barrier to migrating chum, coho, steelhead, and sea-run cutthroat trout.

## After Construction

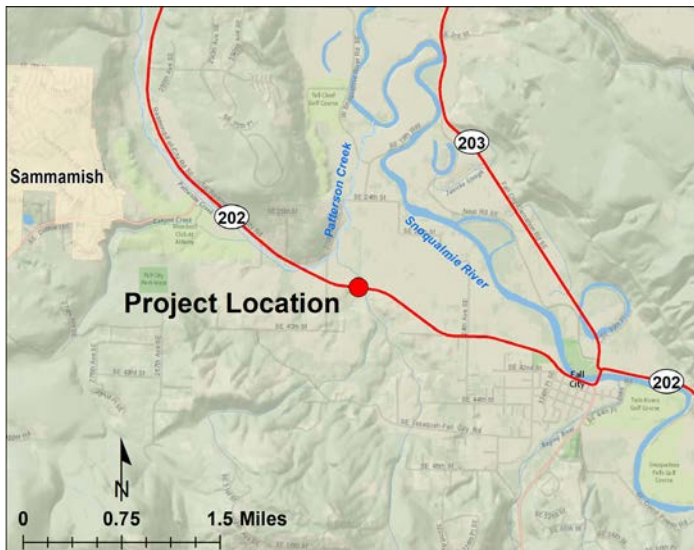


Figure 11. The new culvert is a 16.1 ft (4.9 m) wide by 9 ft (2.74 m) high concrete box culvert. Abundant large wood was placed both upstream and downstream of the new culvert to provide deep resting pools and refugia for fish.



# Unnamed Tributaries to Patterson Creek

## Fish Passage Improvement with I4 Funding



These two unnamed tributaries to Patterson Creek cross SR 202 at milepost 19.69 (west tributary) and milepost 19.77 (east tributary). The existing culverts were partial barriers to coho, steelhead, and sea-run cutthroat trout. These projects had high ecological value for salmon recovery in part because they were the lowest fish passage barriers in their respective watersheds. These two projects restore access to 2.58 miles (4.15 kilometers, west tributary) and 5.47 miles (8.8 kilometers, east tributary) of previously blocked habitat.

## After Construction

### Before Construction



Figure 12. The old crossing on the west tributary (top) consisted of two culverts – a 4 ft (1.22 m) wide by 2.1 ft (0.65 m) high concrete box culvert plus a 1.5 ft (0.46 m) diameter round culvert. The site was considered a slope barrier. The old crossing for the east tributary (bottom) was an 8 ft (2.43 m) wide by 5.8 ft (1.78 m) high concrete box culvert that was a high flow velocity barrier.



Figure 13. The new crossing for the west tributary (top) is a 12.3 ft (3.74 m) wide by 8.3 ft (2.54 m) high concrete box culvert. The new crossing for the east tributary (bottom) is a 23.1 ft (7.05 m) high by 10.5 ft (3.2 m) wide concrete box culvert. Both new structures provide unimpeded fish passage for adults and juvenile salmonids. Adult coho were observed transiting the new structures immediately following construction.

# Loutsis Creek, Tributary to Snoqualmie River

## Fish Passage Improvement with I4 Funding

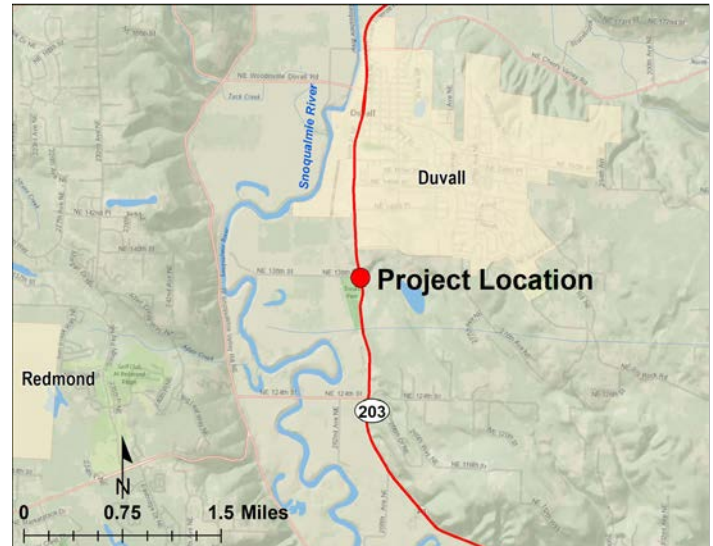
Loutsis Creek is located on SR 203 at milepost 13.6 south of Duvall in King County and drains into the Snoqualmie River. This project restores access to 3.14 miles (5.05 kilometers) of habitat for coho, steelhead, and sea-run cutthroat trout.



## Before Construction



Figure 14. The old crossing for Loutsis Creek was a 4 ft (1.22 m) diameter concrete culvert that was a slope barrier.



## After Construction



Figure 15. The new crossing is a 49.2 ft (15 m) span arch bridge. The innovative bridge design consists of fiberglass reinforced plastic sheet pile bolted to tubes that are filled with concrete. The structure is set on buried concrete footings. This modular design allows for quicker installation than a traditional bridge while providing high structural strength and light weight.



# Coffee Creek, Tributary to Goldsborough Creek

## Fish Passage Improvement with I4 Funding



Coffee Creek is located in Mason County and previously crossed US 101 at milepost 346.95. This project relocated Coffee Creek to avoid crossing under US 101 and the on/off ramps to Shelton-Matlock Road. This approach satisfies objective 1 of the Injunction by avoiding the necessity of a highway crossing. This project benefits chum, coho, steelhead, and sea-run cutthroat trout, improving access to 13.3 miles (21.44 kilometers) of habitat.

## After Construction



Figure 17. The existing crossing was plugged and left in place, and approximately 2,038 ft (621 m) of Coffee Creek was realigned to flow adjacent to US 101 via a constructed stream channel. A new culvert was constructed for Coffee Creek to pass under Shelton-Matlock Road. This new culvert is a 36 ft (10.97 m) wide by 16.8 ft (5.12 m) high concrete box culvert. Adult chum began using the new stream channel just days after the project was completed.

## Before Construction



Figure 16. The old crossing consisted of three 4.27 ft (1.3 m) diameter corrugated steel culverts and a streambed fishway. Three rock weirs downstream of the culvert aided in fish passage up to and through the culverts. The crossing was considered a barrier because of a grade break in the middle culvert causing excessive velocity at high flow. Only two of the three culverts passed water at a depth sufficient for adult salmonids to transit.

# Kilisut Harbor

## Fish Passage Improvement with I4 Funding and Grants

The Kilisut Harbor project is a partnership of tribal, federal, state, county, and non-profit stakeholders led by the North Olympic Salmon Coalition. Kilisut Harbor was connected to Oak Bay through two small culverts in an earthen causeway for SR 116 in Jefferson County. SR 116 connects Indian Island and Marrowstone Island. This project restores tidal connectivity between Oak Bay and Kilisut Harbor, improving water quality and food resources in Kilisut Harbor for all salmon species, forage fish, and shellfish.



### Before Construction



Figure 18. The old crossing on SR 116 consisted of two 5 ft (1.52 m) diameter concrete culverts that prevented adequate tidal exchange and was considered a partial barrier for fish passage.

### After Construction



Figure 19. The new crossing is a multi-span bridge totaling approximately 410 ft (124.9 m). The reconstructed channel includes a tidal marsh area and a navigable connection for small craft between Oak Bay and Kilisut Harbor.



# Unnamed Tributary to Hoh River

## Fish Passage Improvement with I4 Funding



This unnamed tributary of the Hoh River crosses US 101 at milepost 175.45 in Jefferson County. No other barriers are documented downstream between US 101 and the Hoh River, allowing for immediate benefit to migrating salmon.

## After Construction



Figure 21. The new crossing is a 16.5 ft (5.04 m) wide by 9 ft (2.74 m) high concrete box culvert that allows unimpeded fish passage for coho, steelhead, sea-run cutthroat trout, and bull trout.

## Before Construction



Figure 20. The old crossing was a concrete box culvert 5 ft (1.52 m) wide by 5 ft (1.52 m) high. The culvert was assessed as a high flow velocity barrier to fish passage.

# Harlow Creek, Tributary to Queets River

## Fish Passage Improvement with I4 Funding

Located in Jefferson County, Harlow Creek crosses US 101 at milepost 146.85 and drains to the Queets River. The project replaces the 1996 fishway retrofit for the existing barrier culvert. The entire length of Harlow Creek is located on the Quinault Indian Nation Reservation and is a valuable cultural resource to the People of the Quinault.



## Before Construction



Figure 22. The old crossing was a twin box culvert with each opening measuring 8 ft (2.44 m) wide by 4 ft (1.22 m) high and retrofitted with 22 steel baffles and four log bed controls to aid in fish passage. Deteriorating baffles and an excessive water surface drop over the log controls caused this fishway to be assessed as a partial barrier.



## After Construction

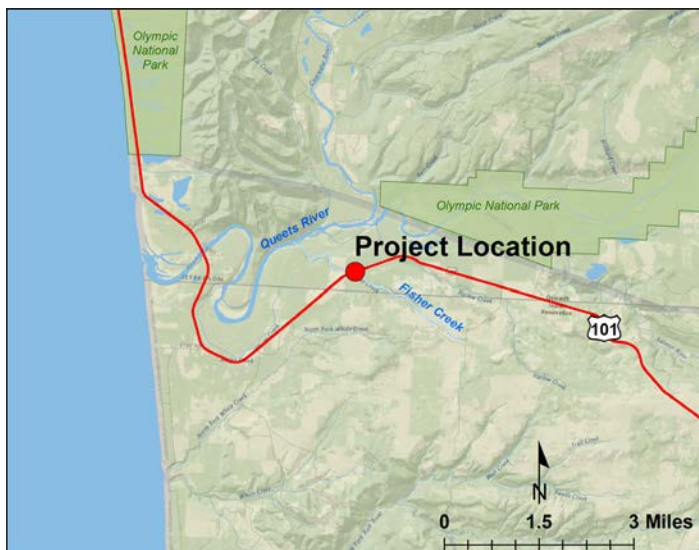


Figure 23. The new crossing is a 133 ft (40.5 m) span bridge that restores access to 9.56 mi (15.38 km) of previously blocked habitat for Chinook, coho, steelhead, and sea-run cutthroat.



# Fisher Creek, Tributary to Queets River

## Fish Passage Improvement with I4 Funding



Fisher Creek is an adjacent watershed to Harlow Creek and drains into the Queets River, crossing US 101 at milepost 147.49. No other fish passage barriers are documented in the Fisher Creek watershed; therefore, the full extent of previously blocked habitat is now accessible to migrating salmon.

## After Construction



Figure 25. The new crossing on US 101 is a 63 ft (19.24 m) span concrete bridge that restores access to 3.19 mi (5.13 km) of habitat for chum, coho, steelhead, sea-run cutthroat, and bull trout.

## Before Construction



Figure 24. The old crossing was a double 5 ft (1.52 m) by 4 ft (1.22 m) concrete split box culvert that was a barrier due to high velocity and low water depth at fish passage flows.

# Hungry Harbor

## Fish Passage Improvement with I4 and Preservation Funding and Grants

Hungry Harbor is an embayment of the Columbia River in Pacific County that passes under SR 401 at milepost 2.03. This project restores access to previously blocked freshwater tributaries and a wetland complex, as well as improves tidal processes along the Columbia River. No other fish passage barriers are documented in this watershed; therefore, salmonids have full use of nearly 2,200 linear feet (670 meters) of stream between a barrier waterfall and the Columbia River. This project was accomplished through a partnership with the Columbia River Estuary Study Taskforce.



### Before Construction



Figure 26. The old crossing was a 5 ft (1.52 m) diameter corrugated metal culvert that blocked Chinook, coho, steelhead, and sea-run cutthroat trout.



Figure 27. The new crossing is an 18.1 ft (5.52 m) wide by 12 ft (3.66 m) high concrete box culvert. The project includes restoration of approximately 175 ft (53.3 m) of stream channel upstream of the highway and enhancement of the floodplain to maximize connectivity at high tide. Juvenile salmon were observed utilizing pool habitat immediately after completion of the project.



Table 2. WSDOT Fish Passage Barrier Corrections Completed. Sorted by Year, Region, Road, and Milepost.

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain <sup>1</sup> (mi)
OL	990480	SR 112	49.48	Whiskey Creek	19.0020	1955	1.69
OL	15.0051 0.10	SR 302	11.36	Little Minter Creek	15.0051	1982	0.10
OL	15.0051 0.20	SR 302	11.42	Little Minter Creek	15.0051	1982	3.69
OL	14.0010 0.10	US 101	356.8	Countyline Creek	14.0010	1985	0.47
NW	08.0049 3.00	I-5 NB	177.67	McAleeer Creek	08.0049	1986	0.09
OL	14.0009A 0.06	US 101	357.9	Holiday Valley Creek	14.0009A	1986	1.10
NW	03.0354A 0.04	SR 20	77.7	Little Careys Creek	03.0354A	1987	0.53
NW	996965	I-90	20.42	tributary to EF Issaquah Creek	08.0186	1990	1.14
OL	990448	US 101	246.4	Tumwater Creek	18.0256	1991	5.55
NW	990142	SR 202	11.96	Evans Creek	08.0106	1992	4.71
OL	990323	SR 3	33.7	Parish Creek	15.0220	1992	1.00
SW	990171	SR 6	8.9	Green Creek	24.0341	1992	1.10
NW	995411	I-5	246.75	Chuckanut Creek	01.0626	1993	0.71
NW	01.0626 0.35	SR 11	18.6	Chuckanut Creek	01.0626	1993	4.78
NW	991712	US 2	18	tributary to Skykomish River	07.0864	1993	1.07
OL	15.0280 1.00	SR 308	1.15	Big Scandia Creek	15.0280	1993	4.00
NW	08.0302 0.00	SR 169	23.62	Maplewood Creek	08.0302	1994	1.20
NW	08.0077 0.20	SR 527	6.57	Penny Creek	08.0077	1994	8.36
NW	990014	SR 542	3.5	Squalicum Creek	01.0552	1994	2.95
OL	990021	US 101	253.85	Bagley Creek	18.0183	1994	6.49
SC	990189	US 97	37.14	Highbridge Springs	37	1994	0.70
SW	990363	US 101	29.8	SF Nemah River	24.0503	1994	2.71
NW	990272	SR 104	29.65	McAleeer Creek	08.0049	1995	3.32
NW	08.0070A 0.01	SR 527	4	Sulphur Springs Creek	08.0070A	1995	0.20
NW	08.0075 0.70	SR 527	4.46	Silver Creek No2	08.0075	1995	1.60
NW	08.0070B 0.30	SR 527	6.32	Nickel Creek	08.0070B	1995	0.80
NW	990644	SR 530	31.01	tributary to Stillaguamish River	05	1995	0.81
NW	991168	SR 530	31.9	tributary to Stillaguamish River	05	1995	0.12
OL	996952	SR 160	3.8	Curley Creek	15.0185	1995	10.13
OL	990219	US 101	267.18	Johnson Creek	17.0301	1995	4.51
NW	991519	SR 18	19.59	tributary to Carey Creek	08.0218A	1996	1.09
NW	990064	SR 18	19.76	Carey Creek	08.0218	1996	11.32
NW	105 R042117a	SR 164	8.24	Pussyfoot Creek - culvert replacement in 1996; retrofitted with fishway in 2000	10.0048	1996	9.33
NW	990271	SR 530	29.63	Mc Govern Creek	05.0168	1996	5.29
NW	991162	SR 530	31.2	tributary to NF Stillaguamish River	05.0168X	1996	0.12
NW	991164	SR 530	32.51	tributary to NF Stillaguamish River	05	1996	0.10
NW	991154	SR 530	55.07	Hatchery Creek	04.1062	1996	0.22
NW	991153	SR 530	55.9	tributary to Skagit River	04.0707	1996	0.07
OL	990348	SR 112	3.99	Rasmussen Creek	19.0230	1996	0.82
OL	990197	US 101	171.7	Huelsdonk Creek	20.0437 D	1996	0.71
OL	990169	US 101	189.4	Grader Creek	20.0237	1996	2.79
EA	990350	SR 20	388.13	Renshaw Creek	62.0310	1997	0.07
EA	990351	SR 20	389.5	Renshaw Creek	62.0310	1997	0.73
NW	990390	SR 18	8.9	Soosette Creek	09.0073	1997	4.71
NW	991155	SR 530	54.6	Lyle Creek	04.1064	1997	1.30
OL	990224	SR 3	57.1	Kinman Creek	15.0368	1997	2.25
OL	22.0349 0.70	US 12	12.36	Camp Creek	22.0349	1997	6.20
OL	991501	US 101	103.65	tributary to Big Creek - new fishway built in 1997; fishway tune up in 2003	22.0057	1997	2.13
OL	991581	US 101	104.9	tributary to Fairchild Creek	22.0052	1997	3.39
OL	990143	US 101	105.6	Fairchild Creek	22.0051	1997	2.63
OL	990164	US 101	186.3	Fuhrman Creek	20.0237E	1997	0.36
OL	990156	US 101	186.41	Frakker Creek	20	1997	0.12
OL	990716	US 101	186.45	tributary to Frakker Creek	20	1997	0.12
OL	991512	US 101	186.7	Forgotten Marsh	20.0237N	1997	0.16
SW	992462	US 101	28.92	Roaring Creek Slough	24.0563	1997	0.26

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain <sup>1</sup> (mi)
EA	990250	SR 20	384.95	Lost Creek	62.0322	1998	16.16
NW	05.0021 4.10	I-5	216.73	WF Church Creek	05.0021	1998	4.47
NW	07.0383A 0.50	SR 202	13.8	Dry Creek	07.0383A	1998	1.75
NW	101S-23	SR 203	7.83	tributary to Harris Creek	07.0285	1998	3.14
NW	997679	SR 509	24.42	Miller Creek	09.0371	1998	3.59
NW	994239	SR 520	6.27	Yarrow Creek	08.0252	1998	0 <sup>3</sup>
OL	990278	SR 108	8.89	McDonald Creek	14.0023	1998	3.67
OL	991852	SR 303	6.9	Barker Creek	15.0255	1998	2.76
OL	990121	SR 305	12.8	Dogfish Creek	15.0286	1998	0.08
OL	991532	US 12	13.8	tributary to Chehalis River	22.0354	1998	2.39
OL	991502	US 101	101.1	tributary to SB Big Creek	22.0059	1998	1.62
OL	991263	US 101	162.15	Big Cedar Creek - baffles installation in 1998; baffles re-installed 2001	20.0576	1998	1.46
OL	990400	US 101	162.6	Steamboat Creek	20.0574	1998	4.62
SW	990119	SR 14	55.8	Dog Creek	29.0130	1998	0.08
SW	990211	SR 14	66	Jewett Creek	29.0342	1998	0.13
SW	990116	SR 142	5.2	Dillacort Creek	30.0009	1998	0.60
NC	990149	SR 971	8.9	First Creek	47.0096	1999	10.56
NC	990145	SR 971	9.1	First Creek	47.0096	1999	0.01
NW	990433	SR 900	19.5	Tibbets Creek	08.0169	1999	1.10
OL	991270	SR 109	36.43	tributary to Pacific Ocean	21.0715	1999	1.91
OL	991690	US 101	111.9	tributary to Stevens Creek	22	1999	0.60
OL	990249	US 101	174	Lost Creek	20.0440	1999	0.83
SW	992272	I-5	42.4	tributary to Cowlitz River	26.0129	1999	0.74
SW	990035	SR 4	35.6	Birnie Creek	25.0281	1999	2.44
SW	990948	US 12	127.44	Dry Creek	26.1119	1999	3.38
SW	991698	US 101	24.13	tributary to Willapa Bay	24.0673	1999	0.41
EA	990881	SR 20	380.1	tributary to Lake Thomas	59	2000	0.35
EA	992006	SR 21	172.17	Lambert Creek	60.0327	2000	11.97
NC	980108	SR 153	29.28	Beaver Creek	48.0307	2000	1.86
NW	990622	I-5	211.5	Secret Creek	05.0065	2000	2.26
NW	991708	SR 20	90.13	tributary to Skagit River	04	2000	0.17
NW	105 R071916a	SR 410	48.29	Boundary Creek	10.0250	2000	0.37
NW	990262	SR 522	1.87	Maple Leaf Creek	08.0033	2000	1.46
NW	990294	SR 528	2.52	Munson Creek	07.0073	2000	1.24
OL	991295	SR 105	31.1	tributary to South Bay	22	2000	0.22
OL	990910	SR 106	6.95	Dalby Creek	14	2000	0.53
OL	990466	US 101	246.9	Valley Creek	18.0249	2000	1.26
SC	990436	US 97	57.2	Toppenish Creek	37.1178	2000	13.13
SW	991684	SR 506	2.33	tributary to Stillwater Creek	26.0429B	2000	0.80
EA	990312	SR 20	309.31	O'Brien Creek	52.0394	2001	7.28
EA	990299	SR 20	309.96	NF O'Brien Creek	52.0394A	2001	0.13
EA	990300	SR 20	310.06	NF O'Brien Creek	52.0394A	2001	0.92
NC	990381	US 2	87.1	Skinney Creek	45.0701	2001	1.90
NC	990382	US 2	87.67	Skinney Creek	45.0701	2001	0.30
NC	990383	US 2	88.03	Skinney Creek	45.0701	2001	0.30
NW	DM10	SR 20	114.94	Damnation Creek	04.1844	2001	1.48
OL	991797	SR 3	25.31	Sweetwater Creek	15.0504	2001	0.68
OL	991729	SR 112	19.56	tributary to Clallam River	19	2001	0.13
OL	991545	SR 112	19.89	tributary to Clallam River	19.0129A	2001	0.13
SW	990220	SR 4	4.5	Johnson Creek	24.0581	2001	2.12
SW	991397	SR 4	25.91	tributary to Skamokawa River	25	2001	0.15
SW	992271	SR 142	3.65	Knight Creek	30.0008	2001	7.19
SW	990036	SR 409	3.85	Birnie Creek	25.0281	2001	0.09
SW	991440	SR 503	49.03	Kenyon Creek	27.0320	2001	0.89
NC	990202	US 97	158.32	Iron Creek	39.1209	2002	8.60
NW	08.0268 0.80	I-405	10.12	Coal Creek	08.0268	2002	5.12

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain <sup>1</sup> (mi)
NW	993115	I-405	29.67	Martha Creek	08.0000	2002	1.75
NW	990344	SR 9	28.38	Portage Creek	05.0036	2002	4.42
NW	991166	SR 9	32.2	Bryant Creek	05.0129	2002	0.34
NW	LP23	SR 9	35.46	tributary to Pilchuck Creek	05.0080B	2002	0.32
NW	LP27	SR 9	35.52	tributary to unnamed tributary	05.0080C	2002	0.19
NW	LP28	SR 9	35.7	tributary to unnamed tributary	05	2002	0.12
NW	990625	SR 9	38.57	tributary to Pilchick Creek tributary	05.0080H	2002	0.66
NW	LP32	SR 9	38.69	tributary to unnamed tributary	05	2002	0.38
NW	NC180	SR 9	39.69	tributary to Lake McMurray	03	2002	0.22
NW	NC170	SR 9	39.87	tributary to Lake McMurray	03	2002	0.18
NW	995398	SR 9	69.88	tributary to Samish River	03	2002	0.22
NW	08.0110 0.10	SR 202	11.05	Rutherford Creek	08.0110	2002	1.10
NW	990291	SR 530	44	Moose Creek	05.0257	2002	4.15
NW	990317	SR 530	44.27	Fink Creek	05.0257A	2002	4.15
NW	991741	SR 534	1.2	tributary to Bulson Creek	03.0199	2002	4.93
SC	990440	SR 241	9.17	tributary to Sulphur Creek Wasteway	37	2002	2.57
SC	990409	SR 410	82.8	Wash Creek	38	2002	0.14
SW	990071	SR 401	8.8	Cement Creek	24.0598	2002	4.02
EA	990180	SR 21	155.06	Golden Harvest Creek	52.0352	2003	13.53
NW	08.0183 1.00	I-90	17	EF Issaquah Creek	08.0183	2003	0.89
NW	995981	SR 9	0.88	tributary to Little Bear Creek	08	2003	0.47
NW	990208	SR 18	12.7	Jenkins Creek	09.0087	2003	10.18
NW	990209	SR 18	13.8	Jenkins Creek	09.0087	2003	5.10
NW	995977	SR 20	25.77	tributary to Penn Cove	06.0003	2003	0.79
NW	991199	SR 167	23.65	Upper Springbrook Creek	9.002	2003	0.53
NW	101S-27	SR 203	12.76	Deer Creek	07	2003	0.73
NW	991189	SR 527	6.99	tributary to North Creek	08	2003	0.31
OL	161180	US 101	167.44	Fletcher Creek	20.0426	2003	1.36
SW	990377	US 12	81.22	Silver Creek	26.0540	2003	4.22
NW	994411	I-90	15.48	Tibbets Creek	08.0169	2004	4.23
NW	990136	SR 11	6.84	Edison Slough	03.0001	2004	8.78
NW	105 S012018a	SR 509	10.71	Lakota Creek	10.0386	2004	1.32
NW	990434	SR 542	15.32	Jim Creek	01.0000	2004	0.59
NW	995578	SR 542	44.14	tributary to NF Nooksack River	01	2004	0.12
NW	995580	SR 542	44.34	tributary to NF Nooksack River	01	2004	0.12
NW	995584	SR 542	45.57	Happy Valley Creek	01	2004	0.45
OL	115 MC176	SR 106	7.06	Alderbrook Creek	14	2004	0.57
OL	19.0110 0.50	SR 112	32.02	Jim Creek	19.0110	2004	8.76
OL	18.0234 1.10	US 101	250	Ennis Creek	18.0234	2004	5.56
OL	17.0285 0.20	US 101	270.98	Jimmycomelately Creek	17.0285	2004	6.46
OL	990370	US 101	359.6	Schneider Creek	14.0009	2004	7.21
SW	992311	US 101	53.56	Old Mill Pond Creek	24	2004	0.39
NC	990228	SR 20	181.34	Little Boulder Creek	48.1400	2005	3.14
NC	992058	SR 262	13.19	Irrigation Ditch to Potholes Reservoir	41	2005	6.84
NW	991576	SR 18	18.19	Taylor Creek	08.0326	2005	1.06
NW	990426	SR 18	18.43	Taylor Creek	08.0326	2005	1.02
NW	991821	SR 92	0.47	Stevens Creek	07.0147	2005	1.29
NW	991620	SR 161	33.9	tributary to EF Hylebos Creek	10.0016A	2005	1.33
NW	992374	SR 522	18.44	tributary to Evans Creek	07.0211	2005	1.67
NW	990016	SR 522	18.77	tributary to unnamed tributary	07	2005	0.23
NW	102 N171	SR 527	7.38	Mill Creek	08.0070	2005	0.70
NW	993087	SR 527	9.33	tributary to Penny Creek	08	2005	0.12
NW	995582	SR 542	45.51	Happy Valley Creek	01	2005	0.10
OL	990384	SR 106	0.85	Skobob Creek	16.0004	2005	0.89
OL	991636	SR 706	8.02	tributary to Nisqually River	11.0008A	2005	4.51
OL	991227	SR 706	9.81	tributary to Nisqually River	11.0222	2005	0.21
OL	991275	US 101	130.6	tributary to Ten O'Clock Creek	21	2005	0.15

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain <sup>1</sup> (mi)
EA	991471	SR 31	18.22	Three Mile Creek	62.0051	2006	4.77
NC	980114	SR 20	205.84	Beaver Creek	48.0307	2006	50.11
NC	980124	SR 20	206.85	Frazer Creek	48.0309	2006	7.64
NC	990282	US 2	70.21	Mill Creek	45.0956	2006	7.18
NW	990376	I-405	19.12	Forbes Creek	08.0242	2006	2.93
NW	995980	SR 9	0.97	tributary to Little Bear Creek	08	2006	0.31
NW	990316	SR 9	1.16	Cutthroat Creek	08.0083	2006	1.74
NW	370220	SR 9	96.1	Easterbrook Creek	01.0686	2006	0.47
NW	370219	SR 9	96.6	Bone Creek	01.0685	2006	2.27
NW	08.0320 1.30	SR 18	16.94	Downs Creek - culvert replacement in 2006; fishway rebuild 2008	08.0320	2006	2.42
NW	995979	SR 20	14.65	Crockett Lake	06.0053	2006	1.78
OL	990714	SR 112	24.91	tributary to Pysht River	19.0113K	2006	1.00
OL	990713	SR 112	54.35	Bear Creek	19.0014	2006	2.32
OL	990998	SR 305	11.62	SF Dogfish Creek	15	2006	0 <sup>4</sup>
OL	991853	SR 305	12.1	SF Dogfish Creek	15.0000	2006	0 <sup>4</sup>
OL	996943	SR 305	12.16	SF Dogfish Creek	15	2006	0 <sup>4</sup>
OL	991854	SR 305	12.29	SF Dogfish Creek	15.0000	2006	0 <sup>4</sup>
OL	15.0285 H 0.50	SR 305	12.34	SF Dogfish Creek	15	2006	0.99
SW	992223	SR 142	13.4	Snyder Canyon Creek	30.0018	2006	3.89
SW	30.0068 0.40	SR 142	20.2	Bowman Creek	30.0068	2006	22.79
EA	995837	SR 270	4.29	tributary to Paradise Creek	34	2007	4.62
EA	999625	SR 270	9.08	tributary to Paradise Creek	34	2007	1.61
NC	994035	SR 20	278.6	Bonaparte Creek	49.0246	2007	10.99
NC	995038	US 2	57.8	tributary to Tye River	07	2007	0.13
NW	993090	I-5	182.73	Swamp Creek	08.0059	2007	6.69
NW	08.0059 7.00	I-405	29.75	Swamp Creek	08.0059	2007	0.39
NW	07.0148 1.30	SR 92	1.93	Catherine Creek	07.0148	2007	4.55
NW	996459	SR 524	13.05	Whistle Creek	08	2007	0.16
NW	990578	SR 542	28.3	tributary to Boulder Creek	01.0425	2007	0.35
NW	981788	SR 548	6.35	Terrell Creek	01.0089	2007	4.26
OL	991566	SR 303	5.6	Steele Creek	15.0274	2007	1.99
OL	990122	SR 307	0.07	Dogfish Creek	15.0286	2007	4.32
SC	990988	SR 24	1.07	Blue Slough	37	2007	2.30
NW	991817	SR 9	31.61	tributary to Bryant Creek	05	2008	0.48
NW	FD41	SR 20	44.74	Meadow Creek	03	2008	5.10
NW	995209	SR 96	3.96	tributary to unnamed tributary	07	2008	0.04
NW	991641	SR 524	9.1	Filbert Creek	08	2008	0.71
NW	991109	SR 539	2.06	tributary to Spring Creek	01.0553	2008	0.24
NW	990112	SR 539	4.3	Deer Creek	01.0165	2008	4.73
SC	999499	US 12	319.35	Touchet River	32	2008	0 <sup>5</sup>
SW	994652	I-5	11	tributary to Gee Creek	27.0168A	2008	1.28
NW	991751	SR 531	3.8	Cougar Creek	05.0041	2009	0.48
NW	990046	SR 542	28.01	Bruce Creek	01	2009	1.86
NW	990023	SR 542	28.74	Baptist Camp Creek	01.0433	2009	0.32
NW	991184	SR 900	20.09	Clay Creek	08.0172	2009	0.12
NW	991723	SR 900	20.34	tributary to Tibbetts Creek	08.0171	2009	0.40
OL	998155	SR 16	20.06	tributary to Burley Creek	15	2009	0.11
OL	993576	SR 16	20.2	tributary to Burley Creek	15	2009	0.12
OL	992196	SR 104	12.7	tributary to Squamish Harbor	17.0185	2009	1.13
OL	991244	SR 106	2.95	tributary to Skokomish River	16.0002	2009	0.27
OL	991908	US 101	76.48	Mosquito Creek	24.0137	2009	2.21
SW	994286	I-5	74.05	Berwick Creek	23.0081	2009	7.19
SW	992234	SR 122	4.99	tributary to Mayfield Lake	26	2009	1.15
EA	997498	US 2	296.35	Deadman Creek	55.0051	2010	57.29
NW	991060	SR 542	16.07	tributary to Nooksack River	01	2010	0.12
NW	990606	SR 542	38.98	Chain-up Creek	01	2010	0.17

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain <sup>1</sup> (mi)
OL	990709	SR 305	9.6	tributary to Liberty Bay	15.0291	2010	1.74
OL	991742	SR 305	9.86	Bjorgen Creek	15.0290	2010	0.94
OL	991252	US 101	335.02	tributary to Hood Canal	16.0218	2010	0.13
SW	931450	SR 105	24.26	tributary to Seastrand Creek	24	2010	0 <sup>6</sup>
SW	993139	SR 105	24.42	tributary to Seastrand Creek	24	2010	0 <sup>6</sup>
SW	992821	US 101	3.3	tributary to Columbia River	24	2010	0.87
NW	AR11	SR 20	75.75	Red Cabin Creek	3.0343	2011	8.70
NW	994459	SR 520	4.48	tributary to Lake Washington	8.0257	2011	1.49
NW	998987	SR 520	4.81	tributary to Lake Washington	08	2011	0.62
NW	994119	SR 520	5.81	tributary to Yarrow Creek	08	2011	0.32
NW	990429	SR 548	4.67	Terrell Creek	01.0089	2011	7.03
NW	07.0939 0.40	US 2	23.08	Wagleys Creek	07.0939	2011	9.39
OL	999532	I-5	85.81	tributary to Dry Creek	23	2011	0.99
OL	992493	US 101	68.99	tributary to Lower Salmon Creek	24.0106	2011	2.86
OL	990729	US 101	100.9	tributary to SB Big Creek	22.0059	2011	0.75
OL	990032	US 101	102.14	tributary to SB Big Creek	22.0059	2011	2.52
SW	990307	SR 105	16.57	Norris Slough	24	2011	1.55
EA	990096	SR 21	172.85	Curlew Creek	60.0288	2012	14.86
NW	08.0183 1.60	I-90	18.83	EF Issaquah Creek	08.0183	2012	6.88
NW	931684	SR 9	2.65	tributary to Great Dane Creek	08	2012	0.12
NW	991486	SR 167	25.65	Panther Creek <sup>2</sup>	9.0006	2012	3.72
NW	994234	SR 520	5.95	Yarrow Creek	08.0252	2012	3.99
NW	994227	SR 520	5.95	Yarrow Creek	08.0252	2012	0 <sup>3</sup>
NW	991736	SR 520	6.04	Yarrow Creek	8.0252	2012	0 <sup>3</sup>
NW	990151	SR 530	42.99	Fortson Creek	05.0254	2012	0.64
OL	991730	SR 112	25.6	tributary to Pysht River	19	2012	2.08
OL	990304	SR 112	47.1	Nelson Creek	19.0032	2012	2.91
SW	994301	I-5	81.77	China Creek	23.0870	2012	5.15
SW	990052	US 97	21.35	Butler Creek	30.0140	2012	13.71
EA	990362	SR 21	133.6	S Nanamkin Creek	52.0125	2013	15.97
NC	991849	US 2	88.54	Skinney Creek	45.0701	2013	0.45
NW	991036	I-5	255.40	Squalicum Creek	01.0552	2013	18.69
NW	991448	SR 9	67.33	NP Creek	3.0078	2013	1.31
NW	994389	SR 11	20.42	Padden Creek	01.0622	2013	7.20
NW	994449	SR 520	6.03	Yarrow Creek	8.0252	2013	0 <sup>3</sup>
NW	994705	SR 520	6.44	SF Yarrow Creek	08	2013	0 <sup>3</sup>
OL	990297	SR 7	41.17	Muck Creek	11.0018	2013	5.21
OL	991246	SR 106	13.50	Twanoh Falls Creek	14.0132	2013	2.81
OL	993048	SR 107	0.76	tributary to Little North River	24	2013	0.01
OL	990092	SR 112	57.61	Coville Creek	19.0001	2013	9.76
OL	991215	SR 162	4.82	Ball Creek	10.0405	2013	1.54
SC	992942	I-90	56.81	Rocky Run Creek	39.1867A	2013	0.16
SW	993138	SR 105	24.39	Seastrand Creek	24.0003	2013	1.38
SW	932550	SR 142	23.66	tributary to Little Klickitat River	30	2013	1.16
SW	992228	US 12	115.29	tributary to Cowlitz River	26.1030	2013	0.55
NW	932370	SR 410	31.12	Scatter Creek	10.0073	2014	16.71
NW	994236	SR 520	6.19	Yarrow Creek	8.0252	2014	0 <sup>3</sup>
NW	994704	SR 520	6.40	tributary to Yarrow Creek	08	2014	0 <sup>3</sup>
NW	994237	SR 520	6.26	Yarrow Creek	8.0252	2014	0 <sup>3</sup>
NW	994238	SR 520	6.27	Yarrow Creek	8.0252	2014	0 <sup>3</sup>
NW	994128	SR 522	21.95	tributary to Skykomish River	7.0814	2014	0.83
NW	994125	SR 522	21.97	tributary to Skykomish River	7.0814	2014	0.07
NW	995404	SR 530	36.83	tributary to NF Stillaguamish River	05	2014	0.04
NW	991169	SR 530	36.9	tributary to NF Stillaguamish River	05	2014	0 <sup>6</sup>
NW	991170	SR 530	37.58	tributary to NF Stillaguamish River	05	2014	0 <sup>6</sup>
NW	990359	SR 530	37.95	Rowan II Creek	05.0220A	2014	0 <sup>7</sup>



Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain <sup>1</sup> (mi)
NW	991171	SR 530	37.96	tributary to NF Stillaguamish River	05	2014	0 <sup>7</sup>
NW	995405	SR 530	38.13	tributary to NF Stillaguamish River	05	2014	0 <sup>7</sup>
OL	15.0229 0.10	SR 3	40.96	Chico Creek - temporary weirs inside the box culvert	15.0229	2014	pending <sup>8</sup>
OL	990555	US 101	259.79	Owl Creek	18	2014	2.23
NW	991120	SR 9	42.36	Lake Creek	03.0227	2015	9.83
NW	991210	SR 99	6.86	WF Hylebos Creek <sup>2</sup>	10.0014	2015	2.09
NW	991718	SR 203	14.55	Coe Clemons Creek	07	2015	1.45
NW	08.0052 0.10	SR 522	5.76	Lyon Creek	08.0052	2015	9.51
NW	01.0228 4.80	SR 542	6.55	Anderson Creek <sup>2</sup>	01.0228	2015	13.61
SC	995878	SR 129	5.78	Rattlesnake Creek	35.2314	2015	8.97
SW	991374	SR 4	3.1	Petes Creek	24.0572	2015	7.09
SW	931100	SR 4	33.94	tributary to Elochoman Slough	25	2015	0.19
SW	990818	SR 4	34.1	tributary to Elochoman Slough	25	2015	1.68
SW	990283	SR 502	5.13	Mill Creek	28.0079	2015	2.79
NW	930179	SR 167	11.43	tributary to Milwaukee Canal	10	2016	1.44
NW	996928	SR 522	9.6	Horse Creek	08	2016	1.64
NW	990624	SR 532	9.75	Secret Creek	05.0065	2016	2.84
NW	991621	SR 542	24.9	High Creek	01	2016	2.41
NW	996155	SR 548	11.19	tributary to Drayton Harbor	01.0044	2016	2.02
OL	996735	SR 3	26.13	tributary to Mindy Creek	15	2016	0.81
OL	996753	SR 16 EB	28.1	Anderson Creek	15.0211	2016	5.77
OL	990017	SR 16 WB	28.1	Anderson Creek	15.0211	2016	0.00
OL	992205	SR 104	22.47	Grovers Creek	15.0299	2016	3.23
OL	14.0021 0.30	SR 108	11.9	Little Skookum Creek	14.0021	2016	3.37
OL	990205	SR 112	5.17	Jansen Creek	19.0228	2016	3.55
OL	990214	SR 112	33.21	Joe Creek	19.0109	2016	4.45
OL	990144	SR 112	48.49	Field Creek <sup>2</sup>	19.0026	2016	5.55
OL	990962	SR 121	4.04	Blooms Ditch	23.0684	2016	3.07
OL	343040	SR 121	4.1	tributary to Blooms Ditch	23	2016	0.04
OL	990972	SR 161	12.85	South Creek	11.0028	2016	23.83
OL	105 R050320a	SR 167	10.8	Jovita Creek <sup>2</sup>	10.0032	2016	2.53
OL	990123	SR 307	0.49	Dogfish Creek	15.0285	2016	4.90
OL	992002	SR 307	4.62	Gamble Creek	15.0356	2016	6.22
OL	991049	SR 507	36.35	Lacamas Creek	11.0022	2016	15.09
OL	20.0312 0.60	US 101	197.1	Swanson Creek	20.0312	2016	4.13
EA	990267	US 395	249.98	Matsen Creek	60.0056	2017	0.90
NW	03.0181 0.50	I-5	219.41	Fisher Creek <sup>2</sup>	03.0181	2017	17.11
NW	996475	I-90	17	tributary to NF Issaquah Creek	08.0000	2017	0.22
NW	996963	I-90	17	NF Issaquah Creek	08.0181	2017	0.86
NW	934151	I-90	17.06	tributary to NF Issaquah Creek	08	2017	0.09
NW	995181	SR 203	14.1	Thayer Creek	07	2017	0.78
NW	991058	SR 531	8.65	Edgecomb Creek	07	2017	0.06
NW	991059	SR 531	8.71	Edgecomb Creek <sup>2</sup>	07	2017	1.76
NW	05.0018 2.00	SR 532	6.14	Church Creek <sup>2</sup>	05.0018	2017	12.73
NW	991842	SR 900	15.86	Green Creek	08.0000	2017	1.34
OL	991660	SR 112	52.9	Nordstrom Creek	19.0011	2017	3.02
OL	18.0021 5.40	US 101	260.93	Matriotti Creek <sup>2</sup>	18.0021	2017	5.02
SC	999342	I-90	59.37	Resort Creek	39.1861	2017	0.84
SW	991409	SR 401	0.84	Megler Creek	24.0049	2017	0.80
NC	990413	US 97	159.24	Swauk Creek	39.1157	2018	4.36
NC	992763	US 97	165.54	tributary to Tronsen Creek	45	2018	0.43
NW	991122	SR 9	48	Gribble Creek <sup>2</sup>	03	2018	2.67
NW	990233	SR 92	2.73	Little Pilchuck Creek	07.0146	2018	28.93
NW	102 L062	SR 202	0.10	Little Bear Creek	08.0080	2018	21.41
NW	991717	SR 203	4.98	Historic Langlois Creek	07	2018	5.54



Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain <sup>1</sup> (mi)
NW	102 L020	SR 524	12.44	Great Dane Creek	08.0084	2018	4.47
NW	990187	SR 542	32.00	Hedrick Creek	01.0463	2018	0.34
OL	22.0507 0.10	SR 8	5.00	MF Wildcat Creek	22.0507	2018	18.64
OL	990133	SR 8	6.30	EF Wildcat Creek	22.0503A	2018	13.62
OL	991739	SR 112	7.35	Olsen Creek	19.0227	2018	3.62
OL	994791	US 12	9.04	tributary to Wynoochee River	22	2018	1.65
SC	992948	I-90	60.60	Townsend Creek	39	2018	1.63
SC	992950	I-90	61.35	Price Creek	39.1840	2018	1.04
SW	991634	SR 504	17.00	Wooster Creek	26.0320	2018	1.76
NW	992349	SR 9	77.36	tributary to Tawes Creek	01.0248	2019	0.59
NW	992350	SR 9	77.43	tributary to Tawes Creek	01.0248	2019	3.14
NW	992356	SR 9	77.94	Tawes Creek	01.0247	2019	2.19
NW	991160	SR 530	25.94	Schoolyard Creek <sup>2</sup>	05.0145	2019	3.53
SC	990048	SR 129	0.90	Buford Creek	35.2307	2019	3.96
SW	990735	SR 6	22.64	Salmon Creek	23.1166	2019	3.56
SW	990744	SR 6	31.06	SB Fronia Creek	23.1145	2019	3.48
SW	990746	SR 6	31.08	Fronia Creek	23.1145	2019	0.00
NW	995715	I-5	268.64	tributary to California Creek	01.0068	2020	3.20
NW	990581	SR 11	18.65	Hoag's Creek	01.0627	2020	0.71
NW	990325	SR 202	13.24	Patterson Creek	07.0376	2020	3.21
NW	991174	SR 202	19.69	tributary to Patterson Creek	07.0378	2020	2.58
NW	991173	SR 202	19.77	tributary to Patterson Creek	07.0377	2020	5.47
NW	991716	SR 203	13.60	Loutsis Creek	07	2020	3.14
NW	991159	SR 530	24.65	Trafton Creek	05.0137	2020	2.81
NW	996003	SR 548	0.29	tributary to California Creek	01.0082	2020	3.30
OL	990943	SR 116	4.67	Kilisut Harbor	17	2020	1.49
OL	990178	US 101	146.85	Harlow Creek <sup>2</sup>	21.0134	2020	10.49
OL	990148	US 101	147.49	Fisher Creek	21.0018	2020	3.19
OL	991647	US 101	175.45	tributary to Hoh River	20	2020	1.89
OL	115 MC093	US 101	346.95	Coffee Creek	14.0036	2020	13.32
SW	991412	SR 401	2.03	Hungry Harbor	24	2020	0.42

Total: 1215.19 mi

Shaded - injunction barrier corrections

- 1 - For watersheds with multiple corrections, lineal gain is typically shown for the site highest in the watershed and incremental gain is shown for lower sites.
- 2 - Previous correction reverted to a barrier; barrier re-corrected.
- 3 - Lineal gain represented by site 994234 (2012).
- 4 - Lineal gain represented by site 15.0285 H 0.50 (2006).
- 5 - Bridge repair and fish passage improvement in 2008, but still a barrier due to outfall drops.
- 6 - Amount of habitat gain unknown at this time.
- 7 - Amount of habitat gain unknown; site not previously documented as a barrier before emergency situation.
- 8 - Pending: interim fix; potential gain will be reported after the culvert is replaced by a bridge.

## 2021 Fish Passage Projects Planned

Twenty barrier correction projects are scheduled for completion in 2021 (Figure 28, Table 3). The 20 projects will open up an estimated 110.42 miles (177.7 kilometers) of potential upstream habitat. Five projects will correct previous corrections that have reverted to barriers, including four culverts previously retrofitted with fishways. Seventeen of the 20 barrier corrections planned for 2021 will correct injunction barriers.

Eighteen of the barrier corrections are stand-alone projects funded by the WSDOT environmental improvement subprogram I4. Two barriers in Okanogan County are being corrected in partnership with Trout Unlimited with funding through the Fish Barrier Removal Board.

Figure 28. WSDOT fish passage projects scheduled for completion in 2021

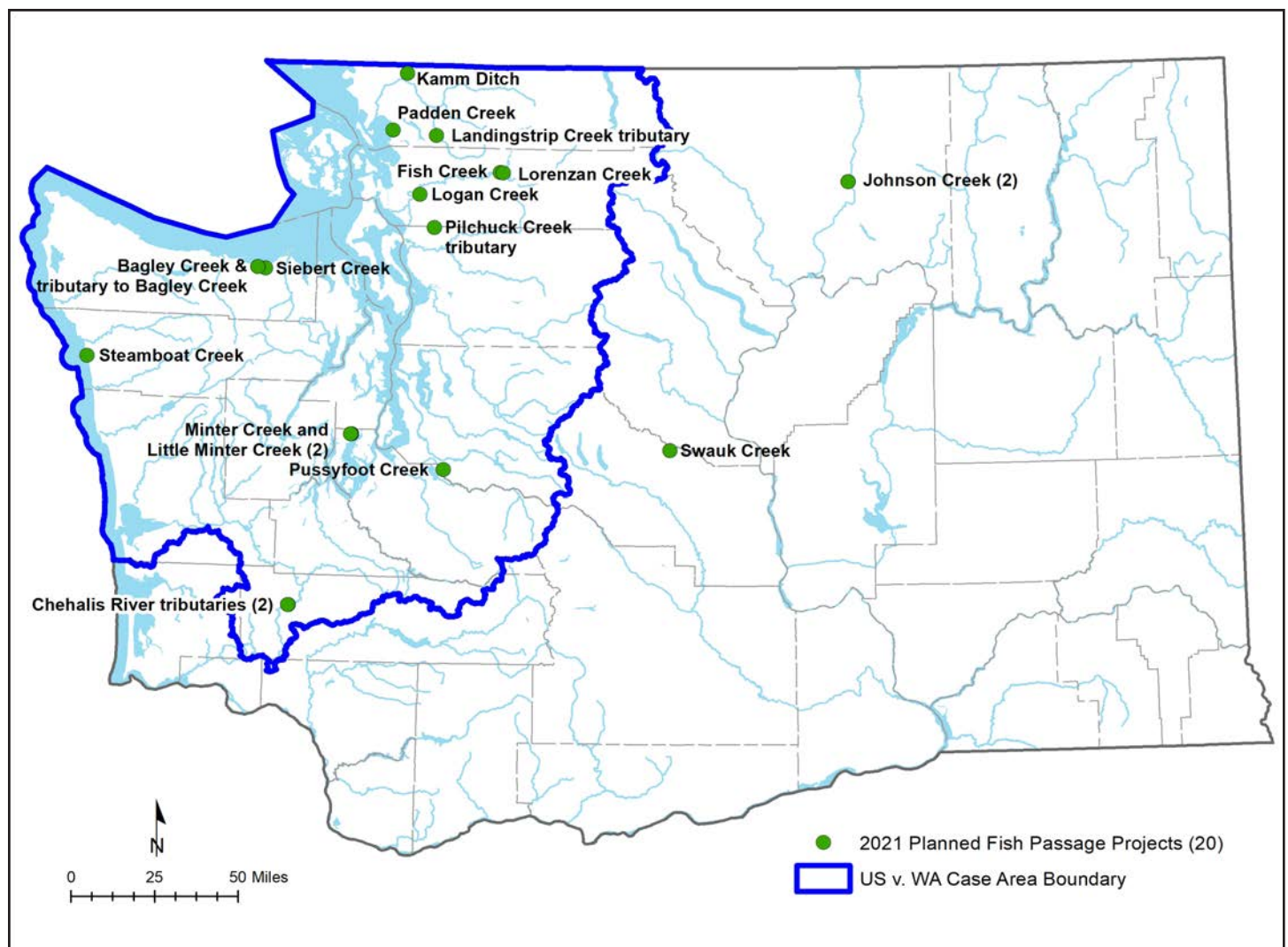


Table 3. Fish Passage Projects Planned for Completion in 2021

Site ID	Injunction Culvert	WSDOT Region	Road	MP	Stream	WRIA	Lineal Gain <sup>1</sup> (mi)	Incremental Gain <sup>1</sup> (mi)	Funding
994386	Yes	NW	SR 11	21.08	Padden Creek	1	5.35	0.41 <sup>2</sup>	I4
990223	Yes	NW	SR 546	4.21	Kamm Ditch	1	1.40	1.40	I4
991106	Yes	NW	SR 9	70.6	tributary to Landingstrip Creek	3	1.34	1.34	I4
NC129	Yes	NW	SR 538	2.18	Logan Creek	3	1.61	1.61	I4
GR9	Yes	NW	SR 20	87.70	Fish Creek	4	1.46	1.46	I4
GR23	Yes	NW	SR 20	88.83	Lorenzan Creek	4	0.98	0.98	I4
LP19	Yes	NW	SR 9	37.26	tributary to Pilchuck Creek	5	0.02	0.02	I4
105 R042117a <sup>3</sup>	Yes	NW	SR 164	8.24	Pussyfoot Creek	10	9.33	9.33	I4
990286	Yes	OL	SR 302	11.30	Minter Creek	15	29.27	25.48 <sup>2</sup>	I4
15.0051 0.10 <sup>3</sup>	Yes	OL	SR 302	11.44	Little Minter Creek	15	3.79	0.10 <sup>2</sup>	I4
15.0051 0.20 <sup>3</sup>	Yes	OL	SR 302	11.50	Little Minter Creek	15	3.69	3.69	I4
934250	Yes	OL	US 101 ROW	253.84	Tributary to Bagley Creek	18	1.12	1.12	I4
990021 <sup>3</sup>	Yes	OL	US 101	253.85	Bagley Creek	18	6.49	6.49	I4
18.0173 2.40	Yes	OL	US 101	256.10	Siebert Creek	18	33.99	33.99	I4
990400 <sup>3</sup>	Yes	OL	US 101	162.60	Steamboat Creek	20	4.62	4.62	I4
991544	Yes	SW	SR 6	46.39	Tributary to Chehalis River	23	7.92	7.92	I4
991757	Yes	SW	SR 6	46.50	Tributary to Chehalis River	23	8.11	0.19 <sup>2</sup>	I4
990414	No	NC	US 97	159.67	Swauk Creek	39	3.36	3.36	I4
990217	No	NC	US 97	299.02	Johnson Creek	49	6.90	6.90	G
960240	No	NC	US 97 ROW	299.04	Johnson Creek	49	0.00	0.00 <sup>4</sup>	G

**Total 130.76 mi 110.42 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> Previously corrected site.

<sup>4</sup> Gain reflected in site 990217's value.

#### Funding Codes:

I4 = Improvement

G = Grants

# Project Planning

---

## WSDOT Barrier Corrections and Planning Strategy

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

- Stand-alone correction projects address some of the highest priority barriers.
- Correcting barriers as part of larger safety or mobility projects is a cost-effective way to accelerate barrier correction and reduce mobilization costs.

### Stand-alone Projects

These projects are part of the WSDOT Environmental Retrofit Subprogram (I4). The sole purpose of these projects is to correct fish passage barriers. 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,
- project cost in relation to program funding,
- 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),
- notably complex design challenges (e.g. adjacent barriers, complex right of way issues, unstable stream conditions, etc.),
- partnership opportunities with local agencies,

Tribes, enhancement groups, and other landowners.

Although WSDOT prioritizes known barriers statewide for correction, barrier culverts within the case area help contribute to WSDOT's commitments under the federal culvert injunction. The prioritization process aims to select the projects that efficiently provide benefits for anadromous and resident fish species.

### WSDOT Transportation Improvement Projects

WSDOT fish passage barrier correction can also occur by integrating the barrier project with 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 case by 2030, WSDOT is advancing project delivery through numerous efficiencies, including:

- utilizing the Design-Build process to encourage innovative design and delivery methods through fiscal responsibility,
- 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 maximizing funding streams, and

- 
- ensuring early right-of-way acquisition and utility notification reduces schedule delays.

# Fish Passage Barrier Inventory

## Fish Passage Inventory Updates

WDFW has inspected 7,628 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 7,628 water crossings, 3,965 were identified as crossings over fish bearing waters.
- Approximately 52% (2,073) of the examined fish bearing crossings were identified as barriers (Table 4). Out of the 2,073\* barriers, 1,062 are total barriers to fish passage, 959 provide partial fish passage, while 52 barriers have an unknown percent passability.
- Two hundred and eighteen crossings require further analysis to determine fish passage barrier status.
- Barriers with a significant habitat gain\*\* (1,531) may be prioritized for correction with dedicated funding.
- Ninety-one fish passage barrier crossings require

verification of significant habitat gain

Culvert conditions can change over time and reassessment of barrier and non-barriers is an ongoing effort. One example is WSDOT’s reassessment of injunction-relevant non-barrier culverts every 10 years. In 2020, WDFW reassessed 54 injunction relevant non-barrier culverts and determined

- 17 had no change in barrier status,

\*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 4. 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>
2073	Total Barriers (0% Passable)	Partial Barriers (33% or 67% Passable)	Percent Passable Unknown	218	1531	451	91	365
	1062	959	52					

Based on WSDOT Fish Passage Inventory as of June 1, 2021.

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

<sup>2</sup> Three hundred and sixty-five 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.

- 
- 21 changed to an unknown barrier status,
  - two were non-fish bearing,
  - 14 were barriers.

WSDOT also directs WDFW to reassess water crossings in specific locations 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.



---

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

In 2020, WSDOT corrected 13 injunction barriers, opening 53.86 miles (86.68 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, 2021, WSDOT has 1,002 culvert barriers relevant to the U.S. v. WA case - 818 with significant habitat upstream ( $\geq 200$  meters) and 184 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 the List of WSDOT Case Area Barrier Culverts:

- 86 barriers have been corrected and are no longer barriers,
- 34 culverts are on resident-fish streams, not containing steelhead or salmon,
- 13 barriers are on streams determined to be non-fish bearing,
- 4 barriers are equipped with tide gates,
- 1 barrier was a duplicate record in WDFW's database,
- 29 barriers were re-evaluated as fish passable,
- 14 barriers were incorrectly assigned to WSDOT ownership,
- 1 barrier is not a culvert under a roadway as defined by the federal injunction.
- 170 new injunction relevant barrier culverts were identified.

Appendix I lists the barrier culverts relevant to the injunction as of June 1, 2021. Appendix II lists the updates to the List of WSDOT Case Area Barrier Culverts.



# Monitoring

---

## 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.

## Monitoring Results

The Monitoring Program conducted 35 interval inspections during 2020, including: 15 Post-Construction Compliance Inspections, seven Over-Winter Inspections, and 13 Long-Term Evaluations. In addition, the Monitoring Program also conducted Increased Monitoring Evaluations at 16 sites in 2020 under Action #2 of the Monitoring Plan. Detailed monitoring results for 2020 can be found in Appendix IV.

Of the 15 Post-Construction Inspections, two projects were flagged to receive annual evaluations due to monitoring responses outside expected norms, and a third project requires five years of annual monitoring as a commitment to the Tulalip Tribes.

- SR 11 Hoag's Creek developed a seasonal subsurface flow condition through a portion of

---

the stream channel inside the new culvert not reflective of the seasonal flow regime of the creek, which impacts movement of juvenile fish in the reach. This project will receive a streambed correction within the structure during summer 2021 and will be reassessed afterwards.

- US 101 Harlow Creek underwent an unexpected regrade and realignment of the stream channel immediately after construction, which continued throughout the winter months. A large wood and planting augmentation plan is being developed for implementation during the 2021 fish window. The project will be monitored closely for signs of hindering fish passage until the channel becomes stable.
- SR 530 Trafton Creek is being visited annually during the low flow period to monitor fish passage through the project reach until Year 5. Any developing water surface drops over the channel-spanning cross vanes are recorded and drops exceeding the WAC for fish passage will be addressed. The regional project office is independently monitoring the stream channel biannually to assess the experimental hydraulic design of the project. Reporting of that effort is beyond the scope of this report.

All seven Over-Winter Inspections determined the projects met fish passage standards. Two projects needed additional work to be compliant with the design and construction permits but neither inhibited fish passage. The additional work was completed during the 2020 fish window and reassessed afterwards. Both projects were deemed satisfactory and resumed the regular monitoring schedule.

All 13 Long-Term Evaluations met fish passage standards and stream function for the Year 5 Interval. SR 9 Lake Creek was flagged for increased monitoring because the stream channel shifted in response to a large log in the channel immediately upstream of the bridge, which entrained the channel on the right bank bridge abutment.

For the 16 projects receiving an Increased Monitoring

Evaluation (typically annually), five will remain on an annual schedule, three no longer pose a concern for fish passage and reverted to the regular monitoring schedule, one was a one-time special request from regional staff, and seven were flagged for adaptive management to maintain or restore fish passage per Actions #3 and #4 of the Monitoring Plan. Two of the seven were new additions to the list in 2020, which contains a total of 10 projects.

- SR 504 Wooster Creek is evaluated annually to monitor an anticipated natural regrade. Minor rock moving action is proposed for summer 2021 to allow the regrade to continue unhindered by the natural angular rock present in the creek and to prevent long-term hydraulic drops downstream of the new structure.
- Four sites on SR 520 Yarrow Creek continue to receive annual monitoring through 2021 to document the developing function of channel complexity features added to these projects in 2019.
- SR 6 SB Fronia Creek, SR 6 Fronia Creek, and SR 532 Church Creek projects were evaluated for channel stability. All three remain fish passable and little change to the stream channel was noted since the last evaluations. Therefore, all will revert to the regular monitoring schedule.
- The 10 projects proposed for adaptive management actions to address underperforming stream issues are SR 202 Little Bear Creek (sheet flow), SR 900 Green Creek (low depth of flow, channel continuity), SR 532 Secret Creek (entrainment), SR 3 Mindy Creek tributary (subsurface flow), US 101 Matriotti Creek (seasonal subsurface flow), SR 112 Joe Creek (flow loss and low depth of flow), I-90 NF Issaquah Creek (sheet flow), I-90 NF Issaquah Creek tributary (channel continuity/fish stranding), SR 203 Thayer Creek (subsurface flow), and I-90 Resort Creek (flow loss).

## Post-Project Evaluation for Fish Presence

Adult spawner surveys determine species presence or absence above and below a newly completed fish passage project. Typically, the surveys are conducted 500 meters (1,640.5 feet) downstream and upstream of the project. The 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.

Not all potential habitat may be utilized by salmonids immediately following a fish passage correction. In some cases, it may take years before the newly opened habitat is utilized to its full potential. 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, harvest, and general habitat degradation or loss.

Appendix V lists recent spawner surveys conducted by WDFW for 14 projects. In late 2020 and early 2021, WDFW conducted salmon spawner surveys on 20 streams where WSDOT recently completed fish passage projects. During those surveys, adult salmon or redds were detected upstream of five WSDOT fish passage projects. Adult salmon or redds were not detected upstream of the other 15 sites surveyed. This could be due to other fish passage barriers located downstream, or poor visibility when conducting the stream surveys (for example, if the water was high or turbid).

### *SR 401 Hungry Harbor Fish Passage Partnership*

In 2020, a concrete box culvert was constructed on SR 401 for an unnamed tributary to the Columbia River at Hungry Harbor. This completed the third and final phase of a large-scale restoration effort known as the Columbia-Pacific Passage habitat restoration project, a partnership between WSDOT and the Columbia River Estuary Study Taskforce (CREST). This multi-phased project involved restoration at three separate tributaries to the Columbia River along the Washington shoreline. The project at Hungry Harbor restores tidal processes, expands and enhances wetlands, and vastly improves juvenile and adult fish access for foraging, rearing, and spawning. Juvenile salmon were observed utilizing pool habitat immediately after completion of the project. Funding sources included WSDOT, the Salmon Recovery Funding Board, Bonneville Power Association, Lower Columbia River Estuary Partnership, Lower Columbia Fish Recovery Board, and the US Fish and Wildlife Service.



Figure 29. The new box culvert is adequately sized for the watershed and allows for fish passage in all tidal and flood events.



---

## Fishway Inspections and Maintenance

In addition to culverts, WSDOT owns 145 fishways statewide. 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. A follow-up inspection, normally conducted in the fall, ensures that all the fish passage deficiencies were corrected and maintenance needs were met.

In 2020, WDFW was not able to conduct spring fishway inspections due to the COVID-19 pandemic and Governor Inslee's "Stay Home, Stay Healthy" order. Although field work was suspended for several months, fall inspections resumed in October and November of 2020.

In spring 2021, WDFW inspected 85 fishways that were deemed passable to fish in 2020. Of these 85, eight require minor maintenance to address and avoid potential long-term problems. An additional 21 fishways require major repairs or replacement. Maintenance of the fishways includes removal of organic debris and sediment, repairing broken or missing baffles and other activities that ensure fish passage.

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.

The results of the spring 2021 fishway inspections can be found in Appendix VI.

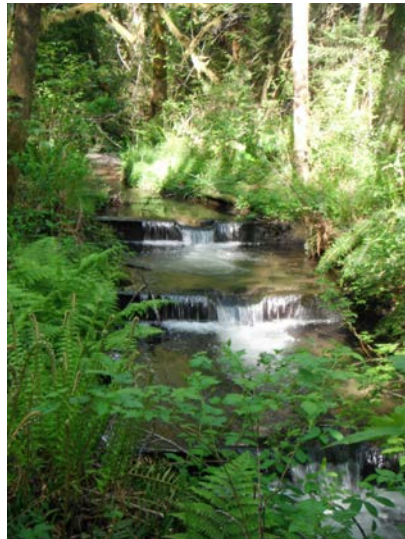


Figure 30. Examples of WSDOT fishways, from top: 991227 on SR 706 unnamed tributary to Nisqually River, 14.0009A 0.06 on US 101 Holiday Valley Creek, and 27.0300 0.00 on SR 503 Robinson Creek.



---

# Appendix I

## WSDOT Culvert Barriers Relevant to the Injunction

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	995295	I-5; NB ROW	141.17	unnamed	unnamed Hylebos Cr trib	10	King	Yes	Yes
NW	995292	I-5	141.54	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995297	I-5; SB on-ramp	141.84	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995293	I-5; SB off-ramp	142.10	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	992364	I-5	143.60	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	143.90	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	933613	I-5; ROW S 288th St	145.81	Bingaman Cr	Bingaman Pond	9	King	Yes	No
NW	991031	I-5	145.93	Bingaman Cr	Bingaman Pond	9	King	Yes	No
NW	996030	I-5; NB to I-405	154.39	Gilliam Cr	Green R	9	King	Yes	Yes
NW	998964	I-5; NB off-ramp	154.48	unnamed	unnamed Green R trib	9	King	Yes	Yes
NW	934543	I-5	172.38	unnamed	SF Thornton Cr	8	King	No	No
NW	994562	I-5	174.71	Thornton Cr	Lake Washington	8	King	Yes	Yes
NW	994842	I-5; ROW	175.00	unnamed	Thornton Cr	8	King	Yes	Yes
NW	102 M048	I-5; Service Rd	177.85	unnamed	McAlee Cr	8	Snohomish	Yes	Yes
NW	102 M046	I-5; WB Ext 177	177.85	McAlee Cr	Lake Washington	8	Snohomish	Yes	Yes
NW	990273	I-5	177.93	McAlee Cr	Lake Washington	8	Snohomish	Yes	Yes
NW	996229	I-5	183.33	unnamed	Swamp Cr	8	Snohomish	No	Yes
NW	102 N218	I-5	186.93	unnamed	North Cr	8	Snohomish	No	Yes
NW	993091	I-5	187.64	unnamed	Silver Lk	8	Snohomish	Yes	Yes
NW	993124	I-5; ROW	187.89	unnamed	Silver Lk	8	Snohomish	Yes	Yes
NW	930252	I-5	187.93	unnamed	Penny Cr	8	Snohomish	Yes	Yes
NW	995262	I-5	189.90	unnamed	Wood Cr	7	Snohomish	No	Yes
NW	933665	I-5	196.24	unnamed	Snohomish R	7	Snohomish	Yes	No
NW	996076	I-5; NB Ext 210	210.01	unnamed	Stillaguamish R	5	Snohomish	Yes	Yes
NW	990622	I-5	211.50	Secret Cr	Pilchuck Cr	5	Snohomish	Yes	No
NW	990623	I-5; SB	211.70	Secret Cr	Pilchuck Cr	5	Snohomish	Yes	No
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
NW	991979	I-5	213.29	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	992175	I-5	213.66	unnamed	Secret Cr	5	Snohomish	Yes	Yes
NW	LP66	I-5	213.86	unnamed	Secret Cr	5	Snohomish	Yes	Yes
NW	996077	I-5	214.38	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996074	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996454	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	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	995221	I-5	218.01	unnamed	unnamed Moore Sl trib	3	Skagit	No	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	995242	I-5	218.44	unnamed	Milltown Cr	3	Skagit	Yes	Yes
NW	991725	I-5	224.62	Maddox Cr	SF Skagit R	3	Skagit	Yes	Yes
NW	CR122	I-5	225.24	Martha Washington Cr	Maddox Cr	3	Skagit	Yes	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	995245	I-5; NB off-ramp	240.92	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995236	I-5; SB Ext 240	240.92	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995233	I-5; Median	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995232	I-5; NB	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	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	995238	I-5; SB	241.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995246	I-5; NB Ext 240	241.10	unnamed	unnamed Friday Cr trib	3	Skagit	Yes	Yes
NW	995259	I-5; SB off-ramp	241.10	unnamed	unnamed Friday Cr trib	3	Skagit	Yes	Yes
NW	995249	I-5	242.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	370614	I-5	243.43	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	FR73	I-5; SB	243.91	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	995250	I-5; NB	243.96	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	990025	I-5; NB	244.20	Barnes Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	994501	I-5; SB	244.20	Barnes Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	FR75	I-5	245.76	Lake Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	995248	I-5; NB off-ramp	246.00	unnamed	unnamed Friday Cr trib	3	Whatcom	Yes	Yes
NW	995247	I-5; NB on-ramp	246.00	unnamed	unnamed Friday Cr trib	3	Whatcom	Yes	Yes
NW	995256	I-5; SB Ext 246	246.12	unnamed	Lake Cr	3	Whatcom	Yes	Yes
NW	995255	I-5; SB Ext 246	246.22	unnamed	Lake Cr	3	Whatcom	Yes	Yes
NW	995411	I-5	246.75	Chuckanut Cr	Puget Sound	1	Whatcom	Yes	Yes
NW	994233	I-5	250.55	Padden Cr	Bellingham Bay	1	Whatcom	Yes	Yes
NW	995699	I-5	251.36	unnamed	Connelly Cr	1	Whatcom	Yes	Yes
NW	992003	I-5; NB on-ramp	256.00	Spring Cr	Baker Cr	1	Whatcom	Yes	Yes
NW	990022	I-5	256.28	Baker Cr	Squalicum Cr	1	Whatcom	Yes	Yes
NW	995701	I-5	258.56	unnamed	unnamed Silver Cr trib	1	Whatcom	No	No
NW	995703	I-5	259.08	unnamed	unnamed Silver Cr trib	1	Whatcom	No	Yes
NW	995723	I-5	260.39	unnamed	Silver Cr	1	Whatcom	Yes	No
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	995731	I-5; SB Ext 270	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	995720	I-5;NB	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No
NW	933400	I-5; NB; ROW	270.20	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No
NW	995726	I-5	275.33	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	933867	I-90	6.78	unnamed	Lake Washington	8	King	No	No
NW	994412	I-90	10.21	Richards Cr	Lake Washington	8	King	No	Yes
NW	996251	I-90	10.52	Sunset Cr	Richards Cr	8	King	Yes	Yes
NW	996478	I-90	12.75	unnamed	Lake Sammamish	8	King	Yes	Yes
NW	992798	I-90	13.83	Lewis Cr	Lake Sammamish	8	King	Yes	Yes
NW	994415	I-90	14.83	W Village Park Cr	Lake Sammamish	8	King	Yes	No
NW	932343	I-90	15.14	unnamed	Lake Sammamish	8	King	Yes	Yes
NW	996477	I-90; WB onramp	15.82	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996967	I-90; WB on-ramp	15.89	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996472	I-90	15.92	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996966	I-90; EB on-ramp	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	991182	I-90	16.21	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996965	I-90	20.42	unnamed	EF Issaquah Cr	8	King	Yes	Yes
NW	932089	I-90; EB	21.82	unnamed	EF Issaquah Cr	8	King	No	Yes
NW	994410	I-90	23.13	Soderman Cr	Raging R	7	King	Yes	Yes
NW	994984	I-90	24.86	unnamed	Lake Cr	7	King	Yes	Yes
NW	934822	I-90; WB off-ramp	25.68	unnamed	Lake Cr	7	King	Yes	No
NW	934821	I-90; WB	25.68	unnamed	Lake Cr	7	King	Yes	No
NW	934820	I-90; EB on-ramp	25.69	unnamed	Lake Cr	7	King	Yes	No
NW	995857	I-405; NB on-ramp	0.42	Gilliam Cr	Green R	9	King	Yes	Yes
NW	998967	I-405	0.61	Gilliam Cr	Green R	9	King	Yes	Yes
NW	995470	I-405	2.31	Rolling Hills Cr	Springbrook Cr	9	King	Yes	Yes
NW	994406	I-405	3.06	Thunder Hills Cr	Rolling Hills Cr	9	King	Yes	Yes
NW	998969	I-405	4.61	unnamed	Lake Washington	8	King	No	No
NW	996482	I-405	5.09	Johns Cr	Lake Washington	8	King	Yes	No
NW	933259	I-405	7.61	unnamed	Lake Washington	8	King	Yes	No
NW	996032	I-405	7.62	unnamed	Lake Washington	8	King	Yes	Yes
NW	998971	I-405	7.83	unnamed	Lake Washington	8	King	Yes	No
NW	998972	I-405	7.90	unnamed	Lake Washington	8	King	Yes	No
NW	934704	I-405	8.18	unnamed	Lake Washington	8	King	No	No
NW	932933	I-405	10.06	unnamed	Coal Cr	8	King	Yes	No
NW	933258	I-405	12.03	Trail Cr	Mercer Sl	8	King	No	No
NW	998974	I-405; SB	12.51	Hixson Cr	Mercer Sl	8	King	No	Yes
NW	933244	I-405	13.16	Sturtevant Cr	Kelsey Cr	8	King	Yes	No



# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	992385	I-405	15.09	Yarrow Cr	Lake Washington	8	King	Yes	Yes
NW	998982	I-405	19.07	unnamed	Forbes Cr	8	King	No	Yes
NW	990376	I-405	19.12	Forbes Cr	Juanita Bay	8	King	Yes	No
NW	932812	I-405	20.49	unnamed	Juanita Cr	8	King	Yes	No
NW	992654	I-405	20.92	unnamed	Juanita Cr	8	King	Yes	Yes
NW	998602	I-405	21.94	Juanita Cr	Lake Washington	8	King	Yes	Yes
NW	993106	I-405	25.35	unnamed	North Cr	8	Snohomish	No	Yes
NW	08.0070 A 0.25	I-405	26.46	Perry Cr	North Cr	8	Snohomish	Yes	Yes
NW	993109	I-405	26.90	unnamed	Queensborough Cr	8	Snohomish	Yes	Yes
NW	991008	I-405;NB	27.70	Royal Anne Cr	North Cr	8	Snohomish	No	No
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
NW	102 L012	SR 9	0.17	Howell Cr	Little Bear Cr	8	Snohomish	Yes	Yes
NW	995982	SR 9	10.61	Cemetery Cr	Snohomish R	7	Snohomish	Yes	Yes
NW	995087	SR 9	12.57	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes	Yes
NW	995086	SR 9	16.66	Hulbert Cr	Ebey Sl	7	Snohomish	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	995084	SR 9	22.72	unnamed	Quilceda Cr	7	Snohomish	Yes	Yes
NW	102 Q028	SR 9	24.44	unnamed	Quilceda Cr	7	Snohomish	Yes	Yes
NW	990255	SR 9	27.24	Prairie Cr	Portage Cr	5	Snohomish	Yes	Yes
NW	996079	SR 9	27.94	unnamed	unnamed Portage Cr trib	5	Snohomish	Yes	Yes
NW	991166	SR 9	32.20	Bryant Cr	Armstrong Cr	5	Snohomish	Yes	Yes
NW	996080	SR 9	33.20	Roth Cr	Stillaguamish R	5	Snohomish	Yes	Yes
NW	996082	SR 9	34.23	unnamed	Pilchuck Cr	5	Snohomish	Yes	Yes
NW	LP23	SR 9	35.46	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	LP19	SR 9	37.26	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	No	No
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	LP31	SR 9	38.64	unnamed	unnamed Pilchuck Cr trib	5	Skagit	No	Yes
NW	LP32	SR 9	38.69	unnamed	unnamed Pilchuck Cr trib	5	Skagit	Yes	Yes
NW	991158	SR 9	38.83	unnamed	Pilchuck Cr	5	Skagit	Yes	No
NW	NC158	SR 9	39.16	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	995275	SR 9	39.51	unnamed	Lake McMurray	3	Skagit	No	Yes
NW	NC180	SR 9	39.69	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	NC170	SR 9	39.87	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	990641	SR 9	40.08	Lake Cr	Lake McMurray	3	Skagit	Yes	Yes
NW	NC166	SR 9	40.77	unnamed	Lake McMurray	3	Skagit	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	990091	SR 9	41.04	Norway Park Cr	Lake McMurray	3	Skagit	Yes	Yes
NW	991451	SR 9	41.50	unnamed	Lake Cr	3	Skagit	No	Yes
NW	NC164	SR 9	41.93	unnamed	Lake Cr	3	Skagit	Yes	Yes
NW	NC163	SR 9	43.08	unnamed	Lake Cr	3	Skagit	Yes	Yes
NW	NC69	SR 9	49.00	unnamed	Nookachamps Cr	3	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	991114	SR 9	62.36	unnamed	Samish R	3	Skagit	Yes	No
NW	SR71	SR 9	63.74	unnamed	Samish R	3	Skagit	Yes	No
NW	SR67	SR 9	64.45	unnamed	Samish R	3	Skagit	No	Yes
NW	991135	SR 9	64.68	unnamed	Samish R	3	Skagit	No	Yes
NW	995390	SR 9	64.93	unnamed	Samish R	3	Skagit	No	Yes
NW	991136	SR 9	65.07	unnamed	Samish R	3	Skagit	No	Yes
NW	991116	SR 9	65.32	unnamed	Samish R	3	Skagit	Yes	No
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	995392	SR 9	67.46	unnamed	Samish R	3	Whatcom	No	Yes
NW	995395	SR 9	69.10	unnamed	Samish R	3	Whatcom	No	Yes
NW	995396	SR 9	69.15	unnamed	Samish R	3	Whatcom	No	Yes
NW	930834	SR 9	69.87	unnamed	Samish R	3	Whatcom	Yes	Yes
NW	995398	SR 9	69.88	unnamed	Samish R	3	Whatcom	Yes	Yes
NW	991106	SR 9	70.60	unnamed	Landingstrip Cr	3	Whatcom	Yes	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	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	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
NW	994386	SR 11	21.08	Padden Cr	Bellingham Bay	1	Whatcom	Yes	Yes
NW	996277	SR 18; EB ROW	0.29	unnamed	unnamed Hylebos Cr trib	10	King	Yes	Yes
NW	995298	SR 18; SW cloverleaf	2.67	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	997660	SR 18	7.51	unnamed	Big Soos Cr	9	King	Yes	Yes
NW	997661	SR 18	8.00	unnamed	Soosette Cr	9	King	Yes	Yes
NW	995474	SR 18	21.03	unnamed	Holder Cr	8	King	Yes	Yes
NW	990173	SR 18	22.08	Holder Cr	Issaquah Cr	8	King	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

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	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
NW	994859	SR 18	23.66	unnamed	Deep Cr	7	King	Yes	No
NW	934882	SR 18	24.42	unnamed	Deep Cr	7	King	No	No
NW	07.0396 0.80	SR 18	25.70	Deep Cr	Raging R	7	King	Yes	Yes
NW	990236	SR 18	27.57	Lake Cr	Raging R	7	King	Yes	Yes
NW	934828	SR 18	27.83	unnamed	Lake Cr	7	King	Yes	No
NW	996319	SR 20; ROW	46.01	unnamed	Campbell Lk	3	Skagit	Yes	Yes
NW	996320	SR 20	46.10	unnamed	Campbell Lk	3	Skagit	Yes	Yes
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	SF49	SR 20	61.26	Gages Sl	Skagit R	3	Skagit	Yes	Yes
NW	991142	SR 20	69.08	unnamed	Red Cr	3	Skagit	Yes	Yes
NW	991547	SR 20	70.24	unnamed	Coal Cr	3	Skagit	Yes	Yes
NW	991146	SR 20	72.85	Childs Cr	Skagit R	3	Skagit	Yes	No
NW	995436	SR 20	78.01	unnamed	Carey's Lk	3	Skagit	No	Yes
NW	991123	SR 20	80.10	unnamed	Skagit R	3	Skagit	Yes	No
NW	991445	SR 20	85.63	unnamed	unnamed Skagit R trib	4	Skagit	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
NW	GR54	SR 20	87.01	Eagle Cr	Skagit R	4	Skagit	Yes	Yes
NW	991150	SR 20	87.20	Eagle Cr	Skagit R	4	Skagit	Yes	No
NW	991151	SR 20	87.31	Eagle Cr	Skagit R	4	Skagit	Yes	Yes
NW	GR9	SR 20	87.70	Fish Cr	Lorenzan Cr	4	Skagit	Yes	Yes
NW	GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	Skagit	Yes	Yes
NW	JK2	SR 20	91.30	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991707	SR 20	93.21	unnamed	Skagit R	4	Skagit	No	Yes
NW	991709	SR 20	93.70	unnamed	Skagit R	4	Skagit	No	Yes
NW	991710	SR 20	93.84	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	994308	SR 20	94.47	unnamed	Skagit R	4	Skagit	Yes	Yes
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	990410	SR 20	99.95	Sutter Cr	Skagit R	4	Skagit	Yes	Yes
NW	995097	SR 20	105.34	Backus Cr	Skagit R	4	Skagit	No	Yes
NW	CD18	SR 20	105.42	Olson Cr	Skagit R	4	Skagit	Yes	Yes
NW	994941	SR 20	111.64	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991131	SR 20	112.90	unnamed	Skagit R	4	Skagit	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	994947	SR 20	114.71	unnamed	Skagit R	4	Skagit	No	Yes
NW	DM7	SR 20	116.25	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991452	SR 20	118.41	Babcock Cr	Skagit R	4	Whatcom	No	Yes
NW	992641	SR 92	0.22	unnamed	Stevens Cr	7	Snohomish	Yes	Yes
NW	991827	SR 92	0.78	Lundeen Cr	Lake Stevens	7	Snohomish	Yes	Yes
NW	991830	SR 92	2.20	unnamed	Catherine Cr	7	Snohomish	No	Yes
NW	991831	SR 92	2.99	unnamed	Little Pilchuck Cr	7	Snohomish	Yes	Yes
NW	102 N183	SR 96	0.47	North Cr	Sammamish R	8	Snohomish	Yes	Yes
NW	995326	SR 96	5.29	Thomas Cr	Marshland Sl	7	Snohomish	Yes	Yes
NW	995214	SR 96	5.86	unnamed	unnamed Snohomish R trib	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	Snohomish R	7	Snohomish	Yes	Yes
NW	995217	SR 96	6.49	unnamed	Marshland Sl	7	Snohomish	Yes	Yes
NW	991196	SR 99	13.54	McSorley Cr	Puget Sound	9	King	Yes	Yes
NW	997684	SR 99	23.41	unnamed	Duwamish R	9	King	Yes	Yes
NW	997685	SR 99	24.71	NF Hamm Cr	Duwamish R	9	King	Yes	Yes
NW	997687	SR 99	24.86	NF Hamm Cr	Duwamish R	9	King	Yes	Yes
NW	993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	Snohomish	Yes	No
NW	996216	SR 99	49.01	unnamed	Scriber Cr	8	Snohomish	Yes	Yes
NW	993849	SR 99	51.45	unnamed	Swamp Cr	8	Snohomish	Yes	Yes
NW	102 N192	SR 99	54.23	North Cr	Sammamish R	8	Snohomish	Yes	Yes
NW	990111	SR 104	25.52	Willow Cr	Shelleberger Cr	8	Snohomish	Yes	Yes
NW	996208	SR 104	29.23	unnamed	Lake Ballinger	8	Snohomish	No	Yes
NW	990653	SR 104	30.67	unnamed	Lyon Cr	8	King	Yes	Yes
NW	990253	SR 104	31.23	Lyon Cr	Lake Washington	8	King	Yes	Yes
NW	991623	SR 104	31.73	unnamed	Lyon Cr	8	King	Yes	Yes
NW	105 S011918a	SR 161	34.03	unnamed	Hylebos Cr	10	King	Yes	Yes
NW	997974	SR 161	34.14	unnamed	unnamed Hylebos Cr trib	10	King	Yes	Yes
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	992360	SR 164	5.89	unnamed	White R	10	King	Yes	Yes
NW	996279	SR 164	7.01	unnamed	White R	10	King	No	Yes
NW	105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	King	Yes	Yes
NW	991213	SR 164	9.06	Seconds Cr	White R	10	King	Yes	Yes
NW	996281	SR 164	10.65	unnamed	unnamed White R trib	10	King	No	Yes
NW	991839	SR 164	13.34	unnamed	Newaukum Cr	9	King	Yes	Yes
NW	996290	SR 167	11.37	unnamed	Milwaukee Canal	10	King	Yes	Yes
NW	991198	SR 167	21.17	Mill Cr	Springbrook Cr	9	King	Yes	Yes



# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	995469	SR 167	22.63	unnamed	Springbrook Cr	9	King	No	Yes
NW	991681	SR 167	23.84	unnamed	Springbrook Cr	9	King	Yes	Yes
NW	933530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	King	Yes	No
NW	991200	SR 167	24.16	unnamed	Springbrook Cr	9	King	No	Yes
NW	991202	SR 167	25.94	Rolling Hills Cr	Springbrook Cr	9	King	Yes	Yes
NW	935056	SR 169	7.10	Rock Cr	Jones Lk	9	King	Yes	No
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
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	997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	King	Yes	Yes
NW	996492	SR 169	17.92	unnamed	Cedar R	8	King	Yes	Yes
NW	996493	SR 169	18.06	unnamed	Cedar R	8	King	No	Yes
NW	996514	SR 169; ROW	18.06	unnamed	Cedar R	8	King	No	Yes
NW	996494	SR 169	18.48	unnamed	Cedar R	8	King	Yes	Yes
NW	996500	SR 169	19.82	unnamed	Cedar R	8	King	No	No
NW	995430	SR 20; SPUR	50.48	unnamed	Fidalgo Bay	3	Skagit	Yes	Yes
NW	933175	SR 20; spur	53.53	unnamed	Guemes Channel	3	Skagit	Yes	No
NW	996917	SR 202	0.97	unnamed	Sammamish R	8	King	No	Yes
NW	996930	SR 202; ROW	1.03	unnamed	Sammamish R	8	King	No	Yes
NW	996921	SR 202	4.17	unnamed	Sammamish R	8	King	Yes	Yes
NW	996925	SR 202	4.25	High School Cr	Sammamish R	8	King	Yes	Yes
NW	991181	SR 202	5.27	unnamed	Sammamish R	8	King	No	Yes
NW	990142	SR 202	11.96	Evans Cr	Bear Cr	8	King	Yes	Yes
NW	995194	SR 202	16.79	unnamed	Patterson Cr	7	King	Yes	Yes
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	995200	SR 202	23.22	unnamed	Skunk Cr	7	King	Yes	Yes
NW	101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	King	Yes	No
NW	101L-01	SR 203	3.97	unnamed	Griffin Cr	7	King	No	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	995167	SR 203	7.26	unnamed	Horseshoe Lk	7	King	Yes	Yes
NW	995178	SR 203	11.61	unnamed	unnamed Snoqualmie R trib	7	King	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	995137	SR 204	0.21	unnamed	unnamed Ebey Sl trib	7	Snohomish	Yes	Yes
NW	995138	SR 204	0.54	unnamed	Ebey Sl	7	Snohomish	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	995141	SR 204	0.96	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	1.80	Weiser Cr	Ebey Sl	7	Snohomish	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	990474	SR 410	25.17	Watercress Cr	Newaukum Cr	9	King	Yes	Yes
NW	996622	SR 410	31.48	unnamed	Scatter Cr	10	King	Yes	Yes
NW	990082	SR 410	35.77	Clay Cr	White R	10	King	Yes	Yes
NW	991219	SR 410	39.18	unnamed	White R	10	King	No	Yes
NW	105 R022221a	SR 410	41.42	unnamed	White R	10	King	Yes	Yes
NW	105 R071916a	SR 410	48.29	Boundary Cr	White R	10	Pierce	Yes	Yes
NW	996671	SR 410	53.01	unnamed	White R	10	Pierce	Yes	Yes
NW	105 R072018a	SR 410	59.57	unnamed	White R	10	Pierce	No	Yes
NW	996266	SR 509	9.18	unnamed	Puget Sound	10	King	Yes	Yes
NW	991651	SR 509	9.60	unnamed	Puget Sound	10	King	No	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
NW	991192	SR 509	13.49	unnamed	Puget Sound	9	King	Yes	Yes
NW	997675	SR 509; SR 99	14.20	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	997645	SR 515	3.97	Panther Cr	Springbrook Cr	9	King	Yes	Yes
NW	994409	SR 515	7.08	Rolling Hills Cr	Springbrook Cr	9	King	Yes	Yes
NW	991191	SR 516	0.43	Barnes Cr	Massey Cr	9	King	Yes	Yes
NW	997649	SR 516	2.98	unnamed	Green R	9	King	Yes	Yes
NW	997651	SR 516	5.80	Mill Cr	Springbrook Cr	9	King	Yes	Yes
NW	998886	SR 518	2.82	Gilliam Cr	Green R	9	King	Yes	Yes
NW	992651	SR 518	3.00	unnamed	Gilliam Cr	9	King	No	Yes
NW	997697	SR 518	3.57	unnamed	unnamed Green R trib	9	King	No	Yes
NW	994117	SR 520	5.42	unnamed	Lake Washington	8	King	No	Yes
NW	990167	SR 520	7.90	Goff Cr	WF Kelsey Cr	8	King	Yes	Yes
NW	990430	SR 522	2.86	Thornton Cr	Lake Washington	8	King	Yes	Yes
NW	990274	SR 522	4.69	unnamed	Lake Washington	8	King	Yes	No
NW	990655	SR 522	6.63	Cat Whisker Cr	Lake Washington	8	King	Yes	Yes
NW	993083	SR 522	11.26	Par Cr	Sammamish R	8	King	Yes	Yes
NW	996916	SR 522	12.86	unnamed	Little Bear Cr	8	King	Yes	Yes
NW	996880	SR 522; ROW	12.86	unnamed	Little Bear Cr	8	King	Yes	Yes
NW	996913	SR 522	13.63	unnamed	Little Bear Cr	8	Snohomish	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	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
NW	992371	SR 522	17.48	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	992632	SR 522	17.82	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	992631	SR 522	17.87	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	934276	SR 522	18.77	unnamed	unnamed Evans Cr trib	7	Snohomish	Yes	No
NW	992378	SR 522	19.28	Anderson Cr	Evans Cr	7	Snohomish	Yes	Yes
NW	992381	SR 522	19.35	unnamed	Anderson Cr	7	Snohomish	Yes	Yes
NW	990139	SR 522	20.19	Elliott Cr	Snohomish R	7	Snohomish	Yes	Yes
NW	931850	SR 522	21.82	unnamed	unnamed Snohomish R trib	7	Snohomish	No	Yes
NW	996915	SR 523	1.24	Littles Cr	Thornton Cr	8	King	Yes	Yes
NW	993103	SR 524	3.89	Scriber Cr	Swamp Cr	8	Snohomish	Yes	Yes
NW	992846	SR 524	5.54	Golde Cr	Scriber Cr	8	Snohomish	Yes	Yes
NW	993100	SR 524	6.95	Martha Cr	Swamp Cr	8	Snohomish	Yes	Yes
NW	991053	SR 524	8.06	unnamed	North Cr	8	Snohomish	No	Yes
NW	996460	SR 524	14.28	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	994124	SR 524	14.40	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	994123	SR 524	14.52	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	996205	SR 524; SPUR	0.21	Shelleberger Cr	Puget Sound	8	Snohomish	Yes	Yes
NW	102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	Snohomish	Yes	No
NW	991176	SR 525	1.10	Box Springs Cr	Swamp Cr	8	Snohomish	Yes	Yes
NW	991054	SR 525	2.05	unnamed	Swamp Cr	8	Snohomish	Yes	Yes
NW	996203	SR 525	7.56	unnamed	Possession Bay	8	Snohomish	No	Yes
NW	995994	SR 525	9.14	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995986	SR 525	9.54	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995984	SR 525	9.70	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995992	SR 525	11.99	Maxwelton Cr	Useless Bay	6	Island	Yes	Yes
NW	991805	SR 525	15.03	unnamed	Deer Lagoon	6	Island	Yes	Yes
NW	995126	SR 526	0.77	Japanese Gulch Cr	Possession Sound	7	Snohomish	Yes	No
NW	993084	SR 527	2.76	Queensborough 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	990294	SR 528	2.51	Munson Cr	Allen Cr	7	Snohomish	Yes	Yes
NW	934372	SR 529; SB	6.00	unnamed	Steamboat Sl	7	Snohomish	No	No
NW	990629	SR 530	25.74	unnamed	Schoolyard Cr	5	Snohomish	Yes	Yes
NW	996092	SR 530	25.88	unnamed	Schoolyard Cr	5	Snohomish	No	Yes
NW	990628	SR 530	26.29	unnamed	Schoolyard Cr	5	Snohomish	Yes	Yes
NW	991161	SR 530	26.40	unnamed	unnamed Schoolyard Cr trib	5	Snohomish	No	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	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	990630	SR 530	27.46	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990634	SR 530	27.66	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990361	SR 530	27.75	Ryan Falls Cr	Stillaguamish R	5	Snohomish	No	Yes
NW	990638	SR 530	30.67	unnamed	McGovern Cr	5	Snohomish	No	Yes
NW	990644	SR 530	31.01	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	991164	SR 530	32.51	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990639	SR 530	34.30	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990646	SR 530	34.70	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	996100	SR 530	35.06	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990640	SR 530	35.24	unnamed	Montague Cr	5	Snohomish	Yes	Yes
NW	995402	SR 530	36.67	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990649	SR 530	38.53	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990650	SR 530	38.60	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990246	SR 530	42.14	Little French Cr	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990652	SR 530	43.34	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	997712	SR 530	64.41	unnamed	Hilt Cr	4	Skagit	No	Yes
NW	990885	SR 530	66.50	unnamed	Skagit R	4	Skagit	Yes	No
NW	991750	SR 531	2.61	Fish Cr	Portage Cr	5	Snohomish	Yes	Yes
NW	991057	SR 531	8.37	unnamed	Edgecomb Cr	7	Snohomish	No	No
NW	995208	SR 531	9.68	unnamed	Prairie Cr	7	Snohomish	Yes	No
NW	990080	SR 532	6.68	unnamed	Church Cr	5	Snohomish	Yes	Yes
NW	CR2	SR 534	0.53	unnamed	Carpenter Cr	3	Skagit	Yes	Yes
NW	995265	SR 534; ROW	0.60	unnamed	Carpenter Cr	3	Skagit	Yes	Yes
NW	PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	Skagit	No	No
NW	NC129	SR 538	2.18	Logan Cr	Nookachamps Cr	3	Skagit	Yes	Yes
NW	992987	SR 539	0.04	Baker Cr	Squalicum Cr	1	Whatcom	Yes	Yes
NW	990015	SR 539	0.30	Spring Cr	Baker Cr	1	Whatcom	Yes	Yes
NW	991973	SR 539; ROW	0.30	WF Springs Cr	Spring Cr	1	Whatcom	Yes	No
NW	991473	SR 539	11.10	Duffner Ditch	Bertrand Cr	1	Whatcom	Yes	Yes
NW	991803	SR 542	2.40	Toad Lk Cr	Squalicum Cr	1	Whatcom	Yes	Yes
NW	990014	SR 542	3.45	Squalicum Cr	Bellingham Bay	1	Whatcom	Yes	No
NW	991111	SR 542	13.47	unnamed	Mitchell Cr	1	Whatcom	Yes	Yes
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	995776	SR 542	16.21	unnamed	unnamed Nooksack R trib	1	Whatcom	No	Yes



# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	991107	SR 542	16.28	unnamed	Nooksack R	1	Whatcom	No	Yes
NW	995777	SR 542	17.37	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990589	SR 542	17.85	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	991112	SR 542	19.60	unnamed	NF Nooksack R	1	Whatcom	Yes	No
NW	991704	SR 542	20.10	unnamed	NF Nooksack R	1	Whatcom	No	No
NW	991705	SR 542	21.45	unnamed	Kendall Cr	1	Whatcom	Yes	Yes
NW	991113	SR 542	23.95	unnamed	High Cr	1	Whatcom	Yes	Yes
NW	995770	SR 542	24.25	unnamed	High Cr	1	Whatcom	Yes	Yes
NW	990577	SR 542	24.49	unnamed	High Cr	1	Whatcom	Yes	Yes
NW	990590	SR 542	26.25	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	991640	SR 542	27.20	unnamed	Nooksack R	1	Whatcom	Yes	Yes
NW	995409	SR 542	28.87	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990580	SR 542	29.02	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	930309	SR 543	0.12	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	996168	SR 544	3.51	unnamed	Four Mile Cr	1	Whatcom	Yes	Yes
NW	931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	Whatcom	Yes	Yes
NW	990510	SR 546	0.46	Double Ditch	Fishtrap Cr	1	Whatcom	Yes	Yes
NW	996161	SR 546	0.47	Double Ditch	Fishtrap Cr	1	Whatcom	Yes	No
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	990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	Whatcom	Yes	No
NW	996167	SR 546	6.02	unnamed	Squaw Cr	1	Whatcom	Yes	Yes
NW	995774	SR 547	6.71	unnamed	Saar Cr	1	Whatcom	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	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	13.80	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	991702	SR 900	18.59	May Cr	Lake Washington	8	King	Yes	Yes
NW	990432	SR 900	19.14	unnamed	Tibbetts Cr	8	King	No	Yes
NW	991185	SR 900	19.40	unnamed	Tibbetts Cr	8	King	No	Yes
NW	990433	SR 900	19.50	Tibbetts Cr	Lake Sammamish	8	King	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	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
NW	995108	US 2	12.94	unnamed	French Cr	7	Snohomish	Yes	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	991825	US 2	36.73	unnamed	SF Skykomish R	7	Snohomish	No	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	995062	US 2	52.39	unnamed	Tye R	7	King	No	Yes
NW	995023	US 2	52.70	unnamed	Tye R	7	King	Yes	Yes
OL	991040	I-5	86.20	unnamed	Chehalis R	23	Thurston	Yes	No
OL	991499	I-5	94.57	unnamed	Beaver Cr	23	Thurston	Yes	Yes
OL	990028	I-5	94.96	Beaver Cr	Black R	23	Thurston	Yes	No
OL	991659	I-5	98.11	unnamed	Salmon Cr	23	Thurston	Yes	No
OL	997706	I-5	104.13	unnamed	Deschutes R	13	Thurston	Yes	Yes
OL	990292	I-5	105.52	Moxlie Cr	Budd Inlet	13	Thurston	Yes	Yes
OL	990199	I-5	105.85	Indian Cr	Moxlie Cr	13	Thurston	Yes	Yes
OL	998888	I-5	109.19	College Cr	Woodland Cr	13	Thurston	No	No
OL	997705	I-5	109.62	College Cr	Woodland Cr	13	Thurston	Yes	Yes
OL	933313	I-5; NB	115.77	unnamed	unnamed Red Salmon Cr trib	11	Pierce	No	No
OL	933186	I-5	134.33	unnamed	Puyallup R	10	Pierce	No	No
OL	997231	SR 3	2.11	unnamed	Goldsburrough Cr	14	Mason	No	Yes
OL	997235	SR 3	4.67	unnamed	Oakland Bay	14	Mason	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
OL	991987	SR 3	21.29	unnamed	Case Inlet	14	Mason	No	Yes
OL	991795	SR 3	23.94	unnamed	Devereaux Cr	14	Mason	Yes	Yes
OL	996734	SR 3	25.15	unnamed	Hood Canal	15	Mason	Yes	Yes
OL	991797	SR 3	25.31	Sweetwater Cr	Hood Canal	15	Mason	Yes	Yes
OL	999626	SR 3	26.26	Mindy Cr	Union R	15	Mason	Yes	Yes
OL	991991	SR 3	26.40	unnamed	Union R	15	Mason	Yes	Yes
OL	991728	SR 3	29.63	unnamed	Union R	15	Kitsap	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	990168	SR 3	32.10	Gorst Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	991585	SR 3	34.27	unnamed	Gorst Cr	15	Kitsap	Yes	Yes
OL	991995	SR 3	36.10	Wright Cr	Sinclair Inlet	15	Kitsap	Yes	No
OL	991994	SR 3	36.51	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996508	SR 3	38.41	Ostrich Cr	Ostrich Bay	15	Kitsap	Yes	Yes
OL	996798	SR 3; SB on-ramp	39.13	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996796	SR 3	39.45	unnamed	Dyes Inlet	15	Kitsap	No	Yes
OL	996741	SR 3	40.37	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	15.0229 0.10	SR 3	40.96	Chico Cr	Dyes Inlet	15	Kitsap	Yes	Yes
OL	991907	SR 3; Access Rd	40.97	unnamed	Chico Cr	15	Kitsap	Yes	Yes
OL	996795	SR 3; SB on-ramp	40.99	unnamed	Chico Cr	15	Kitsap	Yes	Yes
OL	996794	SR 3; SB off-ramp	41.08	unnamed	Chico Cr	15	Kitsap	Yes	Yes
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	996856	SR 3	43.58	Koch Cr	Dyes Inlet	15	Kitsap	No	Yes
OL	990708	SR 3	44.62	unnamed	Strawberry Cr	15	Kitsap	Yes	Yes
OL	15.0246 0.96	SR 3	44.80	Strawberry Cr	Dyes Inlet	15	Kitsap	Yes	Yes
OL	993013	SR 3	46.09	unnamed	WF Clear Cr	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	991241	SR 3	50.85	SF Johnson Cr	Johnson Cr	15	Kitsap	Yes	Yes
OL	990218	SR 3	50.94	MF Johnson Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	991744	SR 3	52.21	Johnson Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	991242	SR 3	57.23	unnamed	Kinman Cr	15	Kitsap	Yes	Yes
OL	991613	SR 3	57.87	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	991240	SR 3	58.21	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	990395	SR 3	58.49	Spring Cr	Hood Canal	15	Kitsap	Yes	Yes
OL	991612	SR 3	59.52	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	996811	SR 3	59.55	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	997623	SR 7	28.02	unnamed	Mashel R	11	Pierce	No	Yes
OL	990686	SR 7	32.40	unnamed	Silver Lk	11	Pierce	Yes	Yes
OL	997628	SR 7	33.52	unnamed	Cranberry Lk	11	Pierce	No	Yes
OL	991225	SR 7	37.50	unnamed	South Cr	11	Pierce	Yes	Yes
OL	990688	SR 7	38.12	unnamed	South Cr	11	Pierce	Yes	Yes
OL	996274	SR 7	58.34	unnamed	Commencement Bay	10	Pierce	Yes	No

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	991063	SR 8	0.10	unnamed	Cloquallum 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	993727	SR 8	1.37	unnamed	unnamed Cloquallum Cr trib	22	Grays Harbor	No	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	991066	SR 8	3.72	unnamed	Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	990770	SR 8	6.15	unnamed	EF Wildcat Cr	22	Grays Harbor	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	990773	SR 8	9.10	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes	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
OL	991944	SR 16; EB Ext 15	0.19	McCormick Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	935539	SR 16	12.97	unnamed	McCormick Cr	15	Pierce	Yes	No
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	935540	SR 16	15.09	unnamed	McCormick Cr	15	Pierce	Yes	No
OL	934541	SR 16	15.16	unnamed	McCormick Cr	15	Pierce	Yes	No
OL	105 K051618a	SR 16	16.59	Goodnough Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	15.0060 1.00	SR 16	17.80	Purdy Cr	Burley Lagoon	15	Pierce	Yes	Yes
OL	996760	SR 16	19.28	unnamed	Burley Cr	15	Kitsap	No	Yes
OL	991866	SR 16	19.54	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	991516	SR 16	20.36	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	991867	SR 16	20.44	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	996752	SR 16	21.58	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	15.0056 4.50	SR 16	22.70	Burley Cr	Henderson Bay	15	Kitsap	Yes	Yes
OL	996755	SR 16; WB on-ramp	25.24	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	990038	SR 16	25.30	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996756	SR 16; EB off-ramp	25.30	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996754	SR 16; EB Ext	26.61	unnamed	Ross Cr	15	Kitsap	Yes	No
OL	990357	SR 16	26.80	Ross Cr	Sinclair Inlet	15	Kitsap	Yes	No
OL	990270	SR 16	27.10	unnamed	Ross Cr	15	Kitsap	Yes	Yes
OL	934154	SR 16	27.49	unnamed	Sinclair Inlet	15	Kitsap	No	No
OL	991670	SR 16	28.60	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	990711	SR 19	4.30	Swansonville Cr	EF Chumacum Cr	17	Jefferson	Yes	Yes



# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	991579	SR 19	6.82	unnamed	EF Chimacum Cr	17	Jefferson	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	162173	SR 104	4.25	unnamed	Barnhouse Cr	17	Jefferson	Yes	Yes
OL	990375	SR 104	10.36	Shine Cr	Hood Canal	17	Jefferson	Yes	Yes
OL	162192	SR 104	12.57	unnamed	Squamish Harbor	17	Jefferson	Yes	Yes
OL	990710	SR 104	16.55	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	992199	SR 104	17.67	Ladine DeCouteaux 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	996729	SR 104	22.23	unnamed	Grovers Cr	15	Kitsap	Yes	Yes
OL	992207	SR 104	22.95	Carpenter Cr	Appletree Cove	15	Kitsap	Yes	Yes
OL	992208	SR 104	23.37	unnamed	Appletree Cove	15	Kitsap	No	Yes
OL	991295	SR 105	31.11	unnamed	South Bay	22	Grays Harbor	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	990905	SR 105	36.26	unnamed	South Bay	22	Grays Harbor	No	Yes
OL	980275	SR 105	38.10	unnamed	Johns R	22	Grays Harbor	Yes	Yes
OL	980274	SR 105	38.28	unnamed	Johns R	22	Grays Harbor	No	Yes
OL	991642	SR 105	39.77	unnamed	O'Leary Cr	22	Grays Harbor	Yes	Yes
OL	991298	SR 105	40.50	unnamed	South Bay	22	Grays Harbor	Yes	Yes
OL	991302	SR 105	41.76	unnamed	Grays Harbor	22	Grays Harbor	No	Yes
OL	991297	SR 105	44.56	unnamed	Grays Harbor	22	Grays Harbor	Yes	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	996383	SR 106	4.11	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	997163	SR 106	5.45	unnamed	Hood Canal	14	Mason	No	Yes
OL	115 MC160	SR 106	7.34	unnamed	Hood Canal	14	Mason	Yes	No
OL	997176	SR 106	9.70	unnamed	Hood Canal	14	Mason	No	Yes
OL	990908	SR 106	10.83	unnamed	Hood Canal	14	Mason	Yes	No
OL	997182	SR 106	11.57	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	990450	SR 106	12.30	Twano Cr	Hood Canal	14	Mason	Yes	Yes
OL	991245	SR 106	13.84	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	997184	SR 106	14.61	unnamed	Hood Canal	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

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	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	991727	SR 107	5.49	unnamed	Chehalis R	22	Grays Harbor	No	Yes
OL	993659	SR 108	0.18	unnamed	EF Wildcat Cr	22	Grays Harbor	No	Yes
OL	997210	SR 108	5.20	unnamed	unnamed Skookum Cr trib	14	Mason	Yes	Yes
OL	991237	SR 108	5.50	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	990385	SR 108	5.54	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	991672	SR 108	7.62	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	Mason	Yes	No
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	990921	SR 109	2.71	unnamed	Grays Harbor	22	Grays Harbor	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
OL	990932	SR 109	6.91	unnamed	Grass Cr	22	Grays Harbor	Yes	Yes
OL	990933	SR 109	7.10	unnamed	Pacific Ocean	22	Grays Harbor	No	Yes
OL	990938	SR 109	9.77	unnamed	Gillis Sl	22	Grays Harbor	Yes	Yes
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
OL	990919	SR 109	17.81	unnamed	Connor Cr	21	Grays Harbor	Yes	No
OL	990920	SR 109	19.40	unnamed	Connor Cr	21	Grays Harbor	Yes	Yes
OL	997311	SR 109	21.12	unnamed	Copalis R	21	Grays Harbor	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	991265	SR 109	26.10	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
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	991272	SR 109	33.10	Wain Cr	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991266	SR 109	33.40	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997787	SR 109	33.87	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990922	SR 109	35.73	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997790	SR 109	36.00	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991271	SR 109	36.38	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991270	SR 109	36.43	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

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	990559	SR 112	6.95	unnamed	Strait of Juan de Fuca	19	Clallam	Yes	Yes
OL	991259	SR 112	12.26	unnamed	Hoko R	19	Clallam	Yes	Yes
OL	996684	SR 112	17.14	unnamed	Clallam R	19	Clallam	Yes	Yes
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	991731	SR 112	21.10	unnamed	Green Cr	19	Clallam	Yes	Yes
OL	996694	SR 112	21.64	unnamed	unnamed Green Cr trib	19	Clallam	No	Yes
OL	996578	SR 112; Maint Yard	22.99	unnamed	Green 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
OL	996555	SR 112	24.77	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996556	SR 112	25.20	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	991732	SR 112	29.12	Indian Cr	Strait of Juan De Fuca	19	Clallam	Yes	Yes
OL	990941	SR 112	29.70	Butler Cr	Butler Cove	19	Clallam	Yes	Yes
OL	991258	SR 112	29.71	unnamed	Butler Cr	19	Clallam	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	34.20	unnamed	Deep Cr	19	Clallam	Yes	Yes
OL	996432	SR 112	34.28	unnamed	Deep Cr	19	Clallam	Yes	Yes
OL	990715	SR 112	35.28	unnamed	Strait of Juan de Fuca	19	Clallam	No	Yes
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	990480	SR 112	49.48	Whiskey Cr	Strait of Juan de Fuca	19	Clallam	Yes	Yes
OL	996536	SR 112	49.62	EF Whiskey Cr	Whiskey Cr	19	Clallam	Yes	Yes
OL	991693	SR 112	50.73	unnamed	Whiskey Cr	19	Clallam	Yes	Yes
OL	991738	SR 112	51.60	Uptha Cr	Salt Cr	19	Clallam	Yes	Yes
OL	991661	SR 112	53.50	Falls Cr	Salt Cr	19	Clallam	Yes	Yes
OL	991686	SR 112	56.50	unnamed	Coville Cr	19	Clallam	Yes	Yes
OL	996541	SR 112	57.05	unnamed	Coville Cr	19	Clallam	No	Yes
OL	991733	SR 113	0.90	unnamed	Beaver Cr	20	Clallam	Yes	Yes
OL	996563	SR 113	6.55	unnamed	unnamed Pysht R trib	19	Clallam	No	Yes
OL	996571	SR 113	8.35	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996573	SR 113	9.70	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996574	SR 113	9.81	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	Jefferson	Yes	No
OL	995521	SR 116	1.64	unnamed	Port Townsend Bay	17	Jefferson	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	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	7.80	unnamed	Lake Cushman	16	Mason	Yes	Yes
OL	995917	SR 119	8.20	unnamed	Big Cr	16	Mason	Yes	Yes
OL	995918	SR 119	8.35	unnamed	Big Cr	16	Mason	No	Yes
OL	933500	SR 119	9.38	Big Cr	Lake Cushman	16	Mason	Yes	No
OL	343041	SR 121	4.84	Hopkins Ditch	Salmon Cr	23	Thurston	Yes	No
OL	930022	SR 160	1.92	unnamed	unnamed Salmonberry Cr trib	15	Kitsap	No	Yes
OL	990366	SR 160	2.29	Salmonberry Cr	Long Lk	15	Kitsap	Yes	Yes
OL	991567	SR 160	4.50	unnamed	Curley Cr	15	Kitsap	Yes	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	990970	SR 161	1.02	unnamed	Mashel R	11	Pierce	No	Yes
OL	995475	SR 161	14.89	unnamed	unnamed South Cr trib	11	Pierce	Yes	Yes
OL	991214	SR 162	3.70	unnamed	Puyallup R	10	Pierce	Yes	Yes
OL	991802	SR 162	6.33	unnamed	Puyallup R	10	Pierce	No	Yes
OL	105 R021121a	SR 162	11.04	Card Cr	Carbon R	10	Pierce	Yes	Yes
OL	105 R032918d	SR 162	12.44	Rauch Cr	Carbon R	10	Pierce	Yes	Yes
OL	996291	SR 162	13.64	unnamed	S Prairie Cr	10	Pierce	Yes	Yes
OL	105 R033020A	SR 162	16.67	unnamed	S Prairie Cr	10	Pierce	Yes	No
OL	105 R040517a	SR 162	19.11	unnamed	S Prairie Cr	10	Pierce	Yes	Yes
OL	996343	SR 162	19.70	Spiketon Cr	S Prairie Cr	10	Pierce	Yes	Yes
OL	105 R033018B	SR 165	19.76	Spiketon Cr	S Prairie Cr	10	Pierce	Yes	Yes
OL	992009	SR 166	0.73	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
OL	990358	SR 166	1.76	Ross Cr	Sinclair Inlet	15	Kitsap	Yes	No
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
OL	15.0208 0.00	SR 166	2.56	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	920412	SR 166; Mile Hill Dr	4.11	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	15.0201 0.90	SR 166	4.52	Olney Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	991212	SR 167	8.05	Milwaukee Canal	White R	10	Pierce	Yes	No
OL	930603	SR 167; ROW	9.47	unnamed	Milwaukee Canal	10	Pierce	Yes	Yes
OL	991211	SR 167	10.00	Milwaukee Canal	White R	10	Pierce	Yes	No
OL	996288	SR 167	10.46	unnamed	Milwaukee Canal	10	Pierce	Yes	Yes
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	991559	SR 302	0.90	unnamed	North Bay	15	Mason	Yes	Yes
OL	996763	SR 302	1.25	unnamed	Coulter Cr	15	Mason	No	Yes



# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	996765	SR 302	1.86	unnamed	North Bay	15	Mason	Yes	Yes
OL	991522	SR 302	2.10	unnamed	North Bay	15	Mason	Yes	Yes
OL	991239	SR 302	2.36	unnamed	North Bay	15	Mason	Yes	Yes
OL	991523	SR 302	2.48	unnamed	North Bay	15	Mason	Yes	Yes
OL	991525	SR 302	4.20	Victor Cr	North Bay	15	Mason	Yes	Yes
OL	991526	SR 302	4.70	unnamed	Case Inlet	15	Mason	No	Yes
OL	991527	SR 302	5.50	unnamed	Rocky Bay	15	Pierce	Yes	Yes
OL	990286	SR 302	11.30	Minter Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	15.0051 0.10	SR 302	11.44	Little Minter Cr	Minter Cr	15	Pierce	Yes	Yes
OL	15.0051 0.20	SR 302	11.50	Little Minter Cr	Minter Cr	15	Pierce	Yes	Yes
OL	996783	SR 302	15.95	unnamed	Henderson Bay	15	Pierce	Yes	Yes
OL	105 K051518a	SR 302	16.15	Goodnough Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	990345	SR 302; SPPURDY	15.80	Purdy Cr	Burley Lagoon	15	Pierce	Yes	Yes
OL	994085	SR 303; NB off-ramp	6.63	Hoot Cr	Barker Cr	15	Kitsap	Yes	Yes
OL	990024	SR 303	6.66	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
OL	930416	SR 303; NB on-ramp	6.72	unnamed	Hoot Cr	15	Kitsap	No	Yes
OL	930408	SR 303; LX	6.70	unnamed	Hoot Cr	15	Kitsap	Yes	Yes
OL	994320	SR 305	0.49	unnamed	Eagle Harbor	15	Kitsap	Yes	Yes
OL	994324	SR 305	0.62	unnamed	Eagle Harbor	15	Kitsap	Yes	Yes
OL	933644	SR 305	1.90	unnamed	Murden Cove	15	Kitsap	No	No
OL	994325	SR 305	2.44	Murden Cr	Murden Cove	15	Kitsap	Yes	Yes
OL	933663	SR 305	3.37	unnamed	Murden Cove	15	Kitsap	No	No
OL	933664	SR 305	3.40	unnamed	Murden Cove	15	Kitsap	No	No
OL	994326	SR 305	3.73	Manzanita Cr	Manzanita Bay	15	Kitsap	Yes	Yes
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
OL	991958	SR 305	7.28	Klebeal Cr	Agate Passage	15	Kitsap	Yes	Yes
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
OL	991855	SR 305	12.59	unnamed	SF Dogfish Cr	15	Kitsap	Yes	Yes
OL	933284	SR 305	13.12	unnamed	Dogfish Cr	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
OL	991572	SR 307	1.45	unnamed	Dogfish Cr	15	Kitsap	Yes	Yes
OL	991851	SR 307	2.50	unnamed	Gamble Cr	15	Kitsap	Yes	Yes
OL	996931	SR 308	0.30	Clear Cr	Puget Sound	15	Kitsap	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	990235	SR 308	0.94	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	15.0280 1.00	SR 308	1.15	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	992008	SR 308	1.33	Little Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	991000	SR 308	2.16	unnamed	Puget Sound	15	Kitsap	Yes	Yes
OL	996933	SR 308	2.41	unnamed	Liberty Bay	15	Kitsap	No	Yes
OL	996932	SR 308	2.57	unnamed	Liberty Bay	15	Kitsap	Yes	Yes
OL	996619	SR 410	21.73	unnamed	Lake Tapps Canal	10	Pierce	Yes	Yes
OL	125 1502W11B	SR 507	8.22	unnamed	Skookumchuck R	23	Thurston	Yes	Yes
OL	995893	SR 507	30.61	McKenna Cr	Nisqually R	11	Thurston	Yes	Yes
OL	105 R121419a	SR 509; WB	2.97	Wapato Cr	Blair Waterway	10	Pierce	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	990656	SR 510	5.64	unnamed	McAllister Cr	11	Thurston	Yes	Yes
OL	991052	SR 510	6.28	unnamed	McAllister Cr	11	Thurston	No	Yes
OL	997920	SR 512	3.30	unnamed	NF Clover Cr	12	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
OL	932345	SR 512;WB on ramp	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes	Yes
OL	991229	SR 702	4.53	Murray Cr	Nisqually R	11	Pierce	Yes	Yes
OL	995899	SR 702	5.60	unnamed	Horn Cr	11	Pierce	No	Yes
OL	990485	US 12	0.61	Wilson Cr	Chehalis R	22	Grays Harbor	Yes	No
OL	994788	US 12	3.76	Elliott Sl	Chehalis R	22	Grays Harbor	Yes	Yes
OL	991284	US 12	4.59	unnamed	Mox Chuck Sl	22	Grays Harbor	Yes	Yes
OL	991283	US 12	5.24	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
OL	991633	US 12	5.62	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes
OL	991910	US 12	6.55	unnamed	Higgins Sl	22	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	991911	US 12	7.26	unnamed	Higgins Sl	22	Grays Harbor	Yes	Yes
OL	991528	US 12	11.01	unnamed	Schofield Cr	22	Grays Harbor	Yes	Yes
OL	931349	US 12	11.49	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes
OL	22.0349 0.70	US 12	12.36	Camp Cr	Smith Canal	22	Grays Harbor	Yes	No
OL	933616	US 12	17.56	unnamed	Wenzel Sl	22	Grays Harbor	Yes	No
OL	125 1806W34G	US 12	19.17	unnamed	Vance Cr	22	Grays Harbor	Yes	Yes
OL	991533	US 12	23.30	unnamed	Chehalis R	22	Grays Harbor	Yes	Yes
OL	994799	US 12	26.87	unnamed	Chehalis R	22	Grays Harbor	Yes	Yes
OL	991541	US 12	28.17	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	991540	US 12	28.60	unnamed	Chehalis R	23	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	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	Cedar Cr	23	Grays Harbor	Yes	Yes
OL	991538	US 12	33.44	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991539	US 12	33.60	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	990563	US 12	36.33	Roundtree Cr	Harris Cr	23	Grays Harbor	Yes	No
OL	993670	US 101	80.40	unnamed	Chehalis R	22	Grays Harbor	Yes	Yes
OL	993674	US 101	89.48	unnamed	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993681	US 101; ROW	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	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993680	US 101	90.95	unnamed	Hoquiam R	22	Grays Harbor	Yes	No
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	990732	US 101	93.79	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	993702	US 101	98.47	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993704	US 101	99.45	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	990730	US 101	100.70	unnamed	unnamed SB Big Cr trib	22	Grays Harbor	Yes	Yes
OL	990033	US 101	102.97	unnamed	Big Cr	22	Grays Harbor	Yes	No
OL	993712	US 101	103.25	unnamed	Big Cr	22	Grays Harbor	Yes	No
OL	991501	US 101	103.65	unnamed	Big Cr	22	Grays Harbor	Yes	Yes
OL	990175	US 101	106.50	Hansen Cr	Humptulips R	22	Grays Harbor	Yes	No
OL	993717	US 101	110.84	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
OL	990731	US 101	111.34	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
OL	991690	US 101	111.90	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
OL	997309	US 101	122.92	unnamed	McCalla Cr	21	Grays Harbor	Yes	Yes
OL	990276	US 101	123.05	McCalla Cr	Boulder Cr	21	Grays Harbor	Yes	Yes
OL	991653	US 101	126.24	unnamed	Quinalt R	21	Grays Harbor	Yes	Yes
OL	990543	US 101	132.00	unnamed	Ten O Clock Cr	21	Grays Harbor	Yes	Yes
OL	990452	US 101	135.26	unnamed	Lunch Cr	21	Grays Harbor	Yes	Yes
OL	990546	US 101	135.68	Lunch Cr	Raft R	21	Grays Harbor	Yes	Yes
OL	990453	US 101	135.95	unnamed	Lunch Cr	21	Grays Harbor	Yes	Yes
OL	990252	US 101	136.45	Cedar Cr	Raft R	21	Grays Harbor	Yes	No
OL	990455	US 101	136.70	unnamed	Cedar Cr	21	Grays Harbor	Yes	No

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	990547	US 101	136.90	unnamed	Cedar Cr	21	Grays Harbor	Yes	No
OL	990883	US 101	137.32	Crane Cr	Raft R	21	Grays Harbor	Yes	Yes
OL	990456	US 101	137.82	unnamed	Crane Cr	21	Grays Harbor	Yes	No
OL	990548	US 101	142.48	Harlow Cr	Queets R	21	Grays Harbor	Yes	No
OL	990457	US 101	142.68	Harlow Cr	Queets R	21	Grays Harbor	Yes	No
OL	997342	US 101	152.47	unnamed	Queets R	21	Jefferson	Yes	Yes
OL	991268	US 101	153.96	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	997345	US 101	154.27	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	990549	US 101	154.45	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	991276	US 101	156.10	unnamed	Pacific Ocean	21	Jefferson	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	991261	US 101	161.50	unnamed	Pacific Ocean	20	Jefferson	Yes	Yes
OL	990400	US 101	162.60	Steamboat Cr	Pacific Ocean	20	Jefferson	Yes	Yes
OL	991262	US 101	163.13	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	934255	US 101	167.52	unnamed	Fletcher Cr	20	Jefferson	No	No
OL	996228	US 101	169.19	unnamed	Braden Cr	20	Jefferson	Yes	No
OL	990717	US 101	169.42	unnamed	Braden Cr	20	Jefferson	Yes	Yes
OL	990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	Jefferson	Yes	No
OL	997051	US 101	169.89	unnamed	unnamed Braden Cr trib	20	Jefferson	No	No
OL	997052	US 101	169.94	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	990553	US 101	170.12	unnamed	Hoh R	20	Jefferson	Yes	No
OL	990719	US 101	170.81	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	997055	US 101	174.43	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997059	US 101	174.79	unnamed	Old Joe Sl	20	Jefferson	No	Yes
OL	933682	US 101;ROW	175.77	unnamed	Hoh R	20	Jefferson	Yes	No
OL	991598	US 101	175.91	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997063	US 101	176.55	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997070	US 101	177.77	unnamed	Hoh R	20	Jefferson	No	Yes
OL	997071	US 101	177.80	unnamed	unnamed Hoh R trib	20	Jefferson	Yes	Yes
OL	991575	US 101	181.20	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991574	US 101	181.46	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991507	US 101	182.20	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991508	US 101	182.84	unnamed	Dowans Cr	20	Jefferson	Yes	Yes



# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	991509	US 101	183.05	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	997081	US 101	183.11	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991510	US 101	183.87	unnamed	Bogachiel R	20	Jefferson	No	Yes
OL	990269	US 101	184.66	May Cr	Bogachiel R	20	Clallam	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	Yes	Yes
OL	991505	US 101	188.09	unnamed	Bogachiel R	20	Clallam	Yes	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	933421	US 101	189.14	unnamed	Grader Cr	20	Clallam	Yes	No
OL	991264	US 101	189.25	unnamed	Grader Cr	20	Clallam	Yes	Yes
OL	990169	US 101	189.40	Grader Cr	Bogachiel R	20	Clallam	Yes	Yes
OL	997098	US 101	190.05	unnamed	Mill Cr	20	Clallam	Yes	Yes
OL	997097	US 101	191.12	Uncle John's Cr	Mill Cr	20	Clallam	Yes	Yes
OL	997107	US 101	202.71	unnamed	Sol Duc R	20	Clallam	Yes	Yes
OL	990554	US 101	209.32	Wisen Cr	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	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	18.0283 2.00	US 101	238.35	Indian Cr	Elwha R	18	Clallam	Yes	Yes
OL	995823	US 101	239.31	unnamed	Indian Cr	18	Clallam	Yes	No
OL	932888	US 101; off-ramp	246.18	unnamed	Tumwater Cr	18	Clallam	Yes	No
OL	990448	US 101	246.40	Tumwater Cr	Port Angeles Harbor	18	Clallam	Yes	Yes
OL	990326	US 101	248.10	Peabody Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	990481	US 101	249.40	White Cr	Ennis Cr	18	Clallam	Yes	Yes
OL	18.0234 1.10	US 101	250.00	Ennis Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	990240	US 101	250.50	Lees Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	934250	US 101; ROW	253.84	unnamed	Bagley Cr	18	Clallam	Yes	No
OL	990021	US 101	253.85	Bagley Cr	Strait of Juan De Fuca	18	Clallam	Yes	Yes
OL	995544	US 101	255.65	unnamed	Siebert Cr	18	Clallam	No	Yes
OL	18.0173 2.40	US 101	256.10	Siebert Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	933369	US 101	263.43	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Clallam	Yes	No

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	995551	US 101	263.68	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Clallam	Yes	No
OL	990219	US 101	267.18	Johnson Cr	Sequim Bay	17	Clallam	Yes	Yes
OL	991667	US 101	268.54	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	991666	US 101	269.24	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	994464	US 101	269.49	unnamed	Sequim Bay	17	Clallam	Yes	No
OL	990107	US 101	270.57	Dean Cr	Sequim Bay	17	Clallam	Yes	No
OL	991735	US 101	271.22	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	994478	US 101; ROW	271.22	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	990712	US 101	271.57	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	991850	US 101	271.83	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	990075	US 101	271.98	Chicken Coop Cr	Sequim Bay	17	Clallam	Yes	Yes
OL	990134	US 101	274.25	Eagle Cr	Strait of Juan de Fuca	17	Clallam	Yes	Yes
OL	995484	US 101	275.72	unnamed	Eagle Cr	17	Jefferson	Yes	Yes
OL	990090	US 101	277.90	Contractors Cr	Discovery Bay	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	995497	US 101	283.57	unnamed	Snow Cr	17	Jefferson	Yes	Yes
OL	995496	US 101	284.87	unnamed	Snow Cr	17	Jefferson	Yes	No
OL	995760	US 101; NB onramp	284.87	unnamed	Snow Cr	17	Jefferson	Yes	No
OL	991673	US 101	285.69	Andrews Cr	Snow Cr	17	Jefferson	Yes	No
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	990896	US 101	290.35	unnamed	Leland Cr	17	Jefferson	Yes	Yes
OL	930373	US 101	291.73	unnamed	Leland Cr	17	Jefferson	No	No
OL	995502	US 101	291.79	unnamed	Leland Cr	17	Jefferson	Yes	Yes
OL	990241	US 101	292.52	Leland Cr	L Quilcene R	17	Jefferson	Yes	Yes
OL	994484	US 101	303.01	Marple Cr	Jackson Cove	17	Jefferson	Yes	Yes
OL	990449	US 101	304.24	Turner Cr	Hood Canal	16	Jefferson	No	Yes
OL	995931	US 101	305.59	unnamed	Hood Canal	16	Jefferson	Yes	Yes
OL	990899	US 101	307.00	Twana Cr	Hood Canal	16	Jefferson	Yes	Yes
OL	995935	US 101	310.27	unnamed	Hood Canal	16	Jefferson	No	No
OL	995936	US 101	310.40	unnamed	Hood Canal	16	Jefferson	Yes	Yes
OL	991603	US 101	314.10	unnamed	Hood Canal	16	Jefferson	Yes	Yes
OL	991606	US 101	315.19	Schaerer Cr	Hood Canal	16	Mason	Yes	Yes
OL	991614	US 101	322.83	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996135	US 101	325.68	unnamed	Hood Canal	16	Mason	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Highway, 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	996138	US 101	327.76	Little Lilliwaup Cr	Hood Canal	16	Mason	Yes	Yes
OL	996358	US 101	331.18	unnamed	Hood Canal	16	Mason	No	Yes
OL	991254	US 101	331.83	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	990191	US 101	332.65	Hill Cr	Hood Canal	16	Mason	Yes	Yes
OL	996366	US 101	334.40	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	991250	US 101	335.93	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996371	US 101	338.37	unnamed	Skobob Cr	16	Mason	Yes	Yes
OL	115 MC180	US 101	348.21	unnamed	Mill 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	115 MC144	US 101	355.58	unnamed	Totten Inlet	14	Mason	Yes	Yes
OL	997157	US 101	356.48	unnamed	Schneider Cr	14	Mason	Yes	Yes
OL	14.0010 0.10	US 101	356.80	Countyline Cr	Schneider Cr	14	Mason	Yes	Yes
OL	997161	US 101	357.40	Griggs Cr	Schneider Cr	14	Thurston	Yes	Yes
OL	991477	US 101	360.60	unnamed	Eld Inlet	14	Thurston	Yes	Yes
SW	995538	I-5	71.34	unnamed	unnamed Newaukum R trib	23	Lewis	Yes	Yes
SW	994300	I-5	78.11	unnamed	Dillenbaugh Cr	23	Lewis	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	991654	SR 6	24.30	unnamed	Rock Cr	23	Pacific	No	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	990741	SR 6	29.00	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	930852	SR 6	33.30	unnamed	Chehalis R	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	990405	SR 6	36.21	unnamed	Chehalis R	23	Lewis	No	No
SW	990423	SR 6	36.74	unnamed	Hope Cr	23	Lewis	Yes	Yes
SW	990764	SR 6	42.38	unnamed	unnamed SF Chehalis R trib	23	Lewis	No	Yes
SW	991221	SR 6	43.61	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	991544	SR 6	46.39	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	991757	SR 6	46.50	unnamed	Chehalis R	23	Lewis	Yes	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	1.70	unnamed	unnamed Allen Cr trib	23	Lewis	Yes	Yes

# Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2021)

818 barrier culverts with ≥ 200 meters habitat gain; 184 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
SW	994959	SR 508	1.85	unnamed	unnamed Allen Cr trib	23	Lewis	Yes	Yes
SW	992277	SR 508	4.26	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	994966	SR 508	4.70	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991756	SR 508	5.10	unnamed	SF Newaukum R	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
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
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	15.10	unnamed	Kearney Cr	23	Lewis	Yes	Yes
SW	994976	SR 508	15.42	unnamed	unnamed Kearney Cr trib	23	Lewis	Yes	Yes
SW	991296	SR 508	15.85	unnamed	Kearney Cr	23	Lewis	Yes	Yes
SW	994979	SR 508	16.50	unnamed	unnamed Stowell Cr trib	23	Lewis	Yes	Yes
SW	994981	SR 508	16.99	unnamed	Stowell Cr	23	Lewis	Yes	Yes
SW	991291	SR 508	17.06	unnamed	Stowell Cr	23	Lewis	Yes	Yes
SW	994463	SR 508	17.55	Stowell Cr	Kearney Cr	23	Lewis	Yes	Yes



---

# 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, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
09.0377 2.12	200th Ave	21.80	Des Moines Cr	Puget Sound	9	not an injunction barrier	not WSDOT ownership	6/11/2014	Yes
08.0183 3.10	270th Ave	20.28	EF Issaquah Cr	Issaquah Cr	8	not an injunction barrier	not WSDOT ownership	7/24/2014	Yes
934011	Broadway Ave (SR 9)	TBD	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/21/2016	No
934011	Broadway Ave	n/a	unnamed	unnamed Thomas Cr trib	7	not an injunction barrier	not WSDOT ownership	2/24/2021	No
934015	Broadway Ave (SR 9)	TBD	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/21/2016	No
934015	Broadway Ave	n/a	unnamed	unnamed Thomas Cr trib	7	not an injunction barrier	not WSDOT ownership	2/24/2021	No
991040	I-5	86.20	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier- Significant Gain	9/12/2017	No
990028	I-5	94.96	Beaver Cr	Black R	23	added to injunction barrier list	newly identified barrier- Significant Gain	12/8/2020	No
991659	I-5	98.11	unnamed	Salmon Cr	23	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2017	No
998888	I-5	109.19	College Cr	Woodland Cr	13	added to injunction barrier list	newly identified barrier- Limited Gain	1/25/2016	No
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	No
933186	I-5	134.33	unnamed	Puyallup R	10	added to injunction barrier list	newly identified barrier- Limited Gain	9/9/2015	No
933613	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	No
991031	I-5	145.93	Bingaman Cr	Green R	9	added to injunction barrier list	newly identified barrier- Significant Gain	1/6/2016	No
934543	I-5	172.38	unnamed	SF Thornton Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	3/29/2019	No
993116	I-5	180.63	Scriber Cr	Swamp Cr	4	not an injunction barrier	culvert determined to not be a barrier	1/4/2018	Yes
933665	I-5	196.24	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier - Significant Gain	4/22/2019	No
995284	I-5	203.22	unnamed	WF Quilceda Cr	07.0051	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Yes
102 Q058	I-5	203.24	unnamed	WF Quilceda Cr	7	not an injunction barrier	duplicate record	11/4/2013	Yes
990622	I-5	211.50	Secret Cr	Pilchuck R	5	added to injunction barrier list	newly identified barrier - Significant Gain	12/10/2019	No
990623	I-5 SB	211.70	Secret Cr	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier- Significant Gain	4/17/2018	No
03.0181 0.50	I-5	219.41	Fisher Cr	Carpenter Cr	03.0181	not an injunction barrier	barrier corrected	10/13/2017	Yes
991036	I-5	255.15	Squalicum Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015	Yes
995701	I-5	258.56	unnamed	unnamed to Silver Cr	1	added to injunction barrier list	newly identified barrier- Limited Gain	3/16/2016	No
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	No
995704	I-5	260.58	Silver Cr	Nooksack R	1	added to injunction barrier list	newly identified barrier- Significant Gain	5/7/2021	No
995715	I-5;NB	268.64	unnamed	California Cr	1	not an injunction barrier	barrier corrected	10/4/2020	Yes
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	No
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	No
933867	I-90	6.75	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Limited Gain	9/11/2017	No
994415	I-90	14.71	unnamed	Lake Sammamish	8	added to injunction barrier list	newly identified barrier- Significant Gain	10/11/2017	No
996476	I-90; WB Off-ramp	16.03	unnamed	Tibbetts Cr	8	added to injunction barrier list	newly identified barrier - Significant Gain	7/15/2019	No
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	No
996475	I-90; WB off-ramp	17.00	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	No
996963	I-90; WB on-ramp	17.00	NF Issaquah Cr	Issaquah Cr	08.0181	not an injunction barrier	barrier corrected	10/13/2017	Yes
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	5/8/2017	No
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	No
996473	I-90; EB	21.23	unnamed	EF Issaquah Cr	8	not an injunction barrier	not a barrier	8/4/2017	Yes
934821	I-90 WB	25.68	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2020	No
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	No
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	No
998969	I-405	4.61	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Limited Gain	12/5/2018	No
996482	I-405	5.09	Johns Cr	Lake Washington	8	added to injunction barrier list	species use verified, salmon and/or steelhead present- newly identified barrier Significant Gain	9/9/2015	No

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
999410	I-405	6.31	Clover Cr	Lk Washington	8	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/6/2017	Yes
933259	I-405	7.61	Gypsy Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	5/18/2015	No
998971	I-405	7.83	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	5/18/2015	No
998972	I-405	7.90	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	5/18/2015	No
934704	I-405	8.15	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Limited Gain	1/14/2019	No
932933	I-405	10.00	unnamed	Coal Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	12/5/2018	No
933258	I-405	12.03	Trail Cr	Mercer Sl	8	added to injunction barrier list	newly identified barrier- Limited Gain	5/18/2015	No
933244	I-405	13.05	Sturtevant Cr	Richards Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	2/24/2015	No
990376	I-405	19.12	Forbes Cr	Juanita Bay	8	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020	No
932812	I-405	20.50	unnamed	Juanita Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	10/29/2014	No
998979	I-405; SB	21.44	unnamed	Juanita Cr	8	not an injunction barrier	stream determined to be non-fish bearing	8/4/2016	Yes
991008	I-405	27.70	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	3/29/2016	No
998976	I-405; SB	27.76	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	3/29/2016	No
993898	I-405; ROW	29.67	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/28/2015	Yes
996885	Redmond Way	5.33	unnamed	unnamed	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Yes
996886	Redmond Way	5.40	unnamed	Peters Cr	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Yes
996887	Redmond Way	5.69	Peters Cr	Sammamish R	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Yes
931620	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015	Yes
931621	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015	Yes
996735	SR 3	26.13	unnamed (Romance Hill)	Mindy Cr	15	not an injunction barrier	barrier corrected	12/20/2016	Yes
991995	SR 3	36.10	Wright Cr	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Significant Gain	10/12/2013	No
990735	SR 6	22.64	Salmon Cr	Rock Cr	23	not an injunction barrier	barrier corrected	12/20/2019	Yes
990744	SR 6	31.06	SB Fronia Cr	Fronia Cr	23	not an injunction barrier	barrier corrected- channel realigned and crossing abandoned	12/20/2019	Yes
990746	SR 6	31.08	Fronia Cr	Chehalis R	23	not an injunction barrier	barrier corrected	12/18/2019	Yes
990755	SR 6	34.85	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier- Significant Gain	8/4/2016	No
990405	SR 6	36.21	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - Limited Gain	11/22/2019	No
990534	SR 6	40.53	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016	Yes
990761	SR 6	41.70	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016	Yes
990084	SR 7	11.56	Coal Cr	Roundtop Cr	11	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	10/30/2014	Yes
990672	SR 7	14.72	unnamed	East Cr	11	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	10/30/2014	Yes
990687	SR 7	38.60	unnamed	South Cr	11	not an injunction barrier	stream determined to be non-fish bearing	9/19/2014	Yes
990297	SR 7	41.17	Muck Cr	Nisqually R	11	not an injunction barrier	barrier corrected	12/31/2013	Yes
996274	SR 7	58.34	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier- Significant Gain	12/28/2015	No
993722	SR 8	1.02	unnamed	Cloquallum Cr	22	added to injunction barrier list	newly identified barrier- Limited Gain	12/5/2018	No
22.0507 0.10	SR 8	5.00	MF Wildcat Cr	EF Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018	Yes
990133	SR 8	6.30	EF Wildcat Cr	Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018	Yes
992004	SR 8	7.27	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/2/2019	No
992005	SR 8	7.34	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/2/2019	No
990706	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/28/2015	Yes
990707	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/28/2015	Yes
991810	SR 9; Access Rd	4.15	unnamed	unnamed	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/15/2015	Yes
999168	SR 9	14.00	Centennial Cr	Pilchuck R	7	not an injunction barrier	culvert determined not to be a barrier. Limited Gain	12/4/2019	Yes
LP19	SR 9	37.26	unnamed	unnamed Pilchuck Creek tributary	5	added to injunction barrier list	species use verified, salmon and/or steelhead present- newly identified barrier Limited Gain	4/10/2018	No
991158	SR 9	38.88	unnamed	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier- Significant Gain	4/4/2016	No
991120	SR 9	42.36	Lake Cr	Big Lk	3	not an injunction barrier	barrier corrected	12/29/2015	Yes
991114	SR 9	62.36	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/15/2015	No

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
SR71	SR 9	63.74	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/15/2015	No
991116	SR 9	65.32	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/10/2015	No
991446	SR 9	66.51	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Limited Gain	10/13/2015	No
991448	SR 9	67.33	NP Cr	Samish R	3	not an injunction barrier	barrier corrected	12/31/2013	Yes
992349	SR 9	77.36	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019	Yes
992350	SR 9	77.43	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019	Yes
992356	SR 9	77.94	Tawes Cr	SF Nooksack R	1	not an injunction barrier	barrier corrected	12/20/2019	Yes
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	No
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	No
990581	SR 11	18.65	Hoags Cr	Chuckanut Cr	1	not an injunction barrier	barrier corrected	10/23/2020	Yes
994389	SR 11	20.25	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015	Yes
935539	SR 16	15.05	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
935540	SR 16	15.09	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
934541	SR 16	15.16	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2020	No
996754	SR 16; EB Ext	26.61	unnamed	Ross Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	3/25/2019	No
990357	SR 16	26.80	Ross Cr	Sinclair Inlet	15	added to injunction barrier list	species use verified, salmon and/or steelhead present- newly identified barrier Significant Gain	6/15/2015	No
934154	SR 16	27.49	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Limited Gain	5/1/2017	No
996753	SR 16; EB	28.10	Anderson Cr	Sinclair Inlet	15.0211	not an injunction barrier	barrier corrected	12/20/2016	Yes
990017	SR 16; WB	28.10	Anderson Cr	Sinclair Inlet	15.0211	not an injunction barrier	barrier corrected	12/20/2016	Yes
995970	SR 18	22.55	unnamed	unnamed Holder Cr trib	8	added to injunction barrier list	newly identified barrier - Limited Gain	3/4/2019	No
994859	SR 18	23.66	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - Significant Gain	3/4/2019	No
994860	SR 18	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020	No
994860	SR 18	24.24	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing. Significant gain.	1/19/2021	No
934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020	No
934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing. Significant gain.	1/19/2021	No
934882	SR 18	24.42	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - Limited Gain	10/16/2019	No
934791	SR 18	25.04	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - Significant Gain	3/4/2019	No
934791	SR 18	25.67	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing. Significant gain.	1/27/2021	No
934828	SR 18	27.83	unnamed	unnamed Lake Cr trib	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2020	No
995978	SR 20	12.96	Crockett Lk	Keystone Harbor	6	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/7/2015	Yes
995423	SR 20	48.07	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier- Significant Gain	7/24/2017	No
995424	SR 20	48.12	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier- Significant Gain	7/24/2017	No
995425	SR 20	48.16	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier- Significant Gain	7/24/2017	No
933175	SR 20	53.53	unnamed	Guemes Channel	3	added to injunction barrier list	newly identified barrier- Significant Gain	6/18/2015	No
995432	SR 20	53.90	unnamed	Indian Sl	3	not an injunction barrier	not a culvert feature	2/3/2014	Yes
991146	SR 20	72.85	Childs Cr	Skagit R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/16/2015	No
995438	SR 20	77.75	unnamed	Careys Cr	3	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Yes
991123	SR 20	80.10	unnamed	Skagit R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/16/2015	No
GR43	SR 20	86.21	Ebing Cr	Skagit R	04	not an injunction barrier	culvert determined to not be a barrier	3/27/2017	Yes
991150	SR 20	87.20	Eagle Cr	Skagit R	4	added to injunction barrier list	newly identified barrier- Significant Gain	10/28/2015	No
991711	SR 20	94.10	unnamed	Skagit R	4	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/3/2014	Yes
932471	SR 20	118.10	Unnamed	Thorton Cr	4	not an injunction barrier	stream determined to be non-fish bearing	1/12/2016	Yes
990233	SR 92	2.69	Little Pilchuck Cr	Pilchuck R	7	not an injunction barrier	barrier corrected	4/26/2019	Yes
996275	SR 99	0.44	unnamed	Fife Ditch	10	not an injunction barrier	stream determined to be non-fish bearing. Significant gain.	5/28/2020	Yes
991210	SR 99	6.86	WF Hylebos Cr	Hylebos Cr	10	not an injunction barrier	barrier corrected	12/29/2015	Yes
993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019	No
991122	SR 99	48.00	Gribble Cr	WF Nookachamps Cr	3	not an injunction barrier	barrier corrected	4/26/2019	Yes
992205	SR 104	22.47	Grovers Cr	Miller Bay	15.0299	not an injunction barrier	barrier corrected	12/20/2016	Yes
991301	SR 105	31.38	unnamed	South Bay	22	not an injunction barrier	not a culvert feature	2/3/2014	Yes
993010	SR 105	34.02	unnamed	unnamed South Bay trib	22	added to injunction barrier list	newly identified barrier- Significant Gain	9/28/2020	No



**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
994785	SR 105	46.39	unnamed	unnamed	22	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Yes
996127	SR 106	3.39	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier- Limited Gain	4/29/2015	No
115 MC160	SR 106	7.34	unnamed	Hood Canal	14	added to injunction barrier list	newly identified barrier- Significant Gain	5/7/2021	No
990908	SR 106	10.83	unnamed	Hood Canal	14	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
991246	SR 106	13.50	Twanoh Falls Cr	Hood Canal	14	not an injunction barrier	barrier corrected	12/31/2013	Yes
933361	SR 107 ROW	4.31	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/25/2016	No
933360	SR 107	4.34	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/25/2016	No
990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	added to injunction barrier list	newly identified barrier- Significant Gain	5/4/2015	No
14.0021 0.30	SR 108	11.90	Little Skookum Cr	Skookum Cr	14.0021	not an injunction barrier	barrier corrected	12/20/2016	Yes
990916	SR 109	11.61	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/18/2019	No
990917	SR 109	11.66	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/18/2019	No
990919	SR 109	17.81	unnamed	Connor Cr	21	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019	No
990138	SR 109	28.05	Elk Cr	Pacific Ocean	21	not an injunction barrier	culvert determined not to be a barrier. Significant gain.	7/18/2019	Yes
990205	SR 112	5.17	Jansen Cr	Strait of Juan de Fuca	19.0228	not an injunction barrier	barrier corrected	12/20/2016	Yes
991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/26/2018	Yes
990214	SR 112	33.21	Joe Cr	Strait of Juan de Fuca	19.0109	not an injunction barrier	barrier corrected	12/20/2016	Yes
990144	SR 112	48.49	Field Cr	Strait of Juan de Fuca	19.0026	not an injunction barrier	barrier corrected	12/20/2016	Yes
991660	SR 112	52.90	Nordstrom Cr	Salt Cr	19.0011	not an injunction barrier	barrier corrected	10/13/2017	Yes
990092	SR 112	57.61	Coville Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/31/2013	Yes
990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	added to injunction barrier list	newly identified barrier- Significant Gain	10/28/2015	No
990943	SR 116	4.67	Killsut Harbor	Oak Harbor	17	added to injunction barrier list	newly identified barrier- Significant Gain	11/15/2013	No
990943	SR 116	4.67	Killsut Harbor	Oak Harbor	17	not an injunction barrier	barrier corrected	10/12/2020	No
995019	SR 119	3.98	unnamed	Lake Kokanee	16	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/30/2015	Yes
995913	SR 119	5.66	unnamed	Lk Cushman	16	added to injunction barrier list	newly identified barrier- Limited Gain	6/30/2015	No
933500	SR 119	9.38	Big Cr	Lake Cushman	16	added to injunction barrier list	newly identified barrier- Significant Gain	3/1/2018	No
990962	SR 121	4.04	Blooms Ditch	Black R	23.0684	not an injunction barrier	barrier corrected	12/20/2016	Yes
343040	SR 121	4.10	unnamed	Blooms Ditch	23	not an injunction barrier	barrier corrected	12/20/2016	Yes
343041	SR 121	4.84	Hopkins Ditch	Salmon Cr	23	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
990972	SR 161	12.85	South Cr	Muck Cr	11.0028	not an injunction barrier	barrier corrected	12/20/2016	Yes
991800	SR 162	4.39	unnamed	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	11/22/2016	Yes
991215	SR 162	4.82	Ball Cr	Puyallup R	10	not an injunction barrier	barrier corrected	12/31/2013	Yes
105 R033020A	SR 162	16.66	unnamed	S Prairie Cr	10	added to injunction barrier list	newly identified barrier- Significant Gain	6/9/2017	No
996308	SR 164; ROW	7.00	unnamed	White R	10	not an injunction barrier	not WSDOT ownership	3/15/2016	Yes
991837	SR 164	10.21	unnamed	unnamed	10	not an injunction barrier	not a barrier	6/28/2017	Yes
992009	SR 166	0.52	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Significant Gain	5/1/2017	No
990358	SR 166	1.76	Ross Cr	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Significant Gain	3/25/2019	No
990083	SR 167	0.82	Clear Cr	Puyallup R	10	not an injunction barrier	not a culvert feature	2/3/2014	Yes
991212	SR 167	8.05	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - Significant Gain	4/1/2020	No
991211	SR 167	10.00	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - Significant Gain	4/1/2020	No
996290	SR 167	11.37	unnamed	Milwaukee Canal	10	not an injunction barrier	culvert determined to not be a barrier	10/29/2013	Yes
996290	SR 167	11.37	unnamed	Milwaukee Canal	10	added to injunction barrier list	newly identified barrier- Significant Gain	8/5/2020	Yes
105 R050320a	SR 167; NB Ext 8	12.05	Jovita Cr	Milwaukee Canal	10.0033	not an injunction barrier	barrier corrected	12/20/2016	Yes
930179	SR 167; ROW	12.72	unnamed	Milwaukee Canal	10	not an injunction barrier	barrier corrected	12/20/2016	Yes
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	Yes
933530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	added to injunction barrier list	newly identified barrier- Significant Gain	12/28/2017	No
935056	SR 169	7.10	Rock Cr	Rock Cr	9	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020	No
996500	SR 169	19.84	unnamed	Cedar R	8	added to injunction barrier list	species use verified, salmon and/or steelhead present- newly identified barrier Limited Gain	1/7/2019	No
997646	SR 181	7.30	unnamed	Springbrook Cr	9	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Yes
102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	8	not an injunction barrier	barrier corrected	4/26/2019	Yes
990325	SR 202	13.24	Patterson Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	11/4/2020	Yes

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
991174	SR 202	19.69	unnamed	Patterson Cr	7	not an injunction barrier	barrier corrected	11/4/2020	Yes
991173	SR 202	19.77	unnamed	Patterson Cr	7	not an injunction barrier	barrier corrected	11/4/2020	Yes
101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	added to injunction barrier list	newly identified barrier- Significant Gain	1/7/2016	No
991721	SR 203	4.91	unnamed	Langlois Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/3/2014	No
991717	SR 203	4.98	Langlois Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	4/22/2019	Yes
991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	10/23/2020	Yes
995181	SR 203	14.10	Thayer Cr	Snoqualmie R	07	not an injunction barrier	barrier corrected	9/11/2017	Yes
991718	SR 203	14.55	Coe Clemmons Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	12/29/2015	Yes
932163	SR 303; ROW	4.33	unnamed	Steele Cr	15	not an injunction barrier	not WSDOT ownership	3/15/2016	Yes
933644	SR 305	1.90	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier- Limited Gain	6/1/2016	No
933663	SR 305	3.37	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier- Limited Gain	6/1/2016	No
933664	SR 305	3.40	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - Limited Gain	7/2/2019	No
933685	SR 305	5.23	unnamed	Port Madison	15	added to injunction barrier list	newly identified barrier- Limited Gain	4/11/2016	No
933686	SR 305	5.37	unnamed	Manzanita Bay	15	added to injunction barrier list	newly identified barrier- Significant Gain	4/11/2016	No
994328	SR 305	10.55	unnamed	Liberty Bay	15	added to injunction barrier list	newly identified barrier- Significant Gain	4/11/2016	No
933284	SR 305	13.12	unnamed	Dogfish Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	12/28/2015	No
990123	SR 307	0.49	Dogfish Cr	Liberty Bay	15.0285	not an injunction barrier	barrier corrected	12/20/2016	Yes
992002	SR 307	4.62	Gamble Cr	Port Gamble	15.0356	not an injunction barrier	barrier corrected	12/20/2016	Yes
996618	SR 410	17.26	Fennel Cr	Puyallup R	10	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	9/11/2017	Yes
991204	SR 410	22.64	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier- Significant Gain	6/5/2017	No
991206	SR 410	22.94	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier- Significant Gain	6/5/2017	No
991205	SR 410	23.83	unnamed	Boise Cr	10	not an injunction barrier	not a barrier	3/2/2018	Yes
991049	SR 507	36.35	Lacamas Cr	Muck Cr	11.0022	not an injunction barrier	barrier corrected	12/20/2016	Yes
991755	SR 508	3.50	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	11/22/2016	Yes
994967	SR 508	5.75	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	3/30/2017	Yes
105 R121419a	SR 509	2.98	Wapato Cr	Blair Waterway	10	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019	No
933183	SR 509	5.24	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier Significant Gain verified by TD; need RSFS for complete gain.	11/19/2018	No
933185	SR 509	5.81	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier- Limited Gain	9/9/2015	No
990412	SR 512	4.17	Swan Cr	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	6/18/2015	Yes
997670	SR 516	10.58	unnamed	Big Soos Cr	9	not an injunction barrier	stream determined to be non-fish bearing	5/11/2018	Yes
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	Yes
994449	SR 520; EB off-ramp	6.03	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	3/15/2016	Yes
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	1/6/2014	No
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected in 2014	10/30/2014	No
994237	SR 520; LX	6.26	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014	Yes
994238	SR 520; WB off-ramp	6.27	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014	Yes
994704	SR 520; Maint Yard	6.40	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	3/15/2016	Yes
994705	SR 520	6.44	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	12/31/2013	Yes
990274	SR 522	4.69	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	9/15/2020	No
08.0052 0.10	SR 522	5.76	Lyon Cr	Lake Washington	8	not an injunction barrier	barrier corrected	12/29/2015	Yes
996928	SR 522	9.60	Horse Cr	Sammamish R	8	not an injunction barrier	barrier corrected	4/26/2019	Yes
996910	SR 522	11.59	unnamed	Sammamish R	8	not an injunction barrier	stream determined to be non-fish bearing	4/26/2019	Yes
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	Yes
994440	SR 522	16.57	Daniels Cr	Cottage Lk Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019	Yes
934276	SR 522	18.77	unnamed	unnamed Evans Cr trib	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/5/2018	No
994125	SR 522	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014	Yes
994128	SR 522	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014	Yes
996915	SR 523	1.24	unnamed	Thornton Cr	8	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/16/2013	Yes

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
996915	SR 523	1.24	unnamed	Thornton Cr	8	added to injunction barrier list	species use verified, salmon and/or steelhead potential- newly identified barrier Significant Gain	12/20/2019	Yes
993122	SR 524	7.02	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015	Yes
993121	SR 524; ROW	7.07	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015	Yes
102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	8	not an injunction barrier	barrier corrected	4/26/2019	Yes
102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	7/8/2014	No
995126	SR 526	0.80	Japanese Gulch Cr	Possession Sound	7	added to injunction barrier list	newly identified barrier- Significant Gain	5/2/2019	No
991159	SR 530	24.65	Trafton Cr	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	11/8/2020	Yes
991160	SR 530	25.94	Schoolyard Cr	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	12/20/2019	Yes
995404	SR 530	36.83	unnamed	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Yes
991169	SR 530	36.90	unnamed	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Yes
991170	SR 530	37.58	unnamed	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Yes
990885	SR 530	66.53	unnamed	Skagit R	4	added to injunction barrier list	newly identified barrier- Significant Gain	9/18/2017	No
991057	SR 531	8.37	unnamed	MF Quilceda Cr	7	added to injunction barrier list	newly identified barrier- Limited Gain	1/28/2019	No
991058	SR 531	8.65	Edgecomb Cr	MF Quilceda Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	10/16/2014	No
991058	SR 531	8.65	Edgecomb Cr	MF Quilceda Cr	07.0060	not an injunction barrier	barrier corrected	10/25/2017	No
991059	SR 531	8.71	Edgecomb Cr	MF Quilceda Cr	07.0060	not an injunction barrier	barrier corrected	10/25/2017	Yes
995208	SR 531	9.70	unnamed	unnamed	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020	No
05.0018 2.00	SR 532	6.14	Church Cr	Stillaguamish R	05.0018	not an injunction barrier	barrier corrected	10/13/2017	Yes
990890	SR 532	8.71	Jackson Gulch Cr	Stillaguamish R	5	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/28/2020	Yes
990624	SR 532	9.75	Secret Cr	Pilchuck Cr	05.0065	not an injunction barrier	barrier corrected	12/20/2016	Yes
PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	added to injunction barrier list	newly identified barrier- Limited Gain	1/25/2016	No
991973	SR 539 SB	0.30	WF Spring Cr	Spring Cr	1	added to injunction barrier list	species use verified, salmon and/or steelhead present- newly identified barrier Significant Gain	4/30/2018	No
934372	SR 539 SB	6.00	unnamed	Steamboat Sl	7	added to injunction barrier list	newly identified barrier- Limited Gain	12/18/2017	No
990014	SR 542	3.50	Squalicum Cr	Bellingham Bay	1	added to injunction barrier list	newly identified barrier- Significant Gain	9/25/2017	No
01.0228 4.80	SR 542	6.55	Anderson Cr	Nooksack R	1	not an injunction barrier	barrier corrected	12/29/2015	Yes
990434	SR 542	15.32	unnamed	Jim Cr	1	not an injunction barrier	not a barrier	6/28/2017	Yes
991112	SR 542	19.57	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier- Significant Gain	7/11/2017	No
991704	SR 542	20.14	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier- Limited Gain	9/25/2017	No
991621	SR 542	24.90	High Cr	Kendall Cr	01.0407	not an injunction barrier	barrier corrected	12/20/2016	Yes
990187	SR 542	32.00	Hedrick Cr	NF Nooksack R	1	not an injunction barrier	barrier corrected	12/26/2018	Yes
990603	SR 542	36.61	Lookout Cr	NF Nooksack R	1	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/15/2014	Yes
996161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	added to injunction barrier list	newly identified barrier- Significant Gain	8/5/2014	No
990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	added to injunction barrier list	newly identified barrier- Significant Gain	8/24/2017	No
996003	SR 548	0.29	unnamed	California Cr	1	not an injunction barrier	barrier corrected	10/23/2020	Yes
996149	SR 548	8.11	unnamed	Terrell Cr	1	not an injunction barrier	culvert determined 100% passable. Significant gain.	4/27/2021	Yes
996155	SR 548	11.19	unnamed	Drayton Harbor	01.0044	not an injunction barrier	barrier corrected	12/20/2016	Yes
991842	SR 900	15.86	Green Cr	May Cr	08.0288	not an injunction barrier	barrier corrected	10/13/2017	Yes
995046	US 2	3.59	unnamed	unnamed	7	not an injunction barrier	stream determined to be non-fish bearing	9/20/2016	Yes
995101	US 2	6.23	Bunk Foss Cr	Pilchuck R	7	not an injunction barrier	culvert determined 100% passable. Significant gain.	10/30/2020	Yes
101NORT-01	US 2	15.74	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	10/9/2017	No
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	5/2/2016	No
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	not an injunction barrier	not a barrier	10/16/2017	No
101NORT-36	US 2	19.30	unnamed	Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	9/14/2017	Yes
992066	US 2	24.80	unnamed	Wallace R	7	added to injunction barrier list	newly identified barrier- Significant Gain	5/4/2016	No
992066	US 2	24.80	unnamed	Wallace R	7	not an injunction barrier	culvert determined to not be a barrier	9/7/2016	No
991822	US 2	34.36	unnamed	Skykomish R	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/27/2021	Yes
995058	US 2	44.26	unnamed	SF Skykomish R	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/27/2018	Yes

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
995059	US 2	44.30	unnamed	SF Skykomish R	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/27/2018	Yes
995061	US 2	48.35	unnamed	SF Skykomish R	07	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Yes
934093	US 2	48.82	unnamed	SF Skykomish R	7	added to injunction barrier list	newly identified barrier- Limited Gain	5/8/2017	No
934093	US 2; ROW	48.82	unnamed	SF Skykomish R	7	not an injunction barrier	not under a roadway. not relevant to the injunction. Limited gain.	10/6/2020	No
990485	US 12	0.61	Wilson Cr	Chehalis R	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/31/2018	No
991910	US 12	6.55	unnamed	Higgins Sl	22	added to injunction barrier list	newly identified barrier- Significant Gain	12/16/2015	No
991909	US 12	6.56	unnamed	unnamed Higgins Sl trib	22	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/5/2018	Yes
994791	US 12	9.04	unnamed	Wynoochee R	22	not an injunction barrier	barrier corrected	10/19/2018	Yes
22.0349 0.70	US 12	12.36	Camp Cr	Metcalf Sl	22	added to injunction barrier list	newly identified barrier- Significant Gain	9/18/2017	No
933616	US 12	17.56	unnamed	Wenzel Sl	22	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2017	No
990563	US 12	36.33	Roundtree Cr	Harris Cr	23	added to injunction barrier list	newly identified barrier- Significant Gain	10/15/2018	No
993673	US 101	84.15	unnamed	Chehalis R	22	not an injunction barrier	not a culvert feature	2/3/2014	Yes
993680	US 101	90.96	unnamed	Hoquiam R	22	added to injunction barrier list	newly identified barrier- Significant Gain	12/31/2017	No
993688	US 101	92.33	unnamed	WF Hoquiam R	22	added to injunction barrier list	newly identified barrier- Significant Gain	7/25/2018	No
990033	US 101	102.97	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier- Significant Gain	3/1/2018	No
993712	US 101	103.27	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019	No
990175	US 101	106.51	Hansen Cr	Humptulips R	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/2/2019	No
993714	US 101	107.42	Mopang Cr	Big Cr	22	not an injunction barrier	not a barrier	3/2/2018	Yes
990544	US 101	132.16	unnamed	unnamed Ten O Clock Cr trib	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/16/2019	Yes
990252	US 101	136.45	Cedar Cr	Raft R	21	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
990455	US 101	136.70	unnamed	Cedar Cr	21	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
990547	US 101	136.90	unnamed	Cedar Cr	21	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
990456	US 101	137.82	unnamed	Crane Cr	21	added to injunction barrier list	newly identified barrier- Significant Gain	5/15/2021	No
990548	US 101	142.48	Harlow Cr	Queets R	21.0134	added to injunction barrier list	newly identified barrier- Significant Gain	1/9/2014	No
990457	US 101	142.68	Harlow Cr	Queets R	21	added to injunction barrier list	newly identified barrier- Significant Gain	1/9/2014	No
990178	US 101	146.85	Harlow Cr	Queets R	21	not an injunction barrier	barrier corrected	10/23/2020	Yes
990148	US 101	147.49	Fisher Cr	Queets R	21	not an injunction barrier	barrier corrected	9/24/2020	Yes
990722	US 101	154.88	unnamed	Pacific Ocean	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/21/2020	Yes
990550	US 101	154.90	unnamed	Pacific Ocean	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/21/2020	Yes
997355	US 101	155.80	unnamed	Pacific Ocean	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	8/19/2014	Yes
934255	US 101	167.52	unnamed	Fletcher Cr	20	added to injunction barrier list	newly identified barrier- Limited Gain	7/17/2018	No
996228	US 101	169.24	unnamed	Braden Cr	20	added to injunction barrier list	newly identified barrier- Significant Gain	3/2/2018	No
990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019	No
997051	US 101	169.89	unnamed	unnamed tributary to Braden Creek tributary	20	added to injunction barrier list	species use verified, salmon and/or steelhead present- newly identified barrier Limited Gain	3/7/2018	No
990553	US 101	170.12	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier- Significant Gain	3/2/2018	No
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	No
991647	US 101	175.45	unnamed	Hoh R	20	not an injunction barrier	barrier corrected	10/23/2020	Yes
933682	US 101; ROW	175.77	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier- Significant Gain	3/22/2016	No
997072	US 101	177.97	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991595	US 101	178.09	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991589	US 101	178.30	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991590	US 101	178.63	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes



**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2021)**

One hundred eighty-two culverts are no longer injunction barriers requiring repair. One hundred seventy newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
991591	US 101	179.13	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991592	US 101	179.57	Hell Roaring Cr	Hoh R	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
997078	US 101	179.73	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991593	US 101	180.20	unnamed	EF Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
997082	US 101	183.44	unnamed	Dowans Cr	20	not an injunction barrier	stream determined to be non-fish bearing	7/21/2014	Yes
990156	US 101	186.41	unnamed	Bogachiel R	20	not an injunction barrier	culvert determined to not be a barrier	3/27/2017	Yes
991515	US 101	187.79	unnamed	Bogachiel R	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/16/2014	Yes
933421	US 101	189.05	unnamed	Grader Cr	20	added to injunction barrier list	newly identified barrier- Significant Gain	1/26/2016	No
20.0312 0.60	US 101	197.10	Swanson Cr	Soleduck R	20.0312	not an injunction barrier	barrier corrected	12/20/2016	Yes
991565	US 101	221.00	unnamed	Lk Crescent	19	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/8/2015	Yes
996391	US 101	222.11	Eagle Cr	Lk Crescent	19	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/8/2015	Yes
996398	US 101	226.24	Smith Cr	Lk Crescent	19	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/7/2015	Yes
995823	US 101	239.31	unnamed	Indian Cr	18	added to injunction barrier list	newly identified barrier- Significant Gain	7/10/2017	No
932888	US 101; off-ramp	246.18	unnamed	Tumwater Cr	18	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2017	No
934250	US 101 ROW	253.84	unnamed	Bagley Creek	18	added to injunction barrier list	newly identified barrier- Significant Gain	1/4/2018	No
990555	US 101	259.79	Owl Cr	Matriotti Cr	18	not an injunction barrier	barrier corrected	10/22/2014	Yes
18.0021 5.40	US 101	260.93	Matriotti Cr	Dungeness R	18.0021	not an injunction barrier	barrier corrected	10/13/2017	Yes
933369	US 101	263.43	Sequim Prairie Tri ditch	Gierin Cr	18	added to injunction barrier list	newly identified barrier- Significant Gain	12/28/2015	No
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	No
994464	US 101	269.45	unnamed	Sequim Bay	17	added to injunction barrier list	newly identified barrier- Significant Gain	5/8/2017	No
990107	US 101	270.57	Dean Cr	Sequim Bay	17	added to injunction barrier list	newly identified barrier - Significant Gain	8/13/2019	No
995496	US 101	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier- Significant Gain	9/12/2017	No
995760	US 101; NB onramp	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier- Significant Gain	9/12/2017	No
991673	US 101	285.70	Andrews Cr	Snow Cr	17	added to injunction barrier list	newly identified barrier- Significant Gain	3/2/2018	No
930373	US 101	291.73	unnamed	Leland Cr	17	added to injunction barrier list	newly identified barrier- Limited Gain	3/2/2018	No
999584	US 101	308.74	unnamed	Hood Canal	16	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	11/4/2013	Yes
995935	US 101	310.27	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier- Limited Gain	2/3/2017	No
991615	US 101	317.45	unnamed	Hood Canal	16	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	10/18/2014	Yes
933494	US 101	334.30	unnamed	Hood Canal	16	not an injunction barrier	culvert determined not to be a barrier. Limited Gain	7/11/2019	No
933494	US 101	334.47	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier- Limited Gain	3/20/2017	No
996367	US 101	334.74	unnamed	Hood Canal	16	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Yes
115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	14	not an injunction barrier	barrier corrected	11/8/2020	Yes



---

# 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. When monitoring is required for a fish passage project by a permitting entity, it is important that WSDOT proposes to use the same monitoring protocols 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 fish passage barrier corrections

### 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



## 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 visually assessed after the first winter to evaluate the impact of higher seasonal flows on fish passage at the structure. 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? 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 and compare to common condition.
- Thalweg: Does a low-flow channel exist through the entire length of the project? 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?
- Hydraulic drops: Are there hydraulic drops and, if present, how to they compare to the original design, previous monitoring assessments, and natural channel?
- Photograph the major project elements
- Evaluate project for fish passage

Long-Term Evaluations - Sites are evaluated 5 and 10 years after construction to determine whether the project still provides fish passage. Monitoring protocols described for the Year 1 Evaluation will be repeated to determine if the site still conforms to the design standards under which it was constructed.

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

## Documenting the Results

Results of the Fish Passage Monitoring Program are available in the annual *WSDOT Fish Passage Performance Report*. WSDOT staff can access the data through our internal Fish Passage database. Parties external to WSDOT can access monitoring reports online via an interactive web map <https://wsdot.wa.gov/Projects/FishPassage/default.htm>. An annual summary of WSDOT's monitoring effort is presented at the Annual Washington State and Western Washington Treaty Tribes Fish Passage Barrier Repair Progress and Coordination Meeting.

Direct questions about the Monitoring Program to:

Tammy Schmidt, WSDOT Fish Passage Biologist & Monitoring Program Lead

[Tammy.Schmidt@wsdot.wa.gov](mailto:Tammy.Schmidt@wsdot.wa.gov)

360.705.7475

Damon Romero, WSDOT Fish Passage Coordinator

[RomeroD@wsdot.wa.gov](mailto:RomeroD@wsdot.wa.gov)

360.705.7413

Susan Kanzler, WSDOT Environmental Services/ Stream Restoration Program Manager

[Susan.Kanzler@wsdot.wa.gov](mailto:Susan.Kanzler@wsdot.wa.gov)

360.705.7250

---

# Appendix IV

## Monitoring Results

## Appendix IV. Monitoring Results - 2020 Inspections

List sorted by WSDOT Region, Road, and Milepost

WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Injunction	Comments	Results
NC	999342	I-90	59.48	Resort Cr	Increased Monitoring	no	Region is monitoring flow loss during September	action needed
NC	999342	I-90	59.48	Resort Cr	Adaptive Management	no	No repair proposed at this time - regional office will continue to monitor low flow	n/a
NW	991036	I-5	255.40	Squalicum Cr	Five Year Interval	yes		passed
NW	995715	I-5 NB	268.64	California Cr trib	Post-Construction	yes	also evaluate new culvert for Zell Rd	passed
NW	935384	I-5 SB	268.67	California Cr trib	Post-Construction	yes	additional structure (935384) added; single existing structure (995715)	passed
NW	996475	I-90	17.00	NF Issaquah Cr trib	Adaptive Management	yes	Repair proposed for summer 2021	n/a
NW	996963	I-90	17.11	NF Issaquah Cr	Increased Monitoring	yes	Evaluate channel condition after winter flood event	action needed
NW	996963	I-90	17.11	NF Issaquah Cr	Adaptive Management	yes	Repair proposed for summer 2021	n/a
NW	991120	SR 9	42.33	Lake Cr	Five Year Interval	yes	flow entrained on RB abutment - repair not warranted per Hydraulics; recheck in 2 years	increase monitoring
NW	992349	SR 9	77.36	Tawes Cr trib	Over-Winter	yes		passed
NW	992350	SR 9	77.43	Tawes Cr trib	Over-Winter	yes	include effectiveness evaluation of flagged large wood structures in DS project reach	passed
NW	992356	SR 9	77.94	Tawes Cr	Over-Winter	yes	watch migrating channel to LB wall at inlet	passed
NW	990581	SR 11	18.65	Hoag's Cr	Post-Construction	yes	difficulty sealing bed resulted in sub-surface flow condition; recheck condition next spring	increase monitoring
NW	994389	SR 11	20.42	Padden Cr	Five Year Interval	yes	"tunnel"	passed
NW	991210	SR 99	6.86	WF Hylebos Cr	Five Year Interval	yes		passed
NW	102 L062	SR 202	0.14	Little Bear Cr	Increased Monitoring	yes	Monitor low flow passage; plane bed conditions - run velocity/depth analysis	action needed
NW	990325	SR 202	13.24	Patterson Cr	Post-Construction	yes		passed
NW	991174	SR 202	19.69	Patterson Cr trib	Post-Construction	yes		passed
NW	991173	SR 202	19.77	Patterson Cr trib	Post-Construction	yes		passed
NW	991716	SR 203	13.60	Loutsis Cr	Post-Construction	yes		passed
NW	995181	SR 203	14.10	Thayer Cr	Adaptive Management	yes	Repair proposed for summer 2021	n/a
NW	991718	SR 203	14.55	Coe Clemons Cr	Five Year Interval	yes		passed
NW	994459	SR 520	4.48	Fairweather Cr	Increased Monitoring	yes	Culvert A - observe if thalweg persists/channel meanders	passed



## Appendix IV. Monitoring Results - 2020 Inspections

List sorted by WSDOT Region, Road, and Milepost

WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Injunction	Comments	Results
NW	994119	SR 520	5.81	Yarrow Cr trib	Increased Monitoring	yes	Culvert C - observe if thalweg persists/channel meanders	passed
NW	994236	SR 520	6.19	Yarrow Cr	Increased Monitoring	yes	Culvert F - observe if thalweg persists/channel meanders	passed
NW	994238	SR 520 ramp	6.27	Yarrow Cr	Increased Monitoring	yes	Culvert G - observe if thalweg persists/channel meanders	passed
NW	08.0052 0.10	SR 522	5.76	Lyon Cr	Five Year Interval	yes		passed
NW	991159	SR 530	24.65	Trafton Cr	Post-Construction	yes	near barrier WSDs at two of the rock weirs; annual monitoring to Year 5	increase monitoring
NW	991160	SR 530	25.94	Schoolyard Cr	Over-Winter	yes		passed
NW	05.0018 2.00	SR 532	6.14	Church Cr	Increased Monitoring	yes	Monitor continuity of thalweg at low flow and response to channel modification	passed; resume schedule
NW	990624	SR 532	9.75	Secret Cr	Increased Monitoring	yes	Monitor channel shape and response to BDAs	action needed
NW	990112	SR 539	4.24	Deer Cr	Increased Monitoring	yes	NWR request - check channel condition	passed
NW	01.0228 4.80	SR 542	6.55	Anderson Cr	Five Year Interval	yes		passed
NW	996003	SR 548	0.29	California Cr trib	Post-Construction	yes		passed
NW	991842	SR 900	15.86	Green Cr	Increased Monitoring	yes	Check flow in project against DS reach - run velocity/depth analysis	action needed
OL	996735	SR 3	26.00	Mindy Cr trib	Increased Monitoring	yes	flow through culvert but US/DS design still subsurface	action needed
OL	996735	SR 3	26.00	Mindy Cr trib	Adaptive Management	yes	US/DS design channel sub flow - culvert interior has surface flow	n/a
OL	990214	SR 112	33.21	Joe Cr	Adaptive Management	yes	Repair proposed for summer 2021	n/a
OL	990943	SR 116	4.67	Kilisut Harbor	Post-Construction	yes		passed
OL	990178	US 101	146.85	Harlow Cr	Post-Construction	yes	recheck extent of erosion at Over-Winter interval; include PO and HQ HYD on site visit	increase monitoring
OL	990148	US 101	147.49	Fisher Cr	Post-Construction	yes		passed
OL	991647	US 101	175.45	Hoh R trib	Post-Construction	yes		passed
OL	18.0021 5.40	US 101	260.93	Matriotti Cr	Increased Monitoring	yes	goes subsurface 9/1 when Dungeness diversion shuts down	action needed
OL	18.0021 5.40	US 101	260.93	Matriotti Cr	Adaptive Management	yes	Repair pending success at Joe Cr	n/a
OL	115 MC093	US 101	346.95	Coffee Cr	Post-Construction	yes		passed
SW	991374	SR 4	3.10	Pete's Cr	Five Year Interval	no		passed
SW	931100	SR 4	33.94	Elochoman SI trib	Five Year Interval	no		passed

#### Appendix IV. Monitoring Results - 2020 Inspections

List sorted by WSDOT Region, Road, and Milepost

WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Injunction	Comments	Results
SW	990818	SR 4	34.10	Elochoman Sl trib	Five Year Interval	no		passed
SW	990735	SR 6	22.64	Salmon Cr	Over-Winter	yes	PO to repair stormwater washout-DONE	passed
SW	990744	SR 6	31.06	SB Fronia Cr	Over-Winter	yes	abandoned crossing - check stream gradient and RB erosion	increase monitoring
SW	990746	SR 6	31.08	Fronia Cr	Over-Winter	yes	Check inlet gradient and US LB erosion	increase monitoring
SW	990746	SR 6	31.08	SB Fronia Cr	Increased Monitoring	yes	check that outstanding work was completed - DONE	passed; resume schedule
SW	990746	SR 6	31.08	Fronia Cr	Increased Monitoring	yes	check that outstanding work was completed - DONE	passed; resume schedule
SW	991412	SR 401	2.03	Hungry Harbor/ Columbia R trib	Post-Construction	no		passed
SW	991630	SR 502	4.55	Mill Cr	Five Year Interval	no		passed
SW	994510	SR 502	4.62	EF Lewis trib	Five Year Interval	no		passed
SW	990283	SR 502	5.13	Mill Cr	Five Year Interval	no		passed
SW	991634	SR 504	17.02	Wooster Cr	Increased Monitoring	no	Monitor regrade again prior to coho season	increase monitoring

---

# Appendix V

## Dedicated Funding Project Evaluations - Spawner Surveys

## Appendix V. Dedicated Funding Project Evaluations - Spawner Surveys Since October 2020

List sorted by WSDOT Region, Site ID, and Survey Date.

WSDOT Region	Site ID	Road	Milepost	Stream	Tributary to	Project Year	Survey Date	Species	Survey Location	Survey Timing	Survey Length (miles)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	2018	03-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	2018	03-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	2018	23-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	2018	23-Dec-20	Coho	Downstream	Post-Project	0.31	1	0	1	1
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	2018	19-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	2018	19-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	990325	SR 202	13.22	Patterson Cr	Snoqualmie R	2020	17-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	990325	SR 202	13.22	Patterson Cr	Snoqualmie R	2020	17-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
NW	990325	SR 202	13.22	Patterson Cr	Snoqualmie R	2020	13-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	990325	SR 202	13.22	Patterson Cr	Snoqualmie R	2020	13-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	990325	SR 202	13.22	Patterson Cr	Snoqualmie R	2020	25-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	990325	SR 202	13.22	Patterson Cr	Snoqualmie R	2020	25-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	990581	SR 11	18.65	Hoag's Cr	Chuckanut Cr	2020	09-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	990581	SR 11	18.65	Hoag's Cr	Chuckanut Cr	2020	09-Dec-20	Coho	Downstream	Post-Project	0.31	0	10	10	0
NW	990581	SR 11	18.65	Hoag's Cr	Chuckanut Cr	2020	04-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	990581	SR 11	18.65	Hoag's Cr	Chuckanut Cr	2020	04-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	990581	SR 11	18.65	Hoag's Cr	Chuckanut Cr	2020	12-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	990581	SR 11	18.65	Hoag's Cr	Chuckanut Cr	2020	12-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	991159	SR 530	24.65	Trafton Cr	NF Stillaguamish R	2020	12-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
NW	991159	SR 530	24.65	Trafton Cr	NF Stillaguamish R	2020	12-Nov-20	Coho	Downstream	Post-Project	0.31	1	0	1	0
NW	991159	SR 530	24.65	Trafton Cr	NF Stillaguamish R	2020	24-Nov-20	Coho	Upstream	Post-Project	0.31	2	0	2	0
NW	991173	SR 202	19.76	unnamed	Patterson Cr	2020	04-Nov-20	Coho	Upstream	Post-Project	0.31	1	0	1	0
NW	991174	SR 202	19.69	unnamed	Patterson Cr	2020	04-Nov-20	Coho	Upstream	Post-Project	0.31	1	0	1	0
NW	991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	2020	24-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
NW	991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	2020	24-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
NW	991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	2020	17-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	2020	17-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
NW	991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	2020	13-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	2020	13-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr	2019	19-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr	2019	19-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr	2019	15-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr	2019	15-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr	2019	06-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr	2019	06-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	Tawes Cr	2019	19-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	Tawes Cr	2019	19-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	Tawes Cr	2019	15-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	Tawes Cr	2019	15-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	Tawes Cr	2019	06-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	Tawes Cr	2019	06-Jan-21		Downstream	Post-Project	0.31	0	0	0	0

# Appendix V. Dedicated Funding Project Evaluations - Spawner Surveys Since October 2020

List sorted by WSDOT Region, Site ID, and Survey Date.

WSDOT Region	Site ID	Road	Milepost	Stream	Tributary to	Project Year	Survey Date	Species	Survey Location	Survey Timing	Survey Length (miles)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
NW	995715	I-5	268.63	unnamed	California Cr	2020	23-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
NW	995715	I-5	268.63	unnamed	California Cr	2020	23-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
NW	995715	I-5	268.63	unnamed	California Cr	2020	29-Dec-20	Coho	Upstream	Post-Project	0.31	0	1	1	0
NW	996003	SR 548	0.29	unnamed	California Cr	2020	23-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
NW	996003	SR 548	0.29	unnamed	California Cr	2020	23-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
NW	996003	SR 548	0.29	unnamed	California Cr	2020	29-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	996003	SR 548	0.29	unnamed	California Cr	2020	29-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
NW	996003	SR 548	0.29	unnamed	California Cr	2020	12-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	996003	SR 548	0.29	unnamed	California Cr	2020	12-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	2018	04-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	2018	04-Nov-20	Sockeye	Downstream	Post-Project	0.31	5	0	5	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	2018	02-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	2018	02-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	2018	25-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	2018	25-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
OL	990148	US 101	147.49	Fisher Cr	Queets R	2020	17-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
OL	990148	US 101	147.49	Fisher Cr	Queets R	2020	17-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
OL	990148	US 101	147.49	Fisher Cr	Queets R	2020	08-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
OL	990148	US 101	147.49	Fisher Cr	Queets R	2020	08-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
OL	990148	US 101	147.49	Fisher Cr	Queets R	2020	20-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
OL	990148	US 101	147.49	Fisher Cr	Queets R	2020	20-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
OL	990178	US 101	146.85	Harlow Cr	Queets R	2020	17-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
OL	990178	US 101	146.85	Harlow Cr	Queets R	2020	17-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
OL	990178	US 101	146.85	Harlow Cr	Queets R	2020	08-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
OL	990178	US 101	146.85	Harlow Cr	Queets R	2020	08-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
OL	990178	US 101	146.85	Harlow Cr	Queets R	2020	20-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
OL	990178	US 101	146.85	Harlow Cr	Queets R	2020	20-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
OL	991647	US 101	175.45	unnamed	Hoh R	2020	17-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
OL	991647	US 101	175.45	unnamed	Hoh R	2020	17-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
OL	991647	US 101	175.45	unnamed	Hoh R	2020	08-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
OL	991647	US 101	175.45	unnamed	Hoh R	2020	08-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
OL	991647	US 101	175.45	unnamed	Hoh R	2020	20-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
OL	991647	US 101	175.45	unnamed	Hoh R	2020	20-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Straight of Juan de Fuca	2018	09-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Straight of Juan de Fuca	2018	09-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Straight of Juan de Fuca	2018	01-Dec-20	Unknown	Upstream	Post-Project	0.31	0	1	1	1
OL	994791	US 12	9.06	unnamed	Wynoochee R	2018	04-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	2018	04-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	2018	19-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	2018	19-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	2018	28-Dec-20		Upstream	Post-Project	0.31	0	0	0	0



## Appendix V. Dedicated Funding Project Evaluations - Spawner Surveys Since October 2020

List sorted by WSDOT Region, Site ID, and Survey Date.

WSDOT Region	Site ID	Road	Milepost	Stream	Tributary to	Project Year	Survey Date	Species	Survey Location	Survey Timing	Survey Length (miles)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
OL	994791	US 12	9.06	unnamed	Wynoochee R	2018	28-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
OL	115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	2020	20-Oct-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr	2019	23-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr	2019	23-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr	2019	14-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr	2019	14-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr	2019	11-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr	2019	11-Jan-21		Downstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	Fronia Cr	Chehalis R	2019	23-Nov-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	Fronia Cr	Chehalis R	2019	23-Nov-20		Downstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	Fronia Cr	Chehalis R	2019	14-Dec-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	Fronia Cr	Chehalis R	2019	14-Dec-20		Downstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	Fronia Cr	Chehalis R	2019	11-Jan-21		Upstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	Fronia Cr	Chehalis R	2019	11-Jan-21		Downstream	Post-Project	0.31	0	0	0	0

---

# Appendix VI

## WSDOT Fishway Inspections

## Appendix VIA. Northwest Region Spring 2021 WSDOT Fishway Inspections

List sorted by Highway and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Northwest	08.0049 3.00	I-5; NB off-ramp	177.67	McAleeer Cr	Fleming	4/21/2021	OK	None
Northwest	993090	I-5	182.73	Swamp Cr	Fleming	4/21/2021	OK	None
Northwest	08.0070 10.60	I-5	187.05	North Cr	Fleming	4/15/2021	OK	None
Northwest	990308	I-5	187.12	North Cr	Fleming	4/15/2021	OK	None
Northwest	990622	I-5	211.50	Secret Cr	Fleming	4/13/2021	MNR	None at this time
Northwest	05.0021 4.10	I-5	216.73	WF Church Cr	Fleming	4/13/2021	OK	None
Northwest	03.0016 0.40	I-5	238.40	Bow Hill Cr	Fleming	4/13/2021	OK	None
Northwest	08.0183 1.00	I-90	17.00	EF Issaquah Cr	Fleming	4/19/2021	OK	None
Northwest	08.0183 1.30	I-90	18.37	EF Issaquah Cr	Fleming	4/19/2021	OK	None
Northwest	08.0183 1.90	I-90	19.02	EF Issaquah Cr	Fleming	4/19/2021	OK	None
Northwest	08.0183 3.00	I-90	20.22	EF Issaquah Cr	Fleming	4/19/2021	OK	None
Northwest	996965	I-90	20.42	unnamed	Fleming	4/19/2021	MNR	None at this time
Northwest	08.0191 0.30	I-90; ROW	21.23	unnamed	Fleming	4/19/2021	OK	None
Northwest	08.0183 5.00	I-90	22.37	EF Issaquah Cr	Fleming	4/19/2021	MNR	None at this time
Northwest	08.0268 0.80	I-405	10.12	Coal Cr	Fleming	4/21/2021	OK	None
Northwest	990376	I-405	19.12	Forbes Cr	Fleming	4/21/2021	MNR	None at this time.
Northwest	08.0059 7.00	I-405	29.75	Swamp Cr	Fleming	4/21/2021	OK	None
Northwest	01.0626 0.35	SR 11	18.60	Chuckanut Cr	Fleming	4/13/2021	OK	None
Northwest	08.0320 1.30	SR 18	16.94	Downs Cr	Fleming	4/16/2021	OK	None
Northwest	03.0354A 0.04	SR 20	77.70	Little Careys Cr	Fleming	4/14/2021	OK	None at this time
Northwest	990065	SR 20	77.82	unnamed	Fleming	4/14/2021	MN	Two logs are wedged in sediment in culvert. Could potentially continue to collect debris during higher flows until culvert is a barrier. Remove both logs.
Northwest	07.0148 1.30	SR 92	1.93	Catherine Cr	Fleming	4/15/2021	OK	None
Northwest	990272	SR 104	29.65	McAleeer Cr	Fleming	4/21/2021	MN	Large debris jam has formed in culvert about 15 from the inlet. Likely catching more debris and building.
Northwest	105 R042117a	SR 164	8.24	Pussyfoot Cr	Fleming	4/16/2021	MNR	None
Northwest	08.0302 0.00	SR 169	23.62	Maplewood Cr	Fleming	4/16/2021	OK	None
Northwest	08.0110 0.10	SR 202	11.05	Rutherford Cr	Fleming	4/19/2021	OK	None
Northwest	990142	SR 202	11.96	Evans Cr	Fleming	4/19/2021	MNR	Gravel and woody debris need to be removed from weir pools.
Northwest	07.0383A 0.50	SR 202	13.80	Dry Cr	Fleming	4/19/2021	OK	None
Northwest	991013	SR 410	50.32	Minnehaha Cr	Fleming	10/19/2020	OK	None
Northwest	990262	SR 522	1.87	Maple Leaf Cr	Fleming	4/21/2021	OK	None
Northwest	08.0080 0.90	SR 522	12.66	Little Bear Cr	Fleming	4/21/2021	OK	None
Northwest	08.0080 1.10	SR 522	12.92	Little Bear Cr	Fleming	4/21/2021	OK	None

## Appendix VIA. Northwest Region Spring 2021 WSDOT Fishway Inspections

List sorted by Highway and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Northwest	08.0070A 0.01	SR 527	4.00	Sulphur Springs Cr	Fleming	4/15/2021	OK	None
Northwest	08.0075 0.20	SR 527; ROW	4.06	Silver Cr No 1	Fleming	4/15/2021	OK	None
Northwest	08.0075 0.70	SR 527	4.46	Silver Cr No2	Fleming	4/15/2021	MN	Remove LWD from fishway.
Northwest	08.0075 0.75	SR 527	4.48	Silver Cr No 3	Fleming	4/15/2021	OK	None
Northwest	08.0070B 0.30	SR 527	6.32	Nickel Cr	Fleming	4/15/2021	OK	None
Northwest	991155	SR 530	54.60	Lyle Cr	Fleming	4/14/2021	OK	None
Northwest	990188	SR 530	64.09	Hilt Cr	Fleming	4/14/2021	OK	None
Northwest	991741	SR 534	1.20	unnamed	Fleming	4/13/2021	OK	None
Northwest	990014	SR 542	3.45	Squalicum Cr	Fleming	4/13/2021	MNR	None
Northwest	990433	SR 900	19.50	Tibbetts Cr	Fleming	4/19/2021	MNR	7th DS stream bed control has failed; water now flowing under control instead of over. Likely another fish passage issue for adult. Check streambed control. Will eventually need replacment or repair.
Northwest	07.0096 0.30	US 2	3.60	Mosier Cr	Fleming	4/15/2021	OK	None

### Fishway Condition:

**MN** requires minor maintenance

**MNR** requires replacement

## Appendix VIB. Olympic Region Spring 2021 WSDOT Fishway Inspections

List sorted by Highway and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Olympic	990323	SR 3	33.70	Parish Cr	Fleming	4/22/2021	OK	None
Olympic	15.0229 0.10	SR 3	40.96	Chico Cr	Fleming	4/22/2021	MNR	None at this time
Olympic	15.0250 0.55	SR 3	46.24	WF Clear Cr	Fleming	4/22/2021	OK	None
Olympic	996803	SR 3	47.72	unnamed	Fleming	4/22/2021	MNR	None at this time
Olympic	990224	SR 3	57.10	Kinman Cr	Fleming	4/22/2021	OK	None
Olympic	15.0060 1.00	SR 16	17.80	Purdy Cr	Fleming	4/22/2021	MNR	None at this time
Olympic	15.0056 4.50	SR 16	22.70	Burley Cr	Fleming	4/22/2021	MNR	None
Olympic	991636	SR 706	8.02	unnamed	Fleming	4/16/2021	OK	None
Olympic	991227	SR 706	9.81	unnamed	Fleming	4/16/2021	MNR	None
Olympic	22.0346 1.10	US 12	11.73	unnamed	Fleming	4/23/2021	OK	None
Olympic	22.0350 0.30	US 12	12.10	unnamed	Fleming	4/23/2021	MN	Large woody debris should be removed from upstream weirs.
Olympic	22.0349 0.70	US 12	12.36	Camp Cr	Fleming	4/23/2021	MNR	None
Olympic	991532	US 12	13.84	Metcalf Sl	Fleming	4/23/2021	MN	Beaver dam needs to be removed from uppermost streambed control on the downstream side.
Olympic	991501	US 101	103.65	unnamed	Fleming	4/23/2021	MNR	None at this time.
Olympic	991581	US 101	104.92	unnamed	Fleming	4/23/2021	OK	None
Olympic	990143	US 101	105.63	Fairchild Cr	Fleming	4/23/2021	OK	None
Olympic	991263	US 101	162.15	Big Cedar Cr	Fleming	4/23/2021	OK	None
Olympic	161180	US 101	167.44	Fletcher Cr	Fleming	4/23/2021	OK	None
Olympic	990197	US 101	171.70	Huelsdonk Cr	Fleming	4/23/2021	OK	None
Olympic	990169	US 101	189.40	Grader Cr	Fleming	4/23/2021	MNR	Stop logs need to be replaced in DS weir pools.
Olympic	18.0283 2.00	US 101	238.35	Indian Cr	Fleming	4/23/2021	MNR	None at this time.
Olympic	990448	US 101	246.40	Tumwater Cr	Fleming	4/22/2021	MNR	Note at this time.
Olympic	990466	US 101	246.90	Valley Cr	Fleming	4/22/2021	OK	None
Olympic	18.0234 1.10	US 101	250.00	Ennis Cr	Fleming	4/22/2021	MNR	None at this time
Olympic	933191	US 101; ROW	260.93	Matriotti Cr	Fleming	4/22/2021	MNR	Several controls have water flowing under but not over the control. Also several water surface drops are excessive.
Olympic	14.0021 0.21	US 101	353.60	Little Skookum Cr	Fleming	4/12/2021	OK	None
Olympic	14.0010 0.10	US 101	356.80	Countyline Cr	Fleming	4/12/2021	MNR	None
Olympic	14.0009A 0.06	US 101	357.90	Holiday Valley Cr	Fleming	4/12/2021	OK	None

### Fishway Condition:

**MN** requires minor maintenance

**MNR** requires replacement



## Appendix VIC. Southwest Region Spring 2021 WSDOT Fishway Inspections

List sorted by Highway and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Southwest	994286	I-5	74.05	Berwick Cr	Fleming	4/8/2021	OK	None
Southwest	994301	I-5	81.77	China Cr	Fleming	4/8/2021	OK	None.
Southwest	990035	SR 4	35.60	Birnie Cr	Fleming	4/8/2021	OK	None
Southwest	990171	SR 6	8.90	Green Cr	Fleming	4/8/2021	OK	None at this time.
Southwest	992268	SR 14	20.92	Lawton Cr	Fleming	4/9/2021	OK	None
Southwest	992223	SR 142	13.40	Snyder Canyon Cr	Fleming	4/9/2021	OK	None
Southwest	990071	SR 401	8.80	Cement Cr	Fleming	4/8/2021	MN	Lowest downstream control or controls have washed out and left a water surface drop of 0.41m over 3rd DS control. Control needs to be restored in order to lessen water surface drops.
Southwest	990036	SR 409	3.85	Birnie Cr	Fleming	4/8/2021	OK	None
Southwest	27.0327 0.50	SR 503	46.84	Johnson Cr	Fleming	4/9/2021	OK	None
Southwest	991440	SR 503	49.03	Kenyon Cr	Fleming	4/9/2021	MN	On 4th weir from bottom, plastic stop log does not seat completely on bottom stop log, causing some water to flow through crack. Wood debris is gathering in crack and in weir pool. Stop log needs to be correctly sized to sit properly on lower stop log.
Southwest	27.0300 0.00	SR 503	52.10	Robinson Cr	Fleming	4/9/2021	OK	None
Southwest	26.0314 A 0.10	SR 504	12.70	Spirit Lake Hwy Marsh	Fleming	4/9/2021	MN	Beaver dams have been built above both streambed controls and sediment has built up above dams. Both should be removed to facilitate fish passage.
Southwest	990363	US 101	29.80	SF Nemah R	Fleming	4/8/2021	OK	None
Southwest	992311	US 101	53.56	Old Mill Pond Cr	Fleming	4/8/2021	OK	None

### Fishway Condition:

**MN** requires minor maintenance