Appendix A Culverts

SiteID	Date Miller	Mil. D	04	T-1. T-	D14	0	. T 1. 1	D	ELLI III.	FUO:'t'-	0	ation SiteComments	A T	D	D
000500			Stream	TribTo			n Township		FishUse		Species Loca				RepairStatus
980566 980567	Chiliwist Rd Chiliwist Rd	0.86 1.24	Chilliwist Cr Chilliwist Cr	Okanogan R Okanogan R	1.04 1.44		18 32N 18 32N	25E 25E	yes yes	physical physical		0 0	county	yes yes	RR RR
980568	Chiliwist Rd	1.44	Unnamed	Chilliwist Cr	1.44		18 32N		no	physical			state	yes	KK
980569	Unnamed	1.44	Unnamed	Chilliwist Cr			13 32N		no	physical			state		
980570	Chiliwist Rd	1.71	Unnamed	Chilliwist Cr			13 32N		no	physical			state		
980571	Chiliwist Rd	1.76	Unnamed	Chilliwist Cr			13 32N		no	physical			state		
980572	Chiliwist Rd	2.09	Unnamed	Chilliwist Cr			13 32N		no	physical			state		
980573	Chiliwist Rd	2.18	Unnamed	Chilliwist Cr			13 32N		no	physical		Road cross-drain.	state		
980574	Unnamed		Unnamed	Chilliwist Cr			18 32N	25E	no	physical		Non fish bearing culvert	state		
980575	Unnamed	0.16	Unnamed	Chilliwist Cr		SE	13 32N	24E	no	physical		Non fish bearing road drain.	state		
980576	Unnamed	0.01	Unnamed	Chilliwist Cr		SW	18 32N	25E	no	physical		Non fish bearing.	state		
980578	Cook Mountain Rd	1.51	Unnamed	Unnamed			35 33N		no	physical		Road cross-drain.	state		
980579	Cook Mountain Rd	1.74	Unnamed	Unnamed			35 33N		no	physical		Road cross-drain.	state		
980580	Cook Mountain Rd	2.05	Unnamed	Unnamed			35 33N		no	physical			state		
980581	Cook Mountain Rd	2.28	Unnamed	Unnamed			26 33N		no	physical			state		
980582	Unnamed		Unnamed	Unnamed		NW	2 32N		no	physical		, , . , . g	state		
980605	Unnamed		Chiliwist Cr	Okanogan R	0.14		17 32N	25E	yes	physical	CK/CO/SH/CT/RB/DB/EB	, , ,	unknown	yes	RR
980607	Chiliwist Rd		Chiliwist Cr	Okanogan R	0.81		18 32N	25E	yes	physical	CT/RB/DB/EB		county	yes	RR
980609	Unnamed		Chiliwist Cr	Okanogan R	1.88		13 32N	24E	yes	physical	CT/RB/DB/EB			no	OK
980612	Unnamed		Chiliwist Cr	Okanogan R	2.79		13 32N	24E	yes	physical	CT/RB/DB/EB			no	OK
980614	Unnamed		Chiliwist Cr	Okanogan R	3.51		14 32N	24E	yes	physical	CT/RB/DB/EB	ŭ	unknown	yes	RR
980616	Xanadu Rd		Unnamed Unnamed	Chiliwist Cr Chiliwist Cr	0.21		14 32N 14 32N	24E 24E	yes	physical	CT/RB/DB/EB CT/RB/DB/EB		unknown	yes	RR RR
980617	Unnamed Unnamed			Chiliwist Cr Chiliwist Cr	0.06 0.46		14 32N 14 32N	24E 24E	yes	physical	CT/RB/DB/EB	Culvert installed last year for logging private property purposes, incorrectly. Totally undersized and perched.		yes ves	RR
980618 980619	Unnamed		Unnamed Unnamed	Chiliwist Cr Chiliwist Cr	0.46		14 32N 14 32N	24E 24E	yes ves	physical physical	CT/RB/DB/EB	Crossing is a driveway. 980620 is 100 m upstream.		yes	RR
980620	Unnamed		Unnamed	Chiliwist Cr	0.47		14 32N 14 32N	24E 24E	yes	physical	CT/RB/DB/EB	ů , i	unknown	yes	RR
960020	Unitameu		Ulliameu	Crilliwist Ci	0.52	INVV	14 3211	240	yes	priysicai	C1/RB/DB/EB	No downstream check. Property owner downstream (at E. Chewuch Rd) will not permit	ulikilowii	yes	KK
												access to his property; for now, we will assume that there is anadromous access up to the			
980623	Unnamed		Ramsey Cr	Chewuch R	3.43	NW	12 35N	22E	yes	physical	CT/RB/DB/EB		federal	yes	RR
000020	O I I I I I I I I I I I I I I I I I I I		ramosy or	C.I.O.II GEITT	01.10				,,,,	p.1.y 0.0 ca.	0 17112702720	The transfer and trained of electron carry stated.		,00	
												If this site is physical surveyed in the future, electroshocking is recommended to verify			
												species present. Rainbow trout and steelhead are present in Okanogan R. Linda Hoffman,			
990217	US 97	299.03	Johnson Cr	Okanogan R		SE	25 35N	26E	yes	mapped	RB/EB/BT	, ,	state	yes	RR
990247	SR 20	223.18	Little Loup Cr	Loup Loup Cr		SW	8 33N		yes	biological	CT/RB	Ü,	state	yes	NG
									,	<u> </u>		WSDOT considers this crossing to be a bridge. Used gravel probe, seems to have bottom.		,	_
990251	SR 20	222.24	Loup Loup Cr	Okanogan R			8 33N	25E	yes	biological			state	no	OK
									,	Ü		Stream may experience summer drying. Rechecked by Collins and Bell on 6/15/2000.			
990288	SR 155	75.81	Mission Cr	Omak Cr		SE	4 33N	27E	yes	biological	RB/CT/SH/EB	Photo not taken.	state	yes	RR
									,	Ü		Salmonids observed, could be resident rainbow or brook trout. Streamnet shows rainbow			
												below falls DS. Bookies also observed below falls DS in Loup Loup Cr. No anadromous			
990406	SR 20	219.38	Summit Cr	Loup Loup Cr	1.4	NE	10 33N	24E	yes	biological	RT		state	yes	RR
												Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
												Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
990418	SR 20	224.49	Tallant Cr	Okanogan R		NW	16 33N	25E	yes	mapped		Ü	state	yes	RR
												Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
												Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
990419	SR 20	226.27	Tallant Cr	Okanogan R		SE	21 33N	25E	yes	mapped		V	state	yes	RR
												Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
								1				Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
990420	SR 20	226.96	Tallant Cr	Okanogan R		NW	27 33N	25E	yes	mapped		ů .	state	yes	RR
												Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
000424	CD 20	227 22	Tollant Cr	Okanagan B		SE	27 33N	255		mannad		Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to	ototo		DD.
990421	SR 20 SR 215	227.22 3.11	Tallant Cr Unnamed	Okanogan R	-	NW NW	3 33N		yes unknown	mapped	 	J	state state	yes	RR OK
990879	OR 210	3.11	ormanieu	Okanogan R	-	INVV	JUSIN	26E	urikriOWN	physical	+	Re-check for passability at high flow. Does not appear to be a barrier currently (09-14-	sidit	no	UN.
990880	SR 215	3.91	Unnamed	Okanogan R		SE	34 34N	26E	yes	physical		, , , , , , , , , , , , , , , , , , , ,	state	unknown	UD
230000	J. (2 1 J	0.01	Cinamo	Charlogairit	 	<u></u>	0-10-11	200	,	priyaloui		Original inventory 7/7/92; reevaluated by Soncarty/Espie, 9/14/00. At that time: minimal	oluto	ariki (OWI)	55
				1								flow downstream, which is murky and seemingly polluted (oily sheen & heavy algal growth).		1	
991643	US 97	325.87	Unnamed	Okanogan R	0.06	NW	26 39N	27E	unknown	physical			state	yes	UD
231010	55 01	020.01	C. Aldillod	- Carlogari II	0.00				STINIOWII	py01001	+	Boulders 3m DS create barrier also. See photo. Salmonids observed, could be resident		,00	
												rainbow, or brook trout. Streamnet shows rainbow below falls DS. Brookies also observed			
991687	SR 20	220.1	Unnamed	Summit Cr (Okanogan R)	0.13	NE	11 33N	24E	yes	biological	RT	'	state	yes	RR
992053	US 97	288.47	Unnamed	Okanogan R		NW	3 33N			physical			state	ř -	İ
				Ť				1			†	If this site is physical surveyed in the future, electroshocking is recommended to verify			
				1								species present. Rainbow trout are present in Okanogan R. Linda Hoffman, WDFW		1	
992054	Edwards St		Johnson Cr	Okanogan R	<u></u>	NE	7 35N	26E	yes	physical	RB/BT/EB	Habitat Manager, confirmed presence of brown trout and eastern brook trout.	county	yes	RR
												If this site is physical surveyed in the future, electroshocking is recommended to verify	-		
				1								species present. Rainbow trout are present in Okanogan R. Linda Hoffman, WDFW		1	
992055	State St		Johnson Cr	Okanogan R		NE	7 35N	26E	yes	physical	RB/BT/EB	Habitat Manager, confirmed presence of brown trout and eastern brook trout.	county	yes	RR
												Site reviewed by Collins and Bell on 6/14/2000. Reported as a barrier by Chris Fisher with			
11000045	SR 155	66.94	Stapaloop Cr	Omak Cr	0.31	NW	13 33N	28E	yes	biological	SH/CT/RB/EB		state	yes	RR
992845												Very long culvert; approx. 7 m of fill. Streamnet shows rainbow trout DS of falls and brook	-		
															In n
993815	SR 20	215.96	Summit Cr	Loup Loup Cr	5.18		31 34N		yes	biological	RT		state	yes	RR
	SR 20	215.96	Summit Cr Summit Cr	Loup Loup Cr Loup Loup Cr	5.18		31 34N 31 34N	24E 24E	yes yes	biological physical	RT SH/RT/EB		state unknown	yes yes	RR RR
993815	SR 20				2.57	SE			yes			Streamnet shows rainbow trout DS of falls and brook trout were observed DS of falls.		,	

Culverts

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SiteID	RoadName	MilePost	Stream	TribTo	RM	Qsec Section	Township	Range	FishUse	FUCriteria	Species	Location		OwnerType	Barrier	RepairStatus
													Three sections of PCC culvert broken off and sitting on ends, in plunge pool and further DS.			
				l <u>-</u>									Gradient/ waterfall barrier, 200 m downstream; NO GAIN. Trout seen US, EB seen below			
993818	SR 20	220.85	Summit Cr	Loup Loup Cr	0.16		12 33N	24E	yes	biological	RT/EB		falls, may or may not be above falls.	state	yes	NG
993819	SR 20	221.42	Unnamed	Loup Loup Cr		SE 1	12 33N	24E	no	physical			< 3' OHW.	state		
	00.00	000.40				0.44							Old, dry diversion ditch that empties into a larger diversion ditch. Diversion channel not			
993820	SR 20	223.12	Unnamed	Loup Loup Cr			8 33N	25E	no	other			mapped.	state		OV
993822	SR 20	223.23	Diversion Ditch	Leader Lk			8 33N	25E	unknown	other			Diversion ditch; mapped as type 3.	state	no	OK
993823	SR 20	223.71	Diversion Ditch	Leader Lk		NE	17 33N	25E	unknown	other			Diversion ditch; mapped as type 3.	state	no	OK
													Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
002024	SR 20	225.6	Tallant Cr	Okanagan B		NE 2	21 33N	25E	V00	mannad			Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to	ctato	V00	RR
993824 993916	US 97	261.36		Okanogan R Unnamed			12 30N	23E 24E	yes no	mapped physical		-	irrigate orchards downstream. X-drain	state	yes	KK
993917	US 97	261.64	Unnamed Unnamed	Unnamed			12 30N	24E	no	physical		-	X-drain	state		-
993919	US 97	262.03	Unnamed	Unnamed			7 30N	25E	no	physical			Small, steep, vegetated channel.	state		
993921	US 97	263.81	Unnamed	Okanogan R			7 30N	25E	no	physical			Steep, dry channel	state		
993922	US 97	265.13	Unnamed	Okanogan R			15 30N	25E	no	physical		1	Dry basin, no channel.	state		
993923	US 97	266.54	Unnamed	Okanogan R			3 30N	25E	no	physical			X-drain	state		
993924	US 97	266.88	Unnamed	Okanogan R			3 30N	25E	no	physical			Dry basin, no channel upstream.	state		
993925	US 97	267.99	Unnamed	Okanogan R			34 31N	25E	no	physical		1	X-drain	state		
993926	US 97	268.23	Unnamed	Okanogan R			34 31N	25E	no	physical			Steep, dry channel.	state		
993927	US 97	268.55	Unnamed	Okanogan R			26 31N	25E	no	physical			Dry basin, no channel.	state		
993928	US 97	268.71	Unnamed	Okanogan R			26 31N	25E	no	physical			Dry basin, no channel.	state		
993929	US 97	269.1	Dan Canyon Cr	Okanogan R			26 31N	25E	unknown	physical			Dry, but well scoured channel. Big basin upstream (as shown on map).	state	no	ОК
993930	US 97	272.07	Unnamed	Okanogan R			10 31N	25E	no	physical			Dry basin, no channel	state	110	OIL
000000	0007	272.07	Omamou	Charlogarra		011	0111	LUL	110	priyolodi			bry basin, no shamor	otato		
993931	US 97	272.35	Unnamed	Okanogan R		SE	9 31N	25E	no	physical			Somewhat of a scoured mineral channel, but very steep, and basin (on map) very small.	state		
993932	US 97	272.61	Unnamed	Okanogan R			9 31N	25E	no	physical			Defined swale, but with much vegetation and little evidence of scour/seasonal flow.	state		
993933	US 97	273.47	Unnamed	Okanogan R			4 31N	25E	no	physical			Cattle x-ing.	state		
993934	US 97	277.36	Unnamed	Okanogan R			30 32N	25E	no	physical			Cattle x-ing	state		
993935	US 97	278.72	Unnamed	Okanogan R		SE	9 32N	25E	no	physical			Dry basin, no channel.	state		
993936	US 97	278.78	Unnamed	Okanogan R			9 32N	25E	no	physical			Dry basin, no channel.	state		
993937	US 97	278.96	Unnamed	Okanogan R			9 32N	25E	no	physical			Dry basin, no channel.	state		
993938	US 97	279.2	Unnamed	Okanogan R		SE	9 32N	25E	no	physical			X-drain	state		
993939	US 97	279.26	Unnamed	Okanogan R		SE	9 32N	25E	no	physical			Steep, dry, vegetated channel.	state		
993940	US 97	279.34	Unnamed	Okanogan R			9 32N	25E	no	physical			Steep, dry, vegetated channel.	state		
993941	US 97	280.66	Unnamed	Okanogan R		SE	3 32N	25E	no	physical		1	Cross drain	state		
993942	US 97	280.78	Unnamed	Okanogan R		SW	2 32N	25E	no	physical			Cross drain	state		
000012	00 07	200.70	Officialities	- Charlogan N		011	Z OZIV	202	110	priyolodi			Somewhat of a defined channel, choked with woody vegetation and not much evidence of	otato		
993943	US 97	280.87	Unnamed	Okanogan R		sw	2 32N	25E	no	physical			scour/seasonal flow.	state		
993944	US 97	281.27	Unnamed	Okanogan R		SE	2 32N	25E	no	physical			Cross drain	state		
993945	US 97	282.46	Unnamed	Okanogan R		NE	1 32N	25E	no	physical			Cross drain	state		
000010	0007	202.10	Omamou	Charlogarra		112	I OZIV	LUL	110	priyolodi			Somewhat of a scoured, defined channel. However, vegetation too thick and substrate too	otato		
993946	US 97	282.58	Unnamed	Okanogan R		NE	1 32N	25E	no	physical			angular to suggest more than a few weeks of flow per year.	state		
993947	US 97	282.95	Unnamed	Okanogan R			36 33N	25E	no	physical			Big, dry basin with no defined channel.	state		
993948	US 97	283.21	Unnamed	Okanogan R			31 33N	26E	no	physical			Dry basin; o defined channel.	state		
993949	US 97	283.46	Unnamed	Okanogan R			31 33N	26E	no	physical			Cross drain	state		
993950	US 97	283.74	Unnamed	Okanogan R			31 33N	26E	no	physical			Dry basin; no defined channel.	state		
00000	00 0.	200	O.I.I.G.II.GG	- Changan n			J. 00.1			p.1.y 0.0a.			Dry channel, approx. 0.9 m OHWW, not much evidence of even a seasonal stream, neither	otato		
993951	US 97	283.96	Unnamed	Okanogan R		NE 3	31 33N	26E	no	physical			on map (type 9 stream listed) nor in real life.	state		
993952	US 97	284.06	Unnamed	Okanogan R			31 33N	26E	no	physical			Dry basin: no channel.	state		
993953	US 97	284.19	Unnamed	Okanogan R			31 33N	26E	no	physical			Dry basin; no channel.	state		
00000	00 0.	200	O.I.I.G.II.GG	- Changan n			J. 00.1			p.1.y 0.0a.			Dry basin, with no defined channel at all. Might originally have been Felix Cr (mapped as	otato		
993954	US 97	284.41	Felix Cr	Okanogan R		sw 2	29 33N	26E	no	physical			type 4), but it must have been entirely diverted somewhere upstream.	state		
993955	US 97	285.14	Unnamed	Okanogan R			30 33N		no	physical	1	1	Dry basin; no defined channel	state		
993956	US 97	285.86	Unnamed	Okanogan R		NW 2	20 33N	26E	no	physical	1		Dry basin; no channel	state		
993957	US 97	285.93	Unnamed	Okanogan R			20 33N		no	physical	1		Dry basin; no channel	state		
993958	US 97	318.33	Unnamed	Okanogan R			34 38N		no	physical	1		< 3' OHWW; cross drain	state		
993959	US 97	319.26	Unnamed	Okanogan R			26 38N		no	physical	1		< 3' OHWW; cross drain	state		
993960	US 97	319.9	Unnamed	Okanogan R			26 38N	27E	no	physical	1		< 3' OHWW; cross drain	state		
993961	US 97	322.37	Unnamed	Okanogan R			11 38N		no	physical		İ	'	state		
993962	US 97	323.2	Unnamed	Okanogan R			2 38N	27E	yes	physical	SH/RT/EB		Approximately 30 m upstream, stream enters (emits from) long pipe under orchard.	state	no	OK
-				gent to					,,,,	p, e		İ	Mapped as type 3 upstream, and nothing downstream. US is wetland, and DS is wetland,			-
993963	US 97	324.12	Unnamed	Okanogan R	1	sw 3	35 39N	27E	ves	mapped			and then DS of nearby RR crossing is defined channel.	state	no	ок
	1			3		 		T -	,	****	1		No channel/stream coming from where Mosquito Creek should be; only water is outlet of	1	t -	
													Borst Lake, which is not quite flowing strongly enough to sample habitat now. Recheck in			
993964	US 97	324.67	Mosquito Cr	Okanogan R	0.18	NE	34 39N	27E	ves	physical			spring for ETD.	state	ves	RR
993965	US 97	325.18	Unnamed	Okanogan R			27 39N		no	physical	 		1 0	state	,	····
993966	US 97	325.18	Unnamed	Okanogan R			26 39N		no	physical	1			state	-	+
993967	US 97	326.84	Unnamed	Okanogan R			22 39N		no	physical	+		< 3' OHWW; cross drain.	state	-	
993968	US 97	326.84	Unnamed	Okanogan R Okanogan R		NE 2	22 39N 22 39N		no	physical	+	-	< 3' OHWW; cross drain.	state	 	+
993968	US 97	326.98	Unnamed Unnamed	Okanogan R Okanogan R				27E 27E	no		+	 	< 3' OHWW; cross drain.	state		
993969	US 97	327.19	Unnamed Unnamed	Okanogan R Okanogan R			15 39N 15 39N		no	physical	+	 		state	-	
993970	US 97 US 97	327.59	Whistler Canyon Cr		0.16		15 39N 10 39N	27E 27E		physical physical	RT/EB		< 3' OHWW; dry wash; in need of maintenance (plugged w/gravel).	state	VOC	RR
993971	US 97	328.16	Unnamed	Okanogan R Okanogan R			10 39N	27E	yes no	physical	IXI/ED	-	< 3' OHWW; cross drain.	state	yes	IXIX
	US 97	328.87		Okanogan R Okanogan R			3 39N				+	-	'	state	-	
993973		330.08	Unnamed						no	physical	+	 		state	-	
993974	US 97	აა∪.პპ	Unnamed	Okanogan R		SW 3	34 40N	27E	no	physical	1	1	< 3' OHWW; dry wash.	siait	1	

SiteID	RoadName	MilePost	Stream	TribTo	RM	Qsec Section	on Township	Range	FishUse	FUCriteria	Species	Location	SiteComments	OwnerType	Barrier	RepairStatus
002075	US 97	331.08	Unnomed	Okonogon B		NW	34 40N	27E	unknoum	othor			Dry wetlands (basically, just fields of cattails) on both sides of road; "tide"-gate at DS end. Recheck at high flow for culvert eval/ETD. No TD done: 200 m visible US and DS.	ototo	unknown	LID
993975	05 97	331.08	Unnamed	Okanogan R		INVV	34 40N	2/E	unknown	other		+	USGS map shows dashed blue line ("siphon"); DNR water type map shows nothing.	state	unknown	טט
													Seems to no longer be used as siphon, even. No channel at all DS. Culvert not found at			
993976	US 97	332.49	Unnamed	Okanogan R		SE	21 40N	27E	no	physical			US.	state		
993977	US 97	335.64	Unnamed	Osoyoos Lk		SE	5 40N	27E	no	physical			< 3' OHWW; spring fed, from a point approx. 10 m up-slope of culvert.	state		
993978	US 97	335.82	Unnamed	Osoyoos Lk	0.40	SE	5 40N	27E	no	physical	DT/FD		< 3' OHWW; cross drain.	state		DD
993979 993980	Gavin Rd	0.49	Whistler Canyon Cr Whistler Canyon Cr			NW NW	10 39N 10 39N	27E 27E	yes ves	physical biological	RT/EB RT/EB		Near trailer with dogs chained throughout "yard". Fish observed just downstream of culvert; no positive ID.	county private	yes ves	RR RR
993900			Willistier Carryon Cr	Charlogairit	0.12	INVV	10 3914	216	yes	biological	IXI/LD		This was first barrier encountered during upstream ETD for DOT site ID 993971.	private	yes	IXIX
													Significant reach not verified for this pipe, since we were close to the end of the first 200 m			
993982	private		Whistler Canyon Cr	Okanogan R	0.29	NW	10 39N	27E	yes	physical	RT/EB		and landowner informed us of high numbers of rattlesnakes in immediate area.	private	yes	UD
													USGS quad/DNR hydro layer show this as being a trib to Mosquito Cr, but it might well be			
002082	privata		Unnamed	Mosquito Cr	0.00	NE	34 39N	27E		physical			the actual flow of Mosquito Cr, diverted through Borst Lake; no actual Mosquito Cr channel, where one should be near to 993964.	private		RR
993983	private		Unitallieu	Mosquito Ci	0.02	INC	34 3911	216	yes	physical			USGS quad/DNR hydro layer show this as being a trib to Mosquito Cr, but it might well be	private	yes	NN
													the actual flow of Mosquito Cr, diverted through Borst Lake; no actual Mosquito Cr			
993984			Unnamed	Mosquito Cr	0.05	NE	34 39N	27E	yes	physical			channel, where one should be near to 993964.	private	yes	RR
													USGS quad/DNR hydro layer show this as being a trib to Mosquito Cr, but it might well be			
				l									the actual flow of Mosquito Cr, diverted through Borst Lake; no actual Mosquito Cr			
993985	private		Unnamed	Mosquito Cr	0.11	NE	34 39N	27E	yes	physical			channel, where one should be near to 993964. Minimal flow: recheck at high flow for ETD (for 993964).	private	yes	RR
993986	RR	1	Mosquito Cr	Okanogan R	0.15	NE	34 39N	27E	ves	physical			Infiliation for the content at high how for the first (for 993904).	private	ves	RR
993989	SR 155	59.66	Unnamed	Omak Cr	0.13	NW	2 32N	29E	no	physical			Small dry channel. No potential for seasonal fish use.	state	y 0 3	TAX.
993990	SR 155	59.81	Unnamed	Unnamed		NW	2 32N	29E	no	physical			Cross Drain.	state	1	
										ľ			Culvert wetted. DS channel dry after 10m. OWH = 3' US. Channel deperses after 20m			
993991	SR 155	59.99	Unnamed	Unnamed		SW	35 33N	29E	no	physical			into moist swale.	state		
993992	SR 155	60.76	Omak Cr	Okanogan R		NE	34 33N	29E	yes	biological	SH/RT/EB		ETD conducted on 09/20/2000. Two salmonids observed in plunge pool.	state	,	RR
993993 993994	SR 155 SR 155	60.92 61.83	Trail Cr Unnamed	Omak Cr Omak Cr	0.12	NE NW	34 33N 27 33N	29E 29E	yes ves	biological physical	SH/RT/EB		Two brook trout observed in plunge pool. 100% passable.	state state	yes no	RR OK
993994	SR 155	62.41	Unnamed	Omak Cr	0.19	NE	28 33N	29E	yes	physical	RB/EB		100 % passable.	state	ves	RR
993996	SR 155	62.76	Unnamed	Omak Cr	0.10	SE	21 33N	29E	no	physical	IND/ED		2.13 CST, X-drain.	state	you	1414
993997	SR 155	65.05	Clark Cr	Omak Cr	0.1	NE	18 33N	29E	yes	physical			Stream is flowing on 09/20/2000.	state	yes	RR
													Stream is flowing on 09/20/2000, No rain recently. Lots of fish observed, assumed to be			
993998	SR 155	65.59	Swimptkin Cr	Omak Cr	0.46	NW	18 33N	29E	yes	biological	SH/RT/EB		brookies mostly.	state	yes	RR
993999	SR 155	65.63	Unnamed	Omak Cr		NW	18 33N	29E	no	physical			NFB, <3' OHWW. Some water flow, but channel disintegrates ~20 to 30m US.	state		
994000 994001	SR 155 SR 155	66.56 67.66	Unnamed Unnamed	Omak Cr Omak Cr	-	NW NW	13 33N 14 33N	28E 28E	no no	physical physical			NFB, <3' OHWW, Dry wash. NFB, <3' OHWW, Dry wash, X drain.	state state		
994002	SR 155	67.94	Unnamed	Omak Cr		NE	15 33N	28E	no	physical			NFB, <3' OHWW, Dry wash.	state		
994003	SR 155	69.3	Unnamed	Haley Cr		NE	16 33N	28E	no	physical			NFB, <3' OHWW, Dry wash.	state		
994004	SR 155	69.67	Unnamed	Haley Cr		SW	9 33N	28E	no	physical			NFB, <3' OHWW, Dry wash.	state		
994005	SR 155	69.95	Unnamed	Haley Cr		NE	17 33N	28E	no	physical			NFB, <3' OHWW, Dry wash.	state		
004000	00.455	70.07		11-1 0		0144	0.001	005		a to contract			NFB, Small wetland US of site. Continues US for ~100m at which point the stream channe			
994006 994007	SR 155 SR 155	70.97 71.07	Unnamed Unnamed	Haley Cr Halev Cr	-	SW SE	8 33N 7 33N	28E 28E	no no	physical physical			becomes a dry wash and forks into three seperate channels. NFB. <3' OHWW. Dry wash.	state		
994007	SIX 133	71.07	Officialitied	Trailey Ci		J.	7 3314	ZOL	110	priysicai			Re-check for ETD. Stream dry as of 09/20/00. Channel moist at culvert, but dry both US	State		
													and DS of site. Also re-check for barrier status and fish bearing status. Channel looks less	:		
994008	SR 155	71.1	Haley Cr	Omak Cr		SE	7 33N	28E	unknown	physical			fish bearing DS ~150m.	state	yes	UD
994009	SR 155	73.07	Unnamed	Mission Cr		SW	12 33N	27E	no	physical			NFB, <3' OHWW, Dry wash.	state		
994010	SR 155	73.29	Unnamed	Mission Cr		NE	11 33N	27E	no	physical			NFB, <3' OHWW, Dry wash.	state		
994011	SR 155	73.33	Unnamed	Mission Cr	-	NE	11 33N	27E	no	physical			NFB, <3' OHWW, Dry wash. NFB, <3' OHWW, Dry wash.	state		
994012	SR 155	73.43	Unnamed	Mission Cr		NE	11 33N	27E	no	physical			Maintenance required, DS end burried.	state		
994013	SR 155	73.66	Unnamed	Mission Cr		NW	11 33N	27E	no	physical			NFB, <3' OHWW, Dry wash.	state	1	
994014	SR 155	75.64	Unnamed	Mission Cr		SE	4 33N	27E	no	physical			NFB, <3' OHWW, Dry wash.	state		
994015	SR 155	77.53	Unnamed	Okanogan R		NE	6 33N	27E	no	physical			NFB, <3' OHWW, X drain.	state		
994016	SR 155	77.73	Unnamed	Okanogan R		SE	31 34N	27E	no	physical	DT/ED		NFB, <3' OHWW, X drain.	state	1	DD
994020 994021	SR 20 SR 20	263.4 263.62	Bonaparte Cr Bonaparte Cr	Okanogan R Okanogan R		SW SE	22 37N 22 37N	27E 27E	yes ves	biological biological	RT/EB RT/EB	_	Same size and type of pipe as 994021 and 994022. Same size pipe as 994020 and 994022.	state state	yes yes	RR RR
994021	SR 20	264.08	Bonaparte Cr	Okanogan R Okanogan R		SW	23 37N	27E	yes	biological	RT/EB		Same culvert type as 994020 and 994021.	state		RR
	13.1.20		1_0apa0 01			1 1		1	1,00			- 	Wide dry channel; thick vegetation. Appears to be a very old channel of Bonaparte Cr.		1,00	1
													Creek no longer has the short trans-highway meander bend shown on the USGS			
994023	SR 20	265.13	Unnamed	Bonaparte Cr		NE	26 37N	27E	no	physical			quad/DNR hydro layer (Bonaparte stays on south side of highway here).	state		
994024	SR 20	265.43	Unnamed	Bonaparte Cr		NW	25 37N	27E	no	physical			Cross-drain.	state		
													Scoured mineral channel, suggesting seasonal flows; > 3' at OHW; some riparian veg.			
004025	SR 20	265.57	Unnamad	Bonaparte Cr	0.00	NIVA/	25 271	275	unknown	othor			Recheck for fish use/photo/ETD. Lack of anadromous access confirmed: 2 falls on Bonaparte Cr (> 12'), between here and Okanogan R.	state	voc	UD
994025	SR 20 SR 20	265.66	Unnamed Unnamed	Bonaparte Cr	0.02	NW SE	25 37N 25 37N	27E 27E	no	other physical	+	+	Cross-drain	state state	yes	טט
994026	- CI \ - C	265.8	Unnamed	Bonaparte Cr		SE	25 37N 25 37N	27E	no	physical			<3' OHWW; dry wash.	state		
994026 994027	SR 20	200 A			+	SE	25 37N	27E	no	physical			<3' OHWW; dry wash.	state		
994026 994027 994028	SR 20 SR 20	265.92	Unnamed	Bonaparte Cr		JL										
994027				Bonaparte Cr Bonaparte Cr		SE	25 37N	27E	no	physical			<3' OHWW; dry wash.	state		
994027 994028 994029	SR 20 SR 20	265.92 265.95	Unnamed Unnamed	Bonaparte Cr		SE	25 37N	27E					5 m waterfall, approx. 30 m downstream; total barrier; NO GAIN. Photo of waterfall:			
994027 994028	SR 20	265.92	Unnamed Unnamed			SE SE			no yes	physical physical	RT/EB		5 m waterfall, approx. 30 m downstream; total barrier; NO GAIN. Photo of waterfall: 994030_00b.jpg	state	yes	NG
994027 994028 994029	SR 20 SR 20	265.92 265.95	Unnamed Unnamed	Bonaparte Cr		SE	25 37N	27E			RT/EB		5 m waterfall, approx. 30 m downstream; total barrier; NO GAIN. Photo of waterfall: 994030_00b.jpg The habitat gain is DS. 222m DS is site ID 994030. Approx. 30 m DS of that site is a >12	state	yes	NG
994027 994028 994029	SR 20 SR 20	265.92 265.95	Unnamed Unnamed	Bonaparte Cr		SE	25 37N	27E			RT/EB		5 m waterfall, approx. 30 m downstream; total barrier; NO GAIN. Photo of waterfall: 994030_00b.jpg	state	yes	NG

Appendix A

Culverts

SiteID	RoadName	MilePost	Stream	TribTo	RM	Qsec Sect	tion Township	Range	FishUse	FUCriteria	Species	Location	SiteComments	OwnerType	Barrier	RepairStatus
994032	SR 20	275.72	Unnamed	Bonaparte Cr		NW	33 37N	29E	no	physical			Cattle crossing.	state		
994033	SR 20	277.6	Unnamed	Bonaparte Cr		NE	27 37N	29E	no	physical			Cross drain	state		
994034	SR 20	278.15	Bonaparte Cr	Okanogan R		NW	26 37N	29E	yes	biological	RT/EB		Fish observed from road.	state	no	OK
													Fish observed just DS of site. Stream runs through a canyon DS of site, as does SR 20,			
994035	SR 20	278.6	Bonaparte Cr	Okanogan R		SW	23 37N	29E	yes	biological	RT/EB		which channelizes the stream.	state	yes	RR
994036	SR 20	278.99	Unnamed	Bonaparte Cr		SE	23 37N	29E	no	physical			Cross-drain	state		
													Dedrock cascade just US of culvert. 3.4m in height. The culvert apron runs right up to the			
994037	SR 20	279.3	Bonaparte Cr	Okanogan R		SW	24 37N	29E	yes	biological	RT/EB		base of the cascade, making both the culvert and the cascade total barriers.	state	yes	RR
994038	SR 20	279.94	Bonaparte Cr	Okanogan R		NW	24 37N	29E	yes	biological	RT/EB		Fry observed in DS end.	state	no	OK
994039	SR 20	280.32	Unnamed	Bonaparte Cr		SW	13 37N	29E	no	physical			Dry channel, < 3' OHWW	state		
994040	SR 20	280.52	Unnamed	Bonaparte Cr		NE	13 37N	29E	no	physical			X-drain.	state		
994041	SR 20	280.95	Bonaparte Cr	Okanogan R		NE	13 37N	29E	yes	biological	RT/EB		Fish observed just downstream.	state	no	OK
994042	SR 20	281.63	Unnamed	Bonaparte Cr		NW	18 37N	30E	no	physical			Cattle crossing	state		
													Fish observed at upstream end. Channel too shallow/stock- eroded for habitat			
													measurements; recheck at higher flow for ETD. 200 m significant reaches visible US and			
994043	SR 20	283.52	Unnamed	Bonaparte Cr		NE	8 37N	30E	yes	biological	RT/EB		DS, from road.	state	yes	RR
994044	SR 20	283.53	Unnamed	Unnamed		NE	8 37N	30E	no	physical			Overflow pipe for wetland created during higher flow.	state		
994045	SR 20	284.01	Unnamed	Bonaparte Cr		NW	9 37N	30E	yes	biological			Fish observed at DS end.	state	no	OK
994046	SR 20	284.25	Unnamed	Bonaparte Cr		NE	9 37N	30E	yes	physical	RB/EB			state	no	OK
													Channel too shallow & stock-eroded to measure habitat; recheck at high flow for ETD. 200)		
													m of waterfall-free habitat visible from road, both US and DS.			
994047	SR 20	284.52	Unnamed	Bonaparte Cr		NE	9 37N	30E	yes	physical				state	yes	RR
994048	SR 20	285.11	Unnamed	Bonaparte Cr		NE	10 37N	30E	yes	physical	RB/EB			state	no	OK
994049	SR 20	285.66	Unnamed	Unnamed		SW	2 37N	30E	yes	physical	RB/EB		Pond US with moist channel DS, but no flow.	state	no	OK
													Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
													Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
994054	Private		Tallant Cr	Okanogan R		NE	21 33N	25E	yes	mapped			irrigate orchards downstream.	private	yes	RR
				•									Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,		Ĭ	
													Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
994057	Private		Tallant Cr	Okanogan R		SE	27 33N	25E	yes	mapped			irrigate orchards downstream.	private	yes	RR
				•									Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,		Ĭ	
													Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
994063	Private		Tallant Cr	Okanogan R		SE	21 33N	25E	yes	mapped			irrigate orchards downstream.	private	yes	RR
													Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
						1 1							Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
994064	Private		Tallant Cr	Okanogan R		SE	21 33N	25E	yes	mapped			irrigate orchards downstream.	private	yes	RR
													Tallant Cr is part of a large diversion system that takes water from Summit, Loup Loup,			
						1 1							Little Loup and other creeks, holds it in Leader Lake then releases water into Tallant Cr to			
994065			Tallant Cr	Okanogan R		SE	27 33N	25E	yes	mapped			irrigate orchards downstream.	private	yes	UD