

Addition to Appendix A Final Fisheries Technical Report

Appendix A.

**Data and Comments for Streams,
Map and Aerial Photo-Based Surveys**

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Table A-1. Data and comments for streams, map and airphoto-based survey.

Stream name	Number	KC Class ¹	Description of RMZ	Segment	Potential Resident	Documented Resident	Potential Anadromous	Documented Anadromous	References	Fish Comments	Shade	Buffer	Vegetation	Vegetation Comments
Cedar River	1	I	Conifers	C	Rainbow, Cutthroat	None	Kokanee, Steelhead, Chinook, Coho, Sockeye, Bull trout		WDF 1975, CRW, SN2000	Above Landsburg Dam	20	300	140' tall PSME, THPL >14" dbh border stream	Clearing may be avoidable given that trees exist within RMZ of existing transmission line. Proposed alignment will intersect.
Trib to Rock Creek	2	II	Conifers w/ a thin line of hardwoods adjacent to creek & existing transmission line.	D	Rainbow, Cutthroat	None	Steelhead, Coho		WDF 1975	Above Landsburg Dam, Falls Downstream (WDF 1975). Potential anadromous habitat (CRW)	82	300	PSME, THPL, TSHE and 70-90' tall ALRU	Proposed alignment will intersect. Clearing appears to be necessary.
Rock Creek	3	II	Conifers w/ some hardwoods.	D	Rainbow, Cutthroat	None	Steelhead, Coho		SN2000, WDF 1975	Above Landsburg Dam, falls downstream (WDF 1975), Potential anadromous habitat (CRW). Gradient ~20%.	80	300	PSME, TH PL< TSHE, ALRU 70-90' tall	Tall conifers present under existing transmission line. Tributary and existing veg. Located w/n canyon.
Trib to Raging River	4	II	Conifers	D	Rainbow, Cutthroat	None	None		WDF 1975	Cascades block passage (WDF 1975). Raging river 3000 feet downstream.	85	300	Conifers.	Tall conifers present under existing transmission line. Tributary and existing veg. Located w/n canyon. Proposed alignment will intersect.
Trib to Deep Creek	5	II	Primarily hardwoods w/ some conifers	D	Rainbow, Cutthroat	None	None		WDF 1975	Cascades block passage (WDF 1975). Steelhead 5000 feet downstream.	95	200	Mixed forest.	Hardwood (ALRU) dominated RMZ.

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Trib to Raging River	6	II		D	Rainbow, Cutthroat	None	Coho, Steelhead		WDF 1975, SN 2000	Steelhead and Coho 1000' downstream in Raging River.	70	300	Mixed forest	
Raging River	7	I	Conifers w/ occasional hardwoods (most likely alder).	D	Rainbow, Cutthroat	Rainbow, Cutthroat	Coho, Steelhead	Coho, Steelhead, Chinook	SN2000, WDF 1975	ROW crosses Raging River 5000' upstream of Chinook Spawning area.	75	150	PSME, THPL, PICI 14-35" dbh. Heights variable 80-120'	To the east of ROW: South of Raging River is clearcut for 800'. 35-40' tall PSME borders ROW for the next 3500' south. 14-35" DBH trees border the Raging River in a 150' swath along the River; due to deep canyon, clearing may be avoidable.
Trib to Raging River	8	II	No buffer of large trees.	D	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	>20% gradient to Raging River 2500 feet downstream.	30	50	Young ALRU. PSME	Clearcut with 10 year old PSME bordering stream. 15' tall ALRU within the RMZ provide shade.
Unnamed channel	9	II		E	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	No connection to anadromous streams	0	0	Shrub/herbaceous	New road crossing location
Unnamed channel	10	II	Deciduous shrubs/herbaceous spp., w/ few conifers (less than 20)	E	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	No connection to anadromous streams. Appears to be non-fish bearing.	50	25	PSME and ALRU	Young deciduous shrubs and PSME regen. New road crossing location.
Cedar River	11	I	Conifers w/ hardwoods adj. to river bed	G	Rainbow, Cutthroat	None	Coho, Steelhead, Chinook, Bull trout, Kokanee		SN2000, WDF 1975	Above Landsburg Dam.	20	300	70 year old PSME, TSHE, PTHP 16-28" tall	Road corridors on north and south side of river. Proposed Option 2 would intersect river. Clearing necessary.
Unnamed channel	19	II		J	Rainbow, Cutthroat	None	None		WDF 1975	No connection to anadromous	20	0	Young deciduous, shrub and PSME regen.	NEW ROAD CROSSING LOCATION.

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Unnamed channel	20	II	Conifers w/ some hardwoods.	J	Rainbow, Cutthroat	None	None		WDF 1975	No connection to anadromous. Associated with wetland complex within Green River Watershed.	60	125	20" dbh THPL, TSHE	NEW ROAD CROSSING LOCATION.
Taylor Creek	21	II	Conifers on NW & S side of Pole Line Rd. Hardwoods on SW side.	J	Rainbow, Cutthroat	None	None		WDF 1975	Cascades barrier to anadromous (WDF 1975).	40	300	Mixed forest	Coniferous spp. on NW side of Pole Line Rd. Deciduous spp. On SW side. Conifers on south side of road. Proposed ROW intersects; clearing appears necessary.
Cedar River	22	I	Conifers	J	Rainbow, Cutthroat	None	Chinook, Coho, Steelhead, Bull trout, Sockeye		WDF 1975	Above Landsburg Dam.	35	300	Mixed forest	Cutting required due to floodplain topography; proposed ROW would intersect.
Steele Creek	23	II		J	Rainbow, Cutthroat	None	None		WDF 1975	Barrier at Holamar Road (WDF 1975)	75	300	Mixed forest and road	NEW ROAD CROSSING LOCATION.
Trib to Steele Creek	23.1	II			Rainbow, Cutthroat	None	None			Barrier at Holamar Road downstream (WDF 1975)	60	30	Mixed young forest.	NEW ROAD CROSSING LOCATION.
Steele Creek	24	II	Interspersed hardwoods & conifers.	J	Rainbow, Cutthroat	None	None		WDF 1975	Barrier at Holamar Road (WDF 1975)	40	30	Mixed young forest. Existing road compromises shade.	
Trib to Steele Creek	25	II	Conifers	J	Rainbow, Cutthroat	None	None		WDF 1975	Barrier at Holamar Road (WDF 1975).	30	30	Mixed young conifer forest. Wetland	Clearing most likely avoidable; intersects proposed ROW.
Trib to Raging River	26	II		J	Rainbow, Cutthroat	None	Coho, Steelhead		SN2000, WDF 1975	Raging River 4000' downstream. Steelhead documented 1000' downstream.	60	60	Mixed 60' tall PSME and ALRU	NEW ROAD CROSSING LOCATION.

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Trib to Raging River	27	II		J	Rainbow, Cutthroat	None	Coho, Steelhead		SN2000, WDF 1975	Raging River 4000' downstream. Steelhead documented 1000' downstream.	65	50	Mixed 60' tall PSME and ALRU	NEW ROAD CROSSING LOCATION.
Upper Raging River	28	II		J	Rainbow, Cutthroat	None	Coho, Steelhead		SN2000, WDF 1975	Chinook spawn more than 3.5 miles downstream. (In Raging River upper watershed). Steelhead barrier about 1000' downstream.	90	75	Mixed forest. 10-20" dbh TSHE, PSME, ALRU, POBA	
Trib to Raging River	29	II		J	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	Raging River 2500' downstream. Cascades barrier and >20% downstream.	95	300	47' tall PSME and ALRU (8" dbh) border stream	
Trib to Raging River	30	II		J	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	Steelhead 300+' downstream. Cascades barrier (WDF 1975)	95	300+	56' tall PSME 11" dbh	High density PSME borders stream. NEW ROAD CROSSING LOCATION.
Trib to Raging River	31	II		J	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	Steelhead 500' downstream. Cascades barrier (WDF 1975)	95	300+	56' tall PSME 11" dbh	High density PSME borders stream.
Trib to Raging River	32	II		J	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	Cascade barrier downstream, watershed < 50 acres	0	NA	Shrub/herbs	
Trib to Raging River	33	II		J	Rainbow, Cutthroat	None	None		SN2000, WDF 1975	Cascade barrier downstream, watershed < 50 acres	0	NA	Shrub/herbs	

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Trib to Raging River	34	II		J	Rainbow, Cutthroat	None	None		WDF, 1975	Raging River 1500' downstream. Cascades barrier (WDF 1975)	50	70'	35-40' tall PSME, ALRU 6" dbh	
Trib to Raging River	35	II		J	Rainbow, Cutthroat	None	None		WDF 1975	Cascade barrier downstream	50	90	50 year old TSHE/THPL and 35-40' tall ALRU/PSME border stream	
Canyon Creek (Trib to Raging River)	36	II		J	Rainbow, Cutthroat	None	Coho, Steelhead		SN2000, WDF 1975	12% grade to Raging River ~2000' downstream.	75	100	15-20" dbh TSHE, THPL border stream.	
Trib to Raging River	37	II		J	Rainbow, Cutthroat	None	None		WDF 1975	Raging River ~2000' downstream. Coho and Steelhead 2000' downstream. Cascade Barrier	0	NA	Shrub/herbs	
Trib to Raging River	38	II		J	Rainbow, Cutthroat	None	None		WDF 1975	Raging River and associated Coho and Steelhead 2000' downstream. Cascade barrier.	0	NA	Shrub/herbs	
Trib to Raging River	39	II		J	Rainbow, Cutthroat	None	None		WDF 1975	Raging River 2000' downstream. Cascade barrier.	60	50	12-14" dbh conifers border stream in narrow swath	ALRU and shrubs also provide shade to stream.
Trib to Raging River	40	II		J	Rainbow, Cutthroat	None	None		WDF 1975	Raging River 2000' downstream. Cascade barrier.	0	NA	Shrub/herbs	Clearcut. (shrubs and herbs may provide shade).

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Cedar River Riparian Area	43	II	Conifers	H	Rainbow, Cutthroat	None	Chinook, Coho, Kokanee, Bull trout, Steelhead		WDF 1975, Seattle 1998, SN2000		65	300+	140' tall PSME >14" dbh border stream	Conifers border river on both sides. Riparian zone encroachment on south side of Cedar River. Proposed 4A parallels Cedar River for ~1000'. Clearing nec because of flat terrain.

¹ King County Code Chapter 6 of Title 21A

References:

WDF 1975 = Washington Department of Fisheries. 1975. A catalog of Washington streams and salmon utilization. Volume 1, Puget Sound.

Seattle 1998 = City of Seattle, Cedar River Watershed Habitat Conservation Plan.

SN2000 = www.Streamnet.org, data accessed November, 2000.