



Washington State Department of Fish and Wildlife

HABITAT PROGRAM TECHNICAL APPLICATIONS DIVISION

Progress Performance Report
For
WSDOT Fish Passage Inventory

April 2005



Washington State Department of Transportation

FISH PASSAGE BARRIER REMOVAL PROGRAM

This report is also available in a pdf format at: http://www.wsdot.wa.gov/environment/fishpass/state_highways.htm.

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Introduction

Restoration of declining salmon and trout populations ranks high in the development of management plans for streams, lakes, and wetlands in Washington State. One of the major problems facing the salmon and trout populations is an inability to utilize their historic rearing and spawning grounds due to fish passage barriers that block access to upstream habitat. Realizing this, the Washington Department of Fish and Wildlife (WDFW) and the Washington Department of Transportation (WSDOT) have worked since 1991 to inventory and correct fish barriers at state highway crossings.

Prior to 1991, WSDOT addressed fish passage barriers as required by hydraulics permits issued for highway construction projects and through routine maintenance. In 1991, in cooperation with the Washington State Legislative Transportation Committee, WSDOT committed funding from its Highway Construction Program to develop an inventory of fish passage barriers to anadromous fish species at state highway crossings. WSDOT contracted with Washington Department of Fisheries (prior to the merger of Washington Departments of Fisheries and Wildlife) to conduct the inventory and habitat studies necessary to prioritize state route barriers for correction. To date, WSDOT has spent over \$31.84 million to inventory, conduct habitat studies, prioritize, and correct fish passage barriers in Washington streams. As a result of those combined efforts, access to over 1,679,610 square meters of salmonid habitat, or, over 630 linear kilometers (391 miles) once blocked by fish passage barriers has been restored.

This report summarizes fish passage inventory updates, fish passage reviews for upcoming WSDOT road projects and the WSDOT barrier correction plan. WSDOT barrier corrections completed in 2004, long-term scoping and planning for future barrier corrections, and fish use evaluations of planned and completed fish passage barrier corrections are also reported.

Fish Passage Inventory

Prior to the merger of Washington Department of Fisheries and Wildlife in 1994, the WSDOT culvert inventory was salmon-centric where a 7% stream gradient marked the upper limit of salmon habitat. Stream crossings located above the 7% gradient were not inventoried. As a direct result of the merger, WDFW took responsibility for management of all fish species. To accommodate all species and to conform to changes in stream typing statutes, WDFW modified the gradient criteria from 7% to 12% and finally to 20% (present). The first gradient changes were implemented in July 1995. Following these changes, all culvert evaluations and physical surveys were done for WSDOT stream crossings up to 12% gradient criteria (salmon and steelhead only). In February 1998, WDFW modified the gradient criteria from 12 to 20% to include resident fish and to adhere to The Forest Practice Rules. Under the new criteria, all fish bearing stream crossings (including drainage ditches) were to be documented. These gradient changes occurred about midway in the comprehensive inventory process of all highway state stream crossings. In 1998, the WSDOT contracted with the WDFW to commence an expanded inventory of barrier crossings using the current fish passage criteria (*WDFW Fish Passage Barrier and Surface Water Diversion Screening Assessment and Prioritization Manual 1998* revised in 2000).

To date, the expanded inventory has been completed on 5,480 kilometers (3,405 miles) of state routes, or 44% of the total WSDOT highway system. Figure 1 shows the progress of the expanded inventory in Washington State.

The results and estimates for the expanded WSDOT fish passage inventory are shown in Table 1. The top row includes data collected to date for the fish passage inventory of 5,480 kilometers (3,405 miles) of WSDOT highways, since the start of the expanded inventory in 1998. The bottom row estimates the number of fish barriers for the entire 12,324 kilometers (7,658 miles) of WSDOT road system based on fish passage inventory results to date.

WSDOT FISH PASSAGE BARRIER INVENTORY PROGRESS REPORT

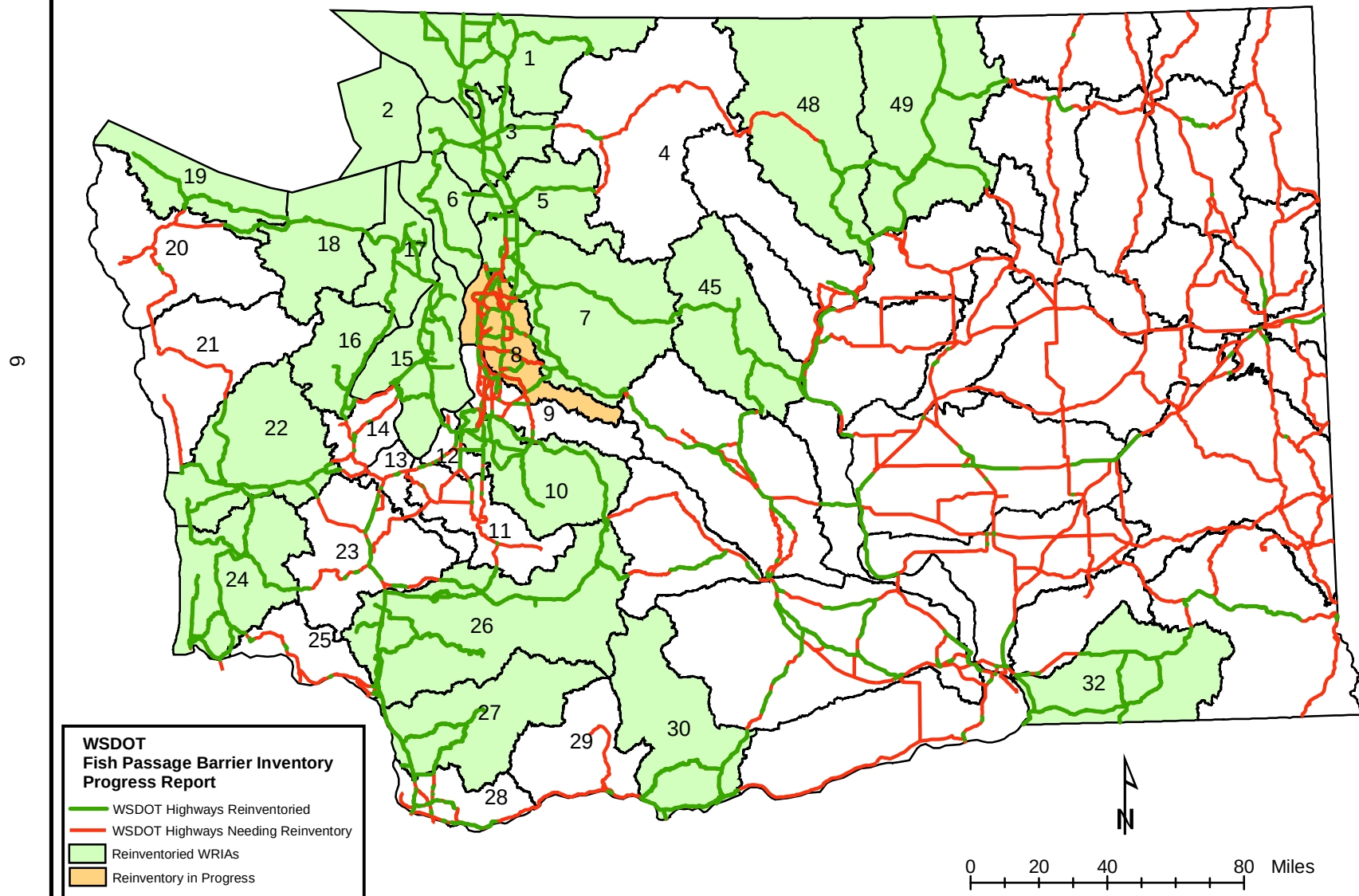


Figure 1. WRIAs inventoried during the Expanded Fish Passage Inventory since 1998.

Table 1. Estimated Number of Fish Bearing Crossings and Barrier Crossings Requiring Fish Passage Repair Based on the WSDOT Expanded Fish Passage Inventory.

Source	Fish-bearing Stream Crossings	Fish Passage Barriers	Barriers with Significant Habitat Gain	Barriers with Limited Habitat Gain ¹	Barriers with Habitat Threshold Gain Not Determined	Barriers Fixed ²
WDFW 2005 Fish Passage and Diversion Screening Inventory Database	2,750	1,274	882	283	107	142
Extrapolated³ data Total	4,200	2,207	1,651	481	92	

¹ Barriers that do not meet our current threshold habitat gain criteria to justify correction using dedicated funding until higher priority barriers are corrected.

² One hundred and forty-two WSDOT fish passage barriers have been reported fixed; however, 23 of those require additional work to meet current fish passage criteria (See Tables 3 and 5).

³ The expected total number of fish passage crossings that have been identified and to be identified during the expanded inventory is a result of updated barrier and habitat evaluation methods.

Fish Passage Inventory Upgrades

During the ongoing WSDOT inventory, 5,050 crossings in natural drainages have been inspected; 2,750 have been identified as fish bearing. Approximately 46% (1,274) of the examined fish bearing crossings were identified as barriers (Table 1). Additionally, 348 crossings require further analysis to determine fish passage barrier status. Sixty-nine percent of known barriers (882), have a significant habitat gain (at least 200 m) and will be prioritized for near-term correction, while 283 barriers with limited habitat gain (less than 200 m) will be considered for correction once the high priority barriers are corrected, or they be may be corrected during road or maintenance projects. Another 107 fish barrier crossings are scheduled for verification of significant habitat gain. A complete list of all the WSDOT-owned fish passage barriers is included in Appendix I.

A habitat assessment is conducted for all identified WSDOT fish passage barriers to prioritize them for fish passage restoration. Three methods of habitat assessment are used; Full Physical Surveys, Threshold Determinations (TD), and Expanded Threshold Determinations (ETD), per the *WDFW Fish Passage Barrier and Surface Water Diversion Screening Assessment and Prioritization Manual* (August 2000, located on the Internet at: <http://www.wdfw.wa.gov/hab/engineer/fishbarr.htm>). The Full Physical Survey and ETD are used to qualify and quantify habitat, while the TD verifies a significant reach of habitat exists both downstream and upstream of a fish passage barrier crossing. Beginning in 2005, all habitat assessments will consist of an ETD to expedite the prioritization process. Habitat measurements taken will be taken only within the 200 meters upstream of barrier and will be applied to the whole length of the potential habitat. However, the stream will be walked to verify the length of potential habitat and to assess additional barriers.

Regional Statistics

WSDOT has six geographic management regions: Northwest, North Central, Olympic, Southwest, South Central, and Eastern (See Figure 2). The re-inventory process has been focused on the western part of the state; over 80% of the Northwest Region and more than half of the Southwest and Olympic regions have been inventoried using the updated barrier assessment protocols (See Figure 1 and Table 2).

Table 2. Fish barrier assessment in six WSDOT regional management areas.

WSDOT Region	% Re-inventoried	Fish-bearing Crossings	Fish Passage Barriers	Barriers with Significant Habitat Gain	Barriers with Limited Habitat Gain	Barriers with Habitat Threshold Gain Not Determined	Barriers Repaired
Northwest	83	884	470	312	120	37	57
North Central	42	170	74	58	11	5	6
Olympic	54	806	425	290	88	46	47
Southwest	62	622	250	181	57	12	18
South Central	11	146	25	19	3	3	5
Eastern	0	122	30	22	4	4	7
Total		2,750	1,274	882	283	107	142

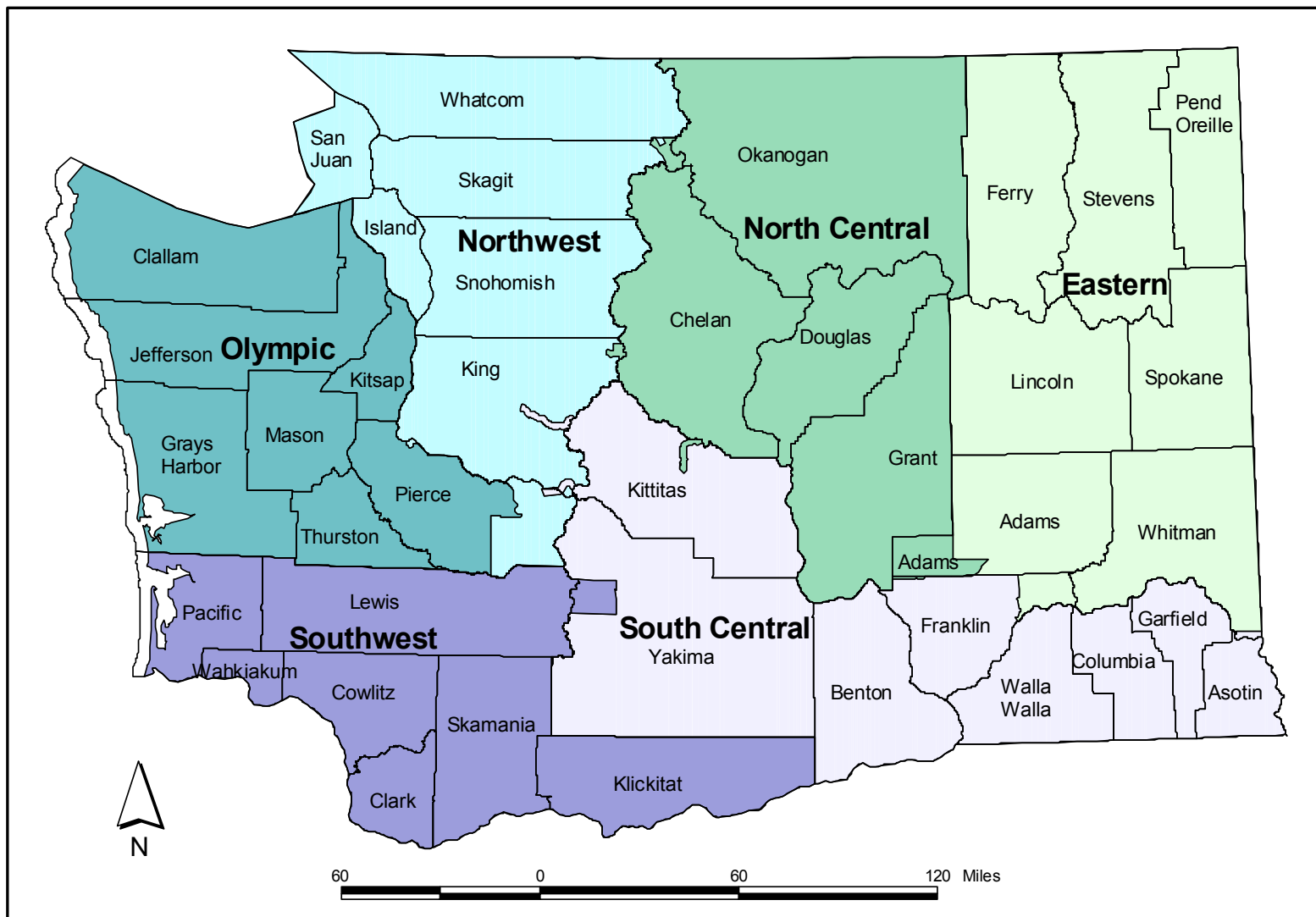


Figure 2. WSDOT Regions

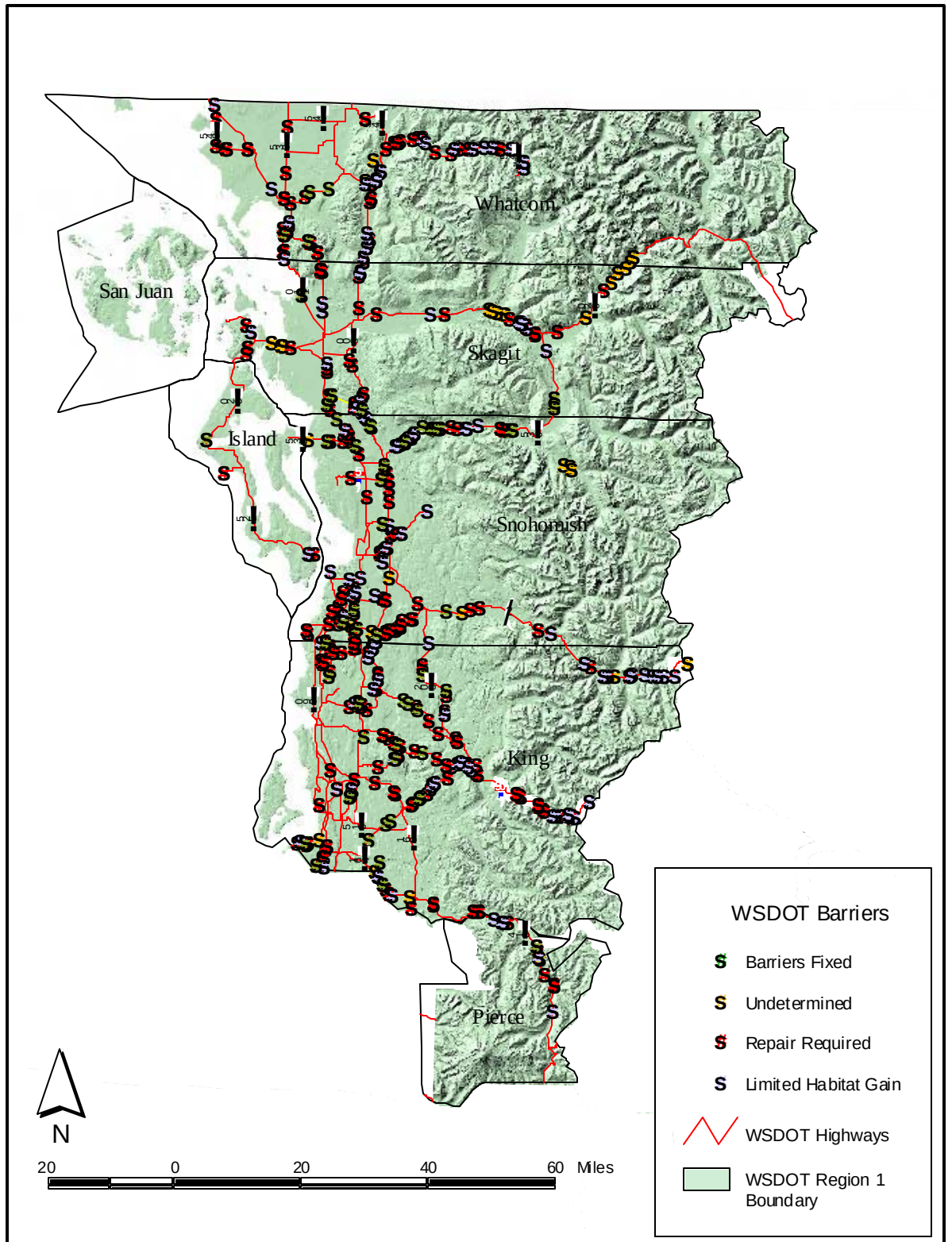


Figure 3. Northwest Region Fish Passage Barriers, February 2005.

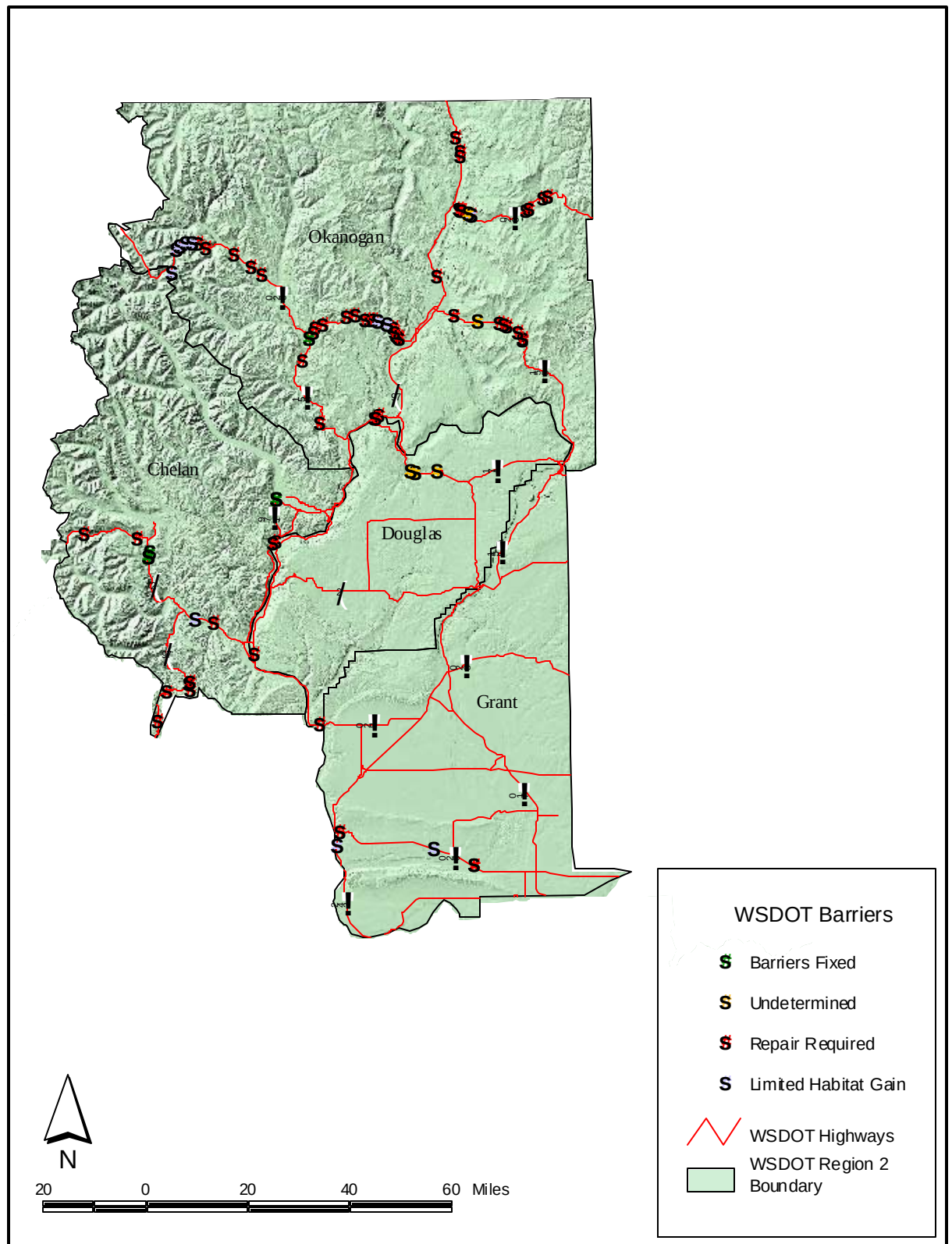


Figure 4. North Central Region Fish Passage Barriers, February, 2005.

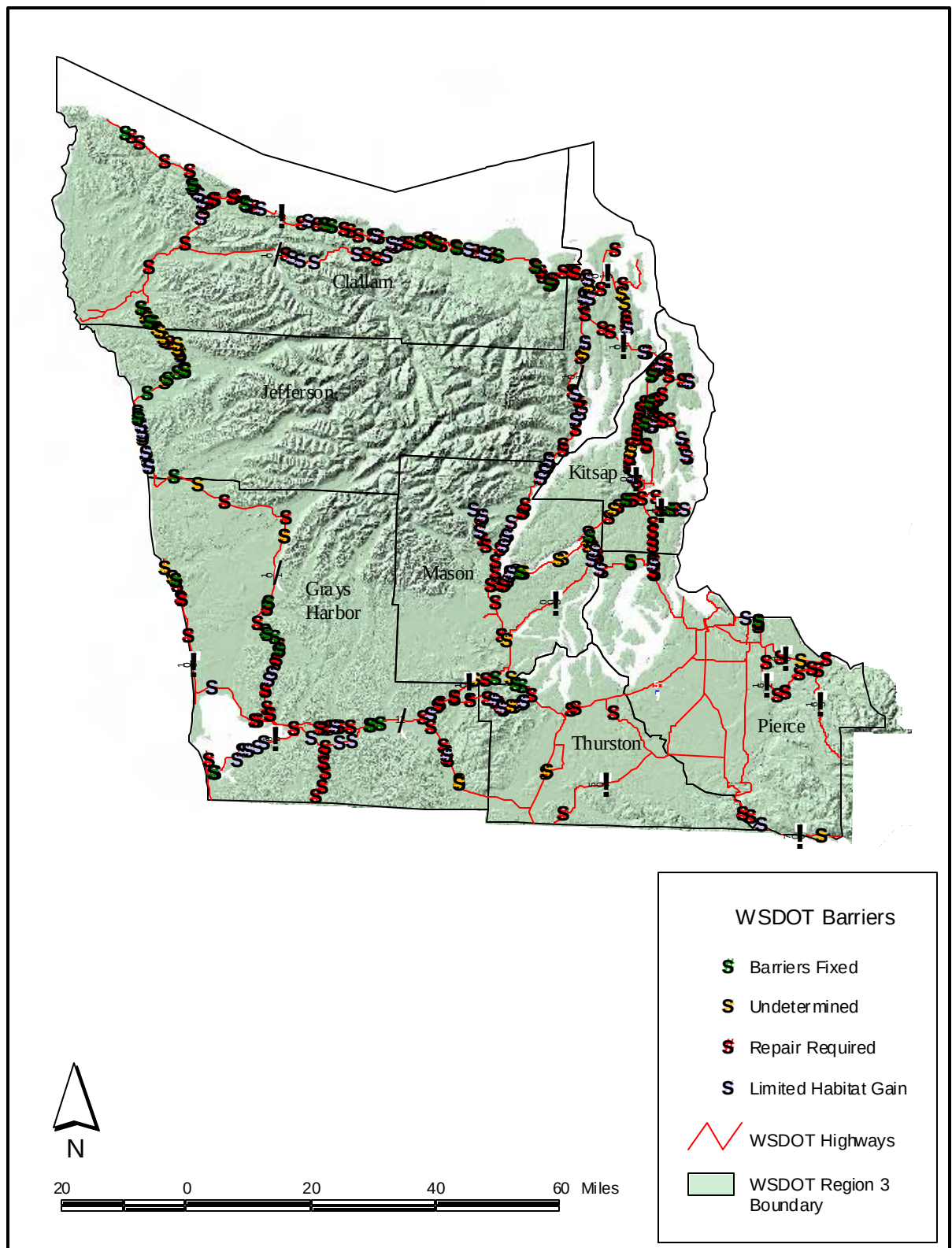


Figure 5. Olympic Region Fish Passage Barriers, February, 2005

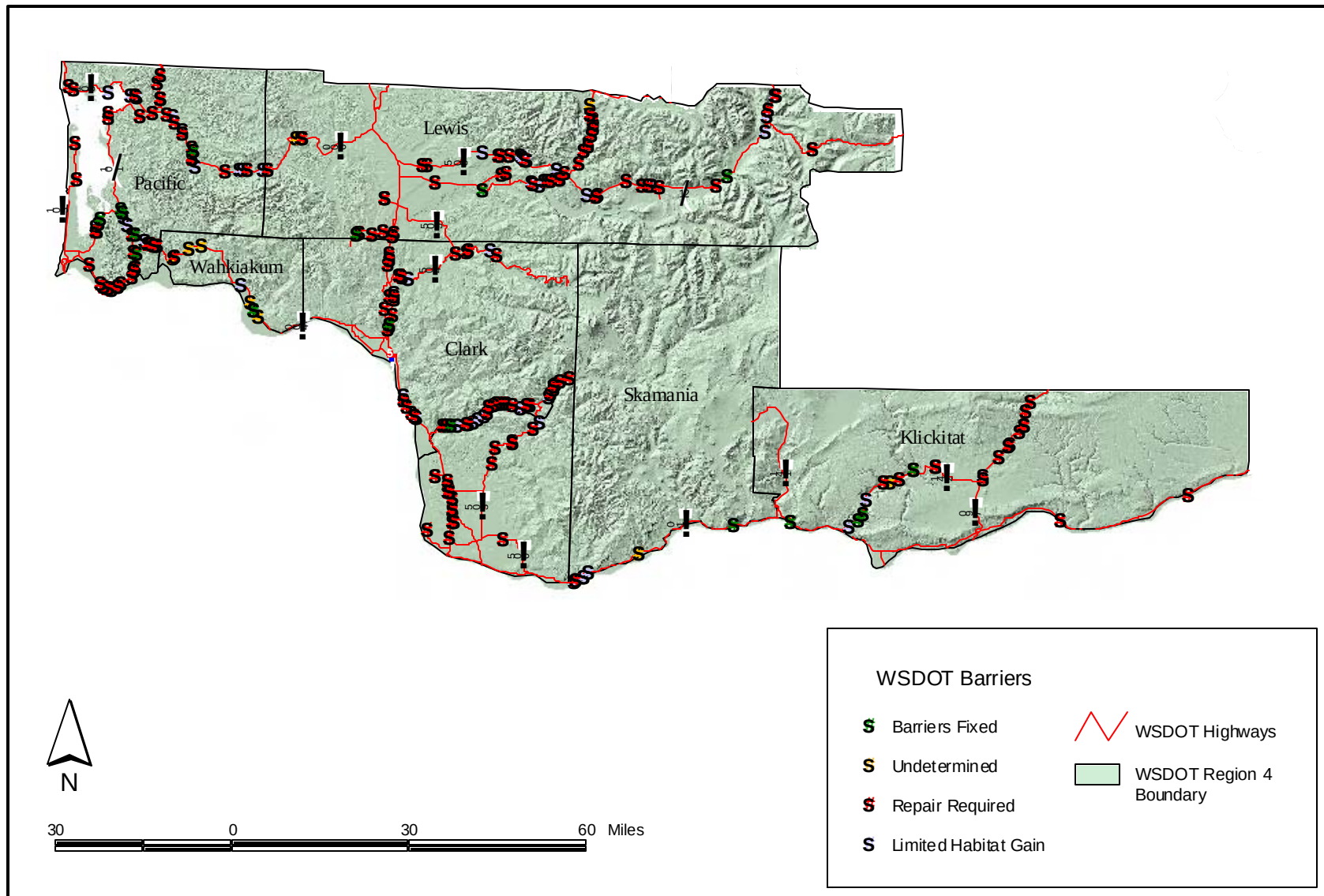


Figure 6. Southwest Region Fish Passage Barriers, February, 2005.

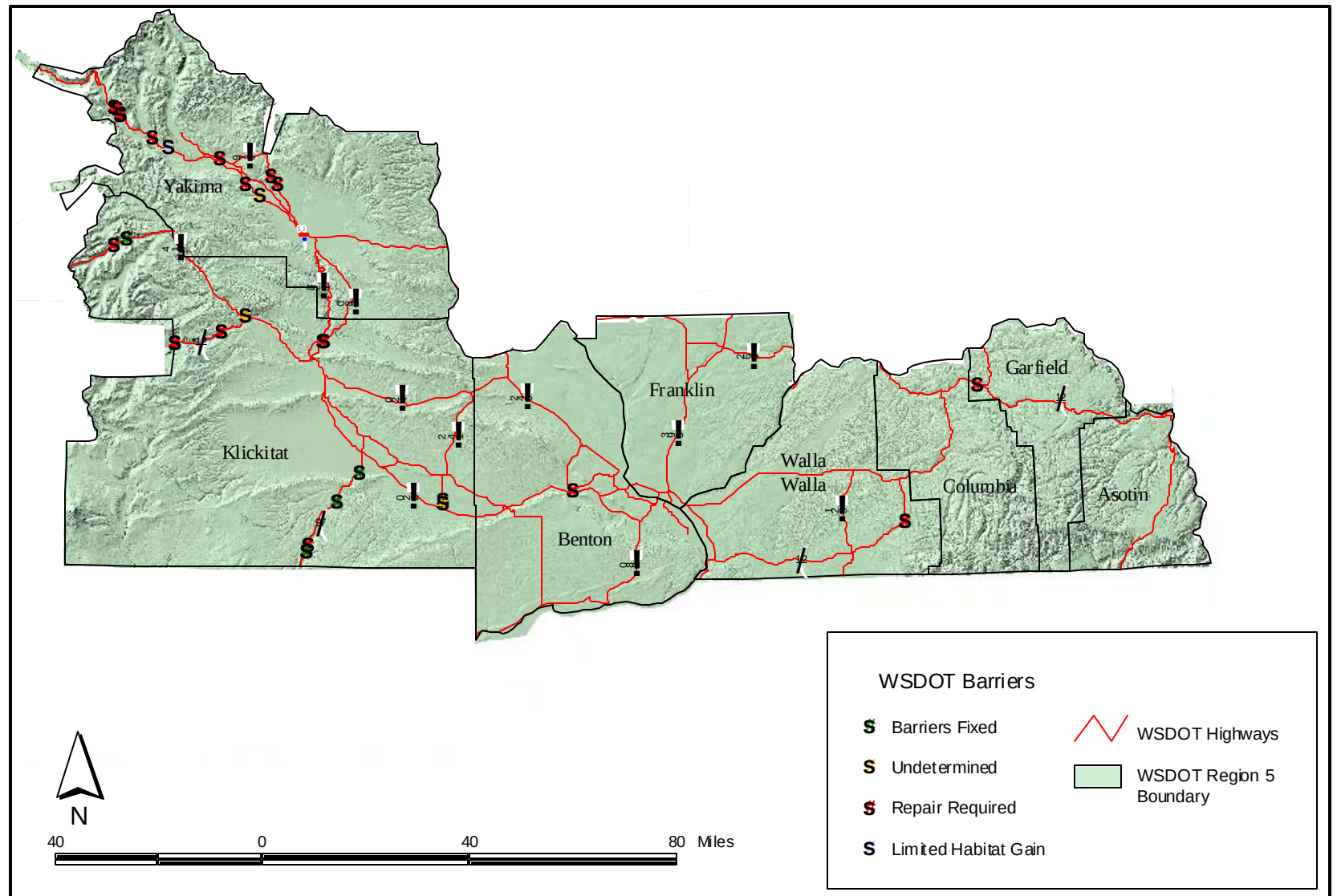


Figure 7. South Central Region Fish Passage Barriers, February 2005.

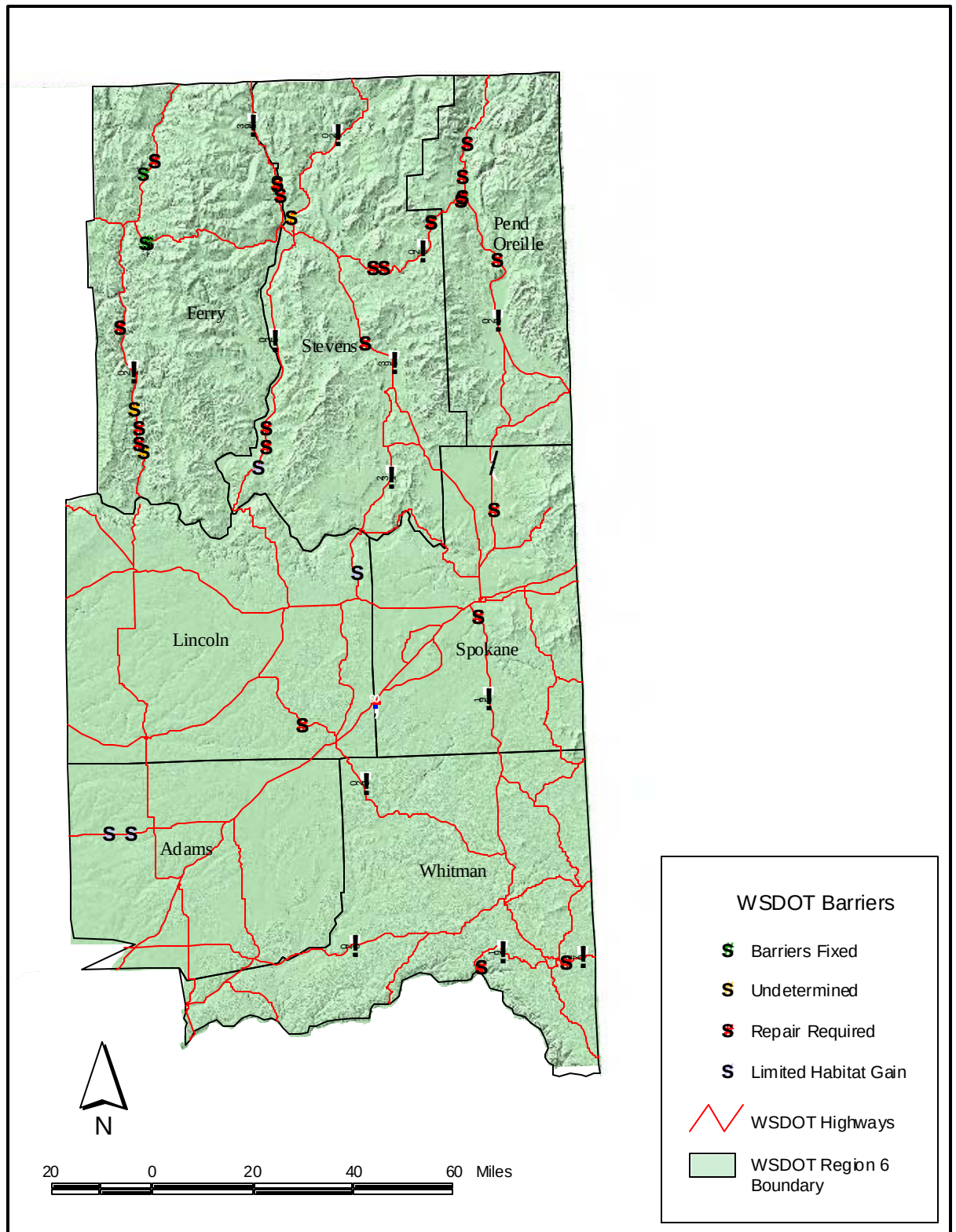


Figure 8. Eastern Region Fish Passage Barriers, February 2005.

WSDOT Fish Passage Barrier Correction Plan

WSDOT has been evaluating and correcting state highway fish passage barriers using a three pronged approach. First, it designates dedicated (I-4) funding to correct the highest priority fish passage barriers within the Environmental Retrofit Program's *Six Year Plan*. Second, as road projects are constructed, additional fish passage barriers are removed whenever a Hydraulic Project Approval (HPA) is required. Combining fish passage restoration with road project construction decreases costs by eliminating duplication in equipment and personnel mobilization. And third, some fish passage barriers are corrected as a result of routine maintenance on failing culverts.

This approach to salmonid habitat reclamation does not assume habitat will immediately be used by target salmonids. Although in some cases salmon will start utilizing stream reaches previously blocked by barrier culverts almost immediately, many brood years may be required before newly opened habitat cycles up to full production. Fish management decisions, such as supplementation or harvest adjustments, may be needed to jump-start the recolonization of newly accessible habitat. Additional factors, other than the loss of stream habitat caused by fish migration barriers, can affect fish production. Other problems threatening salmonid habitat include non-WSDOT fish passage barriers, storm water, pollution, agricultural diversions, hydropower, and general habitat degradation or loss.

Fish passage problems in Washington are shared among federal, state, tribal, county, city, and private owners. In Washington, WSDOT is responsible for an estimated 12,392 kilometers (7,700 miles) of highways, while counties, for example, are responsible for an estimated 86,904 kilometers (54,000 miles) and cities for 26,055 kilometers (16,190 miles) of roads (Washington State County Road Administration Board). The 882 WSDOT-owned fish barriers currently identified during the WSDOT Fish Passage Inventory as needing near-term correction block more than 1,873 linear kilometers (1,164 miles) of potential salmonid habitat. To realize potential habitat gain, other non-WSDOT barriers will also need to be prioritized and corrected.

Fish Passage Barrier Correction with Dedicated I-4 Funding

Each biennium dedicated funding within the WSDOT Environmental Retrofit Program (I-4) budget is set aside to provide for a sequential correction of high priority fish passage barriers identified during the WSDOT inventory. WSDOT refers to this I-4 funding program as Dedicated Funding. Projects are prioritized to provide the largest gains in habitat and the greatest production benefits for both anadromous and resident fish species. Among the many factors determining a project's priority are: the degree of passability improvement, species-specific production potential of the gained habitat, amount of habitat gained, benefits or drawbacks from increased mobility to species present, stock status of species present (WDFW Salmonid Stock Inventory, SaSI), and cost of the project. All the factors are consolidated in a numeric Priority Index (PI) model, which provides an objective relative priority ranking for each project and are contained within the WDFW Fish Passage and Diversion Screening Inventory Database.

Six Year Planning Document

At the request of WSDOT, WDFW has prepared a prioritized list of fish passage projects to be constructed and evaluated over the next three biennia. The Six Year Plan (included in Appendix 4) is the result of a process of project evaluation, scoping, development of conceptual designs, and

budgeting. The Six Year Plan is regularly updated as projects are identified, prioritized, scoped, and refined. Project scoping is a multi-phased process that is carried out by WDFW biologists, environmental engineers, and WSDOT regional staff.

Fish Passage Project Scoping Process

During monthly project scoping meetings, WDFW biologists present a summary of the key information collected in the inventory and habitat assessment effort for the highest priority fish barriers. The first step in the scoping process involves verification of inventory and assessment data and filling in any data gaps. Next, the WDFW biologists confirm completion of inventory work and the prioritization effort for each barrier culvert and verify that habitat conditions and species expected to benefit are correctly reflected in the PI for each barrier. In addition to the PI, other factors for fish passage project selection, such as additional human-made barriers in the watershed, project feasibility, likelihood for success, and project costs are also considered. All scoping information is summarized and a map is generated to show the location of additional human-made barriers located downstream and upstream of the WSDOT barrier. Once biological scoping is complete, projects that successfully meet the verification process will be recommended to be placed on the Six Year Plan. In some instances, projects are placed on hold until further evaluation work is completed.

For every WSDOT fish barrier recommended for the Six Year Plan, WDFW engineers conduct an engineering on-site field review with the WDFW scoping biologist and the appropriate WSDOT regional staff. They consider at least one conceptual design option for fish passage barrier correction and jointly generate an initial cost estimate for the project. Initial cost estimates are reported on the Six Year Plan and are intended to be used to request funding for further project development, engineering design, right-of way acquisition, and construction. Project costs shown on the Six Year Plan may increase or decrease during subsequent years due to consideration of different design options, increased cost of labor and materials, increased vehicle traffic, land acquisition, or any other unforeseen factors.

WSDOT fish passage barriers are placed on the Six Year Plan when both the biological and engineering scoping is completed by WDFW, and the appropriate WSDOT regional staff has concurred with the conceptual design option and the cost estimate.

WSDOT Fish Passage Barriers Corrected with Dedicated Funding

Since the inventory began, fish passage barriers have been corrected by WSDOT and WDFW's Technical Applications Division (formerly the Environmental Restoration Division), using dedicated funding, at 60 high priority sites (see Table 3). Fish passage barriers corrected in 2004 include culvert replacement at Jim Creek (Figures 9, 10, and 11), bridge construction at Jimmycomelately Creek (Figures 12, 13, and 14), fishway modification at Ennis Creek (Figures 15 and 16), and bridge construction at Tibbetts Creek (Figures 17, 18, and 19).

Fishways

In addition to culverts, WSDOT owns and maintains 143 fishways statewide. Regular inspections and maintenance are essential in the continued operation of fishways. Eighty-six fishways are currently

considered durable and efficient, providing 100% fish passage, and as such have been placed on a regular inspection schedule. Fishways, which require maintenance for fish passage, but are not fish passage barriers and do not require correction or repair are also regularly inspected. Currently, six fishways require maintenance for fish passage. Fishways that are barriers to fish passage and can not be improved by continued operation and maintenance are taken off the inspection schedule until corrections are made. Fifty-one such fishways await barrier resolution (see Appendix II). As new fishways are discovered through the inventory process, they need to be evaluated for fish passage and, if passable, placed on the inspection schedule. At present, six fishways need to be evaluated for durability and efficiency.

Table 3. Dedicated Funding Projects Completed through WSDOT/WDFW Barrier Removal Program.

Project Description	WRIA	Tributary To	PI	WSDOT Region	Highway	MP	Agency	Year	Cost (I-4 Funds)	Habitat Survey Length (m)	Habitat Gain (m ²)
Tumwater Cr Fishway	18.0256	Port Angeles Harbor		Olympic	US 101	246.40	WDFW	1991	\$18,356	1,440	6,158
Fisher Cr Fishway	03.0181	Carpenter Cr		Northwest	I-5	219.20	WDFW	1992	\$20,000	1,430	28,376
Evans Cr Fishway	08.0106	Bear Cr		Northwest	SR 202	11.96	WSDOT	1992	\$319,044	4,480	4,922
Parish Cr Fishway	15.0220	Gorst Cr		Olympic	SR 3	33.70	WDFW	1992	\$14,834	1,600	7,594
Green Cr Fishway Upgrade	24.0341	Willapa R		Southwest	SR 6	8.90	WSDOT	1992	\$8,000		10,134
Chuckanut Cr Fishway	01.0626	Chuckanut Bay	38.28	Northwest	SR 11	18.00	WDFW	1993	\$68,788	2,680	22,565
Unnamed Tributary Culvert Replacement	07.0864	Skykomish R	19.23	Northwest	US 2	18.00	WSDOT	1993	\$60,000	1,726	7,669
Squalicum Cr Fishway	01.0552	Bellingham Bay	38.09	Northwest	SR 542	3.50	WSDOT	1994	\$68,000	4,745	16,567
Bagley Cr Fishway	18.0183	Strait Of Juan De Fuca	48.12	Olympic	US 101	253.85	WDFW	1994	\$42,306	10,450	33,970
S Nemah R Fishway	24.0503	Willapa Bay	34.34	Southwest	US 101	29.80	WDFW	1994	\$34,986	4,362	17,857
Johnson Cr Fishway	17.0301	Port Williams	28.17	Olympic	US 101	266.50	WDFW	1995	\$121,945	1,754	7,208
Pussywillow Cr Culvert Replacement	10.0048	White R	15.48	Northwest	SR 164	8.30	WSDOT	1996	\$100,000	5,738	5,092
Grader Cr Fishway	20.0237	Bogachiel R	24.48	Olympic	US 101	189.40	WDFW	1996	\$183,000	4,484	25,894
Huelsdonk Cr Fishway	20.0437 D	Hoh R	24.69	Olympic	US 101	171.70	WDFW	1996	\$183,000	1,292	12,709
Harlow Cr Fishway	21.0134	Queets R	25.68	Olympic	US 101	146.85	WDFW	1996	\$96,000	5,525	33,156
Rasmussen Cr Bridge	19.0230	Strait of Juan de Fuca	15.42	Olympic	SR 112	4.00	WDFW	1996	\$603,000	1,325	6,023
Ashley Cr Weirs	08.0083	Little Bear Cr	14.24	Northwest	SR 9	1.18	WDFW	1997	\$24,264	1,800	4,210
Unnamed Tributary Fishway and Culvert Replacement	22.0052	Fairchild Cr	19.46	Olympic	US 101	104.90	WDFW	1997	\$207,206	5,462	16,164
Kinnman Cr Culvert Retrofit	15.0368	Hood Canal	28.95	Olympic	SR 3	57.10	WSDOT	1997	\$365,902	3,623	9,745
Fairchild Cr Fishway and Culvert Removal	22.0051	Humptulips R	20.30	Olympic	US 101	105.60	WDFW	1997	\$193,258	4,238	19,214
Church Cr Baffles and Fishway	05.0021	Church Cr	33.70	Northwest	I-5 (Old 99)	216.70	WDFW	1998	\$17,101	1,600	43,557
Big Cedar Cr Baffles	20.0576	Pacific Ocean	19.73	Olympic	US 101	162.15	WDFW	1998	\$122,998	2,351	11,036

Table 3. (cont.)

Project Description	WRIA	Tributary To	PI	WSDOT Region	Highway	MP	Agency	Year	Cost (I-4 Funds)	Habitat Survey Length (m)	Habitat Gain (m ²)
Steamboat Cr Fishway and Culvert Replacement	20.0574	Pacific Ocean	27.53	Olympic	US 101	162.60	WSDOT	1998	\$23,000	7,434	51,530
Unnamed Tributary Culvert Replacement	22.0059	SB Big Cr	20.62	Olympic	US 101	101.10	WDFW	1998	\$249,305	3,811	9,960
McDonald Cr Fishway	14.0023	Skookum Cr	23.21	Olympic	SR 108	8.90	WDFW	1998	\$260,997	1,274	2,301
Jewett Cr Culvert Replacement	29.0342	Columbia R	10.20	Southwest	SR 14	66.00	WSDOT	1998	\$413,000	210	807
First Cr Bridge	47.0096	Lake Chelan		North Central	SR 971	8.90	WSDOT	1999	\$265,000	200	4,200
First Cr Bridge	47.0096	Lake Chelan		North Central	SR 971	9.10	WSDOT	1999	\$265,000	200	4,000
Tibbetts Cr Fishway	08.0169	Lake Sammamish	23.16	Northwest	SR 900	19.50	WDFW	1999	\$147,000	671	2,077
Schoolyard Cr Fishway and Culvert Replacement	05.0145	Stillaguamish R	21.32	Northwest	SR 530	25.90	WDFW	1999	\$350,000	1,280	3,477
Unnamed Tributary Fishway ¹	21.0715	Pacific Ocean	15.49	Olympic	SR 109	36.40	WSDOT	1999	\$189,566	842	1,783
Birnie Cr Fishway	25.0281	Columbia R	30.28	Southwest	SR 4	35.60	WDFW	1999	\$67,570	3,924	35,766
Beaver Cr Culvert Replacement	48.0307	Methow R	37.85	North Central	SR 153	29.28	WSDOT	2000	\$554,000	96,354	165,674
Unnamed Tributary Baffles and Grade Controls	05.0065	Pilchuck Cr	42.03	Northwest	I-5	211.50	WDFW	2000	\$116,577	9,246	21,938
Valley Cr Baffles and Roughened Channel	18.0249	Port Angeles Harbor	33.07	Olympic	US 101	246.90	WDFW	2000	\$92,000	2,021	11,883
Unnamed Tributary Culvert Replacement	26.0429B	Stillwater Cr	16.62	Southwest	SR 506	2.33	WSDOT	2000	\$99,000	1,502	4,672
Kenyon Cr Fishway	27.0320	NF Lewis R	24.07	Southwest	SR 503	49.03	WDFW	2001	\$224,000	1,456	15,170
Birnie Cr Fishway	25.0281	Columbia R	28.98	Southwest	SR 409	3.85	WDFW	2001	\$322,000	3,924	35,766
Johnson Cr Bridge	24.0581	Naselle R	28.74	Southwest	SR 4	4.50	WSDOT	2001	\$269,000	3,854	5,037
Sweetwater Cr Culvert Removal	15.0504	Hood Canal	10.53	Olympic	SR 3	25.31	WSDOT	2001	\$261,000	1,673	2,340

¹ Fishway is now a 67% barrier to fish passage. The downstream rock control is no longer backwatering and the drop at the fish entrance weir exceeds WDFW criteria for fish passage.

Table 3. (cont.)

Project Description	WRIA	Tributary To	PI	WSDOT Region	Highway	MP	Agency	Year	Cost (I-4 Funds)	Habitat Survey Length (m)	Habitat Gain (m ²)
O'Brien Cr Bridge	52.0394A	O'Brien C	3.50	Eastern	SR 20	310.06	WSDOT	2001	\$906,000	1,4747	4,863
	52.0394A	O'Brien C	4.31	Eastern	SR 20	309.96	WSDOT	2001		1,689	4,588
	52.0394A	O'Brien C	6.29	Eastern	SR 20	309.31	WSDOT	2001		1,3410	49,935
Skinney Cr Culvert Removal	45.0701	Chiwaukum C	13.50	North Central	US 2	87.10	WSDOT	2001	\$1,441,000	3,061	5,782
	45.0701	Chiwaukum C	14.01	North Central	US 2	87.67	WSDOT	2001		3,543	6,693
	45.0701	Chiwaukum C	19.96	North Central	US 2	88.03	WSDOT	2001			18,500
Sweetwater Cr Culvert Removal	15.0504	Hood Canal	10.53	Olympic	SR 3	25.31	WSDOT	2001	\$261,000	1,673	2,340
Cement Cr Fishway	24.0598	Nasselle R	36.55	Southwest	SR 401	8.80	WDFW	2002	\$200,000	6,464	15,957
WF Hylebos Cr Fishway	10.0014	Hylebos Cr	37.46	Northwest	SR 99	6.86	WDFW	2002	\$164,000	3,364	19,503
Unnamed Tributary Fishway	03.0199	Bulson Cr	28.02	Northwest	SR 534	1.2	WDFW	2002	686,000	7,932	36,405
Coal Cr Log Controls Replacement	08.0268	Lake Washington	34.58	Northwest	I-405	10.20	WSDOT	2002	\$128,000	8,240	35,330
Fink Cr Culvert Replacement	05.0257	NF Stillaguamish R	23.98	Northwest	SR 530	44.00	WSDOT	2002	\$312,000	7,329	33,726
Moose Cr Culvert Replacement	05.0257A	NF Stillaguamish R	23.88	Northwest	SR 530	44.27	WSDOT	2002		6,681	31,076
Silver Cr Stream Simulation Culvert	26.0540	Mayfield Lk	33.83	Southwest	US 12	81.22	WSDOT	2003	\$527,000	6,788	42,143
Unnamed Tributary Fishway	22.0057	Big Cr	17.07	Olympic	US 101	103.65	WDFW	1997	\$96,175	3,434	11,009
Unnamed Tributary Fishway Tune up								2003	\$33,000	3,434	5,573
Fletcher Cr Fishway	20.0426	Hoh R	20.61	Olympic	US 101	167.42	WDFW	2003	\$30,000	2,189	13,076
Ennis Cr Fishway	18.0234	Straits of Juan de Fuca	31.33	Olympic	US 101	250.00	WDFW	2004	\$58,000	8,950	33,437
Jim Cr	19.0110	Straits of Juan de Fuca	28.50	Olympic	SR 112	32.02	WSDOT	2004	\$870,000	14,100	33,799
Tibbetts Cr	08.0169	Lk Sammamish	25.93	Northwest	I-90	15.48	WSDOT	2004	\$5,300,000	9,424	9,012
Jimmycomelately	17.0285	Sequim Bay	31.09	Olympic	US 101	270.98	WSDOT	2004	\$1,282,482	10,401	21,725
Total Estimated Expenditure:									\$19,040,660		
Estimated Linear Habitat Gain (m): Based on habitat survey length only. Actual amount of habitat gain may be greater, due to different habitat survey methods and criteria used.										336,610	
Estimated Area of Habitat Gain (m ²):											1,097,766

WSDOT Transportation Improvement Projects

Integration of fish passage repairs with road project construction is a cost-effective way to accelerate barrier correction and reduce equipment mobilization costs. WDFW and WSDOT integrate fish passage barrier correction into planned WSDOT transportation improvement projects whenever possible.

Transportation project reviews take place at least one year prior to the anticipated construction dates to accommodate WSDOT transportation project long-range budgeting and planning requirements. Every odd year, WDFW requests and receives a list of proposed transportation projects from each of the six WSDOT regions. Transportation projects reviewed include Mobility (I-1 subprogram) and Highway Safety (I-2 subprogram) of the Highway Improvement Program as well as Other Facilities projects (P-3 subprogram) of the Highway Preservation Program. All the fish passage barriers inventoried during the Safety and Mobility reviews should be considered for correction, including barriers with limited habitat gain that are not considered for correction with Dedicated Funding.

This report includes the results of transportation project reviews conducted by WDFW in 1998, 1999, 2000, 2001, and 2003. The next reviews will take place during the Spring of 2005.

During the summer and fall of 1998, 1999, 2000, 2001, and 2003, WDFW inventoried a total of 1,994.33 highway kilometers (1,239.22 miles) within Highway Safety and Mobility projects statewide and evaluated 551 fish-bearing crossings, assessing 174 as fish passage barriers requiring repair (Table 4). For detailed accounts of barriers identified during the 2003 Highway Safety and Mobility project reviews in each region, refer to Appendix 1 (Appendix 1 includes a comprehensive list of barriers identified during the ongoing WSDOT fish passage barrier inventory since 1992 up to February 2005, as well as barriers identified during transportation reviews). Additional data can be obtained by contacting WDFW Fish and Wildlife Biologist, Eva Wilder; e-mail: wildeelw@dfw.wa.gov; phone: (360) 902-2411.

Table 4. Summary of Proposed WSDOT Highway Safety and Mobility Projects – Fish Passage Inventory Efforts.

WSDOT Region	Total Distance Surveyed ¹ (miles)	Fish Crossings	Fish Barriers with Significant Habitat Gain ²
Northwest	274.92	183	63
North Central	215.33	53	12
Olympic	191.22	138	45
Southwest	129.88	94	32
South Central	349.45	69	15
Eastern	78.52	14	7
Total:	1239.32	551	174

1 On and off ramps were also evaluated, but are not included in the total distance surveyed

2 Represents fish passage barriers that are located within the proposed Safety and Mobility project vicinity.

Barrier Correction in the course of WSDOT Transportation Improvement and Road Construction Projects

Periodically, road culverts require maintenance, or fail completely and require replacement. Work within the ordinary high water mark of streams requires a Hydraulic Project Approval (HPA), which provides WDFW habitat biologists an opportunity to work with WSDOT engineers to correct fish passage deficiencies. In this process, the WDFW's Technical Applications Division (TAPPS) may be contacted to provide detailed stream surveys, identify fish passage barriers, or to provide other pertinent information. WDFW/TAPPS maintains a centralized, statewide, fish passage database, which includes the WSDOT fish passage inventory data. To facilitate planning efforts, WDFW reviews the milepost vicinities of upcoming safety and mobility projects following routine fish passage inventory procedures and makes recommendations on fish passage repairs to the appropriate WSDOT region.

It is important WSDOT notify WDFW/ TAPPS whenever a WSDOT fish passage barrier is scheduled for correction, or has been corrected during road construction or routine maintenance. WDFW/ TAPPS will schedule an inspection of all WSDOT fish barrier corrections and update the fish passage database to accurately reflect the status of corrected WSDOT fish passage barriers.

Eighty-two fish passage barriers were reported corrected by WSDOT during safety and mobility projects since 1982 (see Table 5). Road improvement projects in 2004, included culvert replacement at a crossing of Alderbrook Creek and SR 106 (See Figures 20, 21, and 22), culvert replacement at a crossing of Edison Slough and SR 11 (See Figures 23, 24, and 25), and a culvert retrofit at a crossing of Lakota Creek and SR 509 (See Figures 26, 27, 28, and 29).

Table 5. Fish Passage Projects Completed through WSDOT Transportation Project and Other Funding Sources.

WSDOT Region	SiteID	PI	Road	Milepost	Stream	Tributary to	WRIA	RM	Funding	Year Fixed	Fish Passage Satisfactory Yes/ No
Eastern	990350		SR 20	388.13	Renshaw Cr	Pend Oreille R	62.0310		TP	1997	No
Eastern	990351		SR 20	389.50	Renshaw Cr	Pend Oreille R	62.0310		TP	1997	No
Eastern	990881		SR 20	380.1	Unnamed	Lk Thomas	59		TP	2000	No
Eastern	992006	5.96	SR 21	172.17	Lambert Cr	Curlew Cr	60.0327		OM	2001	Yes
Northwest	993115	11.21	I-405	29.67	Martha Cr	Swamp Cr	08	0.17	TP	2002	Yes
Northwest	995411	9.24	I-5	246.75	Chuckanut Cr	Puget Sound	1.0626		TP		No
Northwest	996965		I-90	20.42	Unnamed	EF Issaquah Cr	8.0186		TP	1990	Unk
Northwest	990272	73.54	SR 104	29.65	McAleer Cr	Lk Washington	08.0049	3.10	TP	1995	Yes
Northwest	990136		SR 112	6.84	Edison Sl	Samish Bay	3.0001		TP	2004	Yes
Northwest	105 R042117a		SR 164	8.20	Unnamed	White R	10.0048	0.60	TP	2000	Yes
Northwest	991199		SR 167	23.65	NF Springbrook Cr	Springbrook Cr	09.0020		OTH	2003	Yes
Northwest	990064		SR 18	19.76	Carey Cr	Issaquah Cr	08.0218		TP	1996	Yes
Northwest	991519	16.25	SR 18	19.59	Unnamed	Carey Cr	08.0218A	0.35	TP	1996	Yes
Northwest	990390	22.76	SR 18	8.90	Soosette Cr	Soos Cr	09.0073	1.20	TP	1997	Yes
Northwest	990208		SR 18	12.70	Jenkins Cr	Soos Cr	09.0087		TP	2003	Yes
Northwest	990209		SR 18	13.80	Jenkins Cr	Soos Cr	09.0087		TP	2003	Yes
Northwest	995977		SR 20	25.77	Unnamed	Penn Cove	06.0003	0.01	TP	2000	Unk
Northwest	07.0383A 0.50		SR 202	13.80	Dry Cr	Patterson Cr	07.0383A	0.50	TP	1998	Yes
Northwest	08.0110 0.10		SR 202	11.10	Rutherford Cr	Evans Cr	08.0110	0.10	TP	2002	Yes
Northwest	101S-23		SR 203	7.83	Unnamed	Harris Cr	07.0285	0.53	TP	1998	Yes
Northwest	101S-27		SR 203	12.76	Deer Cr	Snoqualmie R	07		OTH	2003	Yes
Northwest	105 R071916a		SR 410	48.31	Boundary Cr	White R	10.0250	0.70	TP	2000	No
Northwest	105 S012018a		SR 509	10.71	Lacota Cr	Puget Sound	10.0386		TP	2004	Yes
Northwest	994239		SR 520 ROW	6.27	Yarrow Cr	Lk Washington	08.0252	0.92	TP	1998	Yes
Northwest	990262	13.29	SR 522	2.00	Maple Leaf Cr	Thorton Cr	08.0033	0.80	TP	2002	Yes
Northwest	08.0070A 0.01		SR 527	4.00	Sulphur Springs Cr	North Cr	08.0070A	0.01	TP	1995	Yes
Northwest	991189		SR 527	7.38	Unnamed	North Cr	08		TP	2003	Yes
Northwest	08.0077 0.20		SR 527	6.57	Penny Cr	North Cr	08.0077	0.20	OTH	1994	Yes
Northwest	990294		SR 528	2.47	Munson Cr	Allen Cr	07.0073	2.20	OTH	2000	No
Northwest	990644		SR 530	31.01	Unnamed	NF Stillaguamish R	05		TP	1995	No

Table 5.(cont.)

WSDOT Region	SiteID	PI	Road	Milepost	Stream	Tributary to	WRIA	RM	Funding	Year Fixed	Fish Passage Satisfactory Yes/ No
Northwest	991168		SR 530	31.90	Unnamed	Stillaguamish R	05		TP	1995	Yes
Northwest	990271		SR 530	29.60	Mc Govern Cr	NF Stillaguamish R	05.0168		TP	1996	Yes
Northwest	991162		SR 530	31.20	Unnamed	Stillaguamish R	05.0168X		TP	1996	Yes
Northwest	991164		SR 530	32.51	Unnamed	Stillaguamish R	5		TP	1996	No
Northwest	991154		SR 530	55.10	Unnamed	Sauk R	04.1062		TP	1996	Yes
Northwest	991153		SR 530	55.90	Unnamed	Skagit R	04.0707	0.21	TP	1996	Yes
Northwest	991155		SR 530	54.60	Unnamed	Sauk R	04.1064	0.30	TP	1997	Yes
Northwest	991059		SR 531	8.71	Unnamed	MF Quilceda Cr	07.0060		OTH	1996	No
Northwest	05.0018 2.00		SR 532	6.14	Church Cr	Stillaguamish R	05.0018	2.00	OM	1995	Yes
Northwest	01.0228 4.80		SR 542	6.55	Anderson Cr	Nooksack R	01.0228	4.80	OTH	2000	Yes
Northwest	990344		SR 9	28.38	Portage Cr	Stillaguamish R	05.0036		TP	2002	Yes
Northwest	LP23		SR 9	35.46	Unnamed	Unnamed	05.0080B	0.07	TP	2002	Yes
Northwest	LP28		SR 9	35.52	Unnamed	Unnamed	5	0.09	TP	2002	Yes
Northwest	990625		SR 9	38.57	Unnamed	Unnamed	05.0080H		TP	2002	Yes
Olympic	991295		SR 105	31.10	Unnamed	South Bay	22		OM	2000	Yes
Olympic	990910	20.16	SR 106	6.95	Dalby Cr	Hood Canal	14	0.04	OTH	2003	Yes
Olympic	115 MC176		SR 106	7.06	Alderbrook Cr	Hood Canal	14		OTH	2004	Yes
Olympic	990480	8.05	SR 112	49.50	Whiskey Cr	Strait Of Juan De Fuca	19.0020	1.50	TP	1998	No
Olympic	991729	7.50	SR 112	19.60	Unnamed	Clallam R	19		TP	2001	Yes
Olympic	991545	10.43	SR 112	19.90	Unnamed	Clallam R	19.0129A	0.00	TP	2001	Yes
Olympic	990144		SR 112	48.49	Field Cr	Strait of Juan de Fuca	19.0026	2.10	TP	2001	No
Olympic	996952		SR 160	3.80	Curley Cr	Sinclair Inlet	15		TP	1995	Unk
Olympic	105 R050320a		SR 167	0.16	Jovita Cr	Milwaukee Canal	10.0034		TP	2004?	No
Olympic	15.0051 0.20		SR 302	11.42	Little Minter Cr	Minter Cr	15.0051	0.20	OM	1982	Yes
Olympic	15.0051 0.10		SR 302	11.32	Little Minter Cr	Minter Cr	15.0051	0.10	OM	2001	Yes
Olympic	990121		SR 305	12.80	Dogfish Cr	Liberty Bay	15.0285		TP	1998	Yes
Olympic	15.0280 1.00		SR 308	1.15	Big Scandia Cr	Liberty Bay	15.0280	1.00	TP	2002	No
Olympic	14.0010 0.10		US 101	356.80	Countyline Cr	Schneider Cr	14.0010	0.10	OM	1985	Yes
Olympic	14.0009A 0.06		US 101	357.90	Holiday Valley Cr	Schneider Cr	14.0009A	0.06	OTH	1986	Yes
Olympic	18.0021 5.40		US 101	260.95	Matriotti Cr	Dungeness R	18.0021	5.40	TP	1989	No

Table 5. (cont.)

WSDOT Region	SiteID	PI	Road	Milepost	Stream	Tributary to	WRIA	RM	Funding	Year Fixed	Fish Passage Satisfactory Yes/ No
Olympic	991690		US 101	119.90	Unnamed	Stevens Cr	22		TP	1999	No
Olympic	990164		US 101	186.30	Fuhrman Cr	Bogachiel R	20.0237E		TP	1997	Yes
Olympic	990156		US 101	186.40	Frakker Cr	Bogachiel R	20.0237O		TP	1997	Yes
Olympic	990716		US 101	186.45	Unnamed	Frakker Cr	20.0237X		TP	1997	Yes
Olympic	991512		US 101	186.70	Forgotten Marsh	Fuhrman Cr	20.0237N		TP	1997	Yes
Olympic	990249	17.72	US 101	174.00	Lost Cr	Hoh R	20.0440		TP	1998	Yes
Olympic	991644		US 101	175.15	Unnamed	Old Joe Sl	20.0440B	0.20	OM	1998	No
Olympic	991532		US 12	13.80	Unnamed	Chehalis R	22.0354		TP	1998	Yes
Olympic	22.0349 0.70		US 12	12.36	Unnamed	Unnamed	22.0349	0.70	OTH	1994	Yes
Olympic	22.0351 0.10		US12 Brady Lp	12.48	Camp Cr	Metcalf Sl	22.0351	0.10	OTH	1993	Yes
South Central	990189	6.13	US 97	37.14	Highbridge Springs	Satus Cr	37		TP	1994	No
South Central	990440		SR 241	9.20	Unnamed	Sulphur Cr Wstwy	37		TP	2002	Yes
South Central	990409	5.41	SR 410	82.80	Miner Cr	American R	38.1027		TP	2002	Unk
South Central	990861		US 97	49.16	Unnamed	Satus Cr	37.0478		TP	2000	Unk
South Central	990436		US 97	57.20	Toppenish Cr	Yakima R	37.1178		TP	2000	Yes
Southwest	992272	12.05	I-5	42.40	Unnamed	Cowlitz R	26.0129	0.11	TP	1999	Yes
Southwest	992271		SR 142	3.65	Knight Cr	Klickitat R	30.0008	0.01	TP	2001	Yes
Southwest	992462		US 101	28.92	Roaring Cr Sl	Naselle R	24.0563		TP	1997	Yes
Southwest	991698	21.45	US 101	24.13	Unnamed	Willapa Bay	24.0673		OTH	1999	Yes
Southwest	990948		US 12	127.44	Dry Cr	Cowlitz R	26.1119		TP	1999	Yes
Southwest	990119		SR 14	55.80	Dog Cr	Columbia R	29.0130	0.00	TP	1998	Yes
Southwest	990116	7.55	SR 142	5.20	Dillacort Cr	Klickitat R	30.0009	0.00	TP	1998	Yes
Southwest	30.0068 0.40	32.35	SR 142	20.20	Bowman Cr	L Klickitat R	30.0068	0.40	TP	2006	No

Funding Codes:

OM - operational maintenance

TP - transportation project

OTH - other

Fish Passage Compliance Codes:

Yes - meets fish passage requirements

No - project does not meet current fish passage requirements

Unkn - fish passage barrier status undetermined

Evaluation of Dedicated Funding Projects, Before and After Barrier Removal

The goal of the evaluation program is to accomplish the following:

- Determine fish utilization upstream and downstream of sites prior to and one year after project construction,
- Evaluate new fish passage projects for design, durability, and efficiency for one year following construction, and
- Provide long-term effectiveness monitoring of selected sites to evaluate various design options and the changes in fish utilization over an extended period of time.

Adult spawner surveys are a direct way to determine target species presence or absence above and below a newly completed fish passage installation, or to evaluate a pre-project barrier. Three such surveys are conducted per year for each project. The surveys are conducted 500 meters below and above the project, or to the confluence with a larger body of water downstream, or to a natural barrier upstream. If the reaches 500 upstream or downstream of the fish passage project are reaches where fish are not likely to be holding or spawning, the team relocates the survey accordingly.

WDFW evaluates dedicated funding projects to ensure they function properly. All projects completed by WDFW are evaluated for one year following construction. During this period, any design deficiencies are noted and corrected whenever possible. After building a project using dedicated I-4 funding, this one-year tune-up period allows for observation of conditions during high flow months when fish are migrating. An on-site review consists of physical assessment by the WDFW project team to confirm the new fish passage installation is durable and efficient. Project deficiencies are identified and corrected during this period beginning after project construction and ending on December 31 the year following.

If resources allow, adult surveys may be conducted in subsequent years if salmonids are not detected upstream of the fish passage project in the first year after construction.

On a select number of sites, representing various design options, adult spawner surveys and fish passage facility assessments will occur over an extended period. This will provide insight into the long-term adult utilization changes and the durability and efficiency of various design options.

Appendix V shows the results of spawner surveys conducted for dedicated funding projects that will be built in the near future and for projects built in 2003 and 2004. Two out of 3 projects completed in 2004 had adult spawners upstream of the fish passage project. One dead coho was observed upstream of the fishway at Ennis Creek, which was upgraded in 2004. Two spawning coho were observed upstream of the new arch culvert at Jim Creek. This is the second year that no fish were observed upstream of Fletcher Creek, a culvert retrofitted in 2003. Spawning adult coho salmon were observed for the second consecutive year upstream of the “stream simulation” culvert at Silver Creek, a tributary to Mayfield Lake, constructed in 2003.

Jim Creek

Before Construction

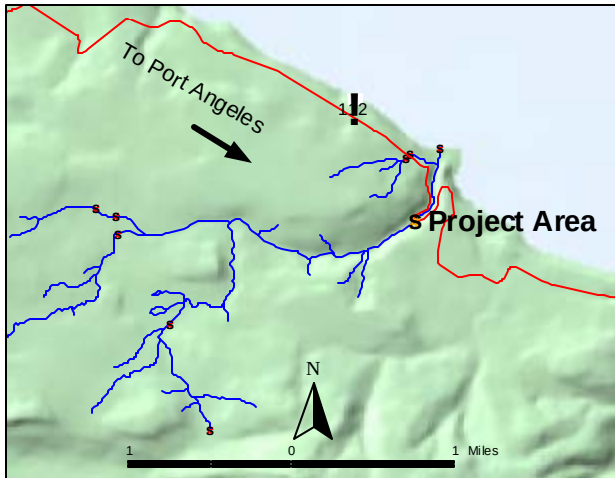


Figure 9. Jim Creek - Project location: SR 112 at milepost 32.02.



Figure 10. A structural steel plate arch culvert, 4.6 m wide, equipped with 13 concrete weirs and three rock controls downstream of the culvert was identified as a barrier due to excessive hydraulic drop of 0.48 m at one of the weirs.

After Construction



Figure 11. A large, 8.5 m wide and 44 m long bottomless precast concrete arch culvert replaced the old steel pipe. The construction of the culvert including excavation of 8 m of road fill cost \$870,000. The culvert bottom simulates the natural conditions of the creek bed. The new culvert opened 11,500 m of stream habitat for chum and coho salmon, steelhead, resident and searun cutthroat trout. Two privately owned barriers exist upstream of the WSDOT crossing, blocking access to 2,600 m of additional habitat. One privately owned partial barrier remains downstream, at the mouth of Jim Creek.

Jimmycomelately Creek

Before Construction

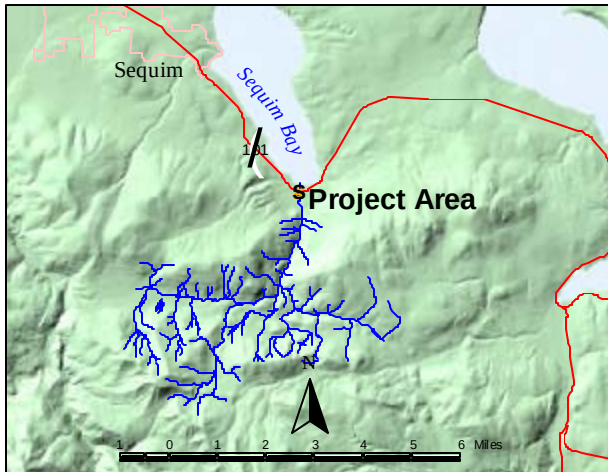


Figure 12. Jimmycomelately Creek - Project location: US 101 at milepost 270.98.



Figure 13. A 2.44 m wide concrete double box culvert, equipped with steel baffles was not providing adequate fish passage due to an excessive water velocity inside the culvert. In addition, the culverts needed frequent maintenance as a result of aggradation and debris accumulation, especially during the threatened summer chum run.

After Construction

Figure 14. In 2004, the old double box culvert was replaced with a new, 30 m wide bridge. Construction of the new bridge marked the culmination point of a multi-entity effort involving the construction of a new channel and extensive habitat restoration upstream and downstream of the culvert. The \$1.3 million project opened 10,000 m of habitat to chum and coho salmon, steelhead, searun and resident cutthroat trout. No known barriers exist downstream or upstream of the new bridge.



Ennis Creek

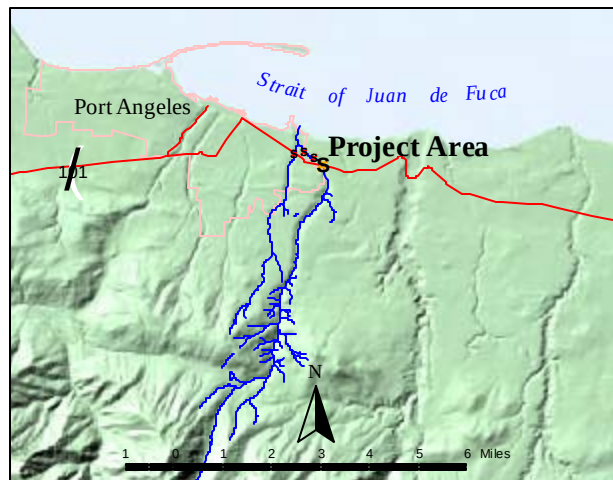


Figure 15. Ennis Creek - Project location: US 101 at mile-post 250.00.

After Construction



Figure 16. A single, 3 m wide concrete box culvert equipped with fifty-three sets of baffles and a four step weir-pool fishway downstream of the culvert provided fish passage only at a narrow range of flows. Accumulated debris and sediments must be removed from the fishway on an annual basis. In 2004 WSDOT contracted with WDFW to provide improvements to the Ennis Creek fishway. Improvements included raising the center wall of the fishway, removal of a few baffles, and rearranging

the stop-log system in the culvert to force more flow through the fishway. The \$58,000 project was intended as an interim upgrade, pending a permanent solution. Nine thousand meters of potential habitat for coho salmon, steelhead, searun cutthroat, resident, and bull trout exists upstream of this fishway. One coho salmon was observed upstream of the fishway during a 2004 post-project spawner survey. No known barriers exist upstream of the Ennis Creek fishway. Downstream of the fishway, one culvert located on Ennis Creek Road is a partial barrier to fish passage due to a slope of 1.7 %

Tibbetts Creek

Before Construction

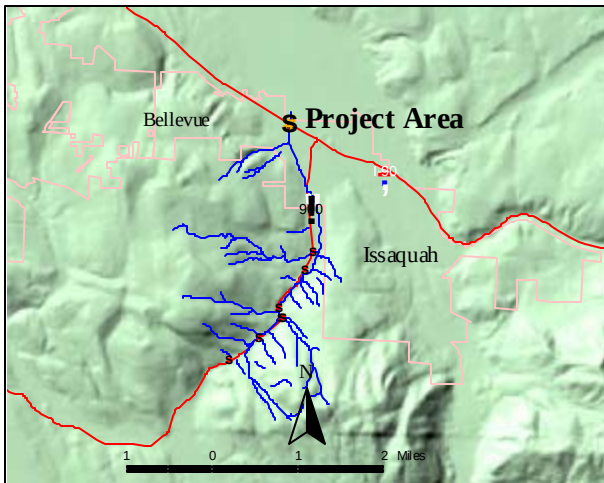


Figure 17. Tibbetts Creek - Project location: I-90 at milepost 15.48.



Figure 18. Three round, 1.22 m wide steel culverts were considered barriers due to a slope of 1.05 %.

After Construction



Figure 19. A new 24 m wide and 15 m long bridge was constructed in 2004, during a road improvement project. The construction cost of the Tibbetts Creek bridge was \$4.3 million and the design cost \$ 1 million. Coho salmon are seen spawning under the newly constructed bridge. Tibbetts Creek offers 9,400 m of potential habitat for coho and sockeye salmon, steelhead and resident trout. No known fish passage barriers exist downstream, however, 5 fish passage barriers including 4 WSDOT barriers located on SR 900 were identified upstream of the new bridge.

Alderbrook Creek

Before Construction



Figure 20. Alderbrook Creek - Project location: SR 106 at milepost 4.06.



Figure 21. A round, 0.76 m wide concrete culvert was undersized.

After Construction



Figure 22. A 3.5 m wide, structural plate, arch culvert was constructed in 2004 by the Hood Canal Salmon Enhancement Group and a private developer. The downstream and upstream invert have been countersunk 50% below the streambed. The new culvert improved fish access to an estimated 1,000 m of habitat upstream for searun and resident cutthroat trout. At least one, privately owned barrier culvert exists downstream of this culvert. There are no known fish passage barriers upstream.

Edison Slough

Before Construction

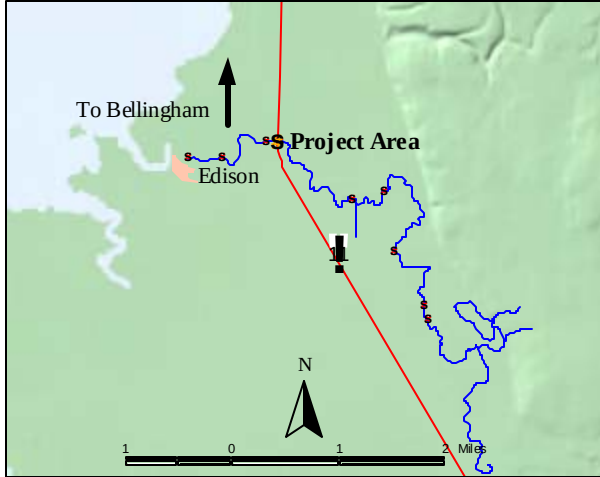


Figure 23. Edison Slough - Project location: SR 11 at milepost 6.84.



Figure 24. The original precast concrete, 1.52 m wide single box culvert was undersized.

After Construction



Figure 25. In 2004 WSDOT addressed road maintenance and fish passage issues by installing a new 4.4 m wide concrete box culvert. The \$192,000 project improved fish access to 13,700 m of the potential habitat upstream for chum and coho salmon, steelhead, searun and resident cutthroat trout. Five culverts identified upstream need further barrier status assessment. There are at least two additional barriers downstream of the new WSDOT crossing.

Lakota Creek

Before Construction

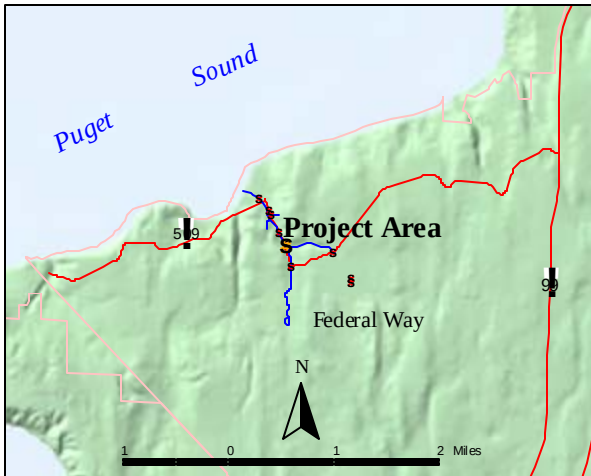


Figure 26. Lakota Creek - Project location: SR 509 at milepost 10.71.



Figure 27. A 3 m wide structural plate steel arch culvert was equipped with steel baffles. The small baffles were not effective at improving passability throughout the 4% slope culvert.

After Construction



Figure 28. Downstream end of the culvert. Natural streambed material successfully aids fish passage by increasing roughness and thus lowering water velocity inside the culvert.

Figure 29. Upstream end of the culvert. Large rocks positioned inside the culvert effectively retain natural streambed material.



Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
WSDOT District 1 - Northwest															
994704	DOT maint. yard		Unnamed	Yarrow Cr	08	Culvert	33	RR	6.58	SQSH	CST	1.1	0.91	0.91	132.00
994406	I-405	3.06	Unnamed	Cedar R	08	Culvert	0	RR	4.56	RND	OTH	1.1	1.30	1.30	140.87
992385	I-405	15.09	Yarrow Cr	Lk Washington	08.0252	Culvert	0	RR	28.47	RND	OTH	1.1	0.75	0.75	204.80
08.0070 A 0.25	I-405	26.46	Perry Cr	North Cr	08.0070 A	Fishway	67	RR	11.22						
993109	I-405	26.87	Unnamed	North Cr	08	Culvert	0	RR	9.33	RND	CST	1.1	1.05	1.05	
08.0059 7.00	I-405	29.75	Swamp Cr	Sammamish R	08.0059	Fishway	67	RR	61.62						
993898	I-405 ROW	29.67	Martha Cr	Swamp Cr	08	Culvert	67	RR	12.36	RND	PCC	1.1	0.91	0.91	9.92
995292	I-5	141.49	Unnamed	EF Hylebos Cr	10.0016	Culvert	33	RR	10.51	RND	PCC	1.1	1.22	1.22	81.12
992364	I-5	143.60	Unnamed	EF Hylebos Cr	10.0013	Culvert	0	RR	10.79	RND	PCC	1.1	0.91	0.91	745.00
996029	I-5	153.31	Unnamed	Green R	09.0036	Culvert	0	LG		RND	SPS	1.1	1.60	1.60	200.00
995976	I-5	153.45	Unnamed	Green R	09.0033	Culvert	0	RR		RND	SPS	1.1	1.60	1.60	207.70
994562	I-5	174.71	Thornton Cr	Lk Washington	08.0030	Culvert	33	RR	18.09	RND	PCC	1.2	1.75	1.75	465.00
993090	I-5	182.73	Swamp Cr	Sammamish R	08.0059	Culvert	67	RR	58.42	RND	CST	1.2	1.74	1.74	165.03
996229	I-5	183.33	Unnamed	Swamp Cr	08	Culvert	0			RND	PCC	1.1	0.30	0.30	144.00
102 N218	I-5	186.93	Unnamed	North Cr	08.0070	Culvert	33	LG		RND	PCC	1.1	0.75	0.75	
993091	I-5	187.64	Unnamed	Silver Lk	08.0000	Culvert	33	LG		RND	PCC	1.1	0.91	0.91	25.00
995262	I-5	189.90	Unnamed	Wood Cr	07	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	324.26
995284	I-5	203.22	Unnamed	WF Quilceda Cr	07	Culvert	67	RR		RND	CST	1.1	0.76	0.76	85.56
992181	I-5	213.27	Unnamed	Unnamed	05.0065B	Culvert	0	RR	7.94	SQSH	CST	1.1	0.45	0.70	36.74
992182	I-5	213.27	Unnamed	Unnamed	05.0065C	Culvert	0	RR	12.24	SQSH	CST	1.1	0.45	0.70	37.21
991979	I-5	213.29	Unnamed	Unnamed	05.0065C	Culvert	0	RR	12.24	RND	CST	1.1	0.61	0.61	62.00
992175	I-5	213.66	Unnamed	Pilchuck Cr	05.0065	Culvert	33	RR	6.02	RND	PCC	1.1	0.76	0.76	36.04
LP66	I-5	213.86	Unnamed	Unnamed	05	Culvert	33	RR		RND	CST	1.1	0.48	0.48	11.35
996077	I-5	214.38	Freedom Cr	Church Cr	05.0185	Culvert	0	RR		RND	OTH	1.1	0.61	0.61	115.05
996074	I-5	214.65	Unnamed	Freedom Cr	05	Culvert	33	LG		RND	CAL	1.1	0.61	0.61	44.70
996071	I-5	214.73	Unnamed	Freedom Cr	05	Culvert	33	RR		RND	CAL	1.1	0.61	0.61	74.67
996073	I-5	214.74	Unnamed	Freedom Cr	05	Culvert	33	RR		RND	CST	1.1	0.76	0.76	47.90
03.0181 0.50	I-5	219.41	Fisher Cr	Carpenter Cr	03.0181	Fishway	67	RR		RND	CST	1.1	2.44	2.44	127.41
991725	I-5	224.62	Maddox Cr	SF Skagit R	03.2966	Culvert	33	RR	13.60	RND	PCC	1.1	1.52	1.52	76.81
CR126	I-5	225.98	Martha Washington Cr	Maddox Cr	03.2970	Culvert	67	LG		RND	SST	1.1	0.70	0.70	31.66
995228	I-5	235.65	Unnamed	Samish R	03	Culvert	0	LG		RND	CST	1.1	0.91	0.91	122.00
995239	I-5	241.03	Unnamed	Friday Cr	03	Dam/ Other	0	RR					2.20	Full	12.60
FR73	I-5	243.91	Unnamed	Samish Lk	03	Culvert	0	RR		RND	CST	1.1	1.37	1.37	31.20
990025	I-5	244.20	Barnes Cr	Samish Lk	03.0036	Fishway	33								
FR75	I-5	245.76	Unnamed	Lake Cr	03.0042	Culvert	0	RR		RND	SPS	1.2	1.83	1.83	68.93
995411	I-5	246.75	Chuckanut Cr	Puget Sound	01.0626	Fishway	0	RR	9.24	RND	OTH	1.2	1.61	1.42	106.36
994233	I-5	250.55	Padden Cr	Bellingham Bay	01.0622	Culvert	0	RR	31.29	BOX	CPC	1.1	1.55	1.52	131.46
995699	I-5	251.36	Unnamed	Connelly Cr	01	Culvert	0	UD		RND	PCC	1.1	1.09	1.09	53.41

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991036	I-5	255.15	Squalicum Cr	Bellingham Bay	01.0552	Culvert	67	RR		RND	CST	1.2	8.00	8.00	68.58
990022	I-5	256.28	Baker Cr	Squalicum Cr	01.0553	Fishway	33		28.66						
995703	I-5	259.08	Unnamed	Unnamed	01.0148	Culvert	33	LG		RND	OTH	1.1	0.46	0.46	91.32
995255	I-5	264.16	Unnamed	Lake Cr	03.0043	Culvert	0	RR		BOX	CPC	1.1	1.22	1.80	62.55
995727	I-5	275.53	Unnamed	Cain Cr	01	Culvert	67	LG		RND	PCC	1.1	0.76	0.76	46.23
102 M048	I-5 Service Rd	177.85	Unnamed	McAleer Cr	08.0049	Culvert	33	RR	7.84	RND	CAL	1.1	0.95	0.95	50.00
995293	I-5 Ext 142 SB	142.15	Unnamed	EF Hylebos Cr	10.0016	Culvert	33	RR	7.00	RND	PCC	1.1	0.76	0.76	78.12
995299	I-5 Ext 143 NB	143.00	Unnamed	Hylebos Cr	10.0013	Culvert	67	RR	8.58	RND	PCC	1.1	0.76	0.76	205.02
995300	I-5 Ext 143 NB	143.00	Unnamed	Hylebos Cr	10.0013	Culvert	33	RR	8.58	RND	OTH	1.1	0.76	0.76	65.74
996076	I-5 Ext 210 NB	210.01	Unnamed	Stillaguamish R	05	Culvert	0	RR		RND	PCC	1.1	1.22	1.22	174.50
995242	I-5 Ext 218 NB	218.00	Unnamed	Unnamed	03.0184	Culvert	33	RR		RND	OTH	1.1	1.07	1.07	182.95
995245	I-5 Ext 240 NB	240.00	Unnamed	Friday Cr	03	Culvert	0	RR		RND	OTH	1.1	0.76	0.76	67.35
995246	I-5 Ext 240 NB	240.00	Unnamed	Friday Cr	03	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	30.49
995236	I-5 Ext 240 SB	240.00	Unnamed	Friday Cr	03	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	16.84
995240	I-5 Ext 240 SB	240.00	Unnamed	Friday Cr	03	Culvert	0	RR		RND	CST	1.1	1.07	1.07	43.11
995259	I-5 Ext 240 SB	240.00	Unnamed	Friday Cr	03	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	47.35
995247	I-5 Ext 246 NB	246.00	Unnamed	Unnamed to Lake Cr	03	Culvert	33	LG		RND	PCC	1.1	0.76	0.76	21.52
995248	I-5 Ext 246 NB	246.00	Unnamed	Unnamed to Lake Cr	03	Culvert	67	LG		RND	PCC	1.1	0.76	0.76	29.55
995233	I-5 Median	240.95	Unnamed	Friday Cr	03	Culvert	0	RR		RND	CST	1.1	0.61	0.61	12.49
995227	I-5 NB	234.65	Unnamed	Samish R	03	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	41.82
995232	I-5 NB	240.95	Unnamed	Friday Cr	03	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	21.33
995250	I-5 NB	243.96	Unnamed	Samish Lk	03	Culvert	0	RR		RND	CST	1.1	1.45	1.45	59.25
995705	I-5 NB ext 252	0.19	Unnamed	Connelly Cr	01	Culvert	0	LG		RND	OTH	1.1	0.61	0.61	97.40
992978	I-5 NB Ext 256	0.01	Baker Cr	Squalicum Cr	01.0553	Fishway	67	RR							
992003	I-5 NB on ramp	256.00	Baker Cr	Squalicum Cr	01.0553	Culvert	67	RR	25.69	SQSH	CST	1.1	2.01	2.87	28.25
995295	I-5 NB ROW	141.17	Unnamed	EF Hylebos Cr	10.0016	Culvert	67	RR	9.20	RND	PCC	1.1	0.61	0.61	16.48
995297	I-5 Ext 142 SB	142.00	Unnamed	EF Hylebos Cr	10.0016	Culvert	0	RR	10.55	RND	PCC	1.1	0.76	0.76	145.63
994561	I-5 ROW	174.85	Thornton Cr	Lk Washington	08.0030	Dam	0	RR	23.76				1.22	Full	9.40
995234	I-5 SB	240.95	Unnamed	Friday Cr	03	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	20.82
995238	I-5 SB	241.03	Unnamed	Friday Cr	03	Culvert	33	RR		RND	PCC	1.1	1.07	1.07	31.92
994501	I-5 SB	244.20	Barnes Cr	Samish Lk	03.0036	Culvert	33	RR	10.01	RND	CST	1.1	1.80	1.80	23.01
995256	I-5 SB Ext 246	0.19	Unnamed	Unnamed	03	Culvert	0	RR		BOX	CPC	1.1	1.21	2.46	48.77
995235	I-5 SB ROW	240.95	Unnamed	Friday Cr	03	Culvert	0	RR		RND	CST	1.1	0.61	0.61	49.78
CR122	I-5/Henson Rd	225.24	Martha Washington Cr	Maddox Cr	03.2970	Culvert	33	RR	9.82	RND	CST	1.1	0.91	0.91	124.00
996479	I-90	12.93	Unnamed	Lk Sammamish	08	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	
996478	I-90	12.75	Unnamed	Lk Sammamish	08	Culvert	0	UD		RND	CST	1.1	1.07	1.07	
996480	I-90	13.01	Unnamed	Lk Sammamish	08	Culvert	0	UD		RND	PCC	1.1	0.76	0.76	89.78
992798	I-90	13.83	Lewis Cr	Lk Sammamish	08.0162	Culvert	0	RR	30.43	OTH	PCC	1.1	1.52	1.52	313.34
994415	I-90	14.71	Unnamed	Lk Sammamish	08	Culvert	0	RR		RND	OTH	1.1	1.07	1.07	153.00

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
996472	I-90	15.92	Unnamed	Unnamed	08	Culvert	67	RR		RND	PCC	1.3	1.07	1.07	84.05
996475	I-90	17.00	NF Issaquah Cr	Issaquah Cr	08.0181	Culvert	33	UD		RND	CST	1.1	0.91	0.91	37.70
08.0183 1.60	I-90	18.83	EF Issaquah Cr	Issaquah Cr	08.0183	Fishway	33	RR							
994410	I-90	23.13	Soderman Cr	Raging R	07.0390	Culvert	33	RR	13.82	RND	CST	1.1	2.13	2.13	134.48
994864	I-90	26.90	Unnamed	Good Cr	07	Culvert	0	LG		RND	CST	1.1	0.91	0.91	159.98
994865	I-90	26.99	Good Cr	SF Snoqualmie R	07.0456	Culvert	0	LG		RND	OTH	1.1	1.45	1.45	
994866	I-90	28.32	Unnamed	Kimball Cr	07	Culvert	0	RR	1.80	RND	PCC	1.1	0.76	0.76	125.00
994937	I-90	28.85	Unnamed	Unnamed	07	Culvert	0	LG		RND	CST	1.1	0.61	0.61	97.71
994929	I-90	29.74	Unnamed	Kimball Cr	07.0454	Culvert	0	LG		RND	CST	1.1	0.61	0.61	100.80
994877	I-90	30.45	Unnamed	SF Snoqualmie R	07.0469C	Culvert	0	RR	3.17	RND	CST	1.1	1.68	1.68	176.81
994882	I-90	38.19	Unnamed	SF Snoqualmie R	07	Culvert	0	RR	2.07	RND	CST	1.1	0.91	0.91	136.06
990575	I-90	38.67	Unnamed	SF Snoqualmie R	07.0492	Culvert	33	RR	3.11	ELL	SPS	1.1	2.28	2.10	172.37
990072	I-90	38.83	Unnamed	SF Snoqualmie R	07.0493	Culvert	0	RR	2.98	RND	SPS	1.1	1.52	1.52	172.37
990265	I-90	42.18	Mason Cr	Snoqualmie R	07.0499	Culvert	0	RR	2.36	SQSH	SPS	1.1	1.79	2.25	118.90
994887	I-90	43.12	Unnamed	SF Snoqualmie R	07	Culvert	33	RR	1.97	RND	CST	1.1	1.22	1.22	97.34
994891	I-90	43.42	Unnamed	SF Snoqualmie R	07	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	61.10
994894	I-90	45.00	Unnamed	SF Snoqualmie R	07	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	72.37
992931	I-90	48.09	Humpback Cr	SF Snoqualmie R	07.0512	Culvert	0	RR	5.67	BOX	CPC	1.2	2.49	3.38	61.85
992933	I-90	48.66	Unnamed	SF Snoqualmie R	07	Culvert	0	LG		BOX	CPC	1.2	2.45	3.15	31.40
994907	I-90	52.12	Unnamed	SF Snoqualmie R	07	Culvert	33	LG		RND	CAL	1.1	1.66	1.66	113.95
994868	I-90 EB	28.52	Unnamed	Kimball Cr	07.0461	Culvert	0	RR	2.55	RND	CAL	1.1	0.61	0.61	44.84
990424	I-90 EB	46.24	Talapus Cr	SF Snoqualmie R	07.0508	Culvert	0	RR	3.45	BOX	PCC	1.2	1.87	3.06	35.75
994899	I-90 EB	46.30	Talapus Cr	SF Snoqualmie R	07.0508	Culvert	33	RR	3.12	BOX	CPC	1.2	1.84	3.04	29.30
994911	I-90 Ext 27 EB	0.15	Unnamed	Coal Cr	07	Culvert	0	LG		RND	CST	1.1	0.76	0.76	175.00
994985	I-90 Ext 31 WB	0.13	Unnamed	SF Snoqualmie R	07.0469	Culvert	33	RR	3.28	BOX	CPC	1.1	1.22	1.85	123.73
994912	I-90 Ext 42 EB	0.02	Unnamed	SF Snoqualmie R	07	Culvert	0	RR	2.30	RND	CST	1.1	1.22	1.22	216.00
994927	I-90 Ext 42 WB	0.07	Mason Cr	SF Snoqualmie R	07.0499	Culvert	33	RR	2.01	RND	CST	1.1	1.87	1.87	41.51
990865	I-90 Ext 45 EB	0.23	Unnamed	SF Snoqualmie R	07	Culvert	0	LG		RND	CST	1.1	1.52	1.52	85.34
994914	I-90 Ext 47 EB	0.08	Unnamed	SF Snoqualmie R	07	Culvert	0	RR	2.20	RND	SPS	1.1	1.89	1.89	26.15
992941	I-90 Off Ext 47 WB	0.17	Unnamed	SF Snoqualmie R	07	Culvert	0	RR	2.01	RND	CST	1.1	1.89	1.89	50.60
994994	I-90 ROW	47.35	Unnamed	SF Snoqualmie R	07	Culvert	33	LG			TMB	1.1			7.30
994984	I-90 WB	24.85	Unnamed	Lake Cr	07	Culvert	0	RR		RND	CPC	1.1	1.33	1.33	225.00
994938	I-90 WB	28.56	Unnamed	Kimball Cr	07.0461	Culvert	0	RR	2.64	RND	CAL	1.1	0.91	0.91	69.36
994919	I-90 WB	47.35	Unnamed	SF Snoqualmie R	07	Culvert	0	LG		RND	CST	1.1	1.52	1.52	105.51
994995	Pratt Lk Stock Yard		Unnamed	SF Snoqualmie R	07	Culvert	0	LG		RND	CST	1.1	0.76	0.76	114.16
990111	SR 104	25.70	Willow Cr	Puget Sound	08.0011	Culvert	0	RR	8.36	BOX	PCC	1.1	0.91	1.83	152.40
996208	SR 104	29.33	Unnamed	Ballinger Lk	08	Culvert	0	LG		RND	OTH	1.1	0.46	0.46	61.74
990653	SR 104	30.67	Unnamed	Lyon Cr	08.0053	Culvert	33	RR	11.38	RND	CST	1.1	0.76	0.76	16.99
990654	SR 104	31.08	Unnamed	Lyon Cr	08.0053	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	20.03

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
990253	SR 104	31.30	Lyon Cr	Lk Washington	08.0052	Culvert	50	RR	18.11	BOX	PCC	1.1	1.83	1.37	59.44
991623	SR 104	31.73	Unnamed	Lyon Cr	08	Culvert	33	RR		RND	CAL	1.1	0.76	0.76	20.00
995312	SR 11	14.24	Unnamed	Samish Bay	01	Culvert	0	LG		BOX	CPC	1.1	0.94	0.90	20.94
995313	SR 11	15.45	Unnamed	Pleasant Bay	01.0634	Culvert	0	RR		OTH	OTH	1.1	0.76	0.76	103.73
995314	SR 11	15.93	Unnamed	Chuckanut Bay	01.0633	Culvert	0	RR		RND	SST	1.1	1.22	1.22	38.91
995796	SR 11	18.47	Unnamed	Chuckanut Cr	01	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	
990581	SR 11	18.65	Unnamed	Chuckanut Cr	01.0627	Culvert	0	RR	12.35	RND	PCC	1.1	0.61	0.61	50.17
994389	SR 11	20.25	Padden Cr	Bellingham Bay	01.0622	Culvert	0	RR		RND	CPC	1.1	1.52	1.52	704.00
994386	SR 11	21.08	Padden Cr	Bellingham Bay	01.0622	Culvert	33	RR		BOX	CPC	1.2	0.95	1.50	24.57
992062	SR 161	33.44	Hylebos Cr	Puget Sound	10.0006	Culvert	0	LG		RND	PCC	1.1	0.46	0.46	33.14
992360	SR 164	5.89	Unnamed	White R	10	Culvert	67	UD		BOX	CPC	1.1	1.24	1.83	15.51
996279	SR 164	7.01	Unnamed	White R	10	Culvert	33	LG		RND	PCC	1.1	0.61	0.61	27.83
991213	SR 164	9.06	Second Cr	White R	10.0050	Culvert	0	RR	11.10	RND	PCC	1.1	1.22	1.22	36.58
991837	SR 164	10.21	Unnamed	Unnamed	10	Culvert	67	RR		RND	CST	1.1	0.91	0.91	32.00
996281	SR 164	10.65	Unnamed	Unnamed	10	Culvert	67	LG		RND	PCC	1.1	0.46	0.46	12.17
991839	SR 164	13.34	Unnamed Ditch	Boise Cr	09	Culvert	33	UD		RND	PCC	1.1	1.22	1.22	26.82
996308	SR 164 ROW	7.00	Unnamed	White R	10	Culvert	67	LG		RND	PVC	1.1	0.46	0.46	5.82
991681	SR 167	23.94	Unnamed	Spring Brook Cr	09	Culvert	67	RR		RND	CST	1.1	0.61	0.61	50.11
991200	SR 167	24.16	Unnamed	Spring Brook Cr	09	Culvert	67	LG		RND	CST	1.1	0.76	0.76	51.40
995467	SR 167	24.72	Unnamed	Springbrook Cr	09	Culvert	33	RR		RND	CST	1.1	0.76	0.76	47.76
995468	SR 167	24.81	Unnamed	Springbrook Cr	09.0006	Culvert	33	LG		RND	CST	1.1	0.83	0.83	47.05
996492	SR 169	17.92	Unammed	Cedar R	08	Culvert	33	RR		RND	PCC	1.1	0.46	0.46	
996493	SR 169	18.06	Unnamed	Cedar Cr	08	Culvert	0	UD		RND	PCC	1.1	0.46	0.46	14.11
990257	SR 169	22.34	MadsenCr	Cedar R	08.0305	Culvert	67	RR		BOX	PCC	1.1	1.00	1.80	40.60
996514	SR 169 ROW	18.06	Unnamed	Cedar R	08	Culvert	0	RR		RND	CST	1.1	0.46	0.46	12.48
995298	SR 18	0.45	Unnamed	EF Hylebos Cr	10.0016	Culvert	33	RR	7.28	RND	PCC	1.2	0.76	0.76	69.05
996277	SR 18	0.83	Unnamed	Unnamed	10	Fishway	67	RR							
991576	SR 18	18.19	Taylor Cr	Downs Cr	08.0326	Culvert	67	RR	20.54	RND	PCC	1.1	1.52	1.52	29.49
990426	SR 18	18.43	Taylor Cr	Downs Cr	08.0326	Culvert	20	RR	25.48	RND	PCC	1.1	1.52	1.52	44.30
995474	SR 18	21.15	Unnamed	Holder Cr	08	Culvert	0	RR		ELL	CST	1.1	1.27	1.16	128.00
990173	SR 18	22.16	Holder Cr	Sammamish Lk	08.0178	Fishway	0	RR	15.93						
995970	SR 18	22.58	Unnamed	Holder Cr	08	Culvert	0	LG		RND	CST	1.1	1.22	1.22	44.36
995971	SR 18	22.82	Unnamed	Holder Cr	08.0220	Culvert	33	RR		ELL	CST	1.2	1.37	1.64	76.00
995972	SR 18	22.98	Unnamed	Holder Cr	08.0220	Culvert	33	RR		RND	CST	1.1	1.65	1.65	37.46
995974	SR 18	23.55	Unnamed	Holder Cr	08	Culvert	0	LG		RND	CST	1.1	0.91	0.91	43.33
07.0396 0.80	SR 18	25.80	Deep Cr	Raging R	07.0396	Fishway	33	RR	15.93						
990236	SR 18	27.62	Lake Cr	Raging R	07.0393	Culvert	33	RR	20.65	RND	PCC	1.2	1.07	1.07	24.46
995978	SR 20	12.96	Crocket LK	Puget Sound	06.0053	Culvert	0	RR		RND	PCC	1.2	0.91	0.91	
FD41	SR 20	44.74	Unnamed	Skagit Bay	03	Culvert	67	RR	28.68	RND	PCC	1.1	1.22	1.22	37.39

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996320	SR 20	46.10	Unnamed	Campbell Lk	03	Culvert	0	RR	10.24	RND	PCC	1.1	0.46	0.46	35.75
FD37	SR 20	50.65	Fornsby Sl	Swinomish Ch	03.0153	Other		UD							
PA106	SR 20	52.34	Unnamed	Padilla Bay	03.0116	Other		UD							
PA107	SR 20	52.60	Telegraph Sl	Padilla Bay	03.0118	Other	0	UD							
995432	SR 20	53.90	Unnamed	Indian Sl	03.0108	Culvert	33	RR		RND	CST	1.2	0.91	0.91	86.09
991142	SR 20	69.08	Unnamed	Coal Cr	03	Culvert	67	RR		RND	PCC	1.1	0.46	0.46	15.36
995438	SR 20	77.75	Unnamed	Unnamed	03	Culvert	67	LG		RND	CST	1.1	0.61	0.61	30.18
991149	SR 20	80.20	Unnamed	Skagit R	03	Culvert	33	RR		RND	PCC	1.1	0.46	0.46	13.57
991151	SR 20	87.40	Unnamed	Skagit R	03	Culvert	0	UD		RND	PCC	1.1	0.61	0.61	17.07
GR9	SR 20	87.70	Lornezan Cr	Skagit R	04	Culvert	67	UD		RND	PCC	1.1	0.61	0.61	22.90
GR23	SR 20	88.77	Unnamed	Lornezan Cr	04	Culvert		UD		RND	PCC	1.1	0.61	0.61	36.60
991132	SR 20	89.90	Unnamed	Skagit R	03	Culvert	0	UD		RND	CST	1.1	0.91	0.91	45.72
991708	SR 20	90.00	Unnamed	Skagit R	03	Culvert	0	UD		RND	PCC	1.1	0.46	0.46	39.62
JK2	SR 20	91.31	Unnamed	Skagit R	04.0176X	Culvert	0	RR		RND	PCC	1.1	0.62	0.62	94.50
991706	SR 20	93.00	Unnamed	Skagit R	04.0647	Culvert	0	LG		RND	CST	1.1	0.61	0.61	44.88
991707	SR 20	93.21	Unnamed	Skagit R	04	Culvert	0	LG		RND	CPC	1.1	1.76	1.76	34.82
994276	SR 20	93.29	Unnamed	Skagit R	04	Culvert	0	LG		RND	CST	1.1	1.21	1.21	50.03
991709	SR 20	93.70	Unnamed	Skagit R	04	Culvert	0	LG		RND	CST	1.1	1.87	1.87	48.98
991710	SR 20	93.84	Unnamed	Skagit R	04.0649	Culvert	67	RR	5.78	RND	PCC	1.2	0.61	0.61	16.51
991711	SR 20	94.10	Unnamed	Skagit R	04.0650	Culvert	33	RR		BOX	PCC	1.2	0.91	1.52	25.46
994308	SR 20	94.47	Unnamed	Skagit R	04.0654	Culvert	0	RR	8.33	RND	CST	1.1	0.76	0.76	36.82
991125	SR 20	94.68	Unnamed	Skagit R	04.0655	Culvert	0	LG		RND	CST	1.1	1.83	1.83	59.15
991126	SR 20	94.82	Unnamed	Skagit R	04.0657	Culvert	0	RR	4.64	RND	CST	1.1	1.83	1.83	92.26
994225	SR 20	96.12	Unnamed	Skagit R	04.0671	Culvert	67	RR	1.68	RND	PCC	1.1	0.46	0.46	15.02
991127	SR 20	96.23	Unnamed	Skagit R	04.0672	Culvert	0	RR	4.80	RND	PCC	1.1	0.91	0.91	24.02
990410	SR 20	99.90	Sutter Cr	Skagit R	04.1345	Culvert	0	RR	7.42	RND	PCC	1.1	1.52	1.52	23.77
CD18	SR 20	105.44	Olson Cr	Skagit R	04.1407	Culvert	67	UD		SQSH	CST	1.1	2.60	3.80	20.00
990094	SR 20	110.95	Cub Cr	Bacon Cr	04.1774A	Culvert	33	RR	10.08	RND	CST	1.1	1.22	1.22	48.77
991131	SR 20	112.90	Unnamed	Skagit R	03	Culvert	25	UD		RND	CST	1.1	0.91	0.91	13.11
DM10	SR 20	114.91	Unnamed	Skagit R	04.1826	Culvert		UD		SQSH	CST	1.1	1.20	1.60	14.00
DM7	SR 20	116.25	Unnamed	Skagit R	04	Culvert		UD		RND	CST	1.1	0.90	0.90	28.00
DM5	SR 20	117.57	Unnamed	Newhalem Ponds	04	Culvert		UD		RND	CST	1.2	1.05	1.05	22.00
DM1	SR 20	118.52	Babcock Cr	Skagit R	04.1862	Culvert		UD		RND	CST	1.2	0.90	0.90	15.00
995427	SR 20 Spur	49.07	Unnamed	Fidalgo Bay	03	Culvert	0	LG		RND	CST	1.1	0.91	0.91	89.96
995430	SR 20 Spur	50.48	Unnamed	Fidalgo Bay	03	Culvert	0	RR		RND	OTH	1.1	0.91	0.91	97.70
102 L062	SR 202	0.10	Little Bear Cr	Sammamish R	08.0080	Culvert	67	RR		BOX	PCC	1.1	1.83	3.05	43.59
996917	SR 202	0.97	Unnamed	Sammamish R	08	Culvert	67	LG		RND	OTH	1.1	0.61	0.61	24.21
996921	SR 202	4.17	Unnamed	Sammamish R	08	Culvert	67	RR		RND	CAL	1.1	0.84	0.84	16.77
996925	SR 202	4.25	Unnamed	Sammamish R trib	08	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	55.24

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991181	SR 202	5.27	Unnamed	Sammamish R	08.0101	Culvert	0	LG		RND	OTH	1.1	1.22	1.22	58.87
990325	SR 202	13.22	Patterson Cr	Snoqualmie R	07.0376	Culvert	67	RR		BOX	CPC	1.1	0.91	1.53	11.10
995194	SR 202	16.79	Unnamed	Patterson Cr	07	Culvert	67	RR		RND	PCC	1.1	0.61	0.61	15.76
991174	SR 202	19.69	Unnamed	Unnamed	07.0378	Culvert	67	RR		BOX	CPC	1.2	0.65	1.22	12.88
101S-22	SR 202	22.56	Unnamed	Snoqualmie R	07.0429	Culvert	33	RR		BOX	CPC	1.1	1.54	1.86	29.83
101SA-06	SR 202	23.18	Skunk Cr	Mud Cr	07.0436	Culvert	33	RR		BOX	CPC	1.1	0.60	1.20	30.13
995200	SR 202	23.22	Unnamed	Skunk Cr	07	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	30.74
995203	SR 202	28.76	Unnamed	SF Snoqualmie R	07	Culvert	67	RR		RND	PCC	1.2	0.91	0.91	19.15
996930	SR 202 ROW	1.03	Unnamed	Sammamish R	08	Culvert	67	LG		RND	PCC	1.1	0.30	0.30	12.05
101L-01	SR 203	3.97	Unnamed	Griffin Cr	07.0365	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	19.32
991720	SR 203	4.37	Unnamed	Snoqualmie R	07	Culvert	33	RR		RND	OTH	1.1	0.61	0.61	49.21
995167	SR 203	7.26	Unnamed	Horseshoe Lk	07	Culvert	33	RR		RND	OTH	1.1	0.61	0.61	23.65
991716	SR 203	13.60	Unnamed	Snoqualmie R	07.0219A	Culvert	67	RR	10.96	RND	PCC	1.1	1.22	1.22	45.36
995181	SR 203	14.10	Unnamed	Snoqualmie R	07	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	15.26
995186	SR 203	18.48	Unnamed	Snoqualmie R	07.0238	Culvert	33	LG		RND	PCC	1.1	0.91	0.91	52.54
995137	SR 204	0.21	Unnamed	Unnamed to Ebey Sl	07	Culvert	0	RR		RND	OTH	1.1	0.76	0.76	59.00
995138	SR 204	0.54	Unnamed	Ebey Sl	07	Culvert	33	RR		RND	PCC	1.1	1.30	1.30	67.25
995141	SR 204	0.96	Unnamed	Ebey Sl	07	Culvert	0	RR		RND	PCC	1.1	0.46	0.46	49.11
995150	SR 204	1.19	Unnamed	Ebey Sl	07.0093	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	76.72
995151	SR 204	1.64	Unnamed		07	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	31.72
995152	SR 204	1.80	Unnamed	Ebey Sl	07	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	60.93
991205	SR 410	23.83	Unnamed	Boise Cr	10	Culvert	67	RR		RND	PCC	1.1	1.07	1.07	41.61
991218	SR 410	27.25	Unnamed	Boise Cr	10	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	23.77
990043	SR 410	27.44	Boise Cr	White R	10.0057	Culvert	67	RR		BOX	PCC	1.2	1.83	1.83	32.61
996625	SR 410	35.29	Unnamed	White R	10	Culvert	33	RR		RND	PCC	1.1	1.52	1.52	21.94
990082	SR 410	35.77	Clay Cr	White R	10.0103	Culvert	0	RR	7.35	BOX	PCC	1.1	1.83	1.83	38.40
990102	SR 410	36.49	Cyclone Cr	White R	10.0105	Culvert	0	RR		BOX	PCC	1.1	2.44	2.44	28.65
991219	SR 410	39.18	Unnamed	White R	10	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	16.36
996661	SR 410	40.31	Unnamed	White R	10	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	15.31
996662	SR 410	40.51	Unnamed	White R	10	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	21.30
105 R022221a	SR 410	41.42	Unnamed	White R	10	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	14.36
105 R071916a	SR 410	48.29	Boundary Cr	White R	10.0250	Fishway	33	RR							
996664	SR 410	48.94	Unnamed	Unnamed	10	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	22.05
991012	SR 410	49.93	Unnamed	White R	10	Culvert	33	LG		SQSH	CST	1.1	1.01	1.40	24.53
991013	SR 410	50.32	Minnehaha Cr	White R	10.0300	Fishway	0	UD				1.1			
996671	SR 410	53.01	Unnamed	White R	10	Culvert	67	RR		SQSH	CST	1.1	0.83	1.05	28.16
105 R072016a	SR 410	55.29	Dry Cr	White R	10	Culvert	0	RR		BOX	CPC	1.1	1.54	1.54	25.82
991016	SR 410	55.51	Unnamed	White R	10	Culvert	0	RR		BOX	PCC	1.1	1.83	1.68	37.19
105 R072018a	SR 410	59.57	Unnamed	White R	10	Culvert	67	LG		RND	PCC	1.2	0.76	0.76	13.00

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
996266	SR 509	9.18	Unnamed	Puget Sound	10	Culvert	0	RR		RND	CST	1.1	0.76	0.76	40.11
991651	SR 509	9.60	Unnamed	Puget Sound	10	Culvert	33	LG		RND	PCC	1.2	0.76	0.76	75.11
996270	SR 509	10.96	Lakota Cr	Puget Sound	10.0386	Culvert	0	RR		RND	PCC	1.1	1.07	1.07	41.51
996272	SR 509	11.43	Unnamed	Lakota Cr	10.0387	Culvert	0	RR		RND	OTH	1.1	0.46	0.46	285.09
991192	SR 509	13.42	Unnamed	Duwamish R	09	Culvert	0	UD		RND	CST	1.1	1.07	1.07	38.10
990115	SR 509	20.35	Des Moines Cr	Puget Sound	09.0377	Fishway	33	RR	24.61						
994459	SR 520	4.48	Unnamed	Lk Washington	08.0257	Fishway	33	RR	14.80						
994117	SR 520	5.42	Unnamed	Lk Washington	08	Culvert	0	LG		RND	CST	1.1	0.91	0.91	98.70
994119	SR 520	5.81	Unnamed	Lk Washington	08	Culvert	0	RR	5.69	RND	PCC	1.1	1.27	1.27	104.01
994236	SR 520	6.19	Yarrow Cr	Lk Washington	08.0252	Culvert	67	RR	22.86	RND	PCC	1.2	1.07	1.07	78.68
994705	SR 520	6.44	Unnamed	Yarrow Cr	08	Culvert	0	RR	5.24	RND	CST	1.1	0.91	0.91	111.96
990167	SR 520	8.00	Goff Cr	Lk Washington	08.0000	Culvert	0	RR		RND	CST	1.2	0.91	0.91	79.49
994449	SR 520 EB off ramp	6.03	Yarrow Cr	Lk Washington	08.0252	Culvert	67	RR	23.12	RND	CST	1.1	1.22	1.22	62.42
994238	SR 520 WB off ramp	6.27	Yarrow Cr	Lk Washington	08.0252	Culvert	67	RR	22.70	SQSH	CST	1.1	0.75	1.07	33.37
994227	SR 520 WB on ramp	5.95	Yarrow Cr	Lk Washington	08.0252	Culvert	67	RR	23.18	RND	CST	1.2	1.22	1.22	29.80
994234	SR 520 WB on ramp	5.95	Yarrow Cr	Lk Washington	08.0252	Culvert	67	RR	22.08	RND	CST	1.2	1.22	1.22	38.20
990430	SR 522	2.86	Thornton Cr	Lk Washington	08.0030	Fishway	67	RR							
990655	SR 522	6.63	Unnamed	Lk Washington	08.0056	Culvert	0	RR		OTH	OTH	1.1	1.46	1.46	200.56
996916	SR 522	12.86	Unnamed	Little Bear Cr	08	Culvert	0	RR		RND	CST	1.1	1.14	1.14	196.00
996912	SR 522	13.01	Unnamed	Little Bear Cr	08	Culvert	33	LG		RND	CAL	1.1	1.07	1.07	70.44
996913	SR 522	13.66	Unnamed	Little Bear Cr	08	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	54.59
994430	SR 522	14.25	Howell Cr	Little Bear Cr	08.0082	Culvert	0	RR	2.37	RND	OTH	1.2	0.46	0.46	55.61
994432	SR 522	14.38	Unnamed	Little Bear Cr	08	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	56.54
994440	SR 522	16.54	Unnamed	Crystal Lk	08	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	53.37
992371	SR 522	17.48	Unnamed	Evans Cr	07.0211	Culvert	33	RR	6.11	RND	PCC	1.1	0.76	0.76	55.00
992632	SR 522	17.82	Unnamed	Evans Cr	07.0211	Culvert	67	RR	13.23	RND	PCC	1.1	0.91	0.91	88.10
992631	SR 522	17.87	Unnamed	Evans Cr	07.0211	Culvert	67	RR	13.36	RND	PCC	1.1	0.91	0.91	54.40
992374	SR 522	18.44	Unnamed	Evans Cr	07.0211	Culvert	33	RR	21.20	RND	CST	1.1	1.25	1.25	44.33
990016	SR 522	18.77	Unnamed	Evans Cr	07	Culvert	33	RR	5.60	RND	PCC	1.1	0.61	0.61	45.72
992378	SR 522	19.26	Anderson Cr	Evans Cr	07.0212	Culvert	0	RR	12.06	RND	PCC	1.1	0.90	0.90	116.00
992381	SR 522	19.35	Unnamed	Anderson Cr	07	Culvert	0	RR	7.37	RND	CST	1.1	0.91	0.91	84.33
992382	SR 522	19.44	Unnamed	Anderson Cr	07	Culvert	0	RR	1.79	RND	CST	1.1	0.76	0.76	
992383	SR 522	19.57	Unnamed	Anderson Cr	07	Culvert	0	RR	1.55	RND	CST	1.1	0.91	0.91	90.78
990139	SR 522	20.21	Elliott Cr	Snohomish R	07.0214	Culvert	0	RR	15.78	RND	PCC	1.1	0.90	0.90	117.00
994128	SR 522	21.95	Unnamed	Skykomish R	07.0814	Culvert	67	RR	15.87	RND	CST	1.1	0.61	0.61	46.72
994125	SR 522	21.97	Unnamed	Skykomish R	07.0814	Culvert	67	RR	8.24	RND	CST	1.1	0.76	0.76	48.26
996880	SR 522 ROW	12.86	Unnamed	Little Bear Cr	08	Culvert	67	RR		RND	PCC	1.1	1.22	1.22	29.24
996915	SR 523	1.24	Unnamed	Thornton Cr	08	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	41.44
993103	SR 524	3.89	Scriber Cr	Scriber Lk	08.0061	Culvert	33	RR	9.76	SQSH	CST	1.2	1.10	1.80	40.94

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
992846	SR 524	5.54	Golde Cr	Scriber Cr	08.0062	Culvert	0	RR	10.80	RND	PCC	1.1	0.91	0.91	4.66
993100	SR 524	6.95	Martha Cr	Swamp Cr	08	Culvert	0	RR	13.80	RND	OTH	1.1	0.91	0.91	
991053	SR 524	8.06	Unnamed	North Cr	08	Culvert	33	UD		RND	PCC	1.1	0.46	0.46	28.96
991641	SR 524	9.10	Unnamed	North Cr	08	Culvert	0	RR	12.28	RND	PCC	1.1	0.46	0.46	14.94
996461	SR 524	12.07	Unnamed	Little Bear Cr	08	Culvert	0	UD		RND	CST	1.1	0.46	0.46	20.04
996460	SR 524	14.28	Unnamed		08	Culvert	67	UD		RND	PCC	1.1	0.61	0.61	19.05
994124	SR 524	14.38	Unnamed	Crystal Lk	08	Culvert	33	UD		RND	PCC	1.2	0.46	0.46	41.00
994123	SR 524	14.52	Unnamed	Crystal Lk	08	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	31.79
996205	SR 524 SP 3	0.30	Shelleberger Cr	Puget Sound	08.0010	Culvert	33	RR		RND	PCC	1.1	0.76	0.76	32.90
991176	SR 525	1.10	Unnamed	Swamp Cr	08	Culvert	0	RR		RND	CST	1.1	0.91	0.91	53.10
991054	SR 525	2.05	Unnamed	Swamp Cr	08.0065	Culvert	0	RR		RND	OTH	1.1	0.61	0.61	86.10
996188	SR 525	7.82	Unnamed	Possession Bay	08	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	57.89
995994	SR 525	9.14	Clinton Cr	Puget Sound	06	Culvert	0	RR		OTH	CST	1.1	0.61	0.61	
995986	SR 525	9.54	Clinton Cr	Puget Sound	06	Culvert	0	RR		RND	OTH	1.1	0.61	0.61	41.00
995984	SR 525	9.70	Clinton Cr	Puget Sound	06	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	27.00
995988	SR 525	10.02	Clinton Cr	Puget Sound	06	Culvert	67	LG		RND	PCC	1.1	0.61	0.61	37.00
995127	SR 526	2.96	Merrill and Ring Cr	Possession Sound	07.1725	Culvert	33	LG		RND	CST	1.1	1.07	1.07	161.62
991187	SR 527	0.58	Unnamed	Sammamish R	08	Culvert	67	RR		BOX	CPC	1.1	0.95	1.35	11.82
996177	SR 527	0.82	Unnamed	Unnamed	08	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	16.97
996178	SR 527	1.37	Unnamed	Sammamish R	08	Culvert	0	RR		BOX	CPC	1.1	1.00	2.45	17.47
993084	SR 527	2.78	Unnamed	North R	08	Culvert	33	RR	8.93	RND	CST	1.1	1.22	1.22	65.98
990294	SR 528	2.47	Munson Cr	Allen Cr	07.0073	Fishway	67	RR							
990574	SR 530	23.98	Unnamed	NF Stillaguamish R	05.0136	Culvert	0	LG		RND	CST	1.1	0.91	0.91	51.82
990627	SR 530	24.29	Unnamed	NF Stillaguamish R	05	Culvert	0	LG		RND	SST	1.1	1.52	1.52	3.05
991159	SR 530	24.65	Unnamed	Stillaguamish R	05.0137	Culvert	0	RR	18.60	RND	PCC	1.1	1.22	1.22	56.39
990629	SR 530	25.74	Unnamed	Trafton Cr	05.0148	Culvert	33	RR		RND	PCC	1.1	0.46	0.46	20.52
996092	SR 530	25.88	Unnamed	Trafton Cr	05.0148	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	20.39
990628	SR 530	26.29	Unnamed	Unnamed	05	Culvert	67	RR		RND	PCC	1.1	0.46	0.46	23.06
991161	SR 530	26.40	Unnamed	Unnamed	05	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	25.29
990631	SR 530	26.70	Unnamed	Trafton Cr	05.0147	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	24.50
990633	SR 530	26.87	Unnamed	NF Stillaguamish R	05.0151	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	24.01
990630	SR 530	27.46	Unnamed	NF Stillaguamish R	05.0150	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	16.90
990634	SR 530	27.66	Unnamed	NF Stillaguamish R	05.0152X	Culvert	67	LG		RND	PCC	1.1	0.46	0.46	17.14
990361	SR 530	27.75	Ryan Falls Cr	Stillaguamish R	05.0152	Culvert	33	LG		RND	CST	1.1	1.43	1.43	23.77
990644	SR 530	31.01	Unnamed	NF Stillaguamish R	05	Fishway	67	RR							
991164	SR 530	32.51	Unnamed	Stillaguamish R	05	Culvert	67	LG		RND	PVC	1.1	0.46	0.46	21.32
990639	SR 530	34.30	Unnamed	NF Stillaguamish R	05	Culvert	50	RR		RND	PCC	1.1	0.61	0.61	22.86
990640	SR 530	35.24	Unnamed	Montaque Cr	05.0217X	Culvert	67	RR		RND	PCC	1.1	0.46	0.46	10.40
995402	SR 530	36.67	Unnamed	NF Stillaguamish R	05	Culvert	0	LG		RND	OTH	1.1	0.46	0.46	23.80

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
995404	SR 530	36.83	Unnamed	NF Stillaguamish R	05	Culvert	67	LG		RND	PCC	1.1	0.30	0.30	22.96
990650	SR 530	38.60	Unnamed	NF Stillaguamish R	05	Culvert	75	LG		RND	PCC	1.1	0.61	0.61	
990246	SR 530	42.14	Little French Cr	Fortson Cr	05.0253	Culvert	0	RR	12.47	RND	PCC	1.2	1.22	1.22	47.55
990151	SR 530	42.99	Fortson Cr	NF Stillaguamish R	05	Culvert	0	RR	23.11	ARCH	CST	1.1	0.91	1.52	30.48
990652	SR 530	43.34	Unnamed	Fortson Ponds	05	Culvert	67	RR		RND	PCC	1.1	0.76	0.76	25.21
991498	SR 530	64.60	Unnamed	Skagit R	03	Culvert	50	LG		RND	PCC	1.1	1.34	1.34	15.24
CC1	SR 530		Murphy Cr	Sauk R	04.1112	Culvert		UD		SQSH	CST	1.2	2.50	3.50	20.00
CC2	SR 530		Goodman Cr	Sauk R	04.1113	Culvert		UD		RND	CST	1.1	4.00	4.00	30.00
CC3	SR 530		Dutch Cr	Sauk R	04.1114	Culvert		UD		RND	CST	1.1	1.90	1.90	40.00
991751	SR 531	3.80	Cougar Cr	Fish Cr	05.0041	Culvert	67	RR		RND	OTH	1.1	0.76	0.76	26.09
991059	SR 531	8.71	Unnamed	MF Quilceda Cr	07.0060	Fishway	67	RR							
991808	SR 532	3.19	Unnamed	Stillaguamish Estuary	05	Culvert		UD		RND	PCC	1.1	0.46	0.46	24.99
05.0018 2.00	SR 532	6.14	Church Cr	Stillaguamish R	05.0018	Fishway	67	RR							
990080	SR 532	6.68	Unnamed	Church Cr	05.0020	Culvert	0	RR		RND	CST	1.1	0.61	0.61	68.65
990890	SR 532	8.71	Unnamed	Sunday Lk	05.0061	Culvert	67	RR		RND	CST	1.1	0.76	0.76	54.07
990624	SR 532	9.75	Unnamed	Pilchuck Cr	05.0065	Culvert	33	RR	31.55	RND	PCC	1.1	1.22	1.22	61.00
CR2	SR 534	0.53	Unnamed	Carpenter Cr	03	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	10.88
995265	SR 534	0.60	Unnamed	Carpenter Cr	03	Culvert	0	RR		RND	CST	1.1	0.76	0.76	67.65
990112	SR 539	4.30	Deer Cr	Tenmile Cr	01.0165	Culvert	33	RR	31.44	BOX	PCC	1.1	1.37	1.22	14.63
991473	SR 539	11.08	Unnamed	Unnamed to Bertrand Cr	01	Culvert	0	RR		RND	PCC	1.2	1.22	1.22	17.07
991803	SR 542	2.40	Toad Lk Cr	Squalicum Cr	01.0560	Culvert	0	RR	13.41	RND	PCC	1.1	1.55	1.55	62.48
991111	SR 542	13.48	Unnamed	Nooksack R	01	Culvert	67	UD		RND	PCC	1.3	1.09	1.09	26.82
990582	SR 542	14.07	Unnamed	Nooksack R	01	Culvert	0	LG		RND	PCC	1.1	0.70	0.70	40.84
990584	SR 542	15.05	Unnamed	Nooksack R	01	Culvert	67	RR		RND	OTH	1.1	0.61	0.61	23.63
990585	SR 542	15.08	Unnamed	NF Nooksack R	01	Culvert	33	RR		RND	OTH	1.1	0.76	0.76	19.20
991060	SR 542	16.07	Unnamed	Nooksack R	01	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	13.28
995776	SR 542	16.21	Unnamed	Unnamed	01	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	43.12
991107	SR 542	16.28	Unnamed	Nooksack R	01.0337	Culvert	50	LG		RND	PCC	1.1	1.07	1.07	30.48
995777	SR 542	17.38	Unnamed	NF Nooksack R	01	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	27.61
990589	SR 542	17.85	Unnamed	NF Nooksack R	01	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	30.55
991705	SR 542	21.45	Unnamed	Kendall Cr	01	Culvert	33	RR		SQSH	CST	1.1	0.70	1.06	11.32
991108	SR 542	23.94	Unnamed	High Cr	01.0408	Culvert	10	UD		RND	CST	1.2	0.61	0.61	12.50
991113	SR 542	23.95	Unnamed	High Cr	01	Culvert	0	RR		RND	CST	1.2	0.61	0.61	19.76
995770	SR 542	24.25	Unnamed	High Cr	01	Culvert	33	RR		RND	CST	1.1	0.91	0.91	24.37
990577	SR 542	24.49	Unnamed	High Cr	01	Culvert	67	RR		RND	CST	1.1	0.61	0.61	16.46
991621	SR 542	24.90	High Cr	Kendall Cr	01.0407	Culvert	33	RR	21.37	RND	CST	1.1	1.89	1.89	15.24
991640	SR 542	27.21	Unnamed	Nooksack R	01	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	19.81
990046	SR 542	28.01	Bruce Cr	Nooksack R	01	Culvert	67	RR		RND	PCC	1.1	1.07	1.07	17.24
990023	SR 542	28.74	Baptist Camp Cr	NF Nooksack R	01.0433	Culvert	67	RR	8.36	RND	PCC	1.1	0.45	0.45	12.53

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
995409	SR 542	28.87	Unnamed	NF Nooksack R	01	Culvert	0	RR	8.41	RND	PCC	1.1	0.76	0.76	17.97
990580	SR 542	29.02	Unnamed	NF Nooksack R	01	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	63.49
990596	SR 542	29.91	Unnamed	NF Nooksack R	01	Culvert	0	LG		RND	PCC	1.1	0.30	0.30	
990187	SR 542	32.00	Hedrick Cr	Nooksack R	01.0463	Culvert	0	RR	16.63	BOX	PCC	1.2	1.83	1.83	24.38
990602	SR 542	34.49	Unnamed	NF Nooksack R	01	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	19.81
995413	SR 542	35.55	Unnamed	NF Nooksack R	01	Culvert	0	LG		RND	CST	1.1	0.46	0.46	17.89
990603	SR 542	36.61	Lookout Cr	NF Nooksack R	01	Culvert	0	RR		RND	CST	1.1	1.22	1.22	25.02
990604	SR 542	38.15	Deerhorn Cr	NF Nooksack R	01	Culvert	0	RR		RND	CST	1.2	1.83	1.83	23.84
990605	SR 542	38.38	Unnamed	NF Nooksack R	01	Culvert	0	RR		RND	CST	1.1	0.91	0.91	18.29
995561	SR 542	38.86	Unnamed	NF Nooksack R	01	Culvert	0	LG		RND	PCC	1.1	0.46	0.46	18.32
990606	SR 542	38.98	Unnamed	NF Nooksack R	01	Culvert	0	RR		RND	PCC	1.1	1.66	1.66	24.61
995567	SR 542	40.77	Unnamed	NF Nooksack R	01	Culvert	0	LG		BOX	CPC	1.1	1.84	1.84	23.88
995571	SR 542	42.13	Unnamed	NF Nooksack R	01	Culvert	67	LG		RND	CST	1.1	0.91	0.91	16.38
995573	SR 542	42.76	Unnamed	NF Nooksack R	01	Culvert	67	RR		BOX	CPC	1.1	1.22	1.84	13.15
995577	SR 542	43.52	Unnamed	NF Nooksack R	01	Culvert	67	RR		BOX	CPC	1.2	1.84	1.84	16.14
995582	SR 542	45.51	Unnamed	NF Nooksack R	01	Culvert	0	LG		RND	CST	1.1	0.61	0.61	15.26
995583	SR 542	45.54	Unnamed	NF Nooksack R	01	Culvert	0	RR		RND	CST	1.1	0.46	0.46	15.36
995585	SR 542	46.11	Unnamed	NF Nooksack R	01	Culvert	67	RR		BOX	CPC	1.2	1.23	1.83	12.19
995439	SR 542	49.44	Unnamed	Unnamed to Bagley Cr	01	Culvert	0	RR		RND	OTH	1.1	0.61	0.61	29.52
995695	SR 542	49.74	Unnamed	Unnamed to Bagley Cr	01	Culvert	33	LG		RND	PCC	1.1	0.61	0.61	13.25
995443	SR 542	53.05	Unnamed	Unnamed	01	Culvert	67	LG		RND	PCC	1.1	0.61	0.61	14.18
995774	SR 547	6.71	Unnamed	Saar Cr	01	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	39.08
996007	SR 548	1.14	Unnamed	Unnnamed	01	Culvert	67	RR		RND	PCC	1.1	0.61	0.61	23.41
996008	SR 548	1.24	Unnamed	California Cr	01.0079	Culvert	33	RR	10.64	RND	PCC	1.1	0.61	0.61	26.09
996142	SR 548	4.27	Unnamed	Fingleson Cr	01	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	22.24
990429	SR 548	4.67	Terrell Cr	Birch Bay	01.0089	Culvert	0	RR	31.43	RND	PCC	1.1	1.83	1.83	40.78
981788	SR 548	6.35	Terrell Cr	Birch Bay	01.0089	Culvert	0	RR	46.82	RND	SPS	1.1	3.81	3.81	35.20
996153	SR 548	10.55	Unnamed	California Cr	01.0047	Culvert	67	RR		RND	PCC	1.2	0.61	0.61	17.73
990316	SR 9	1.16	Ashley Cr	Little Bear Cr	08.0083	Fishway	100	RR	14.24	RND	PCC	1.1	0.61	0.61	19.84
995982	SR 9	10.61	Cemetery Cr	Unnnamed	07.0118	Culvert	33	UD		RND	CST	1.1	0.61	0.61	45.34
991814	SR 9	18.79	Unnamed	Lk Stevens	07.0149	Culvert	0	LG		RND	OTH	1.1	0.61	0.61	87.72
995084	SR 9	22.72	Unnamed	Quilceda Cr	07	Culvert	33	RR		RND	PCC	1.1	0.46	0.46	25.95
102 Q028	SR 9	24.44	Unnamed	MF Quilceda Cr	07	Culvert	67	RR		RND	PCC	1.1	1.52	1.52	51.92
995082	SR 9	25.75	Unnamed	Unnnamed	07	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	35.21
990255	SR 9	27.25	Unnamed	Portage Cr	05.0058	Culvert	33	RR		RND	PCC	1.1	1.22	1.22	23.92
996079	SR 9	27.94	Unnamed	Unnnamed	05	Culvert	67	RR		RND	PCC	1.1	0.61	0.61	58.64
996085	SR 9	36.95	Unnamed	Unnnamed	05	Culvert	0	LG		RND	PCC	1.1	0.31	0.31	13.52
LP19	SR 9	37.26	Unnamed	Unnnamed	05	Culvert	0	LG		RND	OTH	1.1	0.61	0.61	31.79
996088	SR 9	38.14	Unnamed	Unnnamed	05	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	11.58

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
996089	SR 9	38.27	Unnamed	Unnamed	05	Culvert	0	LG		RND	PVC	1.1	0.61	0.61	14.30
LP31	SR 9	38.64	Unnamed	Unnamed	05	Culvert	67	LG		RND	CST	1.1	0.46	0.46	13.99
LP32	SR 9	38.69	Unnamed	Unnamed	05	Culvert	33	RR		RND	PCC	1.1	0.76	0.76	11.40
NC158	SR 9	39.16	Unnamed	Lk McMurray	03	Culvert	0	RR		RND	PCC	1.1	0.46	0.46	23.67
995275	SR 9	39.51	Unnamed	Lk McMurray	03	Culvert	0	LG		RND	PVC	1.1	0.61	0.61	18.53
NC180	SR 9	39.69	Unnamed	Lk McMurray	03	Culvert	33	RR		RND	PCC	1.1	1.07	1.07	15.74
NC170	SR 9	39.87	Unnamed	Lk McMurray	03	Culvert	33	RR		RND	CST	1.1	0.91	0.91	25.73
990641	SR 9	40.09	Unnamed	Lk McMurray	03	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	12.54
NC166	SR 9	40.77	Unnamed	Lk McMurray	03	Culvert	33	RR		RND	CAL	1.1	1.22	1.22	15.09
990091	SR 9	41.04	Norway Park Cr	Lk Mc Murray	03.0265	Culvert	33	RR	11.55	RND	CST	1.1	0.76	0.76	44.60
991451	SR 9	41.50	Unnamed	Lake Cr	03.0264	Culvert	33	LG		RND	CST	1.1	1.21	1.21	16.21
991120	SR 9	42.36	Lake Cr	Skagit R	03.0227	Culvert	67	RR		RND	CST	1.1	1.91	1.91	17.41
NC163	SR 9	43.08	Unnamed	Lake Cr	03	Culvert	67	RR		RND	CST	1.1	0.91	0.91	12.00
991122	SR 9	48.00	Gribble Cr	WF Nookachamps Cr	03.0227	Culvert	33	RR	21.92	RND	PCC	1.1	1.22	1.22	21.14
NC69	SR 9	49.00	Unnamed	WF Nookachamps Cr	03	Culvert	67	RR		BOX	CPC	1.1	1.55	1.22	11.10
HC53	SR 9	59.08	Unnamed	Unnamed	03	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	11.93
SR67	SR 9	64.45	Unnamed	Samish R	03	Culvert	33	RR		RND	OTH	1.1	1.14	1.14	15.93
995390	SR 9	64.93	Unnamed	Samish R	03	Culvert	0	LG		RND	CST	1.2	0.61	0.61	16.17
991136	SR 9	65.07	Unnamed	Samish R	03	Culvert	0	LG		RND	PCC	1.1	1.22	1.22	13.66
991447	SR 9	66.85	Unnamed	Samish R	03	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	11.13
991448	SR 9	67.33	Unnamed	Samish R	03.0078	Culvert	33	RR		BOX	CPC	1.1	1.57	2.45	11.75
995392	SR 9	67.46	Unnamed	Samish R	03	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	31.45
995395	SR 9	69.10	Unnamed	Samish R	03	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	23.26
995396	SR 9	69.15	Unnamed	Samish R	03	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	22.75
995398	SR 9	69.88	Unnamed	Samish R	03	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	29.78
991106	SR 9	70.60	Unnamed	Samish R	03	Culvert	0	RR		RND	OTH	1.1	0.76	0.76	13.72
995780	SR 9	70.81	Unnamed	SF Nooksack R	01.0263	Culvert	33	LG		RND	PCC	1.2	0.91	0.91	26.79
995783	SR 9	71.54	Unnamed	SF Nooksack R	01	Culvert	67	LG		RND	PCC	1.1	0.76	0.76	17.56
992344	SR 9	76.91	Unnamed	Black Sl	01	Culvert	0	RR	22.10	RND	PCC	1.1	0.70	0.70	35.19
992345	SR 9	77.12	Black Sl	SF Nooksack R	01.0250	Culvert	67	RR	23.22	RND	PCC	1.1	0.70	0.70	18.37
992350	SR 9	77.43	Unnamed	Unnamed	01	Culvert	67	RR	12.91	RND	PCC	1.1	0.70	0.70	10.72
991842	SR 900	15.86	Green Cr	May Cr	08.0288	Culvert	0	RR		BOX	PCC	1.1	0.91	1.22	13.72
990432	SR 900	19.14	Unnamed	Tibbetts Cr	08.0169X	Culvert	67	LG		RND	CST	1.1	0.61	0.61	12.26
991185	SR 900	19.40	Unnamed	Tibbetts Cr	08.0175	Culvert	40	LG		BOX	PCC	1.1	0.91	0.91	11.58
991184	SR 900	20.09	Unnamed	Tibbetts Cr	08.0172	Culvert	30	RR	9.49	BOX	PCC	1.1	1.22	0.91	10.97
991723	SR 900	20.34	Unnamed	Tibbetts Cr	08.0171	Culvert	0	RR	12.47	BOX	PCC	1.1	1.52	0.94	10.67
996885	SR 908	5.33	Unnamed	Unnamed	08	Culvert	0	LG		BOX	CPC	1.1	1.22	0.91	60.82
996886	SR 908	5.40	Unnamed	Unnamed	08	Culvert	0	RR		BOX	CPC	1.1	1.22	0.91	74.78
996887	SR 908	5.69	Unnamed	Sammamish R	08.0104	Culvert	0	RR		BOX	CPC	1.1	1.85	1.22	74.30

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991821	SR 92	0.47	Stevens Cr	Lake Stevens	07.0147	Culvert	0	RR	22.00	RND	PCC	1.1	0.91	0.91	26.21
991827	SR 92	0.78	Unnamed	Lake Stevens	07.0150	Culvert	67	RR		RND	OTH	1.1	0.61	0.61	64.83
07.0148 1.30	SR 92	1.93	Catherine Cr	Stevens Cr	07.0148	Fishway	67	RR	24.76						
991830	SR 92	2.20	Unnamed	Catherine Cr	07	Culvert	33	LG		RND	PCC	1.1	0.61	0.61	22.32
995155	SR 92	7.78	Unnamed	Unnamed pond	07	Culvert	33	LG		RND	CST	1.1	0.69	0.69	36.22
102 N183	SR 96	0.47	North Cr	Sammamish R	08.0070	Culvert	33	RR	32.09	SQSH	CST	1.1	1.20	1.80	37.00
995209	SR 96	4.04	Unnamed	Unnamed	07	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	25.24
995214	SR 96	5.86	Unnamed	Unnamed	07	Culvert	0	RR		RND	PCC	1.1	0.46	0.46	17.58
995215	SR 96	5.98	Unnamed	Unnamed	07.0123	Culvert	33	RR		RND	PCC	1.1	0.76	0.76	15.99
995216	SR 96	6.09	Unnamed	Unnamed	07.0120	Culvert	0	RR		BOX	CPC	1.1	0.93	1.35	14.96
995217	SR 96	6.49	Unnamed	Unnamed to Ebey Sl	07	Culvert	0	RR		RND	CST	1.1	0.91	0.91	24.90
995963	SR 99	22.33	Riverton Cr	Duwamish R	09	Culvert	0	RR		BOX	CPC	1.1	0.97	0.91	34.36
996216	SR 99	49.01	unnamed	Lund's Gulch Cr	08	Culvert	33	RR		RND	CAL	1.1	0.91	0.91	47.45
993849	SR 99	51.45	Unnamed	Swamp Cr	08	Culvert	0	RR	14.79	RND	CAL	1.1	0.76	0.76	175.00
993834	SR 99	52.70	Swamp Cr	Sammamish R	08.0059	Culvert	67	RR	17.15	BOX	CPC	1.1	1.27	1.21	37.74
102 N192	SR 99	54.23	North Cr	Sammamish R	08.0070	Culvert	33	RR	21.31	RND	OTH	1.1	0.76	0.76	73.23
995046	US 2	3.59	Unnamed	Unnamed	07	Culvert	0	LG		RND	CST	1.1	0.91	0.91	94.61
995108	US 2	12.94	Unnamed	French Cr	07.0193	Culvert	67	RR	8.71	BOX	CPC	1.1	2.60	3.08	41.04
101NORT-32	US 2	20.53	Unnamed	Unnamed	07	Culvert	0	UD		RND	OTH	1.1	0.61	0.61	33.64
101OWEN-02	US 2	21.75	Unnamed	Skykomish R	07	Culvert	33	RR	16.55	RND	PCC	1.1	0.91	0.91	33.83
07.0939 0.40	US 2	23.08	Wagley's Cr	Skykomish R	07.0939	Fishway	33	RR							
991822	US 2	34.35	Unnamed	Skykomish R	07	Culvert	0	RR		RND	PCC	1.2	1.22	1.22	20.85
991825	US 2	36.73	Unnamed	SF Skykomish R	07	Culvert	0	LG		RND	CST	1.1	1.07	1.07	79.32
995058	US 2	44.23	Unnamed	SF Skykomish R	07	Culvert	0	LG		RND	PCC	1.1	1.51	1.51	41.01
995059	US 2	44.26	Unnamed	SF Skykomish R	07	Culvert	33	LG		RND	PCC	1.1	1.22	1.22	25.41
995000	US 2	45.47	Unnamed	SF Skykomish R	07.1298	Culvert	67	RR		RND	PCC	1.1	1.22	1.22	19.45
995060	US 2	47.75	Unnamed	SF Skykomish R	07	Culvert	33	LG		RND	PCC	1.1	1.51	1.51	15.98
995002	US 2	48.78	Unnamed	SF Skykomish R	07	Culvert	0	LG		RND	OTH	1.1	0.46	0.46	70.64
995020	US 2	48.94	Unnamed	SF Skykomish R	07	Culvert	0	RR		RND	PCC	1.1	1.22	1.22	15.37
995021	US 2	49.87	Unnamed	SF Skykomish R	07	Culvert	0	UD		OTH	OTH	1.1	1.22	1.22	46.64
995062	US 2	52.39	Unnamed	Tye R	07	Culvert	33	RR	4.86	RND	CST	1.1	1.22	1.22	35.25
995063	US 2	52.47	Unnamed	Tye R	07	Culvert	33	LG		RND	PCC	1.1	0.91	0.91	23.91
995023	US 2	52.70	Unnamed	Tye R	07	Culvert	33	RR		RND	PCC	1.1	1.22	1.22	17.69
995024	US 2	52.75	Unnamed	Tye R	07	Culvert	33	LG		RND	PCC	1.1	0.91	0.91	22.98
995027	US 2	54.90	Unnamed	Tye R	07.1631	Culvert	33	LG		BOX	CPC	1.1	1.85	2.17	28.76
995031	US 2	56.19	Unnamed	Tye R	07	Culvert	0	LG		RND	CST	1.1	0.91	0.91	29.23
995057	US 2	56.86	Unnamed	Tye R	07	Culvert	0	LG		RND	CST	1.1	0.61	0.61	53.82
995037	US 2	57.66	Unnamed	Tye R	07	Culvert	0	LG		RND	CST	1.1	0.61	0.61	47.18
995051	US 2	58.00	Unnamed	Tye R	07.1695	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	30.08

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
995053	US 2	59.62	Unnamed	Tye R	07.1705	Culvert	0	LG		RND	CST	1.1	0.76	0.76	36.03
995055	US 2	64.32	Unnamed	Unnamed to Tye R	07	Culvert	0	UD		BOX	CPC	1.1	1.30	1.30	49.49
995056	US 2	64.46	Unnamed	Tye R	07.1716	Culvert	0	UD		BOX	CPC	1.1	1.85	1.85	56.24
WSDOT District 2 - North Central															
992045	97AR	220.76	Byrd Canyon Cr	Columbia R	46.0380	Culvert	33	RR		RND	PCC	1.1	0.80	0.80	48.35
992043	97AR	222.02	Oklahoma Gulch	Columbia R	47.0002	Culvert	0	RR	6.33	RND	PCC	1.2	1.40	1.40	44.34
993416	SR 153	7.62	Squaw Cr	Methow R	48.0043	Culvert	0	RR	4.94	BOX	CPC	1.1	1.22	1.22	27.63
993423	SR 153	24.30	Leecher Canyon Cr	Methow R	48.0265	Culvert	0	RR	3.00	RND	PCC	1.1	0.45	0.45	42.00
993992	SR 155	60.76	Omak Cr	Okanogan R	49.0138	Culvert	67	RR	6.47	RND	PCC	1.2	1.22	1.22	19.60
993993	SR 155	60.92	Trail Cr	Omak Cr	49.0179	Culvert	33	RR	9.42	RND	PCC	1.1	1.22	1.22	17.30
993995	SR 155	62.41	Unnamed	Omak Cr	49.0173	Culvert	0	RR	3.48	RND	PCC	1.1	0.91	0.91	33.59
993997	SR 155	65.05	Clark Cr	Omak Cr	49.0165	Culvert	0	RR	6.49	RND	CST	1.1	0.76	0.76	34.30
993998	SR 155	65.59	Swimptkin Cr	Omak Cr	49.0160	Culvert	0	RR	10.85	RND	CST	1.1	0.91	0.91	21.18
992845	SR 155	66.94	Stapaloop Cr	Omak Cr	49.0152	Culvert	33	RR	16.31	RND	CST	1.1	1.90	1.90	45.51
994008	SR 155	71.10	Haley Cr	Omak Cr	49.0143	Culvert	33	UD		RND	CST	1.1	0.61	0.61	20.91
990288	SR 155	75.81	Mission Cr	Omak Cr	49.0139	Culvert	0	RR	6.67	BOX	CPC	1.1	2.45	2.45	42.89
991582	SR 17	126.50	Unnamed	Foster East Cr	50	Culvert	20	UD		RND	CST	1.1	1.22	1.22	36.58
990153	SR 17	131.30	Unnamed	Columbia R	50	Culvert	0	UD		BOX	PCC	1.1	1.22	1.37	21.95
990154	SR 17	132.10	Unnamed	Columbia R	50	Culvert	0	UD		BOX	PCC	1.1	1.22	1.22	22.25
994050	SR 173	11.80	Swamp Cr	Columbia R	49.0002	Culvert	67	RR		RND	CST	1.2	1.52	1.52	28.10
996890	SR 2	111.46	Unnamed	Wenatchee R	45.0072	Culvert	0	RR		ARCH	CST	1.1	1.17	1.84	37.47
993055	SR 20	163.61	Unnamed	Early Winters Cr	48	Culvert	0	LG		RND	CST	1.1	1.22	1.22	81.94
990342	SR 20	168.25	Pine Cr	Early Winters Cr	48.1528	Culvert	0	RR	5.44	SQSH	SPS	1.1	2.24	3.47	19.33
993163	SR 20	168.30	Unnamed	Early Winters Cr	48.0000	Culvert	0	LG		RND	CST	1.1	0.91	0.91	22.34
993171	SR 20	169.31	Unnamed	Early Winters Cr	48.0000	Culvert	0	LG		RND	CST	1.1	0.76	0.76	19.24
993179	SR 20	170.73	Silver Star Cr	Early Winters Cr	48.0000	Culvert	0	LG		ARCH	SPS	1.1	1.80	2.48	37.81
993184	SR 20	171.97	Unnamed	Early Winters Cr	48	Culvert	0	LG		RND	CST	1.1	1.22	1.22	27.10
990468	SR 20	173.16	Varden Cr	Early Winters Cr	48.1479	Culvert	0	RR	4.66	SQSH	SPS	1.1	2.38	5.50	31.10
993207	SR 20	174.98	Pekin Cr	Early Winters Cr	48.0000	Culvert	0	RR	3.05	SQSH	SPS	1.1	1.66	2.32	19.64
990228	SR 20	181.34	Little Boulder Cr	Methow R	48.1400	Fishway	0	RR	15.67						
993230	SR 20	185.93	Boesel Canyon Cr	Diversion Ditch	48	Culvert	0	RR	4.93	RND	CST	1.1	0.61	0.61	25.80
980378	SR 20	188.17	Unnamed	Methow R	48	Culvert	33	RR	7.72	SQSH	CST	1.1	0.61	0.91	24.37
980114	SR 20	205.84	Beaver Cr	Methow R	48.0307	Culvert	67	RR	43.61	BOX	CPC	1.2	1.83	1.83	15.00
980124	SR 20	206.85	Frazer Cr	Beaver Cr	48.0309	Culvert	67	RR	19.05	RND	CST	1.2	0.91	0.91	12.29
980131	SR 20	208.44	Unnamed	Frazer Cr	48.0309A	Culvert	0	RR	6.61	RND	CST	1.1	0.46	0.46	14.97
993405	SR 20	213.99	Frazer Cr	Beaver Cr	48.0309	Culvert	33	RR	3.29	RND	CST	1.1	0.61	0.61	18.30
993815	SR 20	215.96	Summit Cr	Loup Loup Cr	49.0054	Culvert	33	RR	2.17	RND	CST	1.1	0.91	0.91	114.20
993817	SR 20	218.48	Summit Cr	Loup Loup Cr	49.0054	Culvert	33	RR	4.11	RND	CST	1.1	0.91	0.91	18.90
990406	SR 20	219.38	Summit Cr	Loup Loup Cr	49.0054	Culvert	0	RR	5.78	RND	CST	1.1	1.37	1.37	29.10

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991687	SR 20	220.10	Unnamed	Summit Cr	49	Culvert	33	RR	4.65	RND	OTH	1.1	0.76	0.76	35.67
993818	SR 20	220.85	Summit Cr	Loup Loup Cr	49.0054	Culvert	0	LG		RND	PCC	1.1	1.22	1.22	23.40
990247	SR 20	223.18	Little Loup Cr	Loup Loup Cr	49.0052	Culvert	0	LG		OTH	OTH	1.1	3.19	2.00	112.48
990418	SR 20	224.49	Tallant Cr	Okanogan R	49.0065	Culvert	0	RR		RND	PCC	1.1	1.07	1.07	22.30
993824	SR 20	225.60	Tallant Cr	Okanogan R	49.0065	Culvert	33	RR		RND	PCC	1.1	1.52	1.52	25.92
990419	SR 20	226.27	Tallant Cr	Okanogan R	49.0065	Culvert	0	RR		BOX	CPC	1.1	2.49	1.18	25.50
990420	SR 20	226.96	Tallant Cr	Okanogan R	49.0065	Culvert	0	RR		RND	CST	1.1	1.83	1.83	31.98
990421	SR 20	227.22	Tallant Cr	Okanogan R	49.0065	Culvert	33	RR		RND	CST	1.3	0.76	0.76	17.80
994020	SR 20	263.40	Bonaparte Cr	Okanogan R	49.0246	Culvert	33	RR	3.89	BOX	CPC	1.1	1.86	3.06	29.96
994021	SR 20	263.62	Bonaparte Cr	Okanogan R	49.0246	Culvert	33	RR	4.21	BOX	CPC	1.1	1.86	3.06	28.82
994022	SR 20	264.08	Bonaparte Cr	Okanogan R	49.0246	Culvert	33	RR	4.89	BOX	CPC	1.1	1.84	3.06	29.91
994025	SR 20	265.57	Unnamed	Bonaparte Cr	49	Culvert	0	UD		RND	PCC	1.1	0.61	0.61	25.30
994030	SR 20	266.09	Bonaparte Cr	Okanogan R	49.0246	Culvert	33	LG		BOX	CPC	1.1	1.84	3.05	28.70
994031	SR 20	266.22	Bonaparte Cr	Okanogan R	49.0246	Culvert	67	RR	2.14	BOX	CPC	1.1	1.85	3.05	25.78
994035	SR 20	278.60	Bonaparte Cr	Okanogan R	49.0246	Culvert	33	RR	7.90	BOX	CPC	1.1	1.82	2.15	15.10
994037	SR 20	279.30	Bonaparte Cr	Okanogan R	49.0246	Culvert	0	RR	9.57	BOX	CPC	1.1	1.84	2.15	29.40
994043	SR 20	283.52	Unnamed	Bonaparte Cr	49	Culvert	67	RR		RND	CST	1.1	0.76	0.76	20.40
994047	SR 20	284.52	Unnamed	Bonaparte Cr	49	Culvert	67	RR		RND	PCC	1.1	0.76	0.76	23.00
990993	SR 243	0.00	Unnamed	Columbia R	41	Culvert	0	LG		RND	CST	1.1	1.07	1.07	22.86
991762	SR 26	1.79	Sand Hollow Cr	Columbia R	41.2151	Culvert	0	RR	8.31	RND	PCC	1.2	1.22	1.22	76.20
991763	SR 26	21.11	Unnamed	Crab Cr	43	Culvert	0	LG		RND	PCC	1.2	0.91	0.91	39.93
990570	SR 26	29.85	Unnamed	Lower Crab Cr	41	Culvert	33	RR		RND	CAL	1.1	2.50	2.50	20.53
990571	SR 26	29.92	Unnamed	Lower Crab Cr	41	Culvert	10	RR		RND	CST	1.1	1.10	1.10	26.82
991947	SR 28	2.28	Sand Canyon Springs	Columbia R	44.0756	Culvert	0	RR		BOX	CPC	1.1	1.52	1.52	19.81
990882	SR 28	22.27	Baird Springs	Columbia R	40	Fishway	0	RR	7.01						
990282	US 2	70.21	Mill Cr	Nason Cr	45.0956	Culvert	0	RR	19.09	RND	CST	1.1	3.66	3.66	55.67
992755	US 2	82.06	Unnamed	Nason Cr	45	Culvert	0	RR	4.23	RND	CST	1.1	0.91	0.91	
996888	US 2	107.43	Unnamed	Wenatche R	45.0214	Culvert	0	LG		OTH	OTH	1.1	0.45	1.90	115.91
991948	US 97	152.92	Mill Cr	Swauk Cr	39.1188	Culvert	0	RR	3.06	RND	PCC	1.1	0.91	0.91	111.86
990414	US 97	159.72	Swauk Cr	Yakima R	39.1157	Culvert	33	RR	7.16	RND	SPS	1.1	2.44	2.44	36.58
990444	US 97	164.70	Tronsen Cr	Peshastin Cr	45.0346	Culvert	0	RR	5.61	RND	PCC	1.2	0.61	0.61	67.06
990445	US 97	165.77	Tronsen Cr	Peshastin Cr	45.0346	Culvert	0	RR	7.50	RND	CST	1.1	1.07	1.07	36.58
990446	US 97	166.23	Tronsen Cr	Peshastin Cr	45.0346	Culvert	0	RR	8.12	RND	CST	1.1	1.07	1.07	30.48
992051	US 97	260.28	Swamp Cr	Columbia R	49	Culvert	0	RR		RND	PCC	1.1	1.24	1.24	
993915	US 97	261.24	Unnamed	Columbia R	49.0000	Culvert	0	RR	5.17	BOX	CPC	1.1	2.42	2.44	91.90
990217	US 97	299.03	Johnson Cr	Okanogan R	49	Culvert	33	RR	4.88	SQSH	CST	1.1	1.00	1.90	21.64
993964	US 97	324.67	Mosquito Cr	Okanogan R	49.0321	Culvert	67	RR		RND	PCC	1.1	2.13	2.13	16.70
991643	US 97	325.87	Unnamed	Okanogan R	49	Culvert	67	RR		RND	PCC	1.1	1.22	1.22	28.10
993971	US 97	328.16	Whistler Canyon Cr	Okanogan R	49	Culvert	33	RR	2.65	RND	PCC	1.1	0.91	0.91	35.30

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
WSDOT District 3 - Olympic															
15.0201 0.90	SR 166	4.52	Wilson Cr	Sinclair Inlet	15.0201	Culvert	33	RR		BOX	CPC	1.1	1.22	1.22	94.90
990907	105SP WESTPT	32.78	Unnamed	Grays Harbor	22.1390	Culvert		RR		OTH	OTH	1.2	0.91	0.91	39.10
996578	Access to shop		Unnamed	Green Cr	19	Culvert	33	LG		RND	PCC	1.1	0.61	0.61	16.67
991499	I-5	94.60	Unnamed	Beaver Cr	23	Culvert	0	RR	12.31	RND	PCC	1.1	1.22	1.22	64.52
990028	I-5	94.99	Beaver Cr	Black R	23.0667	Culvert	67	UD		BOX	PCC	1.2	3.05	3.05	64.53
990199	I-5	105.85	Indian Cr	Moxlie Cr	13.0026	Culvert	0	RR	28.26	RND	CST	1.1	0.91	0.91	100.58
990200	I-5	106.80	Indian Cr	Moxlie Cr	13.0026	Culvert	0	RR	19.33	RND	CST	1.1	0.91	0.91	85.34
996426	SR 122	32.85	Unnamed	Joe Cr	19	Culvert	33	LG		RND	PCC	1.1	0.76	0.76	18.50
115 MC180	SR 101	348.21	Unnamed	Mill Cr	14	Culvert	33	UD		RND	CST	1.1	1.00	1.00	50.00
162173	SR 104	4.25	Unnamed	Barnhouse Cr	17.0213b3	Culvert	33	RR	12.58	RND	CST	1.1	0.76	0.76	93.88
991978	SR 104	5.75	Unnamed	Chimacum Cr	17.0212	Culvert	33	RR		RND	CAL	1.1	0.80	0.80	52.81
991983	SR 104	12.05	Unnamed	Hood Canal	17	Culvert	0	LG		RND	CST	1.1	0.63	0.63	65.51
162192	SR 104	12.57	Unnamed	Squamish Harbor	17	Culvert	0	RR	12.49	RND	CST	1.1	0.91	0.91	103.33
992196	SR 104	12.70	Unnamed	Squamish Harbor	17.0185	Culvert	0	RR	12.89	RND	CAL	1.1	0.70	0.70	60.48
990710	SR 104	16.55	Unnamed	Port Gamble	15	Culvert	67	RR	13.81	RND	PCC	1.1	0.91	0.91	39.62
992200	SR 104	17.82	Unnamed	Port Gamble	15	Culvert	0	RR		BOX	PCC	1.1	0.92	0.92	33.21
992202	SR 104	19.39	Unnamed	Port Gamble	15	Culvert	0	RR	4.37	RND	PCC	1.1	0.83	0.83	30.21
992205	SR 104	22.47	Grovers Cr	Miller Bay	15.0299	Culvert	33	RR		BOX	CPC	1.1	0.92	0.92	19.30
992207	SR 104	22.95	Unnamed	Appletree Cove	15.0309	Culvert	0	RR	17.22	BOX	CPC	1.1	0.92	0.92	23.60
992208	SR 104	23.37	Unnamed	Appletree Cove	15	Culvert	0	LG	4.37	RND	PCC	1.1	0.45	0.45	24.91
991301	SR 105	31.38	Unnamed	South Bay	22.1321	Culvert	33	RR	1.78	RND	PCC	1.1	1.07	1.07	21.19
993007	SR 105	31.79	Unnamed	South Bay	22	Culvert	0	LG		RND	PCC	1.1	0.65	0.65	29.37
990905	SR 105	36.26	Unnamed	South Bay	22	Culvert	33	LG		RND	PCC	1.1	0.61	0.61	48.39
980275	SR 105	38.10	Unnamed	Johns R	22	Culvert	0	RR	12.85	RND	PCC	1.1	0.61	0.61	38.10
980274	SR 105	38.28	Unnamed	Johns R	22	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	22.86
994782	SR 105	38.90	Unnamed	Grays Harbor	22.1269	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	59.50
991298	SR 105	40.50	Unnamed	South Bay	22	Culvert	0	LG		RND	PCC	1.1	1.07	1.07	73.15
991302	SR 105	41.76	Unnamed	Grays Harbor	22	Culvert	0	LG		RND	PCC	1.1	0.46	0.46	23.25
990384	SR 106	0.85	Skobob Cr	Skokomish R	16.0004	Culvert	67	RR	19.96	BOX	PCC	1.1	1.83	1.83	20.16
996115	SR 106	2.07	Unnamed	Unnnamed	16	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	14.69
996116	SR 106	2.36	Unnamed	Unnnamed	16	Culvert	33	RR		RND	PCC	1.1	0.46	0.46	12.34
991244	SR 106	2.95	Unnamed	Skokomish R	16.0002	Culvert	0	RR	10.76	RND	PCC	1.1	0.91	0.91	12.19
996380	SR 106	3.80	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	14.85
996383	SR 106	4.11	Unnamed	Hood Canal	16	Culvert	0	RR		RND	PCC	1.1	0.46	0.46	16.14
996384	SR 106	4.35	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.46	0.46	12.11
996417	SR 106	4.35	Unnamed	Hood Canal	16	Other	0	LG							
115 MC153	SR 106	5.75	Unnamed	Hood Canal	14	Culvert	67	UD		BOX	PCC	1.1	0.95	1.85	18.36
115 MC176	SR 106	7.10	Alderbrook Cr	Hood Canal	14	Culvert		UD		RND	PCC	1.1	0.70	0.85	30.85

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
115 MC160	SR 106	7.32	Unnamed	Hood Canal	14	Culvert	0	UD		RND	PCC	1.1	0.60	0.60	12.39
991245	SR 106	13.84	Unnamed	Hood Canal	14.0131	Culvert	0	UD		BOX	PCC	1.2	1.04	1.22	14.94
115 MC190	SR 106	14.72	Unnamed	Hood Canal	14	Culvert	33	UD		RND	CPC	1.1	0.65	0.65	11.99
115 MC218	SR 106	19.57	Unnamed	Hood Canal	14	Culvert	0	UD		BOX	OTH	1.1	1.00	1.15	11.00
996412	SR 106 ROW	2.33	Unnamed	Unnamed	16	Other	0	RR							
993043	SR 107	0.76	Unnamed	Little North R	24	Culvert	67	RR	9.56	RND	CAL	1.1	0.75	0.75	29.19
990911	SR 107	3.29	Unnamed	Preachers Sl	22	Culvert	67	LG		RND	PCC	1.1	0.61	0.61	19.55
991727	SR 107	5.49	Unnamed	Chehalis R	22	Culvert	0	LG		RND	PCC	1.1	0.46	0.46	27.43
993659	SR 108	0.18	Unnamed	EF Wildcat Cr	22	Culvert	67	RR	8.00	RND	PCC	1.1	0.76	0.76	16.43
115 MC043	SR 108	5.45	Unnamed	Skookum Cr	14	Culvert	33	UD		RND	PCC	1.1	0.90	0.90	26.72
991672	SR 108	7.60	Unnamed	Skookum Cr	14.0020A	Culvert	0	RR	9.84	RND	CST	1.1	1.52	1.52	16.15
990921	SR 109	2.71	Unnamed	Grays Harbor	22	Culvert	67	RR		RND	PCC	1.1	0.46	0.46	15.84
991835	SR 109	3.41	Unnamed	Grays Harbor	22	Culvert	33	RR	9.21	RND	PVC	1.1	0.61	0.61	42.37
994806	SR 109	13.39	Unnamed	Kurtz Sl	22	Culvert	33	LG		RND	OTH	1.1	0.83	0.83	48.27
991265	SR 109	26.10	Unnamed	Pacific Ocean	21.0764	Culvert	0	RR	13.84	RND	SST	1.1	1.22	1.22	22.00
991272	SR 109	33.10	Unnamed	Pacific Ocean	21.0728	Culvert	0	RR	17.18	RND	PCC	1.1	1.52	1.52	45.72
991266	SR 109	33.40	Unnamed	Pacific Ocean	21.0000B	Culvert	0	RR	11.36	RND	PCC	1.1	0.91	0.91	29.26
990922	SR 109	35.60	Unnamed	Pacific Ocean	21.0718	Culvert	0	RR	9.46	RND	PCC	1.1	0.61	0.61	17.98
991271	SR 109	36.30	Unnamed	Pacific Ocean	21.0716	Culvert	0	RR	14.56	RND	PCC	1.1	1.07	1.07	16.46
991270	SR 109	36.40	Unnamed	Pacific Ocean	21.0715	Fishway	67	RR	15.79	RND	PCC	1.1	1.22	1.22	17.07
990923	SR 109	37.10	Unnamed	Pacific Ocean	21	Culvert	20	UD		RND	PCC	1.1	0.91	0.91	31.70
990927	SR 109	39.20	Unnamed	Pacific Ocean	21	Culvert	0	UD		RND	PCC	1.1	1.07	1.07	30.48
990205	SR 112	5.17	Jansen Cr	Strait of Juan de Fuca	19.0228	Culvert	67	RR		RND	PCC	1.2	1.82	1.82	17.34
990559	SR 112	6.95	Unnamed	Strait of Juan de Fuca	19	Culvert	67	RR		RND	PCC	1.1	1.83	1.83	13.54
991259	SR 112	12.26	Unnamed	Hoko R	19.0148A	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	16.13
996684	SR 112	17.14	Unnamed	Clallam R	19	Culvert	0	RR		RND	CST	1.1	1.08	1.08	112.26
996691	SR 112	19.36	Unnamed	Clallam R	19	Culvert	0	LG		RND	OTH	1.1	0.46	0.46	15.53
991731	SR 112	21.10	Unnamed	Green Cr	19	Culvert	0	RR	9.81	RND	CST	1.1	1.52	1.52	19.81
996552	SR 112	23.07	Unnamed	Green Cr	19	Culvert	67	LG		RND	CST	1.1	0.61	0.61	25.36
996554	SR 112	24.26	Unnamed	Pysht R	19	Culvert	33	RR		RND	PCC	1.1	0.46	0.46	15.29
990714	SR 112	24.91	Unnamed	Pysht R	19.0113K	Culvert	0	RR	28.00	RND	PCC	1.2	0.91	0.91	17.06
996556	SR 112	25.20	Unnamed	Pysht R	19	Culvert	0	RR		RND	OTH	1.1	0.76	0.76	40.86
991730	SR 112	25.60	Unnamed	Pysht R	19	Culvert	67	RR		RND	PCC	1.1	0.76	0.76	19.34
991732	SR 112	29.12	Indian Cr	Strait of Juan de Fuca	19.0112	Culvert	0	RR	0.00	RND	CST	1.1	0.61	0.61	39.62
990941	SR 112	29.66	Unnamed	Butler Cr	19	Culvert	0	RR	14.20	RND	PCC	1.1	0.76	0.76	44.20
991258	SR 112	29.71	Butler Cr	Butler Cove	19.0112	Culvert	0	RR	16.02	RND	PCC	1.1	0.76	0.76	47.24
996424	SR 112	31.46	Unnamed	Jim Cr	19	Culvert	0	RR		RND	SST	1.1	0.91	0.91	46.01
996427	SR 112	33.02	Unnamed	Joe Cr	19	Culvert	0	LG		RND	CST	1.1	0.61	0.61	22.28
990214	SR 112	33.21	Joe Cr	Strait of Juan de Fuca	19.0109	Culvert	67	RR	21.84	RND	SPS	1.2	1.52	1.52	35.36

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
996431	SR 112	34.20	Unnamed	Deep Cr	19	Culvert	33	RR		RND	PCC	1.1	0.76	0.76	69.51
996432	SR 112	34.28	Unnamed	Deep Cr	19	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	99.85
990715	SR 112	35.28	Unnamed	Straits of Juan de Fuca	19	Culvert	0	LG		RND	CST	1.1	1.21	1.21	17.77
996528	SR 112	44.32	Unnamed	Murdock Cr	19.0079	Culvert	0	RR		RND	OTH	1.1	0.91	0.91	28.79
996529	SR 112	45.66	Unnamed	Murdock Cr	19	Culvert	67	LG		RND	OTH	1.2	0.61	0.61	16.61
990304	SR 112	47.10	Nelson Cr	Lyre R	19.0032	Culvert	0	RR	0.00	BOX	CPC	1.1	1.53	1.83	28.65
996534	SR 112	48.22	Unnamed	Field Cr	19	Culvert	33	RR		RND	OTH	1.1	0.36	0.36	12.89
990144	SR 112	48.49	Field Cr	Strait of Juan de Fuca	19.0026	Fishway	33	RR							
990480	SR 112	49.48	Whiskey Cr	Strait of Juan de Fuca	19.0020	Fishway	33	RR	8.05						
996536	SR 112	49.62	EF Whiskey Cr	Whiskey Cr	19.0022	Culvert	33	RR		RND	CST	1.1	1.22	1.22	35.54
996539	SR 112	51.53	Itsa Cr	Uptha Cr	19	Culvert	0	RR		RND	OTH	1.1	0.46	0.46	19.75
991738	SR 112	51.60	Uptha Cr	Salt Cr	19	Culvert	33	RR		RND	OTH	1.1	0.61	0.61	22.28
991660	SR 112	52.90	Nordstrom Cr	Salt Cr	19.0012	Culvert	67	RR	8.57	RND	CST	1.1	1.52	1.52	36.58
990713	SR 112	54.35	Bear Cr	Salt Cr	19.0014	Culvert	33	RR	19.01	BOX	PCC	1.1	1.22	1.83	16.42
991686	SR 112	56.50	Unnamed	Coville Cr	19.0003	Culvert	0	RR	17.24	BOX	CPC	1.1	2.44	2.44	51.82
996541	SR 112	57.05	Unnamed	Coville Cr	19	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	49.90
990092	SR 112	57.61	Coville Cr	Strait of Juan de Fuca	19.0001	Culvert	0	RR		RND	PCC	1.2	1.22	1.22	39.93
995802	SR 112	60.27	Unnamed	Elwha R	18	Culvert	0	LG		RND	CST	1.1	0.91	0.91	26.76
995803	SR 112	60.71	Unnamed	Elwha R	18.0277	Culvert	33	RR		RND	CST	1.1	1.22	1.22	43.52
991733	SR 113	0.90	Unnamed	Beaver Cr	20	Culvert	10	RR	8.80	RND	CST	1.1	1.22	1.22	64.01
996563	SR 113	6.55	Unnamed	Unnamed	19	Culvert	0	LG		SQSH	CST	1.1	1.17	1.29	
996571	SR 113	8.35	Unnamed	Pysht R	19	Culvert	0	RR		RND	CST	1.1	0.91	0.91	45.91
996573	SR 113	9.70	Unnamed	Pysht R	19	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	20.56
996574	SR 113	9.81	Unnamed	Pysht R	19	Culvert	33	RR		RND	PCC	1.2	1.22	1.22	62.28
996414	SR 115 ROW	2.07	Unnamed	Unnamed	16	Other	0	RR							
995908	SR 119	2.76	Dow Cr	Lk Kokanee	16.0112	Culvert	0	RR		ELL	SPS	1.1	3.15	2.94	30.76
995019	SR 119	3.98	Unnamed	Skokomish R	16	Culvert	33	RR		RND	CST	1.1	1.25	1.25	10.40
995913	SR 119	5.66	Unnamed	Lk Cushman	16	Culvert	33	LG		RND	OTH	1.1	0.30	0.30	10.22
995915	SR 119	7.02	Unnamed	Lk Cushman	16	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	9.75
995916	SR 119	7.80	Unnamed	Lk Cushman	16	Culvert	0	RR		RND	CST	1.1	1.25	1.25	17.90
995917	SR 119	8.20	Unnamed	Big Cr	16	Culvert	33	RR		RND	CST	1.1	0.61	0.61	32.12
995918	SR 119	8.35	Unnamed	Big Cr	16	Culvert	67	LG		RND	CAL	1.1	0.61	0.61	12.22
995924	SR 119	10.80	Unnamed	Lk Cushman	16	Culvert	0	LG		RND	CST	1.1	0.46	0.46	21.58
991939	SR 16	14.63	Unnamed	McCormick Cr	15	Culvert	0	RR	21.29	RND	PCC	1.1	0.76	0.76	131.10
991941	SR 16	14.86	McCormick Cr	Henderson Bay	15.0065	Culvert	33	RR	21.42	RND	OTH	1.1	1.22	1.22	67.11
991942	SR 16	15.02	Unnamed	McCormick Cr	15.0066	Culvert	0	RR	24.47	RND	CST	1.1	0.46	0.46	78.60
105 K051618a	SR 16	16.59	Goodnough Cr	Henderson Bay	15.0063	Culvert	33	RR		RND	CST	1.1	1.25	1.25	141.57
991866	SR 16	19.54	Unnamed	Burley Cr	15	Culvert	0	RR	2.58	RND	PCC	1.1	0.91	0.91	81.59
991516	SR 16	20.36	Unnamed	Burley Cr	15	Fishway	33	RR	8.04						

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991867	SR 16	20.44	Unnamed	Burley Cr	15	Fishway	33	RR							
996752	SR 16	21.58	Unnamed	Burley Cr	15	Culvert	0	RR		RND	OTH	1.1	1.07	1.07	89.50
990050	SR 16	22.70	Burley Cr	Henderson Bay	15.0056	Culvert	67	RR		RND	PCC	1.1	1.37	1.37	137.16
990270	SR 16	27.10	Unnamed	Ross Cr	15.0210	Culvert	0	RR	26.45	RND	CST	1.1	1.22	1.22	140.21
991670	SR 16	28.60	Unnamed	Sinclair Inlet	15.0215	Culvert	0	RR		RND	OTH	1.1	0.76	0.76	162.00
991944	SR 16 Ext 15 EB	15.21	McCormick Cr	Henderson Bay	15.0065	Culvert	33	RR	34.69	RND	CST	1.1	1.52	1.52	57.12
990366	SR 160	2.29	Salmonberry Cr	Long Lk	15.0188	Culvert	33	RR		SQSH	SPS	1.1	1.71	2.26	18.80
991567	SR 160	4.50	Unnamed	Curley Cr	15.0186	Culvert	0	RR		RND	CST	1.1	0.76	0.76	53.38
996955	SR 160	6.06	Unnamed	Puget Sound	15.0181	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	35.60
105 S011918a	SR 161	32.78	Unnamed	Hylebos Cr	10.0015	Culvert	33	LG		RND	PCC	1.1	0.61	0.61	41.71
991215	SR 162	4.82	Ball Cr	Puyallup R	10.0405	Culvert	67	RR	14.01	RND	OTH	1.2	0.45	0.45	18.35
105 R021121a	SR 162	11.04	Unnamed	Carbon R	10	Culvert	67	RR		BOX	CPC	1.1	0.63	0.95	9.16
105 R032517a	SR 162	12.42	Rauch Cr	Carbon R	10	Culvert	67	RR		RND	CST	1.1	0.76	0.76	14.19
105 R032918d	SR 162	12.44	Rauch Cr	Carbon R	10	Culvert	67	RR		RND	CST	1.1	0.76	0.76	14.25
105 R033020A	SR 162	16.66	Unnamed	South Prairie Cr	10	Culvert	67	RR		RND	PCC	1.2	0.76	0.76	11.69
105 R040517a	SR 162	19.11	Unnamed	South Prairie Cr	10	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	49.30
105 R033018B	SR 165	19.76	Spiketon Cr	South Prairie Cr	10.0449	Culvert	67	RR		BOX	CPC	1.1	1.25	1.15	10.55
991211	SR 167	10.00	Milwaukee Canal	White R	10.0032	Culvert	67	RR		ARCH	SPS	1.2	2.70	4.31	64.20
105 R050320b	SR 167 Ext 8	10.67	Milwaukee Canal	White R	10.0034	Culvert	67	RR		BOX	CPC	1.2	2.40	3.95	39.41
996288	SR 167 Ext 8 NB	0.04	Unnamed	Milwaukee Canal	10	Culvert	33	RR		RND	CST	1.1	1.37	1.37	88.50
105 R050320a	SR 167 NB Ext 8	0.16	Jovita Cr	Milwaukee Canal	10.0034	Fishway	67	RR		SQSH	CST	1.2	1.85	2.36	113.45
995526	SR 19	2.49	Unnamed	Ludlow Cr	17	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	17.92
995529	SR 19	2.93	Unnamed	Ludlow Cr	17	Culvert	33	RR		RND	OTH	1.1	0.38	0.38	17.96
995532	SR 19	3.48	Unnamed	Ludlow Cr	17	Culvert	33	RR		RND	PCC	1.1	0.46	0.46	22.29
990711	SR 19	4.30	Swansonville Cr	EF Chimacum	17.0205A	Culvert	0	RR	14.11	RND	PCC	1.1	0.61	0.61	24.38
991579	SR 19	6.82	Unnamed	EF Chimacum Cr	17	Culvert	33	UD		RND	PCC	1.1	0.61	0.61	19.44
995741	SR 19	8.12	Unnamed	Chimacum Cr	17	Culvert	33	UD		RND	PCC	1.1	0.91	0.91	24.97
995743	SR 20	0.65	Unnamed	Discovery Bay	17.0218	Culvert	0	RR		RND	CPC	1.1	0.92	0.92	60.70
995745	SR 20	1.12	Unnamed	Discovery Bay	17	Culvert	0	LG		BOX	CPC	1.1	0.92	0.92	32.44
995748	SR 20	1.39	Unnamed	Discovery Bay	17.0217	Culvert	0	LG		BOX	CPC	1.1	0.92	0.92	
995753	SR 20	3.67	Unnamed	Discovery Bay	17	Culvert	0	RR		BOX		1.1	0.92	0.92	44.16
995759	SR 20	11.63	Kah Tai Sl	Port Townsend Bay	17	Culvert	33	RR		RND	PCC	1.1	0.30	0.30	339.70
991987	SR 3	21.29	Unnamed	Case Inlet	15	Culvert	33	LG		RND	CST	1.1	0.45	0.45	40.38
991795	SR 3	23.94	Unnamed	Hood Canal	14	Culvert	0	RR		RND	PCC	1.1	0.60	0.60	24.23
996734	SR 3	25.15	Unnamed	Hood Canal	15.0123	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	15.91
991728	SR 3	29.63	Unnamed	Union R	15.0512	Culvert	0	RR	9.70	BOX	PCC	1.1	1.22	1.22	13.72
991992	SR 3	31.17	Unnamed	E F Union R	15	Culvert/ Dam	0	UD		BOX	CPC	1.1	1.25	1.25	26.61
990168	SR 3	32.10	Gorst Cr	Sinclair Inlet	15.0216	Culvert	33	RR	10.49	BOX	CPC	1.1	1.25	1.25	53.00
991993	SR 3	32.10	Gorst Cr	Puget Sound	15.0216	Culvert/ Dam	33	RR	10.49	RND	CAL	1.1	0.60	0.60	6.10

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991585	SR 3	34.27	Unnamed	Gorst Cr	15.0217	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	68.71
996508	SR 3	38.41	Unnamed	Puget Sound	15.0226	Culvert	0	RR		RND	PCC	1.1	1.07	1.07	359.25
996796	SR 3	39.45	Unnamed	Dyes Inlet	15	Culvert	0	LG		RND	CST	1.1	0.61	0.61	85.24
15.0229 0.10	SR 3	40.96	Chico Cr	Dyes Inlet	15.0229	Fishway	67								
996742	SR 3	41.52	Unnamed	Dyes Inlet	15.0241	Fishway	0	RR							
996745	SR 3	41.81	Unnamed	Dyes Inlet	15	Fishway	0	RR							
996747	SR 3	42.21	Unnamed	Dyes Inlet	15.0243	Fishway	0	RR							
996748	SR 3	42.56	Unnamed	Dyes Inlet	15.0244	Culvert	0	RR		RND	OTH	1.1	1.22	1.22	223.89
996856	SR 3	43.58	Koch Cr	Dyes Inlet	15.0245	Culvert	0	UD		OTH	CST	1.1	0.91	0.91	
990708	SR 3	44.60	Unnamed	Strawberry Cr	15.0247	Culvert	0	RR	15.51	RND	CST	1.1	1.22	1.22	93.88
993013	SR 3	46.09	Unnamed	Clear Cr	15	Culvert	33	RR	10.35	RND	CAL	1.1	0.61	0.61	112.73
996801	SR 3	46.82	Unnamed	Clear Cr	15	Culvert	0	RR		RND	CAL	1.1	0.46	0.46	100.78
996804	SR 3	49.48	Big Scandia	Liberty Bay	15.0280	Culvert	33	RR		RND	CST	1.1	1.37	1.37	66.38
991241	SR 3	50.85	SF Johnson Cr	Johnson Cr	15.0282	Culvert	0	RR	6.19	RND	CST	1.1	0.91	0.91	182.88
990218	SR 3	50.94	MF Johnson Cr	Liberty Bay	15.0283	Culvert	0	RR	14.43	RND	CST	1.1	1.52	1.52	121.92
991744	SR 3	52.21	Johnson Cr	Liberty Bay	15.0283	Culvert	0	RR	9.06	RND	CST	1.1	0.92	0.92	67.37
991242	SR 3	57.23	Unnamed	Kinman Cr	15	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	27.26
991613	SR 3	57.87	Unnamed	Hood Canal	15	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	30.63
991240	SR 3	58.21	Unnamed	Hood Canal	15	Culvert	0	RR	25.21	RND	PCC	1.1	0.61	0.61	27.43
990395	SR 3	58.49	Spring Cr	Hood Canal	15.0364	Culvert	0	RR	13.37	RND	PCC	1.1	0.91	0.91	33.20
996810	SR 3	59.39	Unnamed	Hood Canal	15.0363	Culvert	0	LG		RND	OTH	1.1	0.61	0.61	80.92
991612	SR 3	59.52	Unnamed	Hood Canal	15.0361	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	40.14
996811	SR 3	59.55	Unnamed	Unnnamed	15.0362	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	36.58
991907	SR 3 ROW	40.97	Unnamed	Chico Cr	15.0240	Culvert	33	RR		RND	CST	1.1	0.91	0.91	14.64
996798	SR 3 SB Austin Dr	0.10	Unnamed	Dyes Inlet	15.0228	Culvert	0	RR		RND	CST	1.1	0.61	0.61	156.31
996794	SR 3 SB Off Ramp	0.27	Unnamed	Chico Cr	15.0240	Culvert	0	RR		RND	OTH	1.1	0.61	0.61	129.93
996699	SR 300	2.36	Unnamed	Union R	15	Culvert	67	RR		RND	OTH	1.1	1.22	1.22	13.47
996700	SR 300	2.38	Unnamed	Union R	15	Culvert	67	LG		RND	PCC	1.1	0.46	0.46	15.88
991520	SR 302	0.60	Unnamed	Case Inlet	14.0108	Culvert	60	UD		RND	PCC	1.1	0.91	0.91	18.29
991559	SR 302	0.90	Unnamed	North Bay	15.0001	Culvert	0	RR	11.44	RND	CST	1.1	0.76	0.76	25.91
996763	SR 302	1.25	Unnamed	Coulter Cr	15	Culvert	0	LG		RND	CST	1.2	0.46	0.46	30.98
996765	SR 302	1.86	Unnamed	North Bay	15	Culvert	0	RR		RND	OTH	1.1	0.46	0.46	11.46
991522	SR 302	2.10	Unnamed	North Bay	15	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	14.02
991239	SR 302	2.36	Unnamed	Case Inlet	15	Culvert	0	RR		RND	CST	1.1	0.46	0.46	14.22
991523	SR 302	2.48	Unnamed	North Bay	15	Culvert	0	RR		RND	CST	1.1	0.91	0.91	16.41
991526	SR 302	4.60	Unnamed	Case Inlet	15	Culvert	0	LG		RND	OTH	1.1	0.61	0.61	19.24
991527	SR 302	5.50	Unnamed	Rocky Bay	15	Culvert	33	RR		RND	PCC	1.1	1.37	1.37	57.85
15.0051 0.10	SR 302	11.36	Little Minter Cr	Minter Cr	15.0051	Fishway	67								
15.0051 0.20	SR 302	11.42	Little Minter Cr	Minter Cr	15.0051	Fishway	67								

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
996783	SR 302	15.95	Unnamed	Henderson Bay	15	Culvert	33	RR		RND	PCC	1.1	0.76	0.76	63.09
105 K051518a	SR 302	16.15	Goodnough Cr	Henderson Bay	15.0063	Culvert	33	RR		RND	PCC	1.1	1.38	1.38	63.63
996785	SR 302	16.44	Unnamed	Henderson Bay	15	Culvert	0	LG		RND	PCC	1.1	0.31	0.31	122.00
994085	SR 303 off-ramp	0.16	Hoot Cr	Barker Cr	15.0256C	Culvert	67	RR		RND	CST	1.2	0.91	0.91	18.96
994086	SR 303 on-ramp	0.05	Hoot Cr	Barker Cr	15.0256C	Culvert	33	RR		RND	CST	1.2	0.91	0.91	36.65
994320	SR 305	0.38	Unnamed	Eagle Harbor	15.0324	Culvert	0	RR	17.91	RND	OTH	1.1	1.22	1.22	103.78
994324	SR 305	0.73	Unnamed	Eagle Harbor	15.0324	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	49.69
994325	SR 305	2.44	Unnamed	Murden Cove	15.0321	Culvert	33	RR	29.44	BOX	CPC	1.1	1.22	1.52	46.41
994326	SR 305	3.73	Unnamed	Murden Cove	17.0344	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	39.68
991958	SR 305	7.28	Klebeal Cr	Agate Passage	15.0296	Culvert	0	RR	29.48	RND	PCC	1.1	1.22	1.22	61.35
994327	SR 305	8.94	Unnamed	Liberty Bay	15.0293	Culvert	0	RR		RND	PCC	1.2	0.91	0.91	89.27
990709	SR 305	9.60	Unnamed	Liberty Bay	15.0291	Culvert	0	RR	24.15	RND	PCC	1.2	0.91	0.91	70.10
991742	SR 305	9.88	Bjorgen Cr	Liberty Bay	15.0290	Culvert	0	RR	17.21	RND	PCC	1.1	0.91	0.91	39.62
990998	SR 305	11.62	SF Dogfish Cr	Dogfish Cr	15	Culvert	0	RR	15.70	RND	PCC	1.1	0.61	0.61	42.82
991853	SR 305	12.10	SF Dogfish Cr	Dogfish Cr	15	Culvert	67	RR		RND	PCC	1.1	0.91	0.91	22.57
991854	SR 305	12.29	SF Dogfish Cr	Dogfish Cr	15	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	32.00
991855	SR 305	12.59	Unnamed	SF Dogfish Cr	15	Culvert	67	RR		RND	PCC	1.1	0.46	0.46	24.13
990122	SR 307	0.07	Dogfish Cr	Liberty Bay	15.0285	Culvert	67	RR		RND	PCC	1.1	1.50	1.50	16.89
990123	SR 307	0.49	Dogfish Cr	Liberty Bay	15.0285	Culvert	33	RR		RND	PCC	1.1	1.21	1.21	14.68
991997	SR 307	0.98	Unnamed	Unnamed	15	Culvert	0	RR	11.49	RND	PCC	1.1	0.45	0.45	16.53
991998	SR 307	0.98	Unnamed	Unnamed	15	Culvert	0	RR	11.50	RND	PCC	1.1	0.30	0.30	9.52
991572	SR 307	1.45	Unnamed	Dogfish Cr	15.0286	Culvert	33	RR	33.73	RND	CST	1.1	1.21	1.21	33.82
991851	SR 307	2.50	Unnamed	Gamble Cr	15.0358	Culvert	0	RR	9.23	RND	OTH	1.1	0.45	0.45	336.00
996931	SR 308	0.30	Clear Cr	Puget Sound	15.0249	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	34.13
990235	SR 308	0.94	Big Scandia Cr	Puget Sound	15.0280	Culvert	33	RR		RND	CST	1.1	1.83	1.83	46.98
15.0280 1.00	SR 308	1.15	Big Scandia Cr	Liberty Bay	15.0280	Fishway	67								
992008	SR 308	1.33	Little Scandia Cr	Liberty Bay	15.0279	Culvert	0	RR	9.03	RND	CST	1.1	1.05	1.05	100.26
991000	SR 308	2.16	Unnamed	Puget Sound	15.0278	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	34.14
996933	SR 308	2.41	Unnamed	Liberty Bay	15	Culvert	0	LG		RND	PCC	1.1	0.46	0.46	21.83
996932	SR 308	2.57	Unnamed	Liberty Bay	15.0277	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	26.63
996617	SR 410	14.04	Fennel Cr	Puyallup R	10.0406	Culvert	67	RR		BOX	CPC	1.2	1.83	1.83	51.00
996618	SR 410	17.26	Fennel Cr	Puyallup R	10.0406	Culvert	67	UD		RND	PCC	1.1	0.76	0.76	22.27
996619	SR 410	21.73	Unnamed	LkTapps Canal	10	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	26.85
125 1502W11B	SR 507		Unnamed	Skookumchuck R	23	Culvert	33	RR		RND	PCC	1.1	1.25	1.25	
990656	SR 510	5.85	Unnamed	McAllister Cr	11.0328	Culvert	80	RR	9.18	RND	PCC	1.1	0.61	0.61	100.58
990677	SR 7	19.15	Unnamed	Alder Lk	11	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	
990679	SR 7	21.30	Unnamed	Alder Lk	11	Culvert	20	RR		RND	PCC	1.2	0.91	0.91	36.58
990683	SR 7	22.80	Unnamed	Alder Lk	11	Culvert	10	RR		RND	PCC	1.1	0.76	0.76	25.91
991636	SR 706	8.05	Unnamed	Nisqually R	11.0008A	Culvert	50	UD		BOX	PCC	1.1	1.52	1.52	11.28

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991063	SR 8	0.10	Unnamed	Cloquallum Cr	22	Culvert	33	RR	9.50	RND	CST	1.1	0.91	0.91	72.78
993723	SR 8	1.27	Unnamed	Cloquallum Cr	22	Culvert	67	RR	13.28	RND	PCC	1.1	0.46	0.46	50.75
993727	SR 8	1.37	Unnamed	Unnamed	22	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	52.02
993724	SR 8	3.16	Unnamed	Wildcat Cr	22	Culvert	0	RR	11.91	RND	CST	1.1	1.30	1.30	62.33
993725	SR 8	3.51	Unnamed	Wildcat Cr	22	Culvert	0	RR	10.25	RND	CST	1.1	0.91	0.91	51.77
991066	SR 8	3.72	Unnamed pond	Wildcat Cr	22	Culvert	0	RR	16.84	RND	CST	1.1	0.76	0.76	72.00
990770	SR 8	6.10	Unnamed	EF Wildcat Cr	22	Culvert	67	RR	8.77	RND	CST	1.1	0.91	0.91	46.13
990133	SR 8	6.30	EF Wildcat Cr	Cloquallum R	22.0503	Culvert	33	RR	45.22	BOX	CPC	1.2	2.43	3.06	89.97
990773	SR 8	9.10	Unnamed	Mox Chehalis Cr	22	Culvert	33	RR	18.00	BOX	CPC	1.1	1.22	1.22	42.77
990693	SR 8	12.15	Unnamed	Kennedy Cr	14	Culvert	0	RR	3.61	BOX	PCC	1.1	1.22	0.91	30.48
990694	SR 8	12.16	Unnamed	Kennedy Cr	14	Culvert	0	RR	3.61	BOX	PCC	1.1	1.22	0.91	31.09
990695	SR 8	13.30	Unnamed	Kennedy Cr	14	Culvert	0	LG		BOX	PCC	1.1	1.83	1.83	94.49
990692	SR 8	13.50	Unnamed	Kennedy Cr	14.0015	Culvert	0	RR	3.54	BOX	PCC	1.2	2.13	1.52	88.39
990696	SR 8	14.10	Unnamed	Kennedy Cr	14	Culvert	33	RR	2.72	BOX	PCC	1.1	1.83	1.22	457.20
990697	SR 8	14.80	Unnamed	Kennedy Cr	14	Culvert	33	RR	1.65	RND	PCC	1.2	0.76	0.76	46.94
990699	SR 8	15.00	Unnamed	Kennedy Cr	14	Culvert	20	LG		RND	PCC	1.2	0.76	0.76	62.48
990700	SR 8	15.20	Unnamed	Kennedy Cr	14	Culvert	0	RR	2.94	BOX	PCC	1.1	1.83	0.91	57.00
990702	SR 8	16.60	Unnamed	Kennedy Cr	14	Culvert	0	UD		BOX	PCC	1.1	0.61	0.61	18.29
990703	SR 8	17.20	Unnamed	Perry Cr	14	Culvert	40	RR	3.81	BOX	PCC	1.1	1.83	1.22	60.96
990704	SR 8	18.20	Unnamed	Perry Cr	14	Culvert	0	UD		RND	PCC	1.1	0.91	0.91	24.38
990705	SR 8	18.55	Unnamed	Perry Cr	14	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	60.96
990706	SR 8	18.95	Unnamed	Perry Cr	14	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	15.24
990707	SR 8	18.96	Unnamed	Perry Cr	14	Culvert	0	UD		RND	PCC	1.1	0.91	0.91	18.29
996694	SR112	21.64	Unnamed	Unnamed	19	Culvert	33	LG		RND	OTH	1.1	0.46	0.46	20.13
996803	SR3	47.72	Unnamed	Clear Cr	15.0254	Fishway	67	RR				1.1			
996795	SR3 On Ramp	0.03	Unnamed	Chico Cr	15.0240	Culvert	67	RR		RND	CAL	1.1	0.91	0.91	53.78
992493	US 101	68.99	Unnamed	Lower Salmon Cr	24.0106	Culvert	67	RR	17.20	RND	PCC	1.2	0.76	0.76	34.75
992510	US 101	71.02	Joe Cr	North R	24.0129	Culvert	67	RR	24.98	BOX	CPC	1.2	1.52	1.52	50.49
992526	US 101	73.35	Unnamed	Unnamed to North R	24	Culvert	33	RR	11.67	ARCH	CPC	1.1	1.00	0.90	51.16
992534	US 101	75.05	Unnamed	Little North R	24	Culvert	0	RR	12.23	RND	CST	1.1	0.91	0.91	56.75
991908	US 101	76.48	Mosquito Cr	North R	24.0137	Culvert	67	RR	20.36	RND	SST	1.1	1.22	1.22	38.71
993670	US 101	80.40	Unnamed	Chehalis R	22	Culvert	0	LG		RND	CST	1.1	0.91	0.91	84.91
993673	US 101	84.15	Unnamed	Grays Harbor	22	Culvert	0	RR	13.94	OTH	OTH	1.1	0.61	0.61	1438.00
993674	US 101	89.48	Unnamed	Hoquiam R	22	Culvert	67	RR	7.41	RND	PCC	1.1	0.61	0.61	31.07
993681	US 101	89.48	Unnamed	Hoquiam R	22	Culvert	67	RR	6.25	RND	CST	1.1	0.61	0.61	20.00
993679	US 101	90.73	Unnamed	Hoquaim R	22	Culvert	33	RR	20.63	RND	PCC	1.1	0.61	0.61	54.26
993695	US 101	93.49	Unnamed	WF Hoquiam R	22	Culvert	33	RR	11.50	RND	PCC	1.1	0.91	0.91	23.06
990732	US 101	93.79	Unnamed	WF Hoquiam R	22	Culvert	0	RR	16.37	RND	PCC	1.1	0.91	0.91	24.80
993698	US 101	95.46	Unnamed	WF Hoquiam R	22	Culvert	0	LG		RND	CST	1.1	0.61	0.61	27.03

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991691	US 101	96.87	Unnamed	WF Hoquiam R	22	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	18.29
993702	US 101	98.47	Unnamed	WF Hoquiam R	22	Culvert	67	RR	16.95	RND	PCC	1.1	0.91	0.91	24.50
993704	US 101	99.45	Unnamed	WF Hoquiam R	22	Culvert	67	RR	14.70	RND	PCC	1.1	0.91	0.91	24.64
990730	US 101	100.70	Unnamed	SF Big Cr trib	22.0060	Culvert	67	RR	11.73	RND	PCC	1.1	0.91	0.91	31.15
990729	US 101	100.90	Unnamed	SF Big Cr	22	Culvert	0	RR	11.80	RND	PCC	1.1	0.61	0.61	39.62
990032	US 101	102.14	Unnamed	SB Big Cr	22.0059	Culvert	67	RR	26.32	SQSH	CST	1.1	1.09	1.77	22.13
993714	US 101	107.42	Mopang Cr	Big Cr	22.0044	Culvert	67	RR	10.24	RND	PCC	1.1	0.99	0.99	31.68
993717	US 101	110.84	Unnamed	Stevens Cr	22	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	33.25
990731	US 101	111.34	Unnamed	Stevens Cr	22.0064A	Culvert	33	RR	15.79	OTH	OTH	1.1	1.22	1.22	22.56
991690	US 101	111.90	Unnamed	Stevens Cr	22	Fishway	67	RR		BOX	PCC	1.1	1.23	1.72	28.22
991269	US 101	123.00	Mc Calla Cr	Quinault R	21.0456	Culvert	67	UD		BOX	PCC	1.1	1.83	1.22	15.24
990276	US 101	123.05	McCalla Cr	Quinault R	21.0456	Culvert	30	RR		RND	PCC	1.1	0.91	0.91	14.02
991653	US 101	126.20	Unnamed	Quinault R	21	Culvert	0	RR	7.69	RND	PCC	1.1	1.47	1.47	29.87
990883	US 101	137.35	Crane Cr	Raft R	21.0370	Culvert	50	RR		RND	CST	1.1	1.22	1.22	44.81
990548	US 101	142.50	Unnamed	Harlow Cr	21	Culvert	0	UD		RND	CST	1.1	1.22	1.22	19.51
991268	US 101	153.80	Unnamed	Pacific Ocean	21.0015	Culvert	0	LG		BOX	PCC	1.1	1.52	1.52	23.77
990549	US 101	154.50	Unnamed	Pacific Ocean	21	Culvert	0	LG		BOX	PCC	1.1	0.91	0.91	298.70
990722	US 101	154.85	Unnamed	Pacific Ocean	21	Culvert	75	LG		BOX	PCC	1.1	1.22	1.22	39.62
990723	US 101	155.15	Unnamed	Pacific Ocean	21	Culvert	0	RR	12.78	BOX	PCC	1.2	1.22	1.22	39.01
991267	US 101	155.35	Unnamed	Pacific Ocean	21.0011	Culvert	0	RR	19.92	BOX	PCC	1.2	1.22	1.22	38.10
991276	US 101	156.10	Unnamed	Pacific Ocean	21	Culvert	0	LG		RND	PCC	1.1	1.52	1.52	21.95
991277	US 101	156.15	Unnamed	Pacific Ocean	21	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	16.76
990724	US 101	158.70	Unnamed	Pacific Ocean	21	Culvert	0	UD		BOX	PCC	1.1	1.52	1.52	34.75
990725	US 101	159.05	Unnamed	Pacific Ocean	21	Culvert	0	LG		BOX	TMB	1.1	0.91	0.61	47.85
990726	US 101	159.20	Unnamed	Pacific Ocean	21	Culvert	80	LG		RND	PCC	1.1	0.91	0.91	60.96
990727	US 101	159.65	Unnamed	Pacific Ocean	20	Culvert	0	LG		BOX	PCC	1.1	1.68	1.52	60.96
990728	US 101	160.75	Unnamed	Pacific Ocean	20	Culvert	75	LG		BOX	PCC	1.1	1.52	1.52	39.93
990718	US 101	161.10	Unnamed	Pacific Ocean	20	Culvert	0	LG		BOX	PCC	1.1	1.83	1.83	39.62
991261	US 101	161.50	Unnamed	Pacific Ocean	20.0000A	Culvert	0	RR	9.19	RND	CST	1.1	1.22	1.22	56.39
991262	US 101	163.10	Unnamed	Pacific Ocean	20	Culvert	0	LG		BOX	PCC	1.1	1.83	1.83	52.43
990719	US 101	170.80	Unnamed	Hoh R	20	Culvert	80	UD		RND	CST	1.1	0.76	0.76	39.93
991645	US 101	175.05	Unnamed	Old Joe Sl	20	Culvert	0	UD		RND	CST	1.1	0.76	0.76	79.86
991644	US 101	175.15	Unnamed	Old Joe Sl	20.0440B	Culvert	67	RR		RND	CST	1.1	1.19	1.19	17.57
991646	US 101	175.20	Unnamed	Old Joe Sl	20	Culvert	0	UD		RND	PCC	1.1	0.61	0.61	17.37
991647	US 101	175.45	Unnamed	Old Joe Sl	20	Culvert	67	RR	8.72	BOX	PCC	1.1	1.52	1.52	20.12
991589	US 101	178.30	Unnamed	Hell Roaring Cr	20	Culvert	0	UD		RND	CST	1.2	1.52	1.52	21.34
991590	US 101	178.60	Unnamed	Hell Roaring Cr	20	Culvert	0	UD		RND	CST	1.1	0.76	0.76	24.38
991591	US 101	179.10	Unnamed	Hell Roaring Cr	20	Culvert	0	UD		RND	CST	1.1	1.83	1.83	30.48
991592	US 101	179.50	Unnamed	Hell Roaring Cr	20	Culvert	10	UD		RND	PCC	1.2	1.22	1.22	35.05

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991593	US 101	180.20	Unnamed	Hell Roaring Cr	20	Culvert	0	UD		RND	PCC	1.2	0.91	0.91	42.67
991574	US 101	181.40	Unnamed	Dowans Cr	20.0248A	Culvert	20	RR	3.48	RND	PCC	1.2	1.22	1.22	54.86
991507	US 101	182.20	Unnamed	Bogachiel R	20	Culvert	0	UD		BOX	PCC	1.1	1.22	0.91	60.96
991508	US 101	182.80	Unnamed	Bogachiel R	20	Culvert	0	UD		RND	CST	1.1	1.22	1.22	120.09
991510	US 101	183.85	Unnamed	Bogachiel R	20	Culvert	0	UD		RND	PCC	1.1	0.91	0.91	
990269	US 101	184.70	May Cr	Bogachiel R	20.0247	Culvert	67	UD		RND	CST	1.1	3.05	3.05	58.52
991511	US 101	185.85	Unnamed	Bogachiel R	20	Culvert	0	UD		RND	PCC	1.1	0.61	0.61	84.73
991513	US 101	187.35	Unnamed	Bogachiel R	20	Culvert	0	UD		RND	SST	1.1	0.88	0.88	84.73
991514	US 101	187.60	Unnamed	Bogachiel R	20	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	29.87
991515	US 101	187.80	Unnamed	Bogachiel R	20	Culvert	0	UD		RND	PCC	1.1	0.61	0.61	48.77
991505	US 101	188.10	Unnamed	Bogachiel R	20	Culvert	0	UD		RND	PCC	1.1	0.91	0.91	33.53
991264	US 101	189.20	Unnamed	Grader Cr	20	Culvert	33	RR	7.39	RND	PCC	1.1	0.61	0.61	24.38
20.0312 0.60	US 101	197.10	Swanson Cr	Soleduck R	20.0312	Fishway	67								
991565	US 101	221.00	Unnamed	Lk Crescent	19	Culvert	33	RR		BOX	PCC	1.1	1.24	1.36	37.09
996391	US 101	222.11	Eagle Cr	Lk Crescent	19.0075	Culvert	0	LG		SQSH	CST	1.2	1.36	1.07	20.09
996393	US 101	223.76	LaPoel Cr	Lk Crescent	19.0073	Culvert	0	LG		BOX	CPC	1.1	1.87	1.86	18.95
996398	US 101	226.24	Smith Cr	Lk Crescent	19.0069	Culvert	33	LG		BOX	CPC	1.1	1.84	1.83	19.32
995812	US 101	234.71	Unnamed	Indian Cr	18.0293	Culvert	33	LG		RND	PCC	1.1	1.22	1.22	29.40
995817	US 101	236.35	Unnamed	Indian Cr	18	Culvert	0	RR		RND	SST	1.1	0.91	0.91	30.05
18.0283 2.00	US 101	238.35	Indian Cr	Elwah R	18.0283	Fishway	67								
995826	US 101	240.23	Unnamed	Elwha R	18	Culvert	0	LG		ARCH	CPC	1.1	0.82	0.80	63.51
995835	US 101	242.53	Unnamed	Elwha R	18.0277	Culvert	0	RR		BOX	CPC	1.1	0.91	0.91	25.10
995540	US 101	243.08	Unnamed	Unnnamed	18	Culvert	0	LG		BOX	CPC	1.1	0.93	0.90	25.20
990128	US 101	244.00	Dry Cr	Strait of Juan de Fuca	18.0265	Culvert	0	RR		BOX	CPC	1.1	2.44	2.44	24.99
995542	US 101	244.52	Unnamed	Dry Cr	18	Culvert	67	RR		RND	PCC	1.1	0.61	0.61	26.42
990326	US 101	248.10	Peabody Cr	Strait of Juan de Fuca	18.0245	Culvert	0	RR	15.39	RND	PCC	1.1	2.13	2.13	914.40
990481	US 101	249.40	White Cr	Ennis Cr	18.0235	Culvert	0	RR	20.08	RND	CST	1.1	1.37	1.37	243.84
990240	US 101	250.50	Lees Cr	Strait of Juan de Fuca	18.0232	Fishway	0	RR	21.14						
995543	US 101	253.70	Unnamed	Bagley Cr	18	Culvert	0	RR		RND	CST	1.1	0.61	0.61	
995544	US 101	255.65	Unnamed	Siebert Cr	18	Culvert	33	LG		RND	PCC	1.1	0.46	0.46	41.32
994471	US 101	256.90	Unnamed	Siebert Cr	18	Culvert	0	RR	7.49	RND	PCC	1.1	0.65	0.65	38.39
994473	US 101	258.07	Unnamed	McDonald Cr	18	Culvert	33	LG		RND	PCC	1.1	0.70	0.70	23.74
994474	US 101	258.65	Unnamed	Unnnamed	18	Culvert	0	LG		BOX	PCC	1.1	1.65	1.65	32.46
990555	US 101	259.79	Unnamed	Josun Ditch	18	Culvert	0	RR	2.45	RND	PCC	1.1	0.55	0.55	37.20
18.0021 5.40	US 101	260.95	Matriotti Cr	Dungeness R	18.0021	Fishway	67	RR		RND	CST	1.1	1.52	1.52	41.48
995481	US 101	266.59	Unnamed	Johnson Cr	17	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	61.84
990219	US 101	267.16	Johnson Cr	Port Williams	17.0301	Fishway	67	RR	28.17	BOX	PCC	1.1	3.05	3.05	69.49
991667	US 101	268.54	Unnamed	Sequim Bay	17.0300	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	111.13
991666	US 101	269.24	Unnamed	Sequim Bay	17.0297	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	44.88

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991735	US 101	271.22	Unnamed	Sequim Bay	17	Culvert	67	RR	8.27	RND	PCC	1.1	0.61	0.61	33.03
990712	US 101	271.57	Unnamed	Sequim Bay	17.0284	Culvert	0	RR	7.18	RND	OTH	1.1	0.61	0.61	120.00
991850	US 101	271.83	Unnamed	Sequim Bay	17	Culvert	33	RR	9.91	RND	PCC	1.1	0.61	0.61	37.69
990075	US 101	271.98	Chicken Coop Cr	Sequim Bay	17.0278	Culvert	0	RR	30.90	BOX	PCC	1.1	1.22	0.91	53.34
990134	US 101	274.25	Eagle Cr	Strait of Juan de Fuca	17.0272	Culvert	67	RR		RND	PCC	1.1	0.46	0.46	19.71
995484	US 101	275.72	Unnamed	Discovery Bay	17	Culvert	0	RR		RND	PCC	1.1	0.84	0.84	38.92
995485	US 101	276.22	Unnamed	Discovery Bay	17	Culvert	67	RR		RND	PCC	1.1	0.61	0.61	38.03
990090	US 101	277.90	Contractors Cr	Discovery Bay	17.0270	Culvert	0	RR	12.59	BOX	PCC	1.1	1.22	1.22	73.15
995488	US 101	278.66	Unnamed	Discovery Bay	17.0269	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	40.89
995489	US 101	279.76	Unnamed	Discovery Bay	17.0268	Culvert	0	UD		RND		1.1	0.91	0.91	68.17
995490	US 101	281.61	Unnamed	Discovery Bay	17	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	40.79
995491	US 101	281.72	Unnamed	Discovery Bay	17	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	122.17
995493	US 101	282.01	Unnamed	Discovery Bay	17	Culvert	0	LG		RND	OTH	1.1	0.46	0.46	61.67
995497	US 101	283.57	Unnamed	Snow Cr	17	Culvert	0	RR		ELL	CST	1.1	1.10	1.66	25.45
995500	US 101	289.91	Unnamed	Leland Cr	17	Culvert	67	LG		RND	PCC	1.1	0.61	0.61	19.28
990896	US 101	290.35	Unnamed	Leland Cr	17.0080	Culvert	67	RR		BOX	CPC	1.2	1.22	1.83	13.66
995502	US 101	291.71	Unnamed	Leland Cr	17	Culvert	67	UD		RND	CST	1.2	0.61	0.61	18.49
990241	US 101	292.52	Leland Cr	Little Quilcene R	17.0077	Culvert	33	RR		BOX	CPC	1.1	1.83	2.45	44.10
995509	US 101	299.86	Spencer Cr	Jackson Cove	17.0004	Culvert	33	RR		RND	PCC	1.2	0.61	0.61	17.78
995513	US 101	300.35	Unnamed	Spencer Cr	17	Culvert	33	LG		RND	PCC	1.1	0.91	0.91	16.60
995515	US 101	300.62	Unnamed	Spencer Cr	17	Culvert	33	LG		RND	PCC	1.1	0.61	0.61	13.65
995518	US 101	301.88	Spencer Cr	Jackson Cove	17.0004	Culvert	33	RR		BOX	CPC	1.1	1.85	1.84	29.39
994484	US 101	303.01	Marple Cr	Jackson Cove	17.0001	Culvert	33	RR	20.51	ELL	CST	1.1	2.91	3.13	55.08
990449	US 101	304.24	Turner Cr	Hood Canal	16.0559	Culvert	0	LG		RND	PCC	1.1	1.22	1.22	36.58
995930	US 101	305.55	Unnamed	Hood Canal	16	Culvert	0	LG		RND	CST	1.1	0.61	0.61	45.88
995931	US 101	305.59	Unnamed	Hood Canal	16	Culvert	0	RR		RND	CST	1.1	0.61	0.61	45.81
990899	US 101	307.00	Unnamed	Hood Canal	16	Culvert	67	RR		BOX	CPC	1.1	1.83	1.83	36.55
995936	US 101	310.40	Unnamed	Hood Canal	16	Culvert	67	RR		BOX	CPC	1.1	1.24	1.17	21.01
995939	US 101	311.16	Unnamed	Hood Canal	16.0350	Culvert	0	RR		BOX	CPC	1.1	1.23	1.25	27.01
991603	US 101	314.10	Unnamed	Hood Canal	16.0331	Culvert	67	RR	9.06	BOX	PCC	1.2	1.83	1.83	23.29
991604	US 101	314.38	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	17.10
996104	US 101	314.88	Unnamed	Hood Canal	16	Culvert	67	UD		RND	PCC	1.1	0.46	0.46	11.33
991606	US 101	315.19	Schaerer Cr	Hood Canal	16.0326	Culvert	67	RR		BOX	CPC	1.2	1.83	1.83	16.65
996108	US 101	316.06	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	19.17
996109	US 101	316.30	Unnamed	Hood Canal	16	Culvert	0	LG		BOX	CPC	1.1	1.83	1.83	16.47
996120	US 101	317.39	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	26.45
991615	US 101	317.45	Unnamed	Hood Canal	16	Culvert	0	RR		BOX	CPC	1.1	1.22	1.22	21.03
991614	US 101	322.83	Unnamed	Hood Canal	16	Culvert	0	RR		RND	PCC	1.2	0.91	0.91	29.26
991608	US 101	324.10	Unnamed	Hood Canal	16	Culvert	0	RR	1.22	RND	PCC	1.1	0.91	0.91	38.71

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991610	US 101	324.31	Unnamed	Hood Canal	16	Culvert	0	RR	2.31	RND	PCC	1.1	0.91	0.91	36.27
996137	US 101	327.08	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	29.66
990407	US 101	329.15	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	20.12
996355	US 101	329.73	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.2	0.61	0.61	15.40
996356	US 101	330.25	Unnamed	Hood Canal	16	Culvert	33	RR		RND	PCC	1.1	0.61	0.61	19.29
996358	US 101	331.18	Unnamed	Hood Canal	16	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	
996360	US 101	332.15	Unnamed	Hood Canal	16	Culvert	0	RR		RND	CST	1.1	0.61	0.61	18.97
996366	US 101	334.40	Unnamed	Hood Canal	16	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	54.47
991250	US 101	335.93	Unnamed	Hood Canal	16	Culvert	67	RR		RND	PCC	1.1	0.61	0.61	14.95
996371	US 101	338.37	Unnamed	Skobob Cr	16	Culvert	67	RR		RND	PCC	1.1	0.46	0.46	17.87
996374	US 101	341.57	Purdy Cr	Hood Canal	16.0005	Culvert	67	RR		RND	CAL	1.1	0.91	0.91	17.20
115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	14.0036	Fishway	67	RR							
115 MC144	US 101	355.58	Unnamed	Totten Inlet	14	Culvert	33	UD		RND	CST	1.1	1.28	1.15	30.00
991477	US 101	360.60	Unnamed	Madrona Beach	14.0002A	Culvert	0	RR	10.10	BOX	PCC	1.1	1.83	1.83	103.94
994478	US 101 ROW	271.22	Unnamed	Sequim Bay	17	Culvert	67	RR	8.27	RND	PCC	1.1	0.61	0.61	13.61
995760	US 101 ROW NB	284.87	Unnamed	Snow Cr	17	Culvert	0	RR		OTH		1.1	0.78	0.78	33.64
995521	US 116	1.64	Unnamed	Port Townsend Bay	17	Culvert	0	RR		RND	PCC	1.1	0.61	0.61	18.98
994788	US 12	3.76	Unnamed	Unnamed	22.0238	Culvert	33	RR	13.73	RND	PCC	1.1	0.46	0.46	31.19
991284	US 12	4.59	Unnamed	Max Chuck Sl	22.0253	Culvert	0	RR	12.55	OTH	OTH	1.1	1.14	1.14	96.45
991283	US 12	5.24	Unnamed	Mox Chuck Sl	22	Culvert	0	RR	8.82	RND	PCC	1.1	0.91	0.91	86.87
991285	US 12	5.38	Unnamed	Max Chuck Sl	22.0254	Culvert	0	RR	8.78	RND	PCC	1.1	0.91	0.91	91.44
991633	US 12	5.62	Unnamed	Mox Chuck Sl	22	Culvert	33	RR	5.71	RND	PCC	1.1	0.61	0.61	48.25
991910	US 12	6.50	Unnamed	Higgins Sl	22	Culvert	0	RR	1.81	RND	PCC	1.1	0.76	0.76	70.10
991909	US 12	6.55	Unnamed	Higgins Sl	22	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	82.91
990957	US 12	6.57	Unnamed	Higgins Sl	22	Culvert	0	RR	7.46	RND	PCC	1.1	0.76	0.76	74.68
990958	US 12	6.90	Unnamed	Higgins Sl	22.0257	Culvert	0	RR	6.62	RND	PCC	1.1	0.91	0.91	136.83
991911	US 12	7.26	Unnamed	Higgins Sl	22	Culvert	0	RR	7.82	RND	PCC	1.1	0.91	0.91	142.34
994791	US 12	9.04	Unnamed	Wynoochee R	22	Culvert	33	RR	21.23	RND	CST	1.1	0.91	0.91	27.00
991533	US 12	23.30	Unnamed	Chehalis R	22	Culvert	67	RR	7.66	RND	PCC	1.2	0.76	0.76	20.55
994799	US 12	26.87	Unnamed	Chehalis R	22.0542	Culvert	0	RR	19.68	RND	SST	1.1	1.04	1.04	66.57
991541	US 12	28.20	Unnamed	Chehalis R	23	Culvert	0	RR	11.75	RND	PCC	1.1	0.61	0.61	91.44
991540	US 12	28.60	Unnamed	Chehalis R	23	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	99.06
991535	US 12	29.19	Unnamed	Chehalis R	23	Culvert	0	RR	13.43	RND	PCC	1.1	0.91	0.91	54.25
991536	US 12	29.45	Unnamed	Chehalis R	23	Culvert	0	RR	10.83	RND	PCC	1.1	0.91	0.91	43.89
991537	US 12	33.20	Unnamed	Chehalis R	23	Culvert	20	UD		BOX	PCC	1.1	1.22	1.22	40.23
991538	US 12	33.40	Unnamed	Chehalis R	23	Culvert	50	UD		BOX	PCC	1.1	1.22	1.22	42.67
991539	US 12	33.60	Unnamed	Chehalis R	23	Culvert	5	UD		RND	PCC	1.1	0.91	0.91	56.39
WSDOT District 4 - Southwest															

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991789	503SP COUGAR	33.54	Unnamed	Lewis R	27	Culvert	0	LG		RND	PCC	1.1	1.22	1.22	50.29
991790	503SP COUGAR	34.09	Unnamed	Yale Lk	27	Culvert	0	RR	4.20	RND	PCC	1.1	1.22	1.22	30.48
991791	503SP COUGAR	35.20	Unnamed	Yale Lk	27	Culvert	0	RR	3.91	RND	PCC	1.1	1.22	1.22	32.00
994603	503SP COUGAR	35.58	Unnamed	Yale Lk	27	Culvert	0	RR	4.41	RND	PCC	1.1	0.76	0.76	40.15
991571	503SP COUGAR	35.69	Unnamed	Dog Cr to Lewis R	27	Culvert	0	RR	2.87	RND	PCC	1.1	0.76	0.76	50.73
990120	503SP COUGAR	35.84	Dog Cr	Yale Reservoir	27.0476	Culvert	0	RR	4.66	BOX	TMB	1.1	2.44	2.44	6.71
994599	503SP COUGAR	37.06	Panamaker Cr	Yale Reservoir	27.0478	Culvert	67	RR		BOX	CPC	1.2	2.45	3.05	20.58
990078	503SP COUGAR	38.77	Dry Cr	Lewis R	27.0481	Culvert	0	RR		BOX	PCC	1.1	3.05	2.44	27.74
990085	I-5	3.31	Cold Cr	Burnt Bridge Cr	28.0144	Culvert	0	RR		RND	OTH	1.1	1.20	1.20	71.33
994304	I-5	5.98	Unnamed	Salmon Cr	28	Culvert	67	RR	3.67	RND	PCC	1.1	1.07	1.07	106.91
994305	I-5	6.10	Unnamed	Salmon Cr	28	Culvert	67	RR	3.70	RND	PCC	1.1	1.07	1.07	109.55
994306	I-5	6.29	Unnamed	Salmon Cr	28	Culvert	33	RR	4.56	RND	PCC	1.1	1.07	1.07	31.71
991792	I-5	8.07	Unnamed	Whipple Cr	28	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	
991794	I-5	8.42	Whipple Cr	Lake R	28.0038	Culvert	67	RR		BOX	PCC	1.1	1.83	1.83	213.36
991868	I-5	11.23	Unnamed	Gee Cr	27.0168O	Culvert	0	LG		RND	OTH	1.1	0.76	0.76	138.36
991844	I-5	11.44	Unnamed	Gee Cr	27.0168A	Culvert	67	RR	12.44	BOX	CPC	1.1	1.22	1.22	36.90
991846	I-5	12.42	Gee Cr	Columbia R	27.0168F	Culvert	67	UD		OTH	OTH	1.1	3.05	3.05	128.70
991847	I-5	13.20	Unnamed	Gee Cr	27.0168G	Culvert	0	RR		ARCH	CPC	1.1	2.90	2.44	113.68
994588	I-5	25.85	Mill Cr	Columbia R	27.0144	Culvert	33	RR	24.91	RND	CPC	1.1	1.82	1.82	68.08
990055	I-5	26.83	Bybee Cr	Columbia R	27.0142	Culvert	0	RR	12.36	BOX	PCC	1.1	1.83	2.44	98.15
991665	I-5	27.80	Schoolhouse Cr	Columbia R	27.0139	Culvert	0	RR	21.33	BOX	PCC	1.2	1.83	1.83	339.24
991436	I-5	29.25	Unnamed	Columbia R	27.0137O	Culvert	67	RR	16.95	RND	CST	1.1	0.91	0.91	55.26
994591	I-5	29.81	Unnamed	Columbia R	27.0136	Culvert	33	LG		OTH	OTH	1.1	0.91	0.91	149.38
992332	I-5	41.62	King Cr	Cowlitz R	26.0127	Culvert	0	RR	12.82	RND	SPS	1.1	1.60	1.60	186.00
992331	I-5	42.29	Unnamed	Unnamed to Cowlitz R	26.0128	Culvert	33	RR	9.44	RND	SST	1.1	0.90	0.90	147.50
992581	I-5	44.29	Unnamed	Cowlitz R	26.0180	Culvert	0	RR	5.70	RND	CST	1.1	0.90	0.90	151.98
992590	I-5	46.77	Unnamed	Cowlitz R	26.0186A	Culvert	67	RR	9.77	RND	CST	1.1	1.55	1.55	
992591	I-5	47.49	Unnamed	Salmon Cr (26.0187)	26	Culvert	33	RR	5.05	BOX	CPC	1.1	1.55	1.25	136.75
992592	I-5	47.88	Unnamed	Salmon Cr	26.0188	Culvert	67	LG		RND	CST	1.1	2.20	2.20	
992602	I-5	53.07	Unnamed	Cowlitz R	26	Culvert	33	RR	18.36	RND	PCC	1.1	1.05	1.05	90.83
992608	I-5	53.90	Unnamed	Cowlitz R	26	Culvert	0	RR	9.65	RND	CST	1.1	0.90	0.90	260.00
992343	I-5	54.40	Unnamed	Cowlitz R	26	Culvert	0	LG		RND	PCC	1.1	0.75	0.75	86.61
992355	I-5	54.93	Unnamed	Hill Cr to Cowlitz R	26	Culvert	0	RR	1.43	RND	PCC	1.1	0.75	0.75	88.65
991734	I-5	57.98	Unnamed	Foster Cr	26.0476	Culvert	0	RR	11.99	BOX	CPC	1.1	1.52	1.52	89.31
990152	I-5	58.63	Foster Cr	Cowlitz R	26.0475	Culvert	33	RR	20.55	BOX	CPC	1.1	2.43	3.05	52.30
994555	I-5 NB	25.20	Canyon Cr	Columbia R	27.0147	Culvert	0	LG		RND	CST	1.1	1.43	1.43	
994553	I-5 NB	25.92	Mill Cr	Columbia R	27.0144	Culvert	33	RR	21.92	BOX	CPC	1.1	1.85	1.83	79.57
994628	I-5 NB Gee Cr RA		Unnamed	Gee Cr	27.0168A	Culvert	67	RR	12.34	RND	PCC	1.1	1.37	1.37	11.86
994652	I-5 off ramp to RA	11.00	Unnamed	Gee Cr	27.0168A	Culvert	67	RR	13.05	RND	PCC	1.1	1.22	1.22	35.94

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
991039	I-5 SB	25.31	Canyon Cr	Columbia R	27.0147	Culvert	0	LG		RND	CST	1.1	1.43	1.43	38.71
991360	SR 103	13.30	Espy Sl	Willapa Bay	24.0743	Culvert	0	RR	10.47	RND	CST	1.1	1.22	1.22	14.33
991328	SR 103	19.84	Stackpole Sl	Willapa Bay	24.0749	Culvert	67	RR	11.34	RND	CST	1.1	0.91	0.91	18.04
991332	SR 105	1.86	Unnamed	Willapa R	24	Culvert	33	RR	11.58	RND	PCC	1.1	0.90	0.90	26.67
992437	SR 105	5.95	Unnamed	Fredrickson Sl	24	Culvert	33	LG		RND	PCC	1.1	0.75	0.75	18.77
991366	SR 105	6.23	Unnamed	Willapa Bay	24.0250	Culvert	33	RR	12.68	RND	PCC	1.1	1.52	1.52	32.27
992440	SR 105	7.31	Unnamed	Willapa Bay	24	Culvert	33	LG		RND	CST	1.1	0.75	0.75	37.91
992447	SR 105	13.33	Unnamed	Willapa Bay	24	Culvert	0	LG		RND	CST	1.1	0.60	0.60	24.41
993133	SR 105	20.12	Unnamed	Willapa Bay	24.0002A	Culvert	0	RR	1.82	RND	CST	1.1	0.60	0.60	
991280	SR 105	21.22	Pacific Co Drain Ditch 1	Pacific Ocean	24.0001	Culvert	33	RR		RND	CST	1.3	1.48	1.48	43.52
992234	SR 122	4.99	Unnamed	Mayfield Lk	26	Culvert	0	RR	17.54	RND	PCC	1.1	0.91	0.91	15.93
992235	SR 122	5.84	Unnamed	Mayfield Lk	26	Culvert	0	RR	10.88	BOX	CPC	1.1	2.16	2.13	45.90
991017	SR 123	2.28	Unnamed	Ohanapecosh R	26	Culvert	0	LG		RND	PCC	1.2	0.90	0.90	33.19
991022	SR 123	3.36	Unnamed	Ohanapecosh R	26	Culvert	33	RR	2.55	RND	PCC	1.2	0.75	0.75	27.44
991029	SR 123	6.06	Unnamed	Ohanapecosh R	26	Culvert	33	LG		RND	PCC	1.1	0.90	0.90	
991030	SR 123	6.35	Unnamed	Ohanapecosh R	26	Culvert	33	RR	1.41	RND	PCC	1.2	0.90	0.90	15.89
996895	SR 14	22.97	Unnamed	Columbia R	28	Culvert	0	LG		BOX	CPC	1.1	1.25	1.22	24.05
996896	SR 14	23.44	Unnamed	Columbia R	28.0293	Culvert	0	RR		BOX	CPC	1.1	1.91	1.83	66.62
996898	SR 14	24.71	Unnamed	Columbia R	28	Culvert	0	LG		ARCH	CPC	1.1	0.91	0.91	49.35
996899	SR 14	24.83	Unnamed	Columbia R	28	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	39.49
996900	SR 14	26.00	Unnamed	Columbia R	28	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	42.34
990177	SR 14	36.05	Hardy Cr	Hardy Sl	28.0303A	Culvert	0	UD		BOX	PCC	1.1	3.05	3.05	23.16
990567	SR 14	117.10	Unnamed	Columbia R	31	Culvert	50	RR		RND	SPS	1.1	2.74	2.74	121.92
990341	SR 14	140.80	Pine Cr	Columbia R	31.0354	Culvert	0	RR	14.17	RND	SPS	1.4	3.05	3.05	73.00
992848	SR 142	1.53	Unnamed	Klickitat R	30	Culvert	0	LG		RND	CST	1.1	1.22	1.22	34.41
992888	SR 142	8.66	Unnamed	Klickitat R	30	Culvert	0	LG		RND	CST	1.1	1.07	1.07	19.00
992223	SR 142	13.40	Snyder Canyon Cr	Klickitat R	30.0018	Culvert	33	RR	23.19	BOX	PCC	1.2	3.04	3.04	19.63
992908	SR 142	14.66	Skookum Canyon Cr	Klickitat R	30.0024	Culvert	67	UD		RND	SPS	1.1	1.83	1.83	11.49
992919	SR 142	16.48	Unnamed	Klickitat R	30	Culvert	0	RR		RND	PCC	1.1	1.52	1.52	12.82
30.0068	0.40 SR 142	20.20	Bowman Cr	L Klickitat R	30.0068	Fishway	33	RR	32.35	BOX	CPC	1.1	3.05	3.52	20.06
991629	SR 142	25.10	Smith-Mason Cr	Mill Cr	30.0090	Culvert	33	RR	5.03	RND	CST	1.2	1.52	1.52	22.86
990284	SR 142	25.32	Mill Cr	Little Klickitat R	30.0088	Culvert	67	RR	6.19	RND	CST	1.1	2.02	2.02	14.60
991342	SR 4	0.68	Roaring Cr Sl	Naselle R	24	Culvert	0	LG		RND	CST	1.1	0.90	0.90	25.49
992398	SR 4	2.10	Unnamed	Naselle R	24	Culvert	0	LG		RND	PCC	1.1	0.60	0.60	39.41
991375	SR 4	3.80	Unnamed	Naselle R	24.0575A	Culvert	67	RR	11.93	RND	CST	1.1	0.75	0.75	23.40
991372	SR 4	6.36	Unnamed	Naselle R	24.0543A	Culvert	0	LG		RND	PCC	1.1	0.60	0.60	28.47
991346	SR 4	6.97	Unnamed	Salmon Cr	24.0622	Culvert	0	RR	17.63	RND	SST	1.1	0.90	0.90	36.29
991347	SR 4	7.34	Unnamed	Salmon Cr	24.0624	Culvert	67	RR	13.57	RND	PCC	1.1	0.76	0.76	23.24
992403	SR 4	7.59	Unnamed	Salmon Cr	24	Culvert	67	RR	13.14	RND	PCC	1.2	0.75	0.75	28.36

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
992405	SR 4	8.21	Unnamed	Salmon Cr	24	Culvert	33	RR	13.66	RND	PCC	1.1	0.75	0.75	15.58
991349	SR 4	8.42	Unnamed	Salmon Cr	24	Culvert	0	LG		RND	PCC	1.1	0.75	0.75	48.12
991381	SR 4	8.73	Unnamed	Salmon Cr	24.0620A	Culvert	0	RR	9.38	RND	PCC	1.1	0.75	0.75	32.31
995668	SR 4	13.00	Unnamed	Seal Sl	25	Culvert	0	UD		RND	CAL	1.1	0.61	0.61	24.23
990371	SR 4	13.70	Seal Cr	Malone Cr	25	Culvert	33	RR		BOX	PCC	1.1	1.37	1.37	
991395	SR 4	16.50	Unnamed	Grays R	25	Culvert	0	UD		RND	PCC	1.1	0.91	0.91	24.38
991421	SR 4	18.80	Unnamed	Grays R	25.0093A	Culvert	0	UD		RND	PCC	1.1	0.91	0.91	24.38
991422	SR 4	30.40	Unnamed	Steamboat Sl	25.0194A	Culvert	0	LG		RND	PCC	1.1	1.22	1.22	28.04
990818	SR 4	34.10	Unnamed	Columbia R	25	Culvert	85	UD		RND	PCC	1.1	1.52	1.52	
991407	SR 4	36.90	Unnamed	Columbia R	25	Culvert	0	UD		RND	PCC	1.1	1.22	1.22	56.39
992781	SR 401	0.76	Unnamed	Columbia R	24	Culvert	67	RR	6.95	RND	PCC	1.1	0.91	0.91	16.45
991409	SR 401	0.84	Megler Cr	Columbia R	24.0049	Culvert	67	RR	13.34	RND	CST	1.1	1.22	1.22	20.26
991411	SR 401	1.85	Unnamed	Columbia R	24.0050	Culvert	67	RR	13.53	ELL	CST	1.1	1.60	1.42	27.75
991418	SR 401	4.33	Unnamed	Columbia R	24	Culvert	0	RR	5.65	RND	PCC	1.1	1.22	1.22	32.92
991377	SR 401	5.56	Unnamed	SF Naselle R	24.0584A	Culvert	0	RR	12.29	RND	PCC	1.2	0.61	0.61	28.04
992791	SR 401	6.02	Unnamed	SF Naselle R	24	Culvert	33	RR	5.30	RND	PCC	1.1	0.90	0.90	21.55
991378	SR 401	6.03	Unnamed	SF Naselle R	24.0584B	Culvert	0	RR	7.66	RND	PCC	1.1	0.90	0.90	28.15
992792	SR 401	6.13	Unnamed	SF Naselle R	24	Culvert	33	RR	6.92	RND	PCC	1.1	0.75	0.75	27.30
992392	SR 401	9.18	Unnamed	SF Naselle R	24	Culvert	0	RR	6.83	RND	PCC	1.1	0.90	0.90	34.63
994565	SR 401 Old	5.56	Unnamed	Unnamed	24	Culvert	0	RR	12.52	RND	PCC	1.1	0.61	0.61	12.53
994567	SR 401 ROW	5.50	SF Naselle R	Naselle R	24.0584	Culvert	0	RR	15.75	RND	PCC	1.1	1.21	1.21	55.10
994566	SR 401(old)	5.50	Unnamed	SF Naselle R	24	Culvert	0	RR	12.28	RND	PCC	1.1	0.61	0.61	11.00
992262	SR 411	7.14	Unnamed	Unnamed to Cowlitz R	26	Culvert	0	RR	10.52	RND	OTH	1.1	0.85	0.85	40.55
992265	SR 411	9.56	Unnamed	Cowlitz R	26	Culvert	67	RR	11.38	RND	PCC	1.1	0.60	0.60	39.66
991783	SR 500	9.78	Unnamed	Lacamas Cr	28.0165	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	15.85
981853	SR 501	6.17	Buckmire Sl	Lake R	28.0136	Culvert	67	RR		RND	CST	1.1	1.22	1.22	106.73
994514	SR 501	17.94	Unnamed	Unnamed to Gee Cr	27.0168D	Culvert	0	RR		RND	PCC	1.1	0.76	0.76	47.68
991877	SR 502	0.77	Unnamed	Gee Cr	27.0168A	Culvert	67	RR	4.46	RND	PCC	1.1	0.91	0.91	18.61
991657	SR 503	13.21	Unnamed	Rock Cr	27.0223	Culvert	33	RR	18.88	SQSH	CST	1.1	1.55	2.11	32.92
991656	SR 503	15.84	Rock Cr	Lewis R	27.0222	Culvert	33	RR	27.45	BOX	PCC	1.2	2.15	2.15	
991503	SR 503	19.55	Unnamed	Bitter Cr	27.0372	Culvert	0	RR	12.18	RND	CST	1.1	0.61	0.61	18.59
990037	SR 503	19.85	Bitter Cr	Cedar Cr	27.0367	Culvert	67	RR	14.88	SQSH	CST	1.1	0.85	1.25	12.14
990073	SR 503	25.36	Chelatchie Cr	Cedar Cr	27.0373	Culvert	67	RR	20.52	RND	CST	1.1	1.22	1.22	14.30
990842	SR 503	27.05	Unnamed	Lewis R	27	Culvert	0	LG		RND	CST	1.1	0.64	0.64	24.99
994531	SR 503	33.04	Brooks Cr	Lewis R	27.0431	Culvert	33	RR	15.28	BOX	CPC	1.1	1.86	1.52	33.91
994532	SR 503	33.28	Unnamed	Brooks Cr	27.0432	Fishway	33	RR	4.18						
994533	SR 503	33.50	Unnamed	Unnamed to Brooks Cr	27.0433	Culvert	0	RR	3.44	RND	PCC	1.1	0.91	0.91	31.50
994610	SR 503	34.97	Unnamed	Lk Merwin	27.0428	Culvert	0	LG		RND	PCC	1.1	0.61	0.61	57.17
994541	SR 503	36.57	Unnamed	Rock Cr	27.0420	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	47.52

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
990322	SR 503	37.79	Unnamed	Lewis R	27.0417	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	36.96
994545	SR 503	38.17	Unnamed	Lewis R	27.0416	Culvert	0	RR	3.48	RND	PCC	1.1	0.46	0.46	16.90
994546	SR 503	38.65	Unnamed	Lewis R	27.0415	Culvert	0	RR	4.84	BOX	CPC	1.1	1.57	0.91	27.10
994547	SR 503	38.85	Indian Cr	Lewis R	27.0411	Culvert	0	LG		BOX	CPC	1.1	1.85	1.85	31.89
994549	SR 503	39.41	Unnamed	Jim Cr	27	Culvert	33	RR	3.55	RND	PCC	1.1	0.61	0.61	32.59
994550	SR 503	39.90	Day Cr	Lewis R	27.0409	Culvert	0	RR	5.00	RND	PCC	1.1	0.75	0.75	23.60
990062	SR 503	40.94	Cape Horn Cr	Lewis R	27.0401	Culvert	0	RR	2.43	BOX	CPC	1.1	2.90	2.30	65.86
994558	SR 503	41.10	Unnamed	Lk Merwin	27.0400	Culvert	0	RR	6.34	RND	PCC	1.1	0.91	0.91	22.41
994557	SR 503	42.11	Unnamed	Lk Merwin	27.0398	Culvert	0	RR	3.15	RND	PCC	1.1	0.76	0.76	35.06
994560	SR 503	42.93	Marble Cr	Lk Merwin	27.0396	Culvert	0	LG		RND	CST	1.2	0.91	0.91	24.58
994582	SR 503	44.34	Husky Cr	Lewis R	27.0359	Culvert	0	LG		RND	PCC	1.1	1.22	1.22	
994583	SR 503	45.30	Unnamed	Lewis R	27	Culvert	0	LG		RND	PCC	1.1	0.76	0.76	
990089	SR 503	46.17	Colvin Cr	Lewis R	27.0392	Culvert	0	RR	15.52	RND	SPS	1.1	1.83	1.83	76.20
991439	SR 503	46.55	Davis Cr	Lewis R	27.0338	Culvert	0	RR	3.53	RND	PCC	1.1	1.37	1.37	51.82
994623	SR 503	48.19	Unnamed	Houghton Cr	27	Culvert	33	LG		RND	CST	1.1	0.61	0.61	42.01
994625	SR 503	49.49	Staples Cr	Lewis R	27.0315	Culvert	0	RR	16.83	RND	PCC	1.1	1.37	1.37	38.02
994629	SR 503	50.01	Unnamed	Lewis R	27.0310	Culvert	0	RR	11.86	RND	CST	1.1	0.61	0.61	46.21
994589	SR 503 ROW	39.41	Unnamed	Jim Cr	27	Culvert	0	RR	3.78	RND	PCC	1.1	0.61	0.61	19.00
27.0305	1.00 SR 503 ROW		Ross Cr	NF Lewis R	27.0305	Fishway	33		13.28						
991968	SR 504	2.49	Unnamed	Salmon Cr	26	Culvert	0	RR	4.07	RND	CAL	1.1	0.80	0.80	42.20
991970	SR 504	2.73	Unnamed	Salmon Cr	26	Culvert	0	RR	7.69	RND	CAL	1.1	0.60	0.60	23.67
992015	SR 504	2.76	Unnamed	Salmon Cr	26	Culvert	0	RR	7.41	RND	CAL	1.1	0.60	0.60	24.60
991669	SR 504	3.17	Unnamed	Salmon Cr	26	Culvert	33	RR	12.22	RND	CAL	1.1	0.80	0.80	33.47
992019	SR 504	4.55	Unnamed	Silver Lk	26	Culvert	0	LG	2.92	RND	CST	1.2	0.75	0.75	27.63
991634	SR 504	17.00	Unnamed	NF Toutle R	26.0320	Culvert	0	RR	17.72	RND	CST	1.1	1.37	1.37	20.42
992028	SR 504	17.60	Unnamed	NF Toutle R	26	Culvert	0	RR	9.29	RND	PCC	1.1	1.22	1.22	54.96
992068	SR 504	22.21	Unnamed	NF Toutle R	26	Culvert	0	LG		RND	CST	1.1	0.75	0.75	98.12
992074	SR 504	23.58	Unnamed	NF Toutle R	26	Culvert	0	RR	6.35	RND	CST	1.1	1.60	1.60	68.63
992244	SR 505	0.16	Unnamed	Olequa Cr	26	Culvert	0	RR	9.11	BOX	CPC	1.1	1.54	0.95	288.00
992246	SR 505	0.26	Unnamed	Unnamed to Olequa Cr	26	Culvert	0	RR	5.96	RND	CST	1.1	0.90	0.90	29.49
991047	SR 505	19.20	Unnamed	Unnamed	26	Culvert	67	RR	10.59	RND	CST	1.1	0.45	0.45	19.86
991685	SR 506	2.77	Unnamed	Stillwater Cr	26.0429A	Culvert	0	RR	8.16	RND	PCC	1.2	1.07	1.07	31.51
992287	SR 506	2.98	Unnamed	Stillwater Cr	26	Culvert	0	RR		RND	PCC	1.1	0.75	0.75	22.51
992290	SR 506	5.41	Unnamed	Stillwater Cr	26	Culvert	67	RR		RND	PCC	1.1	1.22	1.22	31.00
991432	SR 506	7.68	Unnamed	Cowlitz R	26	Culvert	0	RR	11.26	RND	OTH	1.1	0.78	0.78	33.41
992277	SR 508	4.27	Unnamed	SF Newaukum R	23	Culvert	33	RR		RND	PCC	1.1	0.90	0.90	12.42
991756	SR 508	5.19	Unnamed	SF Newaukum R	23	Culvert	60	RR		RND	PCC	1.1	0.91	0.91	15.85
991296	SR 508	15.85	Unnamed	Kearney Cr	23.0915A	Culvert	60	LG		RND	PCC	1.1	0.91	0.91	15.54
992540	SR 508	18.32	Unnamed	Mill Cr	26	Culvert	33	RR	16.04	RND	PCC	1.1	0.73	0.73	13.14

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Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
992541	SR 508	18.95	Unnamed	Tilton R	26.0560x	Culvert	67	RR	1.67	RND	CPC	1.1	0.60	0.60	16.50
991433	SR 508	20.37	Shermans Cr	Tilton R	26.0564	Culvert	0	RR	3.24	RND	PCC	1.1	0.91	0.91	14.63
992550	SR 508	22.50	Unnamed	Tilton R	26.0566	Culvert	0	LG		RND	CST	1.1	1.80	1.80	55.93
992551	SR 508	23.00	Unnamed	Unnamed	26.0567x	Culvert	0	LG		RND	PCC	1.1	0.90	0.90	10.19
992552	SR 508	23.16	Unnamed	Tilton R	26.0560x	Culvert	0	LG		RND	PCC	1.1	0.60	0.60	20.36
992553	SR 508	23.45	Unnamed	Tilton R	26.0560x	Culvert	0	LG		RND	PCC	1.1	0.62	0.62	19.67
992555	SR 508	23.89	Unnamed	Tilton R	26.0560x	Culvert	33	RR	4.70	BOX	CPC	1.1	1.82	1.68	24.60
992557	SR 508	23.99	Unnamed	Tilton R	26.0560x	Culvert	0	LG		RND	PCC	1.1	0.90	0.90	15.07
992573	SR 508	30.01	Unnamed	Tilton R	26	Culvert	0	LG		RND	PCC	1.1	1.08	1.08	13.64
991435	SR 508	31.80	Unnamed	Tilton R	26	Culvert	0	RR	10.60	RND	PCC	1.1	1.07	1.07	19.51
990774	SR 6	0.75	Case Pond	Ellis Sl	24	Culvert	0	RR	15.23	RND	CAL	1.1	0.75	0.75	19.27
991697	SR 6	1.85	Unnamed	Willapa R	24	Culvert	0	LG		RND	PCC	1.1	0.60	0.60	30.48
991355	SR 6	2.96	Unnamed	Willapa R	24	Culvert	67	RR	6.39	RND	PCC	1.1	0.75	0.75	17.31
990802	SR 6	4.82	Unnamed	Willapa R	24	Culvert	33	LG		RND	PCC	1.1	1.05	1.05	17.38
990805	SR 6	5.37	Unnamed	Willapa R	24	Culvert	0	RR	25.91	ELL	PCC	1.1	0.84	1.02	47.97
990813	SR 6	8.32	Unnamed	Willapa R	24	Culvert	67	RR	11.33	RND	PCC	1.1	0.90	0.90	23.89
990816	SR 6	9.83	Unnamed	Unnamed to Willapa R	24	Culvert	33	RR	9.27	RND	PCC	1.1	0.60	0.60	15.68
990817	SR 6	9.92	Unnamed	Willapa R	24	Culvert	67	RR	4.09	RND	PCC	1.1	0.75	0.75	13.52
990782	SR 6	11.69	Unnamed	Willapa R	24	Culvert	0	LG		RND	PCC	1.1	0.60	0.60	39.08
990790	SR 6	17.36	Unnamed	Fern Cr to Willapa R	24	Culvert	33	RR	8.27	BOX	CPC	1.1	1.28	1.08	16.60
990797	SR 6	19.96	Unnamed	Fern Cr	24	Culvert	0	LG		RND	PCC	1.1	0.60	0.60	38.20
990798	SR 6	20.56	Unnamed	Fern Cr	24	Culvert	0	LG		RND	PCC	1.1	0.45	0.45	50.10
992424	SR 6	21.27	Unnamed	Fern Cr to Willapa R	24	Culvert	0	RR	8.08	RND	PCC	1.1	0.62	0.62	84.03
991654	SR 6	24.31	Unnamed	Rock Cr to Chehalis R	23	Culvert	0	LG		RND	PCC	1.1	0.91	0.91	7.62
990738	SR 6	25.24	Unnamed	Rock Cr	23	Culvert	50	RR		RND	PCC	1.1	0.61	0.61	16.14
990754	SR 6	34.10	Unnamed	Chehalis R	23	Culvert	85	UD		RND	PCC	1.1	0.61	0.61	15.24
990756	SR 6	35.00	Unnamed	Chehalis R	23	Culvert	0	UD		RND	CAL	1.1	0.61	0.61	19.81
991542	SR 6	35.10	Unnamed	Chehalis R	23.1098	Culvert	0	RR		RND	CST	1.1	0.91	0.91	15.24
990826	SR 7	3.36	Unnamed	Tilton R	26	Culvert	0	RR	11.95	RND	PCC	1.1	0.90	0.90	17.50
990831	SR 7	5.50	Unnamed	Tilton R	26	Culvert	0	RR	15.13	BOX	CPC	1.2	1.52	1.52	32.29
990832	SR 7	5.64	Unnamed	Tilton R	26	Culvert	0	LG		BOX	CPC	1.1	1.24	1.24	19.03
990833	SR 7	6.91	Unnamed	Tilton R	26	Culvert	0	RR	3.12	BOX	CPC	1.1	1.22	1.22	41.70
990836	SR 7	7.36	Unnamed	Tilton R	26	Culvert	0	LG		BOX	CPC	1.1	1.22	1.83	27.32
990841	SR 7	8.89	Tilton R	Mayfield Lk	26	Culvert	0	RR	4.41	BOX	CPC	1.1	0.93	1.54	18.16
990689	SR 7	9.70	Unnamed	Summit Cr	11	Culvert	0	UD		RND	PCC	1.1	0.61	0.61	15.24
990690	SR 7	9.85	Unnamed	Summit Cr	11	Culvert	0	RR		RND	PCC	1.1	0.91	0.91	34.75
990657	SR 7	10.25	Unnamed	Summit Cr	11	Culvert	0	RR		BOX	PCC	1.1	1.22	1.22	19.81
990658	SR 7	10.80	Unnamed	Round Top Cr	11	Culvert	5	RR		BOX	PCC	1.1	1.22	1.22	30.48
990662	SR 7	11.20	Unnamed	Round Top Cr	11	Culvert	0	RR		BOX	PCC	1.1	0.91	0.91	10.67

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
990663	SR 7	11.40	Unnamed	Round Top Cr	11	Culvert	50	LG		RND	PCC	1.1	0.46	0.46	10.67
990084	SR 7	11.60	Coal Cr	Nisqually R	11.0168	Culvert	67	RR	8.86	BOX	PCC	1.1	1.52	0.91	12.19
990670	SR 7	12.80	Unnamed	Mineral Lk	11	Culvert	35	RR		RND	PCC	1.1	0.76	0.76	10.67
990672	SR 7	14.70	Unnamed	East Cr	11	Culvert	33	UD		RND	PCC	1.1	0.61	0.61	
991388	US 101	1.00	Unnamed	Columbia R	24.0047	Culvert	0	RR	23.64	RND	PCC	1.1	0.91	0.91	22.10
991359	US 101	1.30	Unnamed	Columbia R	24.0045	Culvert	0	RR	18.59	RND	PCC	1.1	0.61	0.61	27.11
992817	US 101	1.62	Unnamed	Columbia R	24.0044	Culvert	0	RR	4.86	RND	PCC	1.1	0.91	0.91	
991358	US 101	2.00	Unnamed	Columbia R	24.0042	Culvert	0	RR	15.33	RND	PCC	1.1	0.61	0.61	16.64
992818	US 101	2.29	Unnamed	Columbia R	24.0042	Culvert	0	RR	12.44	RND	PCC	1.1	0.91	0.91	19.45
991390	US 101	2.58	Unnamed	Columbia R	24.0041	Culvert	0	RR	17.99	RND	PCC	1.1	0.61	0.61	16.80
992821	US 101	3.30	Unnamed	Columbia R	24	Culvert	0	RR	25.25	RND	PCC	1.1	0.61	0.61	20.49
992823	US 101	7.11	Chinook R	Columbia R	24	Culvert	33	RR		BOX	CPC	1.3	2.55	2.40	25.02
991308	US 101	21.27	Unnamed	Willapa Bay	24.0679	Culvert	67	RR	12.13	RND	PCC	1.2	0.91	0.91	19.37
991386	US 101	21.40	Unnamed	Willapa Bay	24.0680	Culvert	33	RR	10.28	RND	PCC	1.1	0.91	0.91	22.96
992836	US 101	22.12	Unnamed	Willapa Bay	24	Culvert	67	LG		RND	PCC	1.1	0.60	0.60	16.93
992838	US 101	23.31	Unnamed	Willapa Bay	24.0676	Culvert	33	RR	10.01	RND	PCC	1.1	0.90	0.90	23.59
992298	US 101	46.12	Unnamed	Willapa Bay	24	Culvert	0	RR	7.45	RND	PCC	1.1	0.92	0.92	61.96
990176	US 101	46.96	Hansen Cr	Willapa Bay	24.0403	Culvert	0	RR		BOX	PCC	1.1	1.83	1.83	31.23
992311	US 101	53.56	Old Mill Pond Cr	Willapa R	24	Culvert	33	RR	15.68	RND	PCC	1.1	0.75	0.75	46.46
990053	US 101	61.15	Butte Cr	Smith Cr	24.0060	Culvert	33	RR	19.38	BOX	PCC	1.1	1.83	2.95	18.63
990054	US 101	61.17	Unnamed	Butte Cr	24	Culvert	33	RR		RND	PCC	1.1	0.91	0.91	25.11
991517	US 101	61.26	Unnamed	Butte Cr	24	Culvert	0	RR	10.24	RND	PCC	1.1	0.61	0.61	22.25
991320	US 101	64.36	Unnamed	Smith Cr	24	Culvert	33	RR	6.23	BOX	CPC	1.1	0.91	0.95	18.03
991323	US 101	65.71	Unnamed	Elkhorn Cr	24	Culvert	67	RR	12.35	BOX	PCC	1.1	0.91	0.95	19.48
991426	US 12	72.45	Unnamed	Lacamas Cr	26.0474	Culvert	33	RR	12.03	BOX	PCC	1.1	0.92	0.92	22.00
992084	US 12	90.71	Unnamed	Riffe Lk	26	Culvert	0	LG		SQSH	SPS	1.1	1.05	1.65	
992085	US 12	91.25	Unnamed	Riffe Lk	26	Culvert	0	RR	2.01	SQSH	SPS	1.1	1.45	1.90	31.32
992087	US 12	92.09	Unnamed	Riffe Lk	26	Culvert	0	LG		ELL	SPS	1.1	1.70	1.35	
992090	US 12	93.14	Unnamed	Unnamed to Riffe Lk	26	Culvert	0	LG		ELL	SPS	1.1	1.90	1.55	127.50
992092	US 12	93.80	Unnamed	Unnamed to Riffe Lk	26	Culvert	0	RR	1.89	RND	CST	1.1	1.28	1.28	58.96
992096	US 12	94.15	Highland Cr	Tilton R	26.0590	Culvert	0	RR	7.26	ELL	SPS	1.1	2.00	1.68	65.60
990190	US 12	95.75	Highland Cr	Tilton R	26.0590	Culvert	67	RR	14.77	ELL	SPS	1.2	2.58	2.38	28.91
992099	US 12	95.98	Unnamed	Highland Cr	26	Culvert	67	RR	5.21	ELL	CST	1.1	1.32	1.12	37.26
993141	US 12	101.90	Unnamed	Unnamed to Riffle Lk	26	Culvert	0	LG		RND	PCC	1.1	0.46	0.46	38.50
992113	US 12	103.43	Unnamed	Riffe Lk	26	Culvert	0	RR	3.01	RND	CST	1.1	0.90	0.90	93.30
990944	US 12	103.98	Steffen Cr	Riffe Lk	26.0652	Culvert	67	RR	8.63	SQSH	SPS	1.1	2.39	3.52	24.50
990401	US 12	109.27	Stiltner Cr	Rainey Cr	26.0654	Culvert	33	RR	3.09	BOX	CPC	1.1	0.95	1.83	18.67
992150	US 12	112.08	Unnamed	Kiona Cr	26	Culvert	0	RR	1.61	RND	PCC	1.1	1.05	1.05	44.10
992151	US 12	112.95	Oliver Cr	Kiona Cr	26.1025	Culvert	67	RR	2.85	ARCH	CPC	1.1	3.02	5.89	31.20

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
990338	US 12	113.73	Peters Cr	Kiona Cr	26.1023	Culvert	0	LG		BOX	CPC	1.1	2.44	3.05	45.10
992227	US 12	114.96	Miller Cr	Cowlitz R	26.1028	Culvert	33	RR	11.67	ARCH	CPC	1.1	1.35	5.75	24.35
992282	US 12	124.97	Burton Cr	Cowlitz R	26.1106	Culvert	0	RR	3.31	SQSH	SPS	1.1	2.00	2.95	27.58
991880	US 12	137.73	Unnamed	Cowlitz R	26	Culvert	0	LG		RND	CST	1.1	0.90	0.90	38.51
991743	US 12	149.98	Unnamed	Millridge Cr	26	Culvert	33	RR	3.83	BOX	CPC	1.1	1.85	2.45	34.75
990845	US 97	12.90	Unnamed	Little Klickitat R	30	Culvert	33	RR		RND	SPS	1.1	2.74	2.74	69.00
990846	US 97	13.39	Unnamed	Little Klickitat R	30	Culvert	67	LG		BOX	PCC	1.1	1.83	1.83	34.14
990848	US 97	18.40	Jenkins Cr	Little Klickitat R	30.0128	Culvert	33	RR		BOX	CPC	1.1	1.83	2.45	35.24
990850	US 97	21.16	W Prong L Klickitat R	Little Klickitat R	30.0135	Culvert	67	RR	8.13	BOX	CPC	1.1	3.05	3.05	54.55
990052	US 97	21.35	Butler Cr	EF Little Klickitat	30.0140	Culvert	67	RR	8.39	RND	SPS	1.1	3.20	3.20	35.61
990851	US 97	23.99	Dry Cr	Little Klickitat R	30.0147	Culvert	33	RR		BOX	CPC	1.1	1.83	3.07	25.60
990853	US 97	25.41	E Prong L Klickitat R	Klickitat R	30.0139	Culvert	0	RR	4.91	BOX	CPC	1.1	1.23	1.85	28.37
990854	US 97	25.59	Idlewild Canyon Cr	EF L Klickitat R	30.0152	Culvert	33	RR	4.12	BOX	CPC	1.1	0.94	1.23	20.51
991955	US 97	27.97	SF Shinando Cr	Shinando Cr	37.1104	Culvert	0	RR	5.47	ELL	SPS	1.1	1.83	1.52	108.81
990857	US 97	30.10	Shinando Cr	Satus Cr	37.1103	Culvert	0	RR	11.76	BOX	PCC	1.1	1.83	1.52	76.20
WSDOT District 4 - South Central															
991457	I-82	26.26	Unnamed	Yakima R	39.0002A	Culvert	80	RR	7.03	RND	SPS	1.1	3.05	3.05	82.30
992948	I-90	60.58	Unnamed	Keechelus Lk	39	Culvert	0	RR	6.08	OTH	OTH	1.1	1.85	1.96	86.50
992950	I-90	61.34	Price Cr	Yakima R	39.1840	Culvert	0	RR	6.42	BOX	CPC	1.1	3.06	3.09	81.69
992953	I-90	62.30	Unnamed	Yakima R	39	Culvert	33	LG		RND	PCC	1.1	1.81	1.81	26.65
992954	I-90	62.30	Unnamed	Yakima R	39	Culvert	0	LG		BOX	CPC	1.1	1.84	1.84	23.70
992955	I-90	62.71	Swamp Cr	Yakima R	39.1836	Culvert	33	RR	17.22	BOX	CPC	1.2	1.84	2.45	67.66
990378	I-90	70.90	Silver Cr	Yakima R	39.1713	Culvert	67	RR	19.29	BOX	PCC	1.2	1.84	2.88	91.49
990891	I-90	74.90	Unnamed	Yakima R	39	Culvert	0	LG		RND	CST	1.2	1.22	1.22	28.35
995465	I-90	88.42	Thorton Cr	Yakima R	39.1418	Culvert	0	RR		RND	CST	1.1	0.91	0.91	141.22
991464	I-90	93.35	Morrison Canyon Cr	Yakima R	39.1230	Culvert	33	RR	3.95	RND	SPS	1.1	1.22	1.22	79.25
990194	I-90	97.30	Unnamed	Taneum Cr	39	Culvert	0	UD		RND	CST	1.1	0.76	0.76	106.68
995459	I-90 Off Exit 84 WB	0.28	Unnamed	Unnamed	39	Culvert	67	RR		RND	PCC	1.1	1.90	1.90	53.44
991458	SR 224	0.10	Unnamed	Yakima R	37.0196	Culvert	0	RR	8.17	BOX	PCC	1.1	2.44	1.83	23.77
990439	SR 241	8.80	Unnamed	Sulphur Cr Wstwy	37	Culvert	0	UD		RND	PCC	1.1	1.22	1.22	40.90
990472	SR 410	80.20	Wash Cr	American R	38.1019	Culvert	0	RR	11.89	RND	PCC	1.2	1.22	1.22	29.87
991461	SR 410	116.00	Unnamed	Naches R	38	Culvert	50	UD		RND	PCC	1.1	0.40	0.40	13.72
991456	SR 821	0.10	Unnamed	Yakima R	39.0002A	Culvert	50	RR	8.84	RND	SPS	1.1	3.05	3.05	49.99
990183	US 12	168.30	Hause Cr	Tieton R	38.0251	Culvert	0	RR	7.16	BOX	PCC	1.1	1.22	1.22	15.24
992140	US 12	168.56	Pine Cr	Tieton R	38.0250	Culvert	33	RR	1.62	RND	PCC	1.1	0.84	0.84	17.71

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
992148	US 12	178.89	Bear Canyon Cr	Tieton R	38.0208	Culvert	0	RR		BOX	PCC	1.2	1.25	1.21	16.79
990293	US 12	348.50	Mud Cr	Dry Cr	32.0956	Culvert	33	RR	5.78	RND	CST	1.1	2.60	2.60	49.94
991746	US 12	390.59	Pataha Cr	Tucannon R	35	Culvert	33	RR		ARCH	CPC	1.1	5.34	18.90	7.30
990189	US 97	37.14	Highbridge Springs	Satus Cr	37	Fishway	0	RR	6.13						
995624	US 97	38.42	Unnamed	Satus Cr	37	Culvert	67	RR		BOX	CPC	1.1	0.91	1.84	31.02
990129	US 97	143.25	Dry Cr	Yakima R	39.1049	Culvert	67	RR		BOX	CPC	1.2	1.22	1.53	25.46
990130	US 97	144.89	Dry Cr	Yakima R	39.1049	Culvert	0	RR		SQSH	CST	1.2	0.91	1.45	27.06
WSDOT District 6 - Eastern															
990873	I-90	198.85	Unnamed	E Low Canal	41	Culvert	0	LG		RND	SPS	1.1	1.83	1.83	76.20
990874	I-90	202.55	Unnamed	E Low Canal	41	Culvert	0	LG		RND	SPS	1.1	1.83	1.83	91.44
990226	SR 194	1.20	Little Almota Cr	Snake R	35.1018	Culvert	0	RR	6.29	RND	CST	1.1	0.91	0.91	42.67
994273	SR 195	93.39	Marshall Cr	Hangman Cr	56.0008	Culvert	0	RR	9.57	BOX	CPC	1.1	1.91	1.91	63.60
992122	SR 20	361.47	Unnamed	Keogh Lk	59	Culvert	67	RR		RND	CAL	1.1	0.60	0.60	32.52
990303	SR 20	363.73	Narcisse Cr	Lk Pend Oreille	59.0252	Culvert	0	RR		RND	PCC	1.2	0.96	0.96	15.80
990881	SR 20	380.10	Unnamed	Lk Thomas	59	Culvert	33	RR		SQSH	CST	1.1	0.95	1.45	25.90
990350	SR 20	388.13	Renshaw Cr	Pend Oreille R	62.0310	Culvert	33	RR		RND	CST	1.2	0.90	0.90	22.09
990351	SR 20	389.50	Renshaw Cr	Pend Oreille R	62.0310	Fishway	0	RR							
990353	SR 20	403.60	Reynolds Cr	Pend Oreille R	62.0408	Culvert	0	RR	2.65	RND	PCC	1.1	0.76	0.76	43.47
990280	SR 21	115.50	Meadow Cr	Sanpoil R	52	Culvert	0	UD		BOX	PCC	1.1	1.83	1.83	
990204	SR 21	117.05	Jack Cr	Sanpoil R	52	Culvert	0	RR	3.13	BOX	PCC	1.1	1.22	1.22	
990140	SR 21	120.10	Empire Cr	Sanpoil R	52	Culvert	0	RR	7.56	BOX	PCC	1.1	0.91	1.22	27.43
990056	SR 21	123.60	Cache Cr	Sanpoil R	52	Culvert		UD		BOX	PCC	1.1	1.22	0.91	
990013	SR 21	139.40	Anderson Cr	Sanpoil R	52	Culvert	0	RR	3.58	BOX	PCC	1.1	2.44	1.22	
990399	SR 21	175.20	St Peter's Cr	Curlew Cr	60	Culvert	0	RR	6.62	RND	CST	1.1	1.07	1.07	21.34
990372	SR 23	52.30	Sheep Cr	Upper Crab Cr	43.0852	Culvert	0	RR	3.99	BOX	PCC	1.1	3.05	2.29	35.97
991683	SR 231	36.10	Unnamed	Spring Cr	54.0108A	Culvert	0	LG		BOX	PCC	1.1	1.83	1.22	16.15
991470	SR 25	33.50	Unnamed	O-Ra-Pak-En Cr	58	Culvert	0	LG		RND	CST	1.1	0.91	0.91	36.58
990007	SR 25	37.60	Alder Cr	Lk Roosevelt	58.0134	Culvert	10	RR	6.61	BOX	PCC	1.1	1.83	1.52	20.42
990198	SR 25	42.37	Hunters Cr	Lk Roosevelt	58.0146	Culvert	20	RR	4.87	BOX	PCC	1.1	3.96	1.68	27.13
990343	SR 25	84.60	Pingston Cr	Columbia R	61.0007	Culvert	67	UD		BOX	PCC	1.1	1.22	1.22	3.05
995837	SR 270	4.29	Unnamed	Paradise Cr	34	Culvert	67	RR		BOX	CPC	1.1	1.85	1.30	25.49
990201	SR 31	3.80	Ione Millpond	Pend Oreille R	62.0279	Culvert	0	RR	11.73	BOX	PCC	1.1	2.44	2.13	25.91
990416	SR 31	10.70	Sweet Cr	Pend Oreille R	62.0224	Culvert	0	RR	3.17	BOX	PCC	1.1	2.59	2.29	19.51
990113	US 2	304.40	Deer Cr	Little Spokane R	55.0380	Fishway	33	RR							
990573	US 395	212.80	Unnamed	Colville R	59	Culvert	0	RR	2.91	RND	PCC	1.1	0.76	0.76	50.29

Appendix I. WSDOT Fish Passage Barriers Identified as of February 2005

Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	% Pass	Repair Status	PI	Shape	Material	Seq1	Rise (m)	Span (m)	Length (m)
990106	US 395	247.70	Deadman Cr	Kettle R	60.0008	Culvert	0	RR	11.48	BOX	PCC	1.1	2.13	1.52	45.72
990267	US 395	249.90	Matsen Cr	Kettle R	60.0056	Culvert	40	RR	2.76	RND	PCC	1.1	1.22	1.22	30.48
990124	US 395	250.20	Doyle Cr	Kettle R Arm	60.0060	Culvert	0	UD		RND	PCC	1.1	1.22	1.22	21.34

1 The sequencer identifies individual culverts at multiple stream crossings. Format X.Y, where X = specific culvert number, and Y = total number of culvert at a crossing.

For example, in a triple culvert crossing; the first pipe would be 1.3, the second 2.3, and the third 3.3.

Culvert Material:

PCC - precast concrete

CST - corrugated steel

SST - smooth steel

CAL - Corrugated aluminum

SPS - structural plate steel

PVC - plastic

TMB - timber

MRY - masonry

OTH - other

SPA - structural plate aluminum

Culvert Shape:

ARCH - bottomless arch

SQSH - squash

RND - round

BOX - rectangular

ELL - ellipse

OTH - other

Repair Status:

RR - repair required; threshold habitat gain met

LG - limited gain; below threshold habitat gain

UD - undetermined repair status; threshold habitat gain not determined

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
WSDOT Northwest Region												
SR 542	6.55	Anderson Cr 01.0228 4.80	Nooksack R	1.0228	100	10/13/2004	WP;BC	Annual	MNFP	Recommending bedload removal from gravel sump and pools of weir-pool fishway and placing it downstream to continue natural process; adding a gate in the access road. Fish Passage is impeded at higher flows, when the pools are turbulent due to low capacity.		
SR 9	1.16	Ashley Cr 990316	Little Bear Cr	8.0083	67	10/14/2004	SBC	Not inspected	MNR	The plank controls do not back water into the culvert. The culvert needs to be replaced.	TP	U
I-5	256.28	Baker Cr 990022	Squalicum Cr	01.0553	33	05/25/2004	BC;SBC	Not inspected	MNR	Many of the original baffles are gone; high velocities in the culvert, which is rusting out.	DI	S
I-5 Ext 256 NB		Baker Cr 992978	Squalicum Cr	01.0553	67	05/25/2004	B	Not inspected	MNR	One baffle was missing from the sequence at the time of review, creating a partial barrier.		U
I-5	244.20	Barnes Cr 990025	Samish Lk	03.0036	33	01/13/2004	SBC	Not inspected	MNR	Some of the log controls exceed outfall drop criteria, and the culvert is only partially backwatered.		U
SR 410	48.31	Boundary Cr 105 R071916a	White R	10.0250	33	12/29/2003	SBC	Not inspected	MNR	The culvert is only backwatered for 16 meters; sheeting flows in upper end of the culvert. Upper two culvert sections slightly elevated, creating grade break.	TP	U
I-5	238.40	Bow Hill Rd 03.0016 0.40	Friday Cr	3.0016	100	10/13/2004	BC;SBC	Annual	MNFP	Fish passage is impaired; recommending removing debris from baffles, mostly beaver cuttings.		
SR 92	1.93	Catherine's Cr 07.0148 1.30	Stevens Cr	7.0148	67	10/14/2004	BC	Not inspected	MNR	The outfall drop (1.4 ft.) exceeds WDFW criteria. Downstream controls are needed to reduce drop, or the culvert need to be replaced.	DI	S
I-5	246.75	Chuckanut Cr 995411	Puget Sound	01.0626	33	05/26/2004	BC;SBC	Not inspected	MNR	More than half of the baffles are damaged or are gone. The last ~40 m lacks baffles and is undermined.	TP	S

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
SR 532	6.14	Church Cr 05.0018 2.00	Stillaguamish R	5.0018	67	10/13/2004	SBC	Not inspected	MNR	Downstream controls need correction to decrease drop at the downstream most log control. Baffles are also recommended to correct sheeting flow in the culvert at low flows.		U
SR 18	25.80	Deep Cr 07.0396 0.80	Raging R	07.0396	33	04/22/1997	BC;SBC	Not inspected	MNR	Deteriorated culvert baffles and outfall drop block coho and juveniles. Rebuilding is needed. Engineering required.	DI	S
SR 509	20.35	Des Moines Cr 990115	Puget Sound	09.0377	33	12/17/2003	BC	Not inspected	MNR	Culvert is backwatered by a baffle for only half of its length, creating sheet flow and high velocity in the upper end. This is an ineffective fishway. Recommend bridge.	OTH	S
I-90	18.83	EF Issaquah Cr 08.0183 1.60	Issaquah Cr	08.0183	33	05/13/1994	SBC	Not inspected	MNR	The middle saccrete control is deteriorating and about to blow out. It needs to be repaired or replaced.		U
SR 202	11.96	Evans Cr 990142	Bear Cr	8.0106	100	11/14/2004	LC	Annual	MNFP	Remove large woody debris from culvert baffles; add a 3.5 inch board at the apron slot to correct sheet flow problem; adjust drops throughout fishway to <0.30m; and remove bedload from all pools above the second weir.		
I-5	219.41	Fisher Cr 03.0181 0.50	Carpenter Cr	3.0181	67	10/13/2004	BC	Not inspected	MNR	More baffles are needed below the downstream most baffle to correct a depth problem. Expansion ring baffles are recommended.		U
SR 18	22.16	Holder Cr 990173	Sammamish Lk	08.0178	0	12/30/2003	BC	Not inspected	MNR	Excessive outfall drop (1.04m), velocity and sheet flow problems on the downstream apron. In addition, bedrock and large boulders block the entrance pool below the apron.		U
SR 528	2.47	Munson Cr 990294	Allen Cr	07.0073	67	01/16/2004	SBC	Not inspected	MNR	The outfall drops at three of the downstream controls and the upstream controls exceed WDFW fish passage criteria.		U

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
I-405	26.46	Perry Cr 08.0070 A 0.25	North Cr	08.0070 A	67	10/14/2004	BC	Not inspected	MNR	Replace missing baffle inside culvert, and eliminate sheet flow at culvert outlet by installing downstream controls or additional baffle.	TP	S
I-405	29.75	Swamp Cr 08.0059 7.00	Sammamish R	08.0059	67	11/14/2004	SBC	Triennial	MNR	Replace blown out downstream saccrete control or addition of baffle system to culvert to eliminate sheetflow.	DI	S
SR 522	2.86	Thornton Cr 990430	Lk Washington	8.0030	67	09/20/1999	BC;PC	Not inspected	MNR	There is a bracket in place for plank controls, but no planks in place. No DS controls visible.		U
SR 531	8.71	Unnamed 991059	MF Quilceda Cr	07.0060	67	01/15/2004	SBC	Not inspected	MNR	Excessive drop and improper spacing at two of the log controls. Coho carcasses seen DS.		U
SR 520	4.48	Unnamed 994459	Lk Washington	08.0257	33	12/30/2003	SBC	Not inspected	MNR	The control does not backwater far enough to provide fish passage all the way through.		U
SR 530	31.01	Unnamed 990644	NF Stillaguamish R	05	67	01/16/2004	SBC	Not inspected	MNR	The outfall drop (0.33m) below this log control exceeds WDFW criteria. Problem could be corrected by countersinking the culvert without replacement.		U
SR 18	0.83	Unnamed 996277	Unnamed	10	67	03/02/2004	SBC	Not inspected	MNR	The outfall drop at the rock control exceeds WDFW fish passage criteria.	TP	S
US 2	23.08	Wagley's Cr 07.0939 0.40	Skykomish R	07.0939	33	08/19/2003	WP	Not inspected	MNR	The fishway is non-functional and prone to debris plugging. Most of the wooden components have deteriorated. The fishway needs to be replaced.	OM	S
WSDOT North Central Region												
SR 28	22.27	Baird Springs 990882	Columbia R	40	0	01/23/2004	BC	Not inspected	MNR	Most of the baffles deteriorated or completely gone (including the apron baffle); the outfall drop at the downstream apron is 1.5m, with large rip-rap in a very shallow plunge pool.		U
SR 20	181.34	Little Boulder Cr 990228	Methow R	48.1400	0	06/09/2004	BC	Not inspected	MNR	A log jam on the 7th baffle; pools upstream of baffle filled with gravel. There is a 1.2 m outfall drop at the culvert.	DI	S

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
WSDOT Olympic Region												
SR 308	1.15	Big Scandia Cr 15.0280 1.00	Liberty Bay	15.0280	67	11/17/2004	BC;SBC	Not inspected	MNR	Re-attached baffles have not been sealed close to the bottom. As a result, baffles do not backwater during low flows. Recommended installing different type of baffles.		U
US 12	12.48	Camp Cr 22.0351 0.10	Metcalf Sl	22.0351	100	11/19/2004	SBC	Triennial	MNFP	Remover beaver cuttings and other debris from the two upstream most concrete weirs. Clear all plunge pool areas of large rock. Remove roll of fencing from the pool below the downstream weir.		
SR 3	40.50	Chico Cr 15.0229 0.10	Dyes Inlet	15.0229	67	11/17/2004	BC	Not inspected	MNR	Install two additional baffles at the head end of the culvert to eliminate sheet flow at low flow. Baffle guides were originally provided.		U
US 101	346.95	Coffee Cr 115 MC093	Goldsborough Cr	14.0036	67	04/28/2004	SBC	Not inspected	MNR	Three rock controls downstream of a long culvert; high water velocity in the middle of the culvert.		U
SR 112	48.49	Field Cr 990144	Strait of Juan de Fuca	19.0026	67	12/09/2003	SBC	Not inspected	MNR	The drop at the single downstream log control has increased to 0.34 meters. An upstream log control with excessive drop was removed in 2001.		U
US 101	238.35	Indian Creek 18.0283 2.00	Elwah R	18.0283	67	11/03/2004	BC	Not inspected	MNR	The first weir DS has a drop of over 0.5 m. the baffle should be notched (requiring concrete cutting) to facilitate fish passage.		U
US 101	267.16	Johnson Cr 990219	Port Williams	17.0301	67	11/03/2004	BC;SBC	Not inspected	MNR	An engineering plan is required to address the existing 0.41 meter drop over the exposed /bedrock control. If the control fails, the upstream log controls will fail as well.		U
SR 167 Ext 8 NB	0.16	Jovita Cr 105 R050320a	Milwaukee Canal	10.0034	67	03/09/2004	BC	Not inspected	MNR	Drops over 3 downstream baffles and first upstream saccrete control exceed WDFW criteria.		U

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
US 101	250.50	Lees Cr 990240	Strait of Juan de Fuca	18.0232	0	04/28/2004	BC;PC	Not inspected	MNR	Excessive slope at the extensions (upstream and downstream ends) of the culvert. These problems are scheduled to be addressed in the future.	DI	S
SR 302	11.36	Little Minter Cr 15.0051 0.10	Minter Cr	15.0051	67	11/17/2004	BC;SBC	Not inspected	MNR	Recommending adding upstream baffle to eliminate sheet flow. The outfall drop exceeds WDFW criteria for chum passage. Rock controls need to be replaced to accommodate chum.		U
SR 302	11.42	Little Minter Cr 15.0051 0.20	Minter Cr	15.0051	67	11/17/2004	BC;SBC	Not inspected	MNR	Re-space the culvert baffles and add one to eliminate a sheet flow problem below the first interior baffle. Corrections are needed downstream to address the erosion around the ends of the first two plank controls.		U
US 101	260.95	Matriotti Cr 18.0021 5.40	Milwaukee Canal	18.0021	67	11/03/2004	SBC	Not inspected	MNR	At least two of the log controls remain unsealed and have failed. Engineering required to replace the existing logs.		U
SR 3	44.80	Strawberry Cr 15.0246 0.96	Dyes Inlet	15.0246	100	07/27/2004	BC;SBC	Annual	MNFP	Two of the three saccrete controls exceed the 0.3m drop criteria for coho and chum.		U
US 101	197.10	Swanson Cr 20.0312 0.60	Soleduck R	20.0312	67	11/19/2004	BC;SBC	Not inspected	MNR	The drop at the concrete control (0.44m) exceeds WDFW criteria; baffle divider wall needs to be sealed to insure proper flow to the fishway.		U
SR 109	36.40	Unnamed 991270	Pacific Ocean	21.0715	67	10/12/2004	WP	Not inspected	MNR	The rock control downstream of the weir-pool structure needs to be replaced with larger rip-rap, keyed into the banks at the ends. Culvert needs to be replaced.	DI	S
SR 16	20.36	Unnamed 991516	Burley Cr	15.0058	33	08/04/2004	BC	Not inspected	MNR	At least one stub baffle at the upper end has become detached. Small culvert size creates maintenance problems. A metal wingwall apron addition at the upstream end is a barrier to juveniles.		U
SR 3	47.72	Unnamed 996803	Clear Cr	15.0254	67	08/08/2004	BC	Not inspected	MNR	Drop at the downstream gabion control is 0.68 m.		U

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
SR 3	41.52	Unnamed 996742	Dyes Inlet	15.0241	0	07/15/2004	SBC	Not inspected	MNR	The drops at downstream saccrete controls exceed WDFW criteria. They are 0.55m and 0.45m. The steep culvert also has an interior grade break.		U
SR 3	41.81	Unnamed 996745	Dyes Inlet	15	0	07/20/2004	SBC	Not inspected	MNR	The saccrete control downstream is blown apart and the outfall drop at the culvert is 0.8m.		U
SR 3	42.21	Unnamed 996747	Dyes Inlet	15.0243	0	07/20/2004	SBC	Not inspected	MNR	The downstream saccrete controls are blown apart, leaving a 0.6m outfall drop at the culvert while the upstream end of the culvert has a concrete apron with a 0.9m infall drop into the culvert.		U
US 101	104.90	Unnamed	Fairchild Cr	Fairchild Cr	100	10/27/2004	PC	Annual	MNFP	Clear large rip-rap from entrance pool and remove large log at culvert outlet (first PC pool).		
US 101	111.90	Unnamed 991690	Stevens Cr	22	33	08/20/2002	BC	Not inspected	MNR	Two non-permanent baffles present. Not a functional fishway		U
SR 16	20.44	Unnamed 991867	Burley Cr	15	33	12/12/2003	BC	Not inspected	MNR	Small culvert size precludes proper fishway functioning. In addition, an upstream metal apron wingwall attachment creates a sheetflow. Two chum carcasses noted downstream.		U
SR 112	49.50	Whiskey Cr 990480	Strait Of Juan De Fuca	19.0020	33	01/27/2004	BC	Not inspected	MNR	A wooden plank "apron" at the culvert outlet causes sheet flow for 8 or 10 feet below the culvert's interior. There is also a 2 ft. outfall drop at the end of the wooden apron.		U
WSDOT Southwest Region												
SR 142	20.20	Bowman Cr 30.0068 0.40	L Klickitat R	30.0068	33	06/06/2001	BC;SBC	Not inspected	MNR	The concrete baffles have eroded and do not function effectively. The drop at the DS end exceeds 0.3 m. The entire crossing needs to be redesigned and replaced.	DI	S

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
Nevala Rd (SR 503 ROW)		Ross Cr 27.0305 1.00	NF Lewis R	27.0305	33	04/25/2001	BC	Not inspected	MNR	Recommending new culvert or a new retrofit. Almost all the baffles are gone and outfall drop over the attached steel plate is over two feet high.		U
SR 503	33.28	Unnamed 994532	Brooks Cr	27.0432	33	12/15/2003	BC	Not inspected	MNR	A 0.65 m outfall drop from the end of the downstream apron is a barrier to fish passage at most flows.		U
WSDOT South Central Region												
US 97	37.14	Highbridge Springs 990189	Satus Cr	37	0	01/21/2004	BC;SBC	Not inspected	MNR	Excessive drops and low pool volume.		U
WSDOT Eastern Region												
US 2	304.40	Deer Cr 990113	Little Spokane R	55.0380	33	01/22/2004	BC;SBC	Not inspected	MNR	Outfall drop from the concrete apron baffle is 0.7m; the interior baffles are not attached and have moved out of position.		U
SR 20	389.50	Renshaw Cr 990351	Pend Oreille R	62.0310	0	01/22/2004	SBC	Not inspected	MNR	The DS rock control has a drop of 0.42 m and only backwaters 1/3 of the steep culvert. The US plank control is too high (0.36m) and placed against the culvert end, so there is no plunge pool.		U

Fishway Type:

BC - baffled culvert
SBC - streambed control
WP - weir pool
PC - pool-chute

Condition:

MNR - requires replacement
MNFP - requires maintenance

Project Status:

S - fish passage project scheduled
U - fish passage project unscheduled

Funding Type:

TP - safety and mobility or other road improvement projects
DI - projects within the WSDOT Environmental Retrofit Program
OTH - other sources of funding supplementing or supplemented by WSDOT, such as counties, cities or tribal entities.
OM - projects completed during routine maintenance.

Appendix III. WSDOT Dedicated Funding Project Scoping Progress Report

SiteID	Road	MP	Stream	WRIA	Seq ¹	% Pass	PI	Survey Type	Spawn Area (m2)	Rear Area (m2)	# US Barr	Bio Lead	Bio Scope	Eng Lead	Eng Scoping	Design Option	Cost Estimate	Year	Project Status
WSDOT District 1 - Northwest																			
992385	I-405	15.09	Yarrow Cr to Lk Washington	08.0252	1.1	0	28.47	PS4	704	10,761	12	Johnson	Hold						Hold
08.0059	7.00 I-405	29.75	Swamp Cr to Sammamish R	08.0059		67	61.62	PS4	15,853	74,398	25	Johnson	Done	Powers	Done	Retrofit	266,000	2007	Const/T6
993898	I-405 ROW	29.67	Martha Cr to Swamp Cr	08	1.1	67	12.36	PS4	2,138	1,825	7	Uber	Done		Done				Hold
993090	I-5	182.73	Swamp Cr to Sammamish R	08.0059	1.2	67	58.42	PS4	13,663	55,006	25	Uber	Done/ 01	Ponder	Done/00	Retrofit	800,000	2008	Const/T6
992182	I-5	213.27	Unnamed to Unnamed	05.0065C	1.1	0	12.24	PS4	392	880	6	Johnson	Done/ 01	Powers	WSDOT	Replacement	360,000		Hold
991979	I-5	213.29	Unnamed to Unnamed	05.0065C	1.1	0	12.24	PS4	392	880	5	Johnson	Done/ 01	Powers	Done/00	Replacement	345,000		Hold
03.0181	0.50 I-5	219.41	Fisher Cr to Carpenter Cr	03.0181	1.1	67		LME								Fishway	20,000	1992	Done/W6
991725	I-5	224.62	Maddox Cr SF Skagit R	03.2966	1.1	33	13.60	PS4	2,398	7,699	11	Detrick	Done	Jensen	Done/02	Replacement	1,000,000		Hold
FR75	I-5	245.76	Unnamed to Lake Cr	03.0042	1.2	0		UETD			0	Detrick	Pending						Scope/PS
994233	I-5	250.55	Padden Cr to Bellingham Bay	01.0622	1.1	0	31.29	ETD	2,760	52,242	0	Detrick	Done						Hold
991036	I-5	255.15	Squalicum Cr to Bellingham Bay	01.0552	1.2	67		UETD			0	Detrick	Pending						Scope/PS
990022	I-5	256.28	Baker Cr to Squalicum Cr	01.0553		33	28.66	PS3	5,641	29,032	31	Uber	Done/01	Powers	Done/97	Replacement	1,500,000	2010	Const/T6
992003	I-5 NB on ramp	256.00	Baker Cr to Squalicum Cr	01.0553	1.1	67	25.69	PS3	4,316	11,892	31	Uber	Done/01	Jensen	Done/02	Replacement		2010	Const/T6
994561	I-5 ROW	174.85	Thornton Cr to Lk Washington	08.0030		0	23.76	PS4	186	19,020	12	Uber	Hold	Jenson	Pending				Hold
992798	I-90	13.83	Lewis Cr to Lk Sammamish	08.0162	1.1	0	30.43	PS4	3,986	6,663	6	Uber	Done/ 01	Powers	Done/01	Retrofit	3,500,000	2014	Const/T6
08.0183	1.60 I-90	18.83	EF Issaquah Cr to Issaquah Cr	08.0183		33		LME				Johnson	Pending						Scope
990253	SR 104	31.30	Lyon Cr to Lk Washington	08.0052	1.1	50	18.11	PS3	5,010	8,502	34	Johnson	Pending	Jenson	Done/01	Replacement	500,000		Hold
FD41	SR 20	44.74	Unnamed to Skagit Bay	03	1.1	67	28.68	FS	1,091	61,498	17	Detrick	Done						Const/Oth
991174	SR 202	19.69	Unnamed to Unnamed	07.0378	1.2	67		UETD			0	Detrick	Done						Hold
101S-22	SR 202	22.56	Unnamed to Snoqualmie R	07.0429	1.1	33		UETD			0	Detrick	Pending						Scope/PS
991720	SR 203	4.37	Unnamed to Snoqualmie R	07	1.1	33		UETD			0	Detrick	Pending						Scope/PS
995152	SR 204	1.80	Unnamed to Ebey Sl	07	1.1	0		UETD				Detrick	Done						Hold
105 R071916a	SR 410	48.29	Boundary Cr to White R	10.0250		33		UETD			0	Johnson	Pending						Scope
994236	SR 520	6.19	Yarrow Cr to Lk Washington	08.0252	1.2	67	22.86	PS4	1,343	12,850	28	Johnson	Hold						Hold
994449	SR 520 EB ramp	6.03	Yarrow Cr to Lk Washington	08.0252	1.1	67	23.12	PS4	1,682	13,511	30	Johnson	Hold						Hold
994227	SR 520 WB ramp	5.95	Yarrow Cr to Lk Washington	08.0252	1.2	67	23.18	PS4	1,682	13,720	32	Johnson	Hold						Hold
994234	SR 520 WB ramp	5.95	Yarrow Cr to Lk Washington	08.0252	1.2	67	22.08	PS4	1,682	13,826	33	Johnson	Hold						Hold
994238	SR 520 WB ramp	6.27	Yarrow Cr to Lk Washington	08.0252	1.1	67	22.70	PS4	968	12,144	21	Johnson	Hold						Hold
993100	SR 524	6.95	Martha Cr to Swamp Cr	08	1.1	0	13.80	PS4	1,971	1,403	4	Uber	Done/ 01	Jensen	Done/01	Replacement	250,000	2012	Const/T6
990294	SR 528	2.47	Munson Cr Allen Cr	07.0073		67										Fishway		2000	Scope
991159	SR 530	24.65	Unnamed to Stillaguamish R	05.0137	1.1	0	18.60	PS4	1,308	7,332	5	Detrick	Done/02	Powers	Done/00	Retrofit	1,312,000	2012	Const/T6
990644	SR 530	31.01	Unnamed to Stillaguamish R	05		67						Detrick	Done						Scope
990624	SR 532	9.75	Unnamed to Pilchuck Cr	05.0065	1.1	33	31.55	PS3	2,089	8,657	22	Johnson	Done	Powers	Done/00	Retrofit	143,000	2008	Const/T6
991803	SR 542	2.40	Toad Lk Cr to Squalicum Cr	01.0560	1.1	0	13.41	PS1	1,832	3,204	5	Uber	Done/ 01	Jenson	Done/00	Replacement	345,000	2006	Const/T6
01.0228	4.80 SR 542	6.55	Anderson Cr to Nooksack R	01.0228	1.1	100		LME				Detrick	Pending	Jenson		Bridge			Scope/PS
991621	SR 542	24.90	High Cr to Kendall Cr	01.0407	1.1	33	21.37	PS3	5,286	10,279	2	Uber	Done/ 01	Powers	Done/97	Retrofit	222,000	2006	Const/T6
990187	SR 542	32.00	Hedrick Cr to Nooksack R	01.0463	1.2	0	16.63	PS1	159	576	0	Uber	Done/ 01	Jenson	Done/04	Bridge	2,700,000	2006	Const/T6
995577	SR 542	43.52	Unnamed to Nooksack R	01	1.2	67		UETD			0	Detrick	Pending	Jenson	Pending				Scope
995585	SR 542	46.11	Unnamed to Nooksack R	01	1.2	67		UETD			0	Detrick	Pending	Jenson	Pending				Scope
990429	SR 548	4.67	Terrell Cr to Birch Bay	01.0089	1.1	0	31.43	PS4	2,767	52,518	11	Burns	Pending	Jenson	Done	Retrofit	50,000		Scope
981788	SR 548	6.35	Terrell Cr to Birch Bay	01.0089	1.1	0	46.82	PS4	8,060	74,822	14	Burns	Pending	Jensen	Done	Replacement	900,000		Scope
990316	SR 9	1.16	Ashley Cr Little Bear	08.0083	1.1	67	14.24	PS1	1,501	2,709						Retrofit	24,264	1997	Done/W6
102 Q028	SR 9	24.44	Unnamed to MF Quilceda Cr	07	1.1	67		UETD			0								Scope
991122	SR 9	48.00	Gribble Cr to Nookachamps Cr	03.0227	1.1	33	21.92	PS4	1,743	18,551	8	Detrick	Done/ 01	WSDOT	Done	Retrofit	208,000	2006	Const/T6

Appendix III. WSDOT Dedicated Funding Project Scoping Progress Report

SiteID	Road	MP	Stream	WRIA	Seq ¹	% Pass	PI	Survey Type	Spawn Area (m2)	Rear Area (m2)	# US Barr	Bio Lead	Bio Scope	Eng Lead	Eng Scoping	Design Option	Cost Estimate	Year	Project Status
992344	SR 9	76.91	Unnamed To Black Sl	01	1.1	0	22.10	ETD	0	12,054	0	Detrick	Pending						Scope
992345	SR 9	77.12	Black Sl to SF Nooksack R	01.0250	1.1	67	23.22	ETD	298	17,980	0	Detrick	Pending						Scope
991821	SR 92	0.47	Stevens Cr to Lk Stevens	07.0147	1.1	0	22.00	PS4	879	3,126	10	Uber	Done/ 01	Powers	Done/00	Replacement	400,000	2007	Const/T6
07.0148 1.30	SR 92	1.93	Catherine Cr to Stevens Cr	07.0148		67	24.76	PS4	3,207	99,551	2	Uber	Done/ 01	Powers	Done	Retrofit	208,000	2007	Const/T6
102 N183	SR 96	0.47	North Cr to Sammamish R	08.0070	1.1	33	32.09	FS	2,999	4,502	5	Johnson	Pending	Jenson	Pending				Scope
995215	SR 96	5.98	Unnamed to Unnamed	07.0123	1.1	33		UETD			1	Detrick	Pending	Jenson	Pending				Hold
993849	SR 99	51.45	Unnamed to Swamp Cr	08	1.1	0	14.79	PS4	3	721	1	Johnson	Done	Powers	Pending				Hold
993834	SR 99	52.70	Swamp Cr to Sammamish R	08.0059	1.1	67	17.15	PS4	414	3,171	11	Johnson	Done/ 01	Jenson	Done/01	Replacement	500,000		Hold
102 N192	SR 99	54.23	North Cr to Sammamish R	08.0070	1.1	33	21.31	FS	219	2,313	2	Johnson	Pending	Jenson	Pending				Scope
991822	US 2	34.35	Unnamed to Skykomish R	07	1.2	0		UETD				Detrick	Done						Hold
995000	US 2	45.47	Unnamed to SF Skykomish R	07.1298	1.1	67		UETD			0								Scope
WSDOT District 2 - North Central																			
992845	SR 155	66.94	Stapaloop Cr to Omak Cr	49.0152	1.1	33	16.31	ETD	10,545	21,629	0	Johnson	Pending	McCoy	Pending				Scope/PS
990228	SR 20	181.34	Little Boulder Cr to Methow R	48.1400		0	15.67	PS4	2,144	5,893	0	Uber	Done/ 01	Heiner	Done/00	Replacement	848,000	2006	Const/T6
980114	SR 20	205.84	Beaver Cr to Methow R	48.0307	1.2	67	43.61	RSFS	49,721	105,061	68	Johnson	Done	Heiner	Done/99	Replacement	822,000	2006	Const/T6
980124	SR 20	206.85	Frazer Cr to Beaver Cr	48.0309	1.2	67	19.05	RSFS	7,911	11,267	21	Johnson	Done	Heiner	Done/99	Replacement		2006	Done/T6
990282	US 2	70.21	Mill Cr to Nason Cr	45.0956	1.1	0	19.09	RSFS	25,289	29,203	3	Uber	Done/ 01	Heiner	Done/00	Replacement	1,065,000	2006	Const/T6
WSDOT District 3 - Olympic																			
990199	I-5	105.85	Indian Cr to Moxlie Cr	13.0026	1.1	0	28.26	PS3	1,624	18,204	13	Uber	Done/ 01	Powers	Done/02	Replacement	1,100,000	2014	Const/T6
990200	I-5	106.80	Indian Cr to Moxlie Cr	13.0026	1.1	0	19.33	PS4	2	15,037	2	Johnson	Done	Barnard	Pending				Hold
992196	SR 104	12.70	Unnamed to Squamish Harbor	17.0185	1.1	0	12.89	PS4	91	2,276	2	Johnson	Done/ 01	Powers	Done/01	Replacement	321,000	2006	Const/T6
992207	SR 104	22.95	Unnamed to Appletree Cove	15.0309	1.1	0	17.22	ETD	2,578	3,461	0	Burns	Pending						Scope
990384	SR 106	0.85	Skobob Cr to Skokomish R	16.0004	1.1	67	19.96	ETD		18,500	0	Johnson	Done	WSDOT	Done	Bridge	1,280,000	2005	Const/T6
991272	SR 109	33.10	Unnamed to Pacific Ocean	21.0728	1.1	0	17.18	PS4	5,849	4,665	2	King	Done	Klavas	Done/01	Replacement	450,000	2012	Const/T6
991271	SR 109	36.30	Unnamed to Pacific Ocean	21.0716	1.1	0	14.56	PS1	1,239	1,482	0	King	Done	Klavas	Done/01	Replacement	100,000	2012	Const/T6
991270	SR 109	36.40	Unnamed to Pacific Ocean	21.0715	1.1	67	15.79	PS1	1,289	1,783	0	King	Done	Powers	Done	Fishway	110,000	2008	Const/T6
996684	SR 112	17.14	Unnamed to Clallam R	19	1.1	0		UETD			0	King	Pending						Scope
990714	SR 112	24.91	Unnamed to Pysht R	19.0113K	1.2	0	28.00	PS4	4,312	3,574	0	Uber	Done/ 01	Powers	Done/97	Replacement	462,000	2006	Const/T6
991730	SR 112	25.60	Unnamed to Pysht R	19	1.1	67		UETD			0	King	Pending						Scope
990941	SR 112	29.66	Unnamed to Butler Cr	19	1.1	0	14.20	RSFS	864	1,739	0	Uber	Done/ 01	Lautz	Done/02	Replacement		2010	Const/T6
991258	SR 112	29.71	Butler Cr to Butler Cove	19.0112	1.1	0	16.02	RSFS	1,386	2,824	1	Uber	Done/ 01	Lautz	Done/02	Replacement	850,000	2012	Const/T6
990214	SR 112	33.21	Joe Cr to Strait of Juan de Fuca	19.0109	1.2	67	21.84	FS	5,397	11,407	1	King	Done	Barnard	Done	Str.Simulation	822,630		Scope
990144	SR 112	48.49	Field Cr to Strait of Juan de Fuca	19.0026		67		TD				King	Pending			Replacement		2001	Scope
990480	SR 112	49.48	Whiskey Cr to Strait of Juan de Fuca	19.0020		33	8.05	PS3	166	346	0								Scope
990713	SR 112	54.35	Bear Cr to Salt Cr	19.0014	1.1	33	19.01	PS4	4,023	6,694	5	Uber	Done/ 01	Powers	Done/97	Replacement	514,000	2006	Const/T6
991686	SR 112	56.50	Unnamed to Colville Cr	19.0003	1.1	0	17.24	ETD	508	2,582	6	King	Pending	Barnard	Done	Replacement	1,454,000		Scope/PS
990092	SR 112	57.61	Coville Cr to Strait of Juan de Fuca	19.0001	1.2	0		TD			0	King	Pending						Scope/PS
996573	SR 113	9.70	Unnamed to Pysht R	19	1.1	0		UETD			1	King	Pending						Scope
991939	SR 16	14.63	Unnamed to McCormick Cr	15	1.1	0	21.29	PS4	876	1,958	2	Uber	Done/ 01	Lautz	Done/01	Replacement	1,400,000	2010	Const/T6
991941	SR 16	14.86	McCormick Cr to Henderson Bay	15.0065	1.1	33	21.42	PS4	1,159	3,305	2	Uber	Done/ 01	Lautz	Done/01	Replacement	1,350,000	2010	Const/T6
991942	SR 16	15.02	Unnamed to McCormick Cr	15.0066	1.1	0	24.47	PS4	765	5,252	5	Uber	Done/ 01	Lautz	Done/01	Replacement	1,320,000	2010	Const/T6
990270	SR 16	27.10	Unnamed to Ross Cr	15.0210	1.1	0	26.45	PS4	2,891	12,226	4	Johnson	Pending	Powers	Done/97	Retrofit	865,000		Hold
991944	SR 16 Ext 15 EB	15.21	McCormick Cr to Henderson Bay	15.0065	1.1	33	34.69	PS4	2,021	9,074	13	Uber	Done/ 01	Powers	Done/01	Retrofit	65,000	2010	Const/T6
105 R021121a	SR 162	11.04	Unnamed to Carbon R	10	1.1	67		UETD			0	Detrick	Pending						Scope

Appendix III. WSDOT Dedicated Funding Project Scoping Progress Report

SiteID	Road	MP	Stream	WRIA	Seq ¹	% Pass	PI	Survey Type	Spawn Area (m2)	Rear Area (m2)	# US Barr	Bio Lead	Bio Scope	Eng Lead	Eng Scoping	Design Option	Cost Estimate	Year	Project Status
105 R032517a	SR 162	12.42	Rauch Cr to Carbon R	10	1.1	67		UETD			2	Detrick	Pending						Scope
105 R032918d	SR 162	12.44	Rauch Cr to Carbon R	10	1.1	67		UETD			2	Detrick	Pending						Scope
105 R033020A	SR 162	16.66	Unnamed to S Prairie Cr	10	1.2	67		UETD			2	Detrick	Pending						Scope
105 R040517a	SR 162	19.11	Unnamed to S Prairie Cr	10	1.1	33		UETD			0	Detrick	Pending						Scope
105 R033018B	SR 165	19.76	Spiketon Cr to S Prairie Cr	10.0449	1.1	67		UETD			0	Detrick	Pending						Scope
105 R050320a	SR 167 NB Ext 8	0.16	Jovita Cr to Milwaukee Canal	10.0034	1.2	67		UETD			5	Johnson	Pending						Scope
990711	SR 19	4.30	Swansonville Cr to Chimacum Cr	17.0205A	1.1	0	14.11	PS4	1,239	1,986	2	Uber	Done/ 01	Lautz	Done/01	Replacement	231,000	2012	Const/T6
995743	SR 20	0.65	Unnamed to Discovery Bay	17.0218	1.1	0		UETD				Burns	Pending						Scope
995753	SR 20	3.67	Unnamed to Discovery Bay	17	1.1	0		TD			0	Burns	Pending						Scope
995759	SR 20	11.63	Kah Tai Sl to Pt Townsend Bay	17	1.1	33		UETD			0	Burns	Pending						Scope
15.0229 0.10	SR 3	40.96	Chico Cr to Dyes Inlet	15.0229		67		UETD			0	Burns	Pending						Scope/PS
990708	SR 3	44.60	Unnamed to Strawberry Cr	15.0247	1.1	0	15.51	PS3	241	489	3	Burns	Pending						Scope
991240	SR 3	58.21	Unnamed to Hood Canal	15	1.1	0	25.21	ETD	815	1,866	1	Burns	Pending						Scope
990395	SR 3	58.49	Spring Cr to Hood Canal	15.0364	1.1	0	13.37	PS4	1,094	1,578	0	Johnson	Done	Powers	Done/04	Retrofit	793,000	2014	Const/T6
15.0051 0.10	SR 302	11.36	Little Minter Cr to Minter Cr	15.0051		67		LME								Fishway		2001	Done/TP
15.0051 0.20	SR 302	11.42	Little Minter Cr to Minter Cr	15.0051		67		LME											Scope/PS
994325	SR 305	2.44	Unnamed to Murden Cove	15.0321	1.1	33	29.44	FS	3,799	3,715	1	Johnson	Pending	Barnard	Pending				Scope
991958	SR 305	7.28	Klebeal Cr to Agate Passage	15.0296	1.1	0	29.48	FS	1,027	8,345	8	Johnson	Pending	Jenson	Done	Replacement	800,000		Const/Yes
990709	SR 305	9.60	Unnamed to Liberty Bay	15.0291	1.2	0	24.15	PS4	2,135	7,364	6	Johnson	Done/ 01	Powers	Done/00	Retrofit	875,000	2008	Const/T6
991742	SR 305	9.88	Bjorgen Cr to Liberty Bay	15.0290	1.1	0	17.21	PS4	2,387	1,793	3	Uber	Done/ 01	Powers	Done/00	Retrofit	1,378,000	2008	Const/T6
990123	SR 307	0.49	Dogfish Cr to Liberty Bay	15.0285	1.1	33		UETD			0	Johnson	Pending						Scope/PS
991572	SR 307	1.45	Unnamed to Dogfish Cr	15.0286	1.1	33	33.73	ETD	4,695	8,781	0	Johnson	Pending	Barnard	Pending				Scope/PS
15.0280 1.00	SR 308	1.15	Big Scandia Cr to Liberty Bay	15.0280		67		UETD			2	Burns	Pending						Scope
991066	SR 8	3.72	Unnamed to Wildcat Cr	22	1.1	0	16.84	PS4	0	4,339	0	King	Pending	Barnard	Done	Replacement	591,433		Scope
990133	SR 8	6.30	EF Wildcat Cr to Cloquallum R	22.0503	1.2	33	45.22	ETD	6,575	44,879	0	King	Pending	Barnard	Done	Retrofit	64,000		Scope/PS
990773	SR 8	9.10	Unnamed to Mox Chehalis Cr	22	1.1	33	18.00	ETD	557	1,367	2	King	Pending	Barnard	Done	Retrofit	64,000		Scope/PS
992493	US 101	68.99	Unnamed to Lower Salmon Cr	24.0106	1.2	67	17.20	PS4	857	7,163	2	Johnson	Done/ 01	Powers	Done/01	Replacement	300,000	2009	Const/T6
992510	US 101	71.02	Joe Cr to North R	24.0129	1.2	67	24.98	PS4	1,217	16,917	0	Johnson	Done/ 01	Powers	Done/00	Replacement	1,055,000	2010	Const/T6
991908	US 101	76.48	Mosquito Cr to North R	24.0137	1.1	67	20.36	PS4	1,343	5,820	1	Johnson	Done/ 01	Powers	Done/01	Replacement	300,000	2010	Const/T6
993673	US 101	84.15	Unnamed to Grays Harbor	22	1.1	0	13.94	ETD	267	743	0	King	Pending	Barnard	Done				Hold
993679	US 101	90.73	Unnamed to Hoquiam R	22	1.1	33	20.63	PS4	0	4,450	0	King	Pending	Barnard	Done	Replacement	473,000		Scope
990732	US 101	93.79	Unnamed to WF Hoquiam R	22	1.1	0	16.37	ETD	93	465	0	King	Pending	Barnard	Done	Replacement			Scope/PS
993702	US 101	98.47	Unnamed to WF Hoquiam R	22	1.1	67	16.95	ETD	51	981	0	King	Pending	Barnard	Done	Replacement	192,660		Scope/PS
990032	US 101	102.14	Unnamed to SB Big Cr	22.0059	1.1	67	26.32	ETD	1,190	10,521	2	King	Pending	Barnard	Done	Replacement	249,000		Scope/PS
990731	US 101	111.34	Unnamed to Stevens Cr	22.0064A	1.1	33	15.79	PS3	485	3,052	0	Johnson	Done/ 01	Barnard	Pending	Retrofit	130,000	2012	Const/T6
991267	US 101	155.35	Unnamed to Pacific Ocean	21.0011	1.2	0	19.92	PS2	4,282	8,440	0	King	Done	Barnard	Done	Replacement	1,030,000	2012	Const/T6
18.0283 2.00	US 101	238.35	Indian Cr to Elwah R	18.0283		67		LME				King	Pending						Scope
990128	US 101	244.00	Dry Cr to Strait of Juan de Fuca	18.0265	1.1	0		UETD			0	King	Pending						Scope
990326	US 101	248.10	Peabody Cr Strait of Juan de Fuca	18.0245	1.1	0	15.39	PS3	875	2,033	5	King	Hold						Hold
990481	US 101	249.40	White Cr to Ennis Cr	18.0235	1.1	0	20.08	PS4	4,772	5,945		King	Pending	Powers	Pending				Hold
990240	US 101	250.50	Lees Cr Strait of Juan de Fuca	18.0232		0	21.14	PS4	10,774	14,173	11	Uber	Done/ 01	Powers	Done/00	Replacement	1,200,000	2008	Const/T6
18.0021 5.40	US 101	260.95	Matriotti Cr Dungeness R	18.0021	1.1	67		UETD			3	King	Pending						Scope/PS
995481	US 101	266.59	Unnamed to Johnson Cr	17	1.1	0		TD			0	Burns	Pending						Scope
990219	US 101	267.16	Johnson Cr to Pt Williams	17.0301	1.1	67	28.17	PS1	3,028	4,180						Fishway	121,945	1995	Done/W6
990075	US 101	271.98	Chicken Coop Cr to Sequim Bay	17.0278	1.1	0	30.90	RSFS	3,383	5,607	13	Uber	Done/ 01	Powers	Done/97	Replacement	764,000	2008	Const/T6

Appendix III. WSDOT Dedicated Funding Project Scoping Progress Report

SiteID	Road	MP	Stream	WRIA	Seq ¹	% Pass	PI	Survey Type	Spawn Area (m2)	Rear Area (m2)	# US Barr	Bio Lead	Bio Scope	Eng Lead	Eng Scoping	Design Option	Cost Estimate	Year	Project Status
995485	US 101	276.22	Unnamed to Discovery Bay	17	1.1	67		TD			0	Burns	Pending						Scope
995490	US 101	281.61	Unnamed to Discovery Bay	17	1.1	0		TD			0	Burns	Pending						Scope
995491	US 101	281.72	Unnamed to Discovery Bay	17	1.1	33		UETD			0	Burns	Pending						Scope
995497	US 101	283.57	Unnamed to Snow Cr	17	1.1	0		UETD			0	Burns	Pending						Scope
990896	US 101	290.35	Unnamed to Leland Cr	17.0080	1.2	67		UETD			0	Detrick	Pending						Scope/PS
990241	US 101	292.52	Leland Cr to Little Quilcene R	17.0077	1.1	33		UETD			0	Burns	Pending						Scope
994484	US 101	303.01	Marple Cr to Jackson Cove	17.0001	1.1	33	20.51	ETD	2,344	1,919	0	King	Pending	Barnard	Done	Replacement	2,319,000		Scope/PS
990899	US 101	307.00	Unnamed to Hood Canal	16	1.1	67		UETD			0	Burns	Pending						Scope
995760	US 101 ROW NB	284.87	Unnamed to Snow Cr	17	1.1	0		TD			0	Burns	Pending						Scope
995521	US 116	1.64	Unnamed Pt Townsend Bay	17	1.1	0		UETD			0	Burns	Pending						Scope
994791	US 12	9.04	Unnamed to Wynoochee R	22	1.1	33	21.23	ETD	202	1,940	1	King	Done	Barnard	Done	Replacement	566,129		Scope/PS
994799	US 12	26.87	Unnamed to Chehalis R	22.0542	1.1	0	19.68	ETD	4,645	3,683	0	King	Pending	Powers	Pending				Scope/PS
WSDOT District 4 - Southwest																			
994588	I-5	25.85	Mill Cr to Columbia R	27.0144	1.1	33	24.91	PS4	1,595	5,744	2	Johnson	Pending	McCoy	Done	Retrofit	1,805,000	2008	Scope
990055	I-5	26.83	Bybee Cr to Columbia R	27.0142	1.1	0	12.36	PS1	1,482	1,901	1	Johnson	Done	Powers	Done/97	Replacement	963,000		Hold
991665	I-5	27.80	Schoolhouse Cr to Columbia R	27.0139	1.2	0	21.33	PS4	1,353	4,845	5	Johnson	Done	Powers	Pending	Replacement	1,750,000	2010	Scope
991436	I-5	29.25	Unnamed to Columbia R	27.01370	1.1	67	16.95	ETD	1,670	9,684	1	Johnson	Pending	McCoy	Pending				Scope/PS
992602	I-5	53.07	Unnamed to Cowlitz R	26	1.1	33	18.36	PS4	340	3,587	2	Johnson	Pending	Powers	Done/01	Replacement	800,000		Scope
991734	I-5	57.98	Unnamed to Foster Cr	26.0476	1.1	0	11.99	PS4	160	1,351	8	Uber	Done/ 01	Powers	Done/01	Replacement	2,260,000	2010	Const/Yes
990152	I-5	58.63	Foster Cr to Cowlitz R	26.0475	1.1	33	20.55	PS4	2,096	4,772	3	Uber	Done	Powers	Done/97	Retrofit	130,000	2008	Const/T6
994553	I-5 NB	25.92	Mill Cr to Columbia R	27.0144	1.1	33	21.92	PS4	1,510	2,894	1	Johnson	Done	Powers	Pending	Retrofit	300,000	2008	Scope
991328	SR 103	19.84	Stackpole Sl to Willapa Bay	24.0749	1.1	67	11.34	PS4	0	28,384	1	Johnson	Pending	Ponder	Done/00	Replacement	145,000		Hold
992234	SR 122	4.99	Unnamed to Mayfield Lk	26	1.1	0	17.54	PS4	922	5,576	1	Johnson	Done/ 01	Wiley	Done/00	Replacement	260,000	2010	Const/T6
990341	SR 14	140.80	Pine Cr to Columbia R	31.0354	1.4	0	14.17	PS3	3,706	19,079	0	Johnson	Done/ 01	McCoy	Pending	Replacement	703,000	2012	Const/T6
992223	SR 142	13.40	Snyder Canyon Cr to Klickitat R	30.0018	1.2	33	23.19	RSFS	3,261	15,216	2	Johnson	Done	Powers	Done		291,230	2006	Const/T6
30.0068	0.40 SR 142	20.20	Bowman Cr to Klickitat R	30.0068	1.1	33	32.35	ETD	15,419	33,523		Burns	Pending	Powers	Pending	Replacement	976,000	2006	Const/T6
991346	SR 4	6.97	Unnamed to Salmon Cr	24.0622	1.1	0	17.63	FS	460	646	0	Johnson	Pending	Barnard	Pending				Scope
992405	SR 4	8.21	Unnamed to Salmon Cr	24	1.1	33	13.66	PS4	528	1,196	1	Johnson	Done/ 01	Powers	WSDOT	Replacement	350,000	2012	Scope
994567	SR 401 ROW	5.50	SF Naselle R to Naselle R	24.0584	1.1	0	15.75	FS	12	1,511	0	Johnson	Pending	Powers	Pending				Scope
991657	SR 503	13.21	Unnamed to Rock Cr	27.0223	1.1	33	18.88	PS3	1,138	3,706	6	Johnson	Done/ 01	Barnard	Done	Replacement	625,000	2009	Const/T6
991656	SR 503	15.84	Rock Cr to Lewis R	27.0222	1.2	33	27.45	PS4	776	32,937	33	Johnson	Pending	McCoy	Pending				Scope
990073	SR 503	25.36	Chelatchie Cr to Cedar Cr	27.0373	1.1	67	20.52	ETD	996	7,291	0	Johnson	Pending	McCoy	Pending				Scope/PS
994531	SR 503	33.04	Brooks Cr to Lewis R	27.0431	1.1	33	15.28	PS4	3,178	4,603	1	Johnson	Pending	McCoy	Done	Replacement	1,075,000		Scope
990089	SR 503	46.17	Colvin Cr to Lewis R	27.0392	1.1	0	15.52	PS4	1,021	1,412	0	Johnson	Hold	Powers	Pending				Hold
991634	SR 504	17.00	Unnamed to NF Toutle R	26.0320	1.1	0	13.82	PS3	292	1,212	3	Johnson	Done/ 01	Powers	Done/04	Replacement	441,000	2009	Const/T6
991432	SR 506	7.68	Unnamed to Cowlitz R	26	1.1	0	11.26	PS4	137	434	3	Uber	Done/ 01	Powers	Done/01	Replacement	400,000	2012	Const/Yes
990774	SR 6	0.75	Case Pond to Ellis Sl	24	1.1	0	15.23	PS4	38	2,899	1	Johnson	Pending	Powers	Done/00	Replacement	423,000	2008	Scope
990805	SR 6	5.37	Unnamed to Willapa R	24	1.1	0	25.91	PS4	773	6,814	2	Johnson	Done/ 01	Ponder	Done/00	Replacement	423,000	2008	Const/T6
990831	SR 7	5.50	Unnamed to Tilton R	26	1.2	0	15.13	PS4	548	1,736	1	Johnson	Done/ 01	Barnard	Done/04	Replacement	400,000	2012	Const/T6
991388	US 101	1.00	Unnamed to Columbia R	24.0047	1.1	0	23.64	PS4	1,554	2,965	0	Johnson	Done	Powers	Done/00	Replacement	380,000	2010	Const/T6
991359	US 101	1.30	Unnamed to Columbia R	24.0045	1.1	0	18.59	PS2	530	889	0	Johnson	Pending	Barnard	Pending				Scope/PS
991358	US 101	2.00	Unnamed to Columbia R	24.0042	1.1	0	15.33	PS2	24	1,756	1	Johnson	Pending	Powers	Done/97	Replacement	336,000		Scope
991390	US 101	2.58	Unnamed to Columbia R	24.0041	1.1	0	17.99	PS4	0	4,487	1	Johnson	Pending	Powers	Done/00	Replacement	404,000	2009	Const/T6
992821	US 101	3.30	Unnamed to Columbia R	24	1.1	0	25.25	PS4	0	19,968	0	Johnson	Done/ 02	Powers	Done/00	Replacement	270,000	2010	Const/T6
991308	US 101	21.27	Unnamed to Willapa Bay	24.0679	1.2	67	12.13	PS4	4,507	4,561	3	Johnson	Done/ 01	Ponders	Done/01	Replacement	198,000	2012	Const/Yes

Appendix III. WSDOT Dedicated Funding Project Scoping Progress Report

SiteID	Road	MP	Stream	WRIA	Seq ¹	% Pass	PI	Survey Type	Spawn Area (m2)	Rear Area (m2)	# US Barr	Bio Lead	Bio Scope	Eng Lead	Eng Scoping	Design Option	Cost Estimate	Year	Project Status
990053	US 101	61.15	Butte Cr to Smith Cr	24.0060	1.1	33	19.38	PS4	3,236	9,946	1	Johnson	Done/ 01	Powers	Done/01	Fishway	457,000	2008	Const/T6
991426	US 12	72.45	Unnamed to Lacamas Cr	26.0474	1.1	33	12.03	PS4	314	1,867	7	Johnson	Done/ 01	Powers	Done/00	Replacement	147,000	2012	Const/Yes
990190	US 12	95.75	Highland Cr to Tilton R	26.0590	1.2	67	14.77	PS4	6,417	12,122	8	Johnson	Done/ 01	Powers	Done/00	Retrofit	130,000	2012	Const/T6
992227	US 12	114.96	Miller Cr to Cowlitz R	26.1028	1.1	33	11.67	PS4	367	789	1	Johnson	Done/ 01	Heiner	Done/00	Retrofit	75,000	2007	Const/Yes
990857	US 97	30.10	Shinando Cr to Satus Cr	37.1103	1.1	0	11.76	PS4	12,603	14,910	8	Uber	Done/ 01	Heiner	Pending	Replacement	1,925,000	2014	Const/T6
WSDOT District 5 - South Central																			
990378	I-90	70.90	Silver Cr to Yakima R	39.1713	1.2	67	19.29	PS4	8,121	6,186	3	Uber	Done/03	Heiner	Done/03	Retrofit	100,000	2010	Const/T6
WSDOT District 6 - Eastern																			
990113	US 2	304.40	Deer Cr to Little Spokane R	55.0380		33						Johnson	Pending						Scope
990106	US 395	247.70	Deadman Cr to Kettle R	60.0008	1.1	0	11.48	ETD	49,777	131,546	0	Uber	Pending	Heiner	Done/99	Replacement	1,002,000	2008	Const/T6

1 The sequencer identifies individual culverts at multiple culvert stream crossings. Format X.Y, where X specifies culvert number and Y specifies total number of culverts in crossing.

For example at a triple culvert crossing, the first pipe would be 1.3, the second 2.3, and the third 3.3.

Habitat Survey Types:

ETD - Expanded threshold survey

UETD - Threshold determination survey conducted, but no quantitative habitat analysis was done.

PS - Physical survey

RSFS - Reduced sampling full survey

TD - Threshold determination survey

Project Status:

ScopePS - Project requires scoping work and physical survey

BarrierFW - Fishway is now a barrier; repair required; may need physical survey

Const/yes - Biological Scoping is complete and the project is recommended for construction

Const/no - Biological Scoping is complete and the project is not recommended for construction

Hold - Scoping is complete and the project is not recommended for construction at this time

Cont/T6 - Scheduled for construction by Transportation; on the Six Year Plan

Const/W6 - Scheduled for construction by Fish and Wildlife; on the Six Year Plan

Const/RP - Scheduled for construction by WSDOT through Road Project, year inventoried included (year project to be built will be verified by scoping biologists)

Appendix IV. WSDOT Six Year Plan

SiteID	Stream	WRIA	Road	MP	PI	Fund	WSDOTPIN	Status	2003-2005 (\$)	2005-2007 (\$)	2007-2009 (\$)	2009-2011 (\$)	2011-2013 (\$)	2013-2015 (\$)
WSDOT District 1 - Northwest														
990023	Baptist Camp Cr	01.0433	SR 542	28.74	8.36	F	154229E	Sched	30,000	140,000				
991821	Stevens Cr	07.0147	SR 92	0.47	22.00	F	109200F	Sched	120,000	280,000				
991122	Gribble Cr	03.0227	SR 9	48.00	21.92	F	100937G	Sched		208,000				
990187	Hedrick Cr	01.0463	SR 542	32.00	16.63	F	154231H	Sched	35,000	181,000				
991621	High Cr	01.0407	SR 542	24.90	21.37	F	154225F	Sched	30,000	141,000				
991803	Toad Lk Cr	01.0560	SR 542	2.40	13.41	F	154202T	Sched	18,000	204,000				
08.0059 7.00	Swamp Cr	08.0059	I-405	29.75	61.62	F	140586A	Sched		92,000	174,000			
07.0148 1.30	Catherine Cr	07.0148	SR 92	1.93	24.76	F	109292S	Sched		82,000	126,000			
990624	Unnamed to Pilchuck Cr	05.0065	SR 532	9.75	31.55	NF		Future			143,000			
993090	Swamp Cr	08.0059	I-5	182.73	58.42	NF		Future			800,000			
992003	Baker Cr	01.0553	I-5 NB	256.00	25.69	NF		Future						
990022	Baker Cr	01.0553	I-5	256.28	28.66	NF		Future				1,500,000		
993100	Martha Cr	08	SR 524	6.95	13.80	NF		Future					250,000	
991159	Unnamed to Stillaguamish R	05.0137	SR 530	24.65	18.60	NF		Future					1,312,000	
992798	Lewis Cr	08.0162	I-90	13.83	30.43	NF		Future						3,500,000
District Total:									233,000	1,328,000	1,243,000	1,500,000	1,562,000	3,500,000
WSDOT District 2 - North Central														
990282	Mill Cr	45.0956	US 2	70.21	19.09	F	200202D	Sched	115,000	1,009,000				
990228	Little Boulder Cr	48.1400	SR 20	181.34	15.67	F	202001P	Sched	134,400	498,000				
980124	Frazer Cr	48.0309	SR 20	206.85	19.05	F	202001R	Sched						
980114	Beaver Cr	48.0307	SR 20	205.84	43.61	F	202001R	Sched		832,000				
District Total:									249,400	2,339,000				
WSDOT District 3 - Olympic														
990384	Skobob Cr	16.0004	SR 106	0.85	19.96	F	310603A	Sched	330,000	947,000				
992196	Unnamed to Squamish H	17.0185	SR 104	12.70	12.89	F	310433A	Sched		322,000				
990714	Unnamed to Pysht R	19.0113K	SR 112	24.91	28.00	F	311228A	Sched	124,000	243,000				
990713	Bear Cr	19.0014	SR 112	54.35	19.01	F	311227A	Sched		441,000				
990075	Chicken Coop Cr	17.0278	US 101	271.98	30.90	F	310161D	Sched		32,000	732,000			
991742	Bjorgen Cr	15.0290	SR 305	9.88	17.21	F	330514A	Sched		71,000	1,375,000			
991244	Unnamed to Skokomish R	16.0002	SR 106	2.95	10.76	F	310609A	Sched		24,000	288,000			
990240	Lees Cr	18.0232	US 101	250.50	21.14	NF		Future			1,200,000			
991270	Unnamed to Pacific Ocean	21.0715	SR 109	36.40	15.79	NF		Tuneup			110,000			
990709	Unnamed to Liberty Bay	15.0291	SR 305	9.60	24.15	NF		Future			875,000			
991908	Mosquito Cr	24.0137	US 101	76.48	20.36	NF		Future			300,000			
992493	Unnamed to L Salmon Cr	24.0106	US 101	68.99	17.20	NF		Future				300,000		
991942	Unnamed to McCormick Cr	15.0066	SR 16	15.02	24.47	NF		Future				1,320,000		
991941	McCormick Cr	15.0065	SR 16	14.86	21.42	NF		Future				1,350,000		
991939	Unnamed to McCormick Cr	15	SR 16	14.63	21.29	NF		Future				1,400,000		

Appendix IV. WSDOT Six Year Plan

SiteID	Stream	WRIA	Road	MP	PI	Fund	WSDOTPIN	Status	2003-2005 (\$)	2005-2007 (\$)	2007-2009 (\$)	2009-2011 (\$)	2011-2013 (\$)	2013-2015 (\$)
991944	McCormick Cr	15.0065	SR 16 Ex 16	15.21	34.69	NF		Future				65,000		
991258	Butler Cr	19.0112	SR 112	29.71	16.02	NF		Future					850,000	
990941	Unnamed to Butler Cr	19	SR 112	29.66	14.20	NF		Future						
990711	Swansonville Cr	17.0205A	SR 19	4.30	14.11	NF		Future					231,000	
991272	Unnamed to Pacific Ocean	21.0728	SR 109	33.10	17.18	NF		Future					450,000	
991271	Unnamed to Pacific Ocean	21.0716	SR 109	36.30	14.56	NF		Future					100,000	
992510	Joe Cr	24.0129	US 101	71.02	24.98	NF		Future					1,055,000	
990731	Unnamed to Stevens Cr	22.0064A	US 101	111.34	15.79	NF		Future					130,000	
991267	Unnamed to Pacific Ocean	21.0011	US 101	155.35	19.92	NF		Future					1,030,000	
990199	Indian Cr	13.0026	I-5	105.85	28.26	NF		Future						1,100,000
990395	Spring Cr	15.0364	SR 3	58.49	13.37	NF		Future						678,000
District Total:									454,000	2,080,000	4,880,000	4,435,000	3,846,000	1,778,000
WSDOT District 4 - Southwest														
992223	Snyder Canyon Cr	30.0018	SR 142	13.40	23.19	F	414205F	Sched		291,000				
30.0068	0.40 Bowman Cr	30.0068	SR 142	20.20	32.35	F	414206F	Sched	80,000	896,000				
990805	Unnamed to Willapa R	24	SR 6	5.37	25.91	NF		Future			423,000			
990152	Foster Cr	26.0475	I-5	58.63	20.55	NF		Future			130,000			
990053	Butte Cr	24.0060	US 101	61.15	19.38	NF		Future			457,000			
992234	Unnamed to Mayfield Lk	26	SR 122	4.99	17.54	NF		Future			260,000			
992821	Unnamed to Columbia R	24	US 101	3.30	25.25	NF		Future				270,000		
991390	Unnamed to Columbia R	24.0041	US 101	2.58	17.99	NF		Future				404,000		
991657	Unnamed to Rock Cr	27.0223	SR 503	13.21	18.88	NF		Future				625,000		
991634	Unnamed to NF Toutle R	26.0320	SR 504	17.00	13.82	NF		Future				441,000		
991388	Unnamed to Columbia R	24.0047	US 101	1.00	23.64	NF		Future				380,000		
990341	Pine Cr	31.0354	SR 14	140.80	32.16	NF		Future					703,000	
990190	Highland Cr	26.0590	US 12	95.75	14.77	NF		Future					130,000	
990831	Unnamed to Tilton R	26	SR 7	5.50	15.13	NF		Future					400,000	
990857	Shinando Cr	37.1103	US 97	30.10	11.76	NF		Future						1,925,000
District Total:									80,000	1,187,000	1,270,000	2,120,000	1,233,000	1,925,000
WSDOT District 5 - South Central														
990378	Silver Cr	39.1713	I-90	70.90	19.29	NF		Future				100,000		
District Total:												100,000		
WSDOT District 6 - Eastern														
990106	Deadman Cr	60.0008	US 395	247.70	11.48	NF	639514E	Future	30,000		1,002,000			
District Total:									30,000		1,002,000			
WSDOT Total:									1,046,400	6,934,000	8,395,000	8,155,000	6,641,000	7,203,000
WDFW Inventory and Scoping:									1,410,000	1,500,000	1,600,000	1,700,000	1,800,000	1,900,000
Grand Total:										8,434,000	9,995,000	9,855,000	8,441,000	9,103,000

Appendix V. Dedicated Project Evaluations - Adult Spawner Surveys

SiteID	Road	Mile Post	Stream	WRIA	Survey Timing	River Mile	Project Year	Eval Level	Eval Status	Survey Date	Species	Survey Location Relative to Project	Survey Length (mi)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
WSDOT Northwest Region																	
990023	SR 542	28.74	Baptist Camp Cr	01.0433	Pre-project	0.40	2006	1	Incomplete	11/12/03	Coho	Upstream	0.2	0	0	0	3
990023	SR 542	28.74	Baptist Camp Cr	01.0433	Pre-project	0.40	2006	1	Incomplete	11/12/03	Coho	Downstream	0.3	0	0	0	2
990023	SR 542	28.74	Baptist Camp Cr	01.0433	Pre-project	0.40	2006	1	Incomplete	11/24/03	Coho	Downstream	0.3	3	0	3	
990023	SR 542	28.74	Baptist Camp Cr	01.0433	Pre-project	0.40	2006	1	Incomplete	11/24/03	Coho	Upstream	0.2	0	1	1	0
990023	SR 542	28.74	Baptist Camp Cr	01.0433	Pre-project	0.40	2006	1	Incomplete	12/09/03	Coho	Upstream	0.2	2	0	2	1
990023	SR 542	28.74	Baptist Camp Cr	01.0433	Pre-project	0.40	2006	1	Incomplete	12/09/03	Coho	Downstream	0.3	8	1	9	5
07.0148 1.30	SR 92	1.93	Catherine Cr	07.0148	Pre-project	1.01	2007	1	Incomplete	01/04/03	Coho	Upstream	0.1	0	4	4	
07.0148 1.30	SR 92	1.93	Catherine Cr	07.0148	Pre-project	1.01	2007	1	Incomplete	01/04/03	Coho	Downstream	1.2	5	58	63	
991122	SR 9	48.00	Gribble Cr	0.0227	Pre-project	0.26	2006	1	Incomplete	12/09/04	Coho	Downstream	0.3	3	0	3	
991122	SR 9	48.00	Gribble Cr	0.0227	Pre-project	0.26	2006	1	Incomplete	12/09/04	Coho	Upstream	0.4	10	3	13	
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	11/13/03	Coho	Downstream	0.3	0	0	0	0
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	11/13/03	Coho	Upstream	0.3	0	0	0	0
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	11/24/03	Coho	Downstream	0.3	0	0	0	0
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	11/24/03	Coho	Upstream	0.3	0	0	0	0
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	12/09/03	Chum	Downstream	0.3	0	1	1	0
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	12/09/03	Chum	Upstream	0.3	0	0	0	0
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	12/09/03	Coho	Downstream	0.3	0	0	0	0
990187	SR 542	32.00	Hedrick Cr	01.0463	Pre-project	0.30	2006	1	Incomplete	12/09/03	Coho	Upstream	0.3	0	0	0	0
993090	I-5	182.73	Swamp Cr	08.0059	Pre-project	7.66	2008	1	Incomplete	09/26/00	Chinook	Downstream	4.4	1	0	1	
993090	I-5	182.73	Swamp Cr	08.0059	Pre-project	7.66	2008	1	Incomplete	09/26/00	SCutthroat	Downstream	4.4	1	0	1	
993090	I-5	182.73	Swamp Cr	08.0059	Pre-project	7.66	2008	1	Incomplete	09/26/00	Sockeye	Downstream	4.4	36	0	36	
993090	I-5	182.73	Swamp Cr	08.0059	Pre-project	7.66	2008	1	Incomplete	12/18/00	Coho	Downstream	3.3	2	7	9	34
991741	SR 534	1.20	Unnamed to Bulson Cr	03.0199	Post-project	0.30	2002	1	Incomplete	11/26/03	Coho	Upstream	0.3	0	0	0	0
WSDOT North Central Region																	
980124	SR 20	206.85	Frazer Cr	48.0309	Pre-project	0.35	2006	1	Incomplete	06/18/03	Steelhead	Upstream	0.15	0	0	0	1
980124	SR 20	206.85	Frazer Cr	48.0309	Pre-project	0.35	2006	1	Incomplete	06/18/03	Steelhead	Downstream	0.35	0	0	0	0
990228	SR 20	181.34	Little Boulder Cr	48.1400	Pre-project	0.10	2006	1	Incomplete	06/18/03	Steelhead	Upstream	0.3	0	0	0	0
990228	SR 20	181.34	Little Boulder Cr	48.1400	Pre-project	0.10	2006	1	Incomplete	06/18/03	Steelhead	Downstream	0.1	0	0	0	0
990381	US 2	87.10	Skinney Cr	45.0701	Post-project	1.70	2001	2	Incomplete	05/24/03	Steelhead	Downstream	1	0	0	0	1
990382	US 2	87.67	Skinney Cr	45.0701	Post-project	1.60	2001	2	Incomplete	05/24/03	Steelhead	Downstream	1	0	0	0	1
990383	US 2	88.03	Skinney Cr	45.0701	Post-project	1.50	2001	2	Incomplete	05/24/03	Steelhead	Downstream	1	0	0	0	1
980131	SR 20	208.44	Unnamed to Frazer Cr	48.0309A	Pre-project	0.02	2006	1	Incomplete	06/18/03	Steelhead	Upstream	0.48	0	0	0	0
980131	SR 20	208.44	Unnamed to Frazer Cr	48.0309A	Pre-project	0.02	2006	1	Incomplete	06/18/03	Steelhead	Downstream	0.02	0	0	0	0

Appendix V. Dedicated Project Evaluations - Adult Spawner Surveys

SiteID	Road	Mile Post	Stream	WRIA	Survey Timing	River Mile	Project Year	Eval Level	Eval Status	Survey Date	Species	Survey Location Relative to Project	Survey Length (mi)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
WSDOT Olympic Region																	
990075	US 101	271.98	Chicken Coop Cr	17.0278	Pre-project	0.41	2008	1	Incomplete	01/15/04	Coho	Downstream	0.41	0	0	0	
990075	US 101	271.98	Chicken Coop Cr	17.0278	Pre-project	0.41	2008	1	Incomplete	01/15/04	Coho	Upstream	0.3	0	0	0	
990075	US 101	271.98	Chicken Coop Cr		Pre-project	0.41	2008	1	Incomplete	10/26/04	Coho	Downstream	0.3	0	0	0	0
990075	US 101	271.98	Chicken Coop Cr		Pre-project	0.41	2008	1	Incomplete	10/26/04	Coho	Upstream	0.3	0	0	0	0
990075	US 101	271.98	Chicken Coop Cr		Pre-project	0.41	2008	1	Incomplete	11/17/04	Coho	Downstream	0.41	0	0	0	0
990075	US 101	271.98	Chicken Coop Cr		Pre-project	0.41	2008	1	Incomplete	12/14/04	Coho	Downstream	0.41	0	0	0	0
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/19/04	Chum	Upstream	0.5	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/19/04	Chum	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/19/04	Coho	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/19/04	Coho	Upstream	0.5	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/27/04	Chum	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/27/04	Chum	Upstream	0.5	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/27/04	Coho	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	10/27/04	Coho	Upstream	0.5	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/03/04	Chum	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/03/04	Chum	Upstream	0.5	3	1	4	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/03/04	Coho	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/03/04	Coho	Upstream	0.5	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/16/04	Chum	Upstream	0.5	51	12	63	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/16/04	Chum	Downstream	0.1	1	4	5	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/16/04	Coho	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/16/04	Coho	Upstream	0.5	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/23/04	Chum	Upstream	0.4	400	125	525	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/23/04	Chum	Downstream	0.1	105	23	128	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/23/04	Coho	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	11/23/04	Coho	Upstream	0.4	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	12/03/04	Chum	Upstream	0.5	1214	966	2180	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	12/03/04	Chum	Downstream	0.1	50	70	120	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	12/03/04	Coho	Upstream	0.5	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	12/03/04	Coho	Downstream	0.1	0	0	0	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	12/13/04	Chum	Downstream	0.1	6	149	155	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	12/13/04	Chum	Upstream	0.5	401	1132	3066	
14.0010	0.10	US 101	356.8	Countyline Cr	Post-project	0.41	1985	2	Incomplete	12/13/04	Coho	Downstream	0.1	0	0	0	

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SiteID	Road	Mile Post	Stream	WRIA	Survey Timing	River Mile	Project Year	Eval Level	Eval Status	Survey Date	Species	Survey Location Relative to Project	Survey Length (mi)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
14.0010 0.10	US 101	356.8	Countyline Cr		Post-project	0.41	1985	2	Incomplete	12/13/04	Coho	Upstream	0.5	0	0	0	
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Pre-project	0.41	2004	1	Incomplete	11/17/01	Coho	Downstream	0.3	0	1	1	2
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Pre-project	0.41	2004	1	Incomplete	11/17/01	Coho	Upstream	0.3	0	0	0	0
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Pre-project	0.41	2004	1	Incomplete	11/25/02	Coho	Downstream	0.3	0	0	0	0
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Pre-project	0.41	2004	1	Incomplete	11/25/02	Coho	Upstream	0.3	0	0	0	2
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Pre-project	0.41	2004	1	Incomplete	12/11/02	Coho	Downstream	0.3	0	0	0	0
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Pre-project	0.41	2004	1	Incomplete	12/11/02	Coho	Upstream	0.3	0	0	0	1
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Post-project	0.41	2004	1	Incomplete	10/26/04	Coho	Downstream	0.3	0	1	1	0
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Post-project	0.41	2004	1	Incomplete	10/26/04	Coho	Upstream	0.3	0	0	0	0
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Post-project	0.41	2004	1	Incomplete	11/17/04	Coho	Downstream	0.3	0	0	0	0
18.0234 1.10	US 101	250.00	Ennis Cr	18.0234	Post-project	0.41	2004	1	Incomplete	11/17/04	Coho	Upstream	0.3	1	0	1	2
161180	US 101	167.42	Fletcher Cr	20.0426	Post-project	1.50	2003	1	Incomplete	12/19/03	Coho	Upstream	0.3	0	0	0	
161180	US 101	167.42	Fletcher Cr	20.0426	Post-project	1.50	2003	1	Incomplete	12/19/03	Coho	Downstream	0.3	0	0	0	
161180	US 101	167.42	Fletcher Cr	20.0426	Post-project	1.50	2003	1	Incomplete	01/16/04	Coho	Upstream	0.6	0	0	0	
161180	US 101	167.42	Fletcher Cr	20.0426	Post-project	1.50	2003	1	Incomplete	01/16/04	Coho	Downstream	0.5	0	0	0	
161180	US 101	167.42	Fletcher Cr		Post-project	1.50	2003	2	Incomplete	10/21/04	Coho	Downstream	0.5	0	0	0	0
161180	US 101	167.42	Fletcher Cr		Post-project	1.50	2003	2	Incomplete	10/21/04	Coho	Upstream	0.3	0	0	0	0
161180	US 101	167.42	Fletcher Cr		Post-project	1.50	2003	2	Incomplete	11/17/04	Coho	Downstream	0.5	0	0	0	0
161180	US 101	167.42	Fletcher Cr		Post-project	1.50	2003	2	Incomplete	11/17/04	Coho	Upstream	0.3	0	0	0	0
161180	US 101	167.42	Fletcher Cr		Post-project	1.50	2003	2	Incomplete	12/15/04	Coho	Downstream	0.5	0	0	0	0
161180	US 101	167.42	Fletcher Cr		Post-project	1.50	2003	2	Incomplete	12/15/04	Coho	Upstream	0.3	0	0	0	0
14.0009A 0.06	US 101	357.90	Holiday Valley Cr	14.0009A	Post-project	0.06	1986	2	Incomplete	11/26/03	Coho	Upstream	0.7	0	0	0	0
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	11/24/04	Chum	Upstream	0.74	70	35	105	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	11/24/04	Coho	Upstream	0.74	0	0	0	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/03/04	Chum	Downstream	0.06	34	87	121	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/03/04	Chum	Upstream	0.7	215	103	318	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/03/04	Coho	Downstream	0.06	0	0	0	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/03/04	Coho	Upstream	0.7	0	0	0	
	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/16/04	Chum	Downstream	0.06	4	114	118	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/16/04	Chum	Upstream	0.7	95	225	320	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/16/04	Coho	Downstream	0.06	0	0	0	
14.0009A 0.06	US 101	357.90	Holiday Valley Cr		Post-project	0.06	1986	2	Incomplete	12/16/04	Coho	Upstream	0.7	0	0	0	
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Pre-project	0.50	2004	1	Incomplete	12/18/03	Coho	Upstream	0.3	1	0	1	
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Pre-project	0.50	2004	1	Incomplete	12/18/03	Coho	Downstream	0.3	0	0	0	
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Pre-project	0.50	2004	1	Incomplete	01/16/04	Coho	Upstream	0.3	0	0	0	

Appendix V. Dedicated Project Evaluations - Adult Spawner Surveys

SiteID	Road	Mile Post	Stream	WRIA	Survey Timing	River Mile	Project Year	Eval Level	Eval Status	Survey Date	Species	Survey Location Relative to Project	Survey Length (mi)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Pre-project	0.50	2004	1	Incomplete	01/16/04	Coho	Downstream	0.5	0	0	0	
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Post-project	0.50	2004	1	Complete	11/15/04	Coho	Downstream	0.26	0	0	0	
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Post-project	0.50	2004	1	Complete	11/15/04	Coho	Upstream	1.29	0	0	0	
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Post-project	0.50	2004	1	Complete	11/29/04	Coho	Downstream	0.26	1	2	3	
19.0110 0.50	SR 112	32.00	Jim Cr	19.0110	Post-project	0.50	2004	1	Complete	11/29/04	Coho	Upstream	1.29	1	2	3	
19.0110 0.50	SR 112	32.00	Jim Cr		Post-project	0.50	2004	1	Complete	12/22/04	Coho	Downstream	0.26	0	0	0	
19.0110 0.50	SR 112	32.00	Jim Cr		Post-project	0.50	2004	1	Complete	12/22/04	Coho	Upstream	1.29	0	1	1	
19.0110 0.50	SR 112	32.00	Jim Cr		Post-project	0.50	2004	1	Complete	01/05/05	Coho	Upstream	1.29	2	0	2	
994484	US 101	303.01	Marple Cr	17.0001	Pre-project	0.17		1	Incomplete	01/15/04	Coho	Upstream	0.13	0	6	6	0
994484	US 101	303.01	Marple Cr	17.0001	Pre-project	0.17		1	Incomplete	01/15/04	Coho	Downstream	0.17	0	1	1	0
WSDOT Southwest Region																	
30.0068 0.40	SR 142	20.20	Bowman Cr	30.0068	Pre-project	0.40	2006	1	Incomplete	11/24/03	Coho	Upstream	0.3	0	0	0	
30.0068 0.40	SR 142	20.20	Bowman Cr	30.0068	Pre-project	0.40	2006	1	Incomplete	11/24/03	Coho	Downstream	0.3	0	0	0	0
30.0068 0.40	SR 142	20.20	Bowman Cr	30.0068	Pre-project	0.40	2006	1	Incomplete	12/17/03	Coho	Downstream	0.3	18	0	18	5
30.0068 0.40	SR 142	20.20	Bowman Cr	30.0068	Pre-project	0.40	2006	1	Incomplete	12/17/03	Coho	Upstream	0.3	4	0	4	0
990377	US 12	81.22	Silver Cr	26.0540	Post-project	0.40	2003	1	Complete	11/19/03	Coho	Downstream	0.3	0	0	0	0
990377	US 12	81.22	Silver Cr	26.0540	Post-project	0.40	2003	1	Complete	11/19/03	Coho	Upstream	0.3	0	0	0	0
990377	US 12	81.22	Silver Cr	26.0540	Post-project	0.40	2003	1	Complete	12/03/03	Coho	Upstream	0.3	4	0	4	
990377	US 12	81.22	Silver Cr	26.0540	Post-project	0.40	2003	1	Complete	12/03/03	Coho	Downstream	0.3	4	0	4	
990377	US 12	81.22	Silver Cr	26.0540	Post-project	0.40	2003	1	Complete	12/16/03	Coho	Downstream	0.3	0	0	0	
990377	US 12	81.22	Silver Cr	26.0540	Post-project	0.40	2003	1	Complete	12/16/03	Coho	Upstream	0.3	0	0	0	
990377	US 12	81.22	Silver Cr	26.0540	Post-project	0.40	2003	2	Complete	12/04/04	Coho	Spotcheck	0.01	1	0	1	0
992223	SR 142	13.40	Snyder Canyon Cr	30.0018	Pre-project	0.00	2006	1	Incomplete	02/10/03	Coho	Upstream	0.3	16	0	16	0
992223	SR 142	13.40	Snyder Canyon Cr	30.0018	Pre-project	0.00	2006	1	Incomplete	11/24/03	Coho	Upstream	0.3	0	0	0	0
992223	SR 142	13.40	Snyder Canyon Cr	30.0018	Pre-project	0.00	2006	1	Incomplete	12/17/03	Coho	Upstream	0.3	0	0	0	0
992223	SR 142	13.40	Snyder Canyon Cr	30.0018	Pre-project	0.00	2006	1	Incomplete	12/13/03	Steelhead	Upstream	0.3	4	0	4	0
992234	SR 122	4.99	Unnamed to Mayfield Lk	26	Pre-project	0.04	2006	1	Incomplete	11/19/03	Coho	Upstream	0.3	0	0	0	0
992234	SR 122	4.99	Unnamed to Mayfield Lk	26	Pre-project	0.04	2006	1	Incomplete	11/19/03	Coho	Downstream	0.04	0	0	0	
992234	SR 122	4.99	Unnamed to Mayfield Lk	26	Pre-project	0.04	2006	1	Incomplete	12/16/03	Coho	Upstream	0.3	0	0	0	
992234	SR 122	4.99	Unnamed to Mayfield Lk	26	Pre-project	0.04	2006	1	Incomplete	12/16/03	Coho	Downstream	0.04	1	0	1	
991634	SR 504	17.00	Unnamed to NF Toutle R	26.0320	Pre-project	0.08	2006	1	Incomplete	10/24/03	Coho	Upstream	0.01	6	0	6	
991634	SR 504	17.00	Unnamed to NF Toutle R	26.0320	Pre-project	0.08	2006	1	Incomplete	11/12/03	Coho	Upstream	0.12	0	0	0	
991634	SR 504	17.00	Unnamed to NF Toutle R	26.0320	Pre-project	0.08	2006	1	Incomplete	12/03/03	Coho	Upstream	0.3	0	0	0	
991634	SR 504	17.00	Unnamed to NF Toutle R	26.0320	Pre-project	0.08	2006	1	Incomplete	12/03/03	Coho	Downstream	0.08	0	0	0	

Appendix V. Dedicated Project Evaluations - Adult Spawner Surveys

SiteID	Road	Mile Post	Stream	WRIA	Survey Timing	River Mile	Project Year	Eval Level	Eval Status	Survey Date	Species	Survey Location Relative to Project	Survey Length (mi)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
991634	SR 504	17.00	Unnamed to NF Toutle R	26.0320	Pre-project	0.08	2006	1	Incomplete	12/16/03	Coho	Downstream	0.08	0	0	0	
991634	SR 504	17.00	Unnamed to NF Toutle R	26.0320	Pre-project	0.08	2006	1	Incomplete	12/16/03	Coho	Upstream	0.3	0	0	0	

Evaluation Level:

1- Initial evaluation conducted one year prior and one year after barrier correction.

2 - Evaluations conducted on streams where was no immediate response of target species to barrier correction. These evaluations may take as long as two brood cycles or six years for coho salmon.