

APPENDIX B2: EQUESIS CREEK

Habitat Mapping

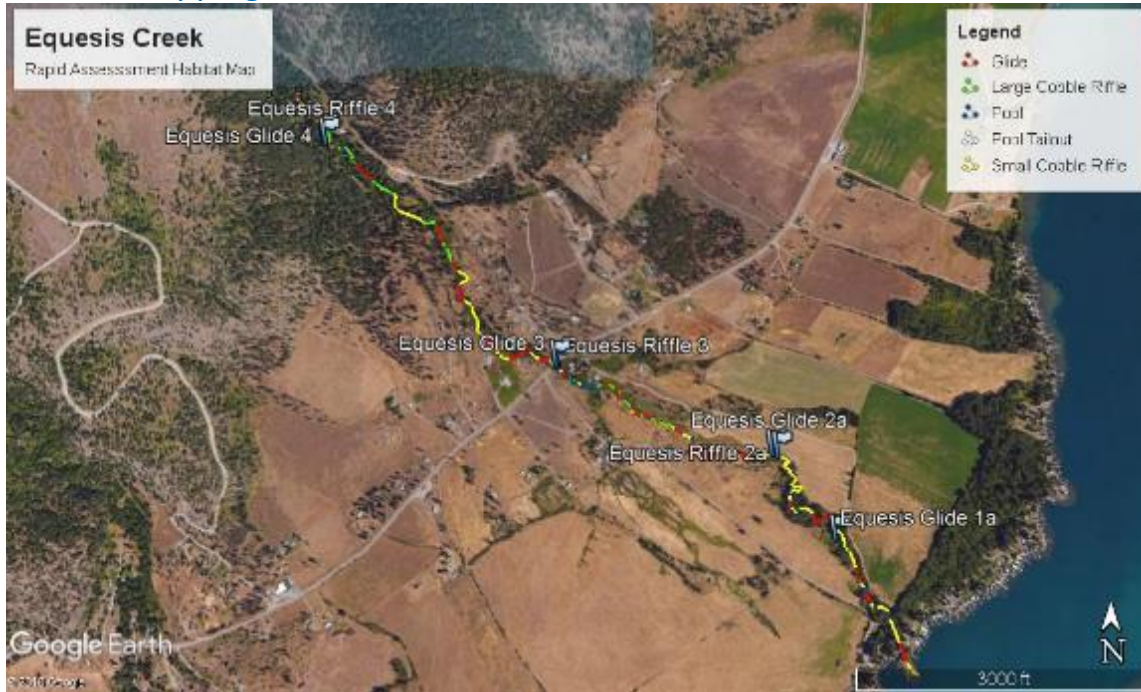


Figure B2-1: Map of habitat types recorded along Equesis Creek near the outlet to Okanagan Lake in fall of 2016

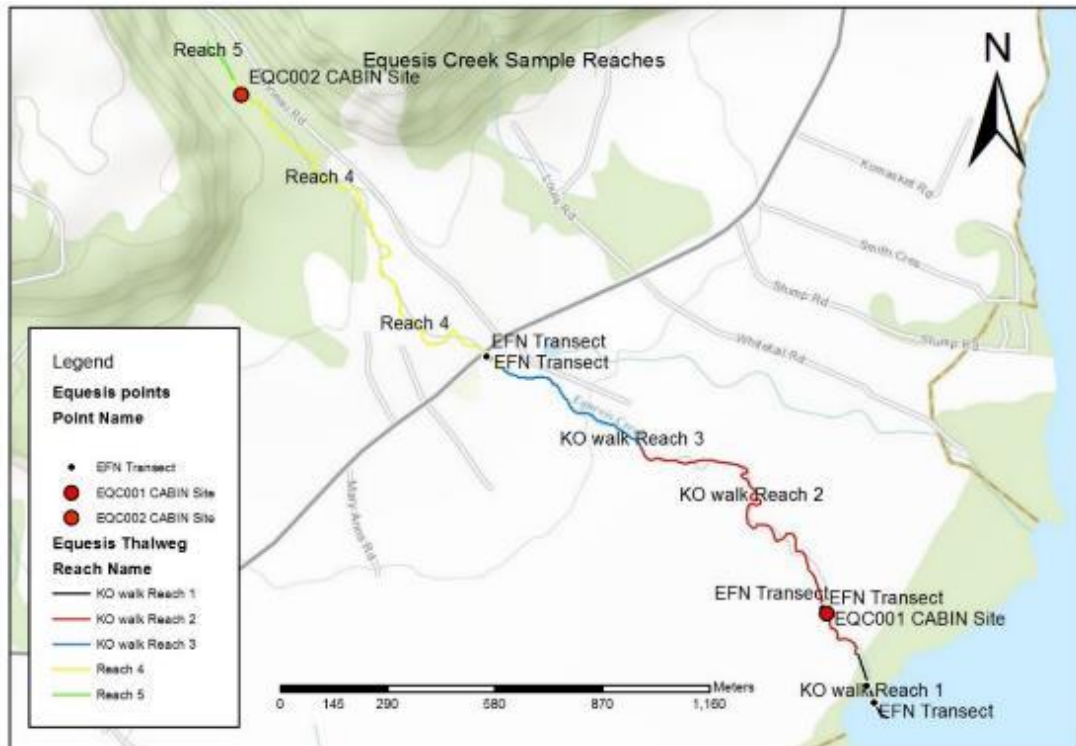


Figure B2-2: Reaches sampled along Equesis Creek in the fall of 2016

Table B2-1: Habitat lengths recorded along Equis Creek in fall of 2016

	Length (m)	% of Total Reach Length
KO walk Reach 1	197.79	
Glide	66.24	33.5
Small cobble riffle	131.55	66.5
KO walk Reach 2	1134.39	
Glide	426.00	37.6
Large cobble riffle	11.09	1.0
Pool	81.60	7.2
Small cobble riffle	615.70	54.3
KO walk Reach 3	540.68	
Glide	192.96	35.7
Large cobble riffle	183.46	95.1
Pool	85.19	46.4
Small cobble riffle	79.07	92.8
Reach 4	1248.11	
Glide	444.53	35.6
Large cobble riffle	325.54	26.1
Pool	15.49	1.2
Small cobble riffle	462.55	37.1
Reach 5	140.50	
Glide	63.82	45.4
Large cobble riffle	13.17	9.4
Pool	34.48	24.5
Pool tailout	1.43	1.0
Small cobble riffle	27.60	19.6

EFN Transect Locations



Figure B2-3: EFN transect and hydrometric station locations along Equis Creek

Transect Descriptions

Equesis Glide 1a

Install Date	June 19, 2017
Lat./Long.	50.281515, -119.399582
Comment	Typical of the habitat near the mouth with smaller gravel. Kokanee observed spawning at this transect. Reinstalled after freshet washed out Glide 1.



Looking upstream



Looking downstream



Looking right bank to left bank



Looking left bank to right bank

Equesis Riffle 2a

Install Date June 27, 2017

Lat./Long. 50.285015, -119.403234

Comment Close to transect Glide 2a. Reinstalled after freshet washed out Riffle 2



Looking upstream



Looking downstream



Looking right bank to left bank



Looking left bank to right bank

Equesis Glide 2a

Install Date June 19, 2017

Lat./Long. 50.285129, -119.403234

Comment Kokanee observed spawning here. Reinstalled after freshet washed out Glide 2



Looking upstream



Looking downstream



Looking right bank to left bank



Looking left bank to right bank

Equesis Creek Hydrometric Station 1a

Install Date July 10, 2017

Lat./Long. 50.285012°, -119.403588°

Comment Installed upstream of Glide 2a

Equesis Riffle 3

Install Date	July 20, 2016		
Lat./Long.	50.287982, -119.413203		
Width (install)	6.7 m	Depth (install)	0.20 m
Avg. width range	4.77-6.63 m	Avg. depth range	0.19-0.29 m
Comment	Installed during field visit with FLNRORD staff and OBWB on Jul 20, 2016 at $Q=0.584 \text{ m}^3/\text{s}$. Note: Average width and depth conditions were based on surveys conducted during lower flows (approx. $Q = 0.424 \text{ m}^3/\text{s}$) approx. 1 week later, so are likely slightly less wide and shallower than they were during installation.		



Looking upstream



Looking downstream



Looking right bank to left bank



Looking left bank to right bank

Equesis Glide 3

Install Date July 29, 2016

Lat./Long. 50.288026, -119.413243

Width (install) 3.70 m

Depth (install) 0.44 m

Comment Used for discharge measurements only (not WUW analysis) and across the downstream end of the Westside Road culvert. Next to Equesis Hydromet 2.



Looking upstream



Looking downstream



Looking right bank to left bank



Looking left bank to right bank

Equesis Hydromet 2

Install Date Sept 7, 2016

Lat./Long. 50.288008, -119.413184

Comment Real-time station (2016-present)



Equesis Riffle 4

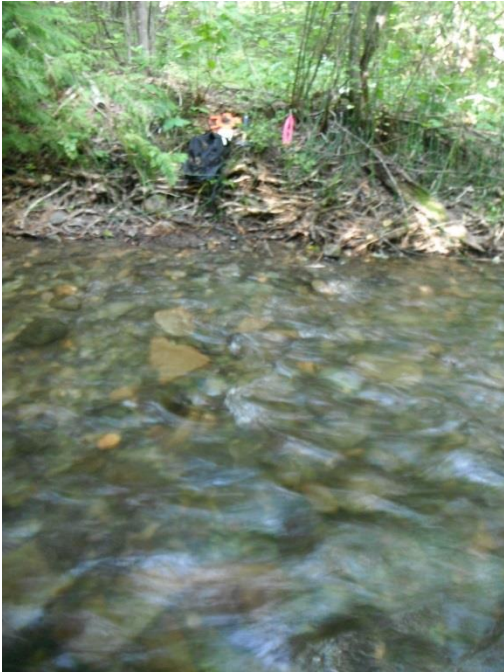
Install Date	July 29, 2016		
Lat./Long.	50.293997973204, -119.4229699764		
Width (install)	5.42 m	Depth (install)	0.25 m
Avg. width range	5.23-5.62 m	Avg. depth range	0.22-0.43 m
Comment	Immediately downstream of Glide 4		



Looking upstream



Looking downstream



Looking right bank to left bank



Looking left bank to right bank

Equesis Glide 4

Install Date	July 29, 2016		
Lat./Long.	50.294106015936, -119.4230409712		
Width (install)	5.35 m	Depth (install)	0.26 m
Avg. width range	5.27-5.52 m	Avg. depth range	0.18-0.46 m
Comment	Selected downstream of passable weir. Near Equesis Hydromet 3.		



Looking upstream



Looking downstream



Looking right bank to left bank



Looking left bank to right bank

Equesis Hydromet 3

Install Date Aug 26, 2016

Latitude 50.294253, -119.423383

Comment On left bank, attached to large cedar & cottonwood tree.



Discharge Records

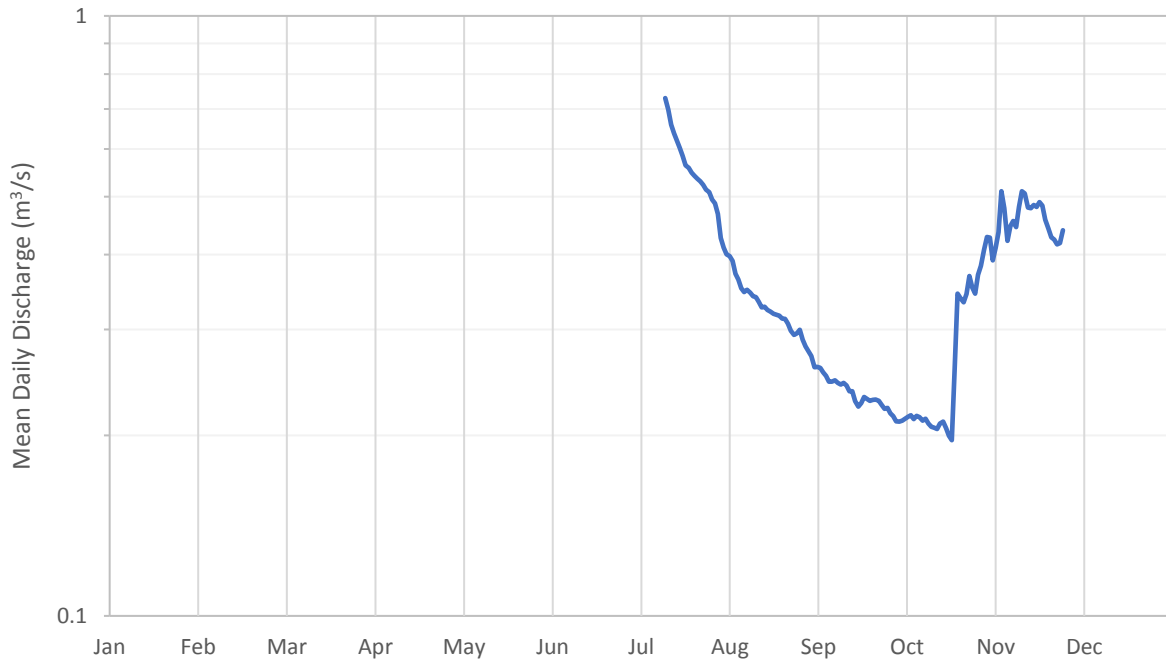


Figure B2-4: Mean daily discharge measured at Equis Creek Hydrometric Station 1a (08NM707) in 2017

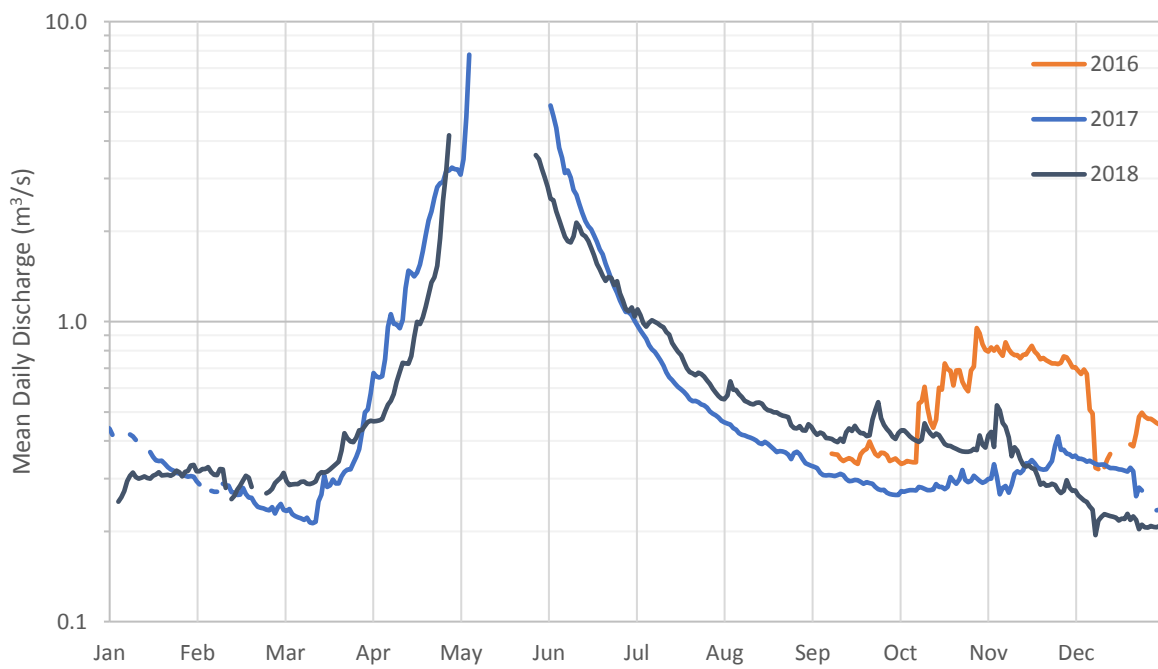


Figure B2-5: Mean daily discharge measured at the Equis Creek Hydrometric Station 2 (08NM161) from 2016 to 2018



Figure B2-6: Mean daily discharge measured at Equisis Creek Hydrometric Station 3 (08NM585) in 2017

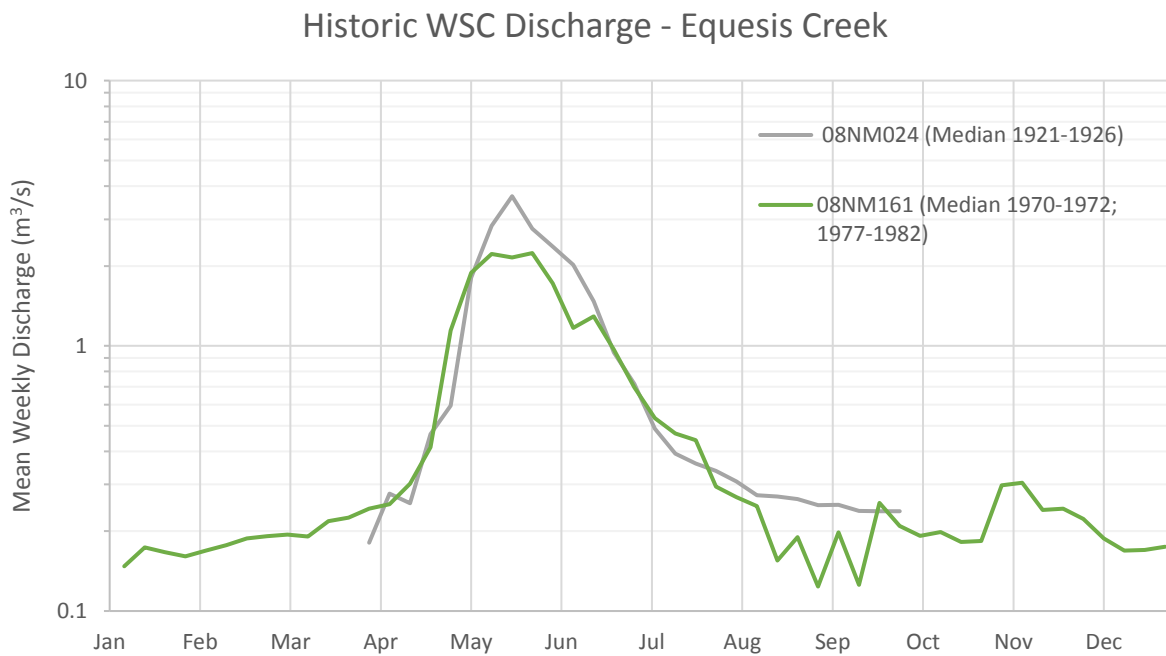


Figure B2-7: Historic discharge recorded at WSC stations 08NM161 (Equisis Creek near the mouth) from 1970-1972 and 1977-1982; and 08NM024 (Equisis Creek near Vernon) from 1921-1926

Water Temperature Records



Figure B2-8: Daily maximum water temperatures recorded at Equisis Creek Hydrometric Station 1a (08NM707) in 2017

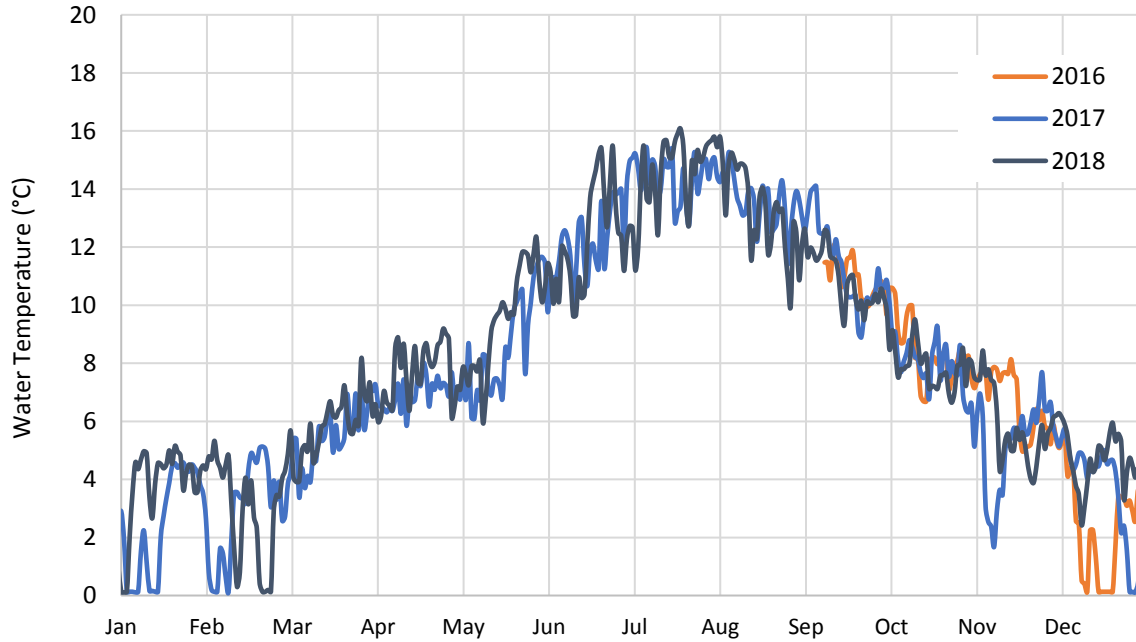


Figure B2-9: Daily maximum water temperatures recorded at the Equisis Creek Hydrometric Station 2 (08NM161) from 2016 to 2018

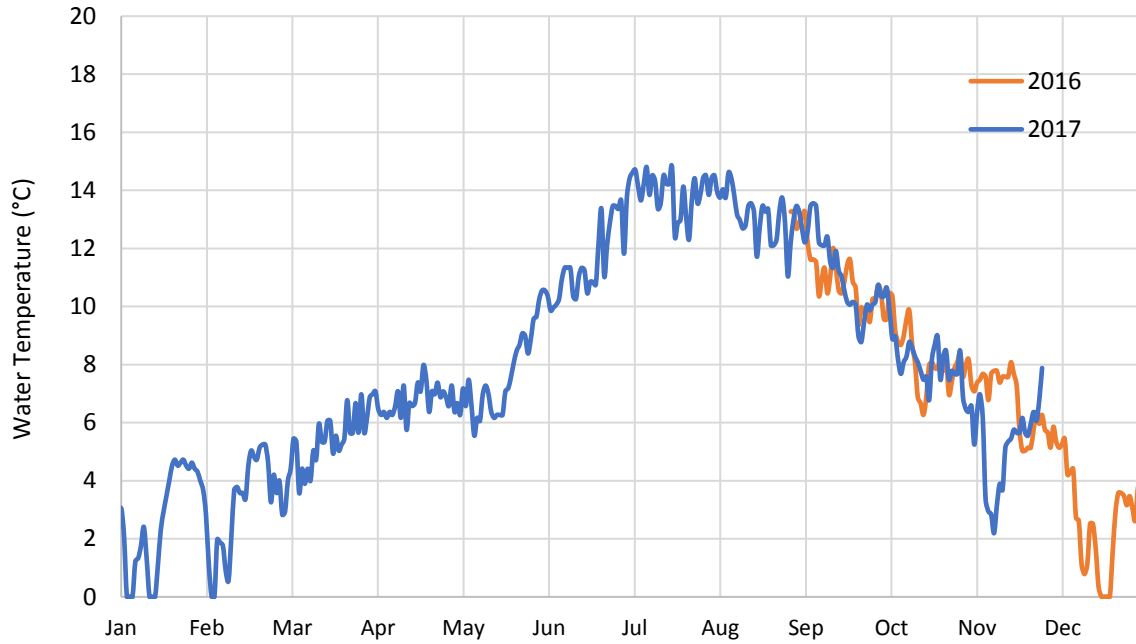


Figure B2-10: Daily maximum water temperatures recorded at Equis Creek Hydrometric Station 3 (08NM585) from 2016 to 2017

Flow standards and periodicity – Okanagan Tennant analysis for Equisis Creek

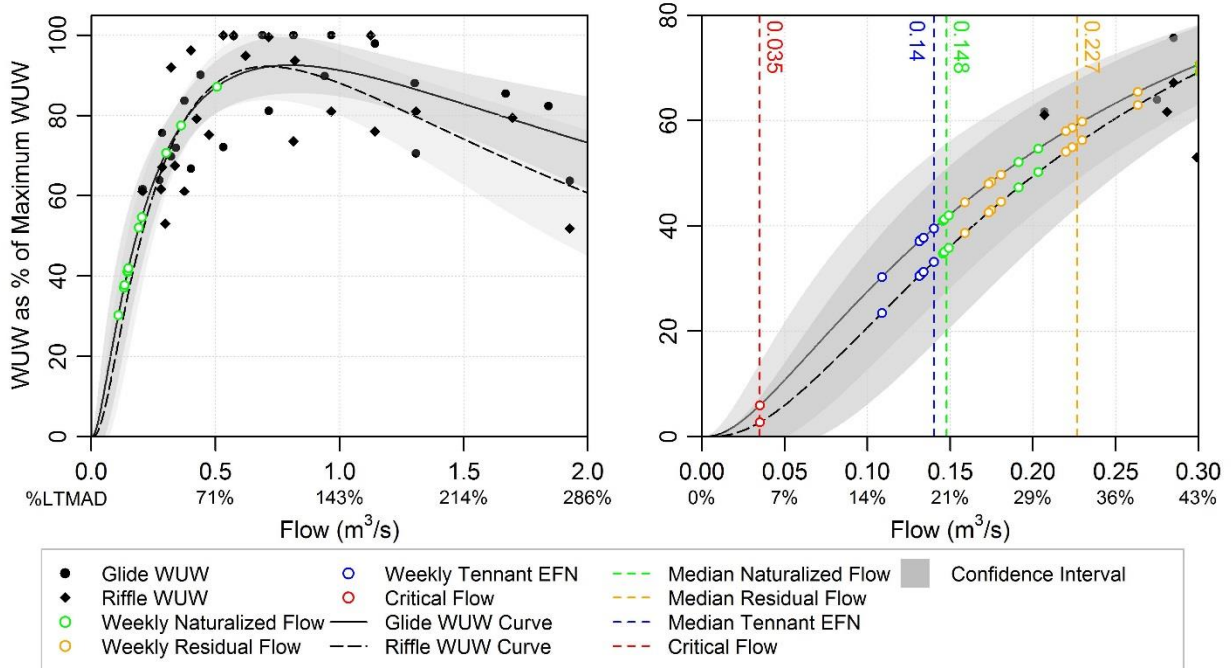
Week Ending	Life Stage/Week	Rainbow						Kokanee				Ecological Flows	
		Adult migration	Spawning	Incubation	Rearing	Juvenile migration	Over-wintering	Adult migration	Spawning	Incubation	Juvenile migration	Wetland, side channel linkage, flushing and channel maintenance flow	Cottonwood ecosystems
Jan							20%			20%			
Feb							20%			20%			
Mar							20%			20%			
1-Apr	13				20%						50%	<input checked="" type="checkbox"/>	
8-Apr	14				20%						50%	<input checked="" type="checkbox"/>	
15-Apr	15	168%			20%						50%	<input checked="" type="checkbox"/>	
22-Apr	16	168%			20%						50%	<input checked="" type="checkbox"/>	
29-Apr	17	168%			20%						50%	<input checked="" type="checkbox"/>	
6-May	18	168%			20%	50%					50%	<input checked="" type="checkbox"/>	
13-May	19	168%			20%	50%					50%	<input checked="" type="checkbox"/>	
20-May	20	168%	40%		20%	50%					50%	1100%	
27-May	21	168%	40%	20%	20%	50%					50%	1100%	
3-Jun	22	168%	40%	20%	20%	50%						<input checked="" type="checkbox"/>	100%
10-Jun	23	168%	40%	20%	20%	50%						<input checked="" type="checkbox"/>	100%
17-Jun	24	168%	40%	20%	20%	50%						<input checked="" type="checkbox"/>	100%
24-Jun	25	168%	40%	20%	20%	50%							100%
1-Jul	26	168%	40%	20%	20%	50%							100%
8-Jul	27	168%	40%	20%	20%	50%							100%
15-Jul	28			20%	20%	50%							100%
22-Jul	29			20%	20%								100%
29-Jul	30			20%	20%								100%
5-Aug	31				20%								
12-Aug	32				20%								
19-Aug	33				20%								
26-Aug	34				20%								
2-Sep	35				20%								
9-Sep	36				20%								
16-Sep	37				20%			20%	20%	20%			
23-Sep	38				20%			20%	20%	20%			
30-Sep	39				20%			20%	20%	20%			
7-Oct	40				20%			20%	20%	20%			
14-Oct	41				20%			20%	20%	20%			
21-Oct	42				20%					20%			
28-Oct	43				20%					20%			
Nov							20%			20%			
Dec							20%			20%			

EFNs and Critical Flows for Equis Creek

Week Ending	Okanagan Tennant EFN					WUW EFN (m ³ /s)				FINAL EFN		CRITICAL FLOWS (m ³ /s)			
	EFN - all factors (%LTMAD)	EFN based on flow standards (m ³ /s)	Naturalized median weekly Q (m ³ /s)	Discharge m ³ /s	%LTMAD	Rainbow rearing/ insect production	Kokanee spawning	Rainbow trout spawning	FINAL	Value (m ³ /s)	Dominant Species / Life Stage	Rainbow trout rearing & overwintering	Kokanee spawning	Rainbow trout spawning	FINAL
Jan	20%	0.140	0.121	0.121	17%					0.137	overwintering egg Incubation	0.035			0.035
Feb	20%	0.140	0.120	0.120	17%					0.134	overwintering egg Incubation	0.035			0.035
Mar	20%	0.140	0.154	0.140	20%					0.156	overwintering egg Incubation	0.035			0.035
1-Apr	50%	0.350	0.433	0.350	50%	0.170				0.350	RB juvenile migration	0.035			0.035
8-Apr	50%	0.350	0.496	0.350	50%	0.170				0.350	RB juvenile migration	0.035			0.035
15-Apr	168%	1.176	0.663	0.663	95%	0.170				0.663	RB adult migration	0.035		0.380	0.380
22-Apr	168%	1.176	1.087	1.087	155%	0.170			0.170	1.087	RB adult migration	0.035		0.380	0.380
29-Apr	168%	1.176	2.168	1.176	168%	0.170			0.170	1.176	RB adult migration	0.035		0.380	0.380
6-May	168%	1.176	2.525	1.176	168%	0.170			0.170	1.176	RB adult migration	0.035		0.380	0.380
13-May	168%	1.176	2.740	1.176	168%	0.170			0.170	1.176	RB adult migration	0.035		0.380	0.380
20-May	1100%	7.702	3.388	3.388	484%	0.170		1.100	1.100	3.388	Ecosystem flows	0.035		0.380	0.380
27-May	1100%	7.702	3.192	3.192	456%	0.170		1.100	1.100	3.192	Ecosystem flows	0.035		0.380	0.380
3-Jun	168%	1.176	2.224	1.176	168%	0.170		1.100	1.100	1.100	RB Spawning	0.035		0.380	0.380
10-Jun	168%	1.176	2.118	1.176	168%	0.170		1.100	1.100	1.100	RB Spawning	0.035		0.380	0.380
17-Jun	168%	1.176	1.667	1.176	168%	0.170		1.100	1.100	1.100	RB Spawning	0.035		0.380	0.380
24-Jun	168%	1.176	1.173	1.173	167%	0.170		1.100	1.100	1.100	RB Spawning	0.035		0.380	0.380
1-Jul	168%	1.176	0.975	0.975	139%	0.170		1.100	1.100	0.975	RB Spawning	0.035		0.380	0.380
8-Jul	168%	1.176	0.706	0.706	101%	0.170		1.100	1.100	0.706	RB Spawning	0.035		0.380	0.380
15-Jul	100%	0.700	0.505	0.505	72%	0.170			0.170	0.505	RB incubation	0.035			0.035
22-Jul	100%	0.700	0.361	0.361	52%	0.170			0.170	0.361	RB incubation	0.035			0.035
29-Jul	100%	0.700	0.301	0.301	43%	0.170			0.170	0.301	RB incubation	0.035			0.035
5-Aug	20%	0.140	0.191	0.140	20%	0.170			0.170	0.170	RB parr rearing	0.035			0.035
12-Aug	20%	0.140	0.203	0.140	20%	0.170			0.170	0.170	RB parr rearing	0.035			0.035
19-Aug	20%	0.140	0.145	0.140	20%	0.170			0.170	0.170	RB parr rearing	0.035			0.035
26-Aug	20%	0.140	0.146	0.140	20%	0.170			0.170	0.170	RB parr rearing	0.035			0.035
2-Sep	20%	0.140	0.149	0.140	20%	0.170			0.170	0.170	RB parr rearing	0.035			0.035
9-Sep	20%	0.140	0.109	0.109	16%	0.170			0.170	0.163	RB parr rearing	0.035			0.035
16-Sep	20%	0.140	0.132	0.132	19%	0.170	0.177		0.177	0.170	KO Spawning	0.035	0.070		0.070
23-Sep	20%	0.140	0.131	0.131	19%	0.170	0.177		0.177	0.182	KO Spawning	0.035	0.070		0.070
30-Sep	20%	0.140	0.134	0.134	19%	0.170	0.177		0.177	0.175	KO Spawning	0.035	0.070		0.070
7-Oct	20%	0.140	0.134	0.134	19%	0.170	0.177		0.177	0.198	KO Spawning	0.035	0.070		0.070
14-Oct	20%	0.140	0.128	0.128	18%	0.170	0.177		0.177	0.171	KO Spawning	0.035	0.070		0.070
21-Oct	20%	0.140	0.170	0.140	20%	0.170			0.170	0.170	RB parr rearing	0.035			0.035
28-Oct	20%	0.140	0.147	0.140	20%	0.170			0.170	0.170	RB parr rearing	0.035			0.035
Nov	20%	0.140	0.154	0.140	20%					0.173	overwintering egg Incubation	0.035			0.035
Dec	20%	0.140	0.110	0.110	16%					0.135	overwintering egg Incubation	0.035			0.035

Weighted Usable Width

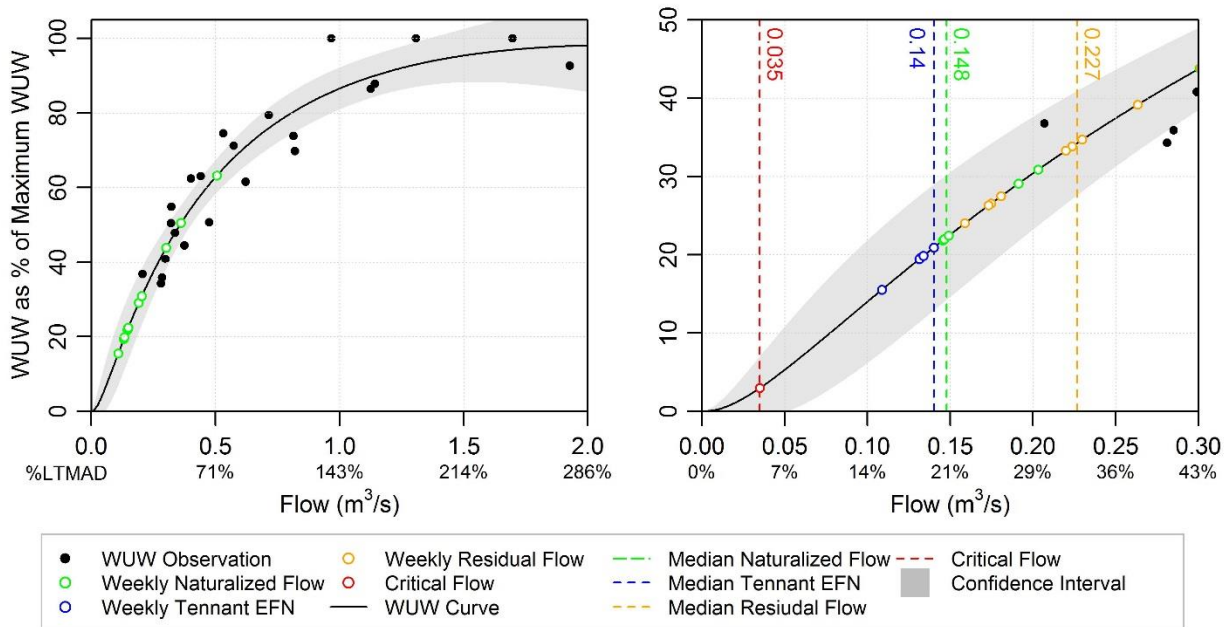
Equesis Creek Rainbow Parr Rearing WUW



Median values from mid-July to end of September (week 28-39)

Figure B2-11: WUW curves for Rainbow rearing in Equesis Creek for all flows (left) and low flows (right)

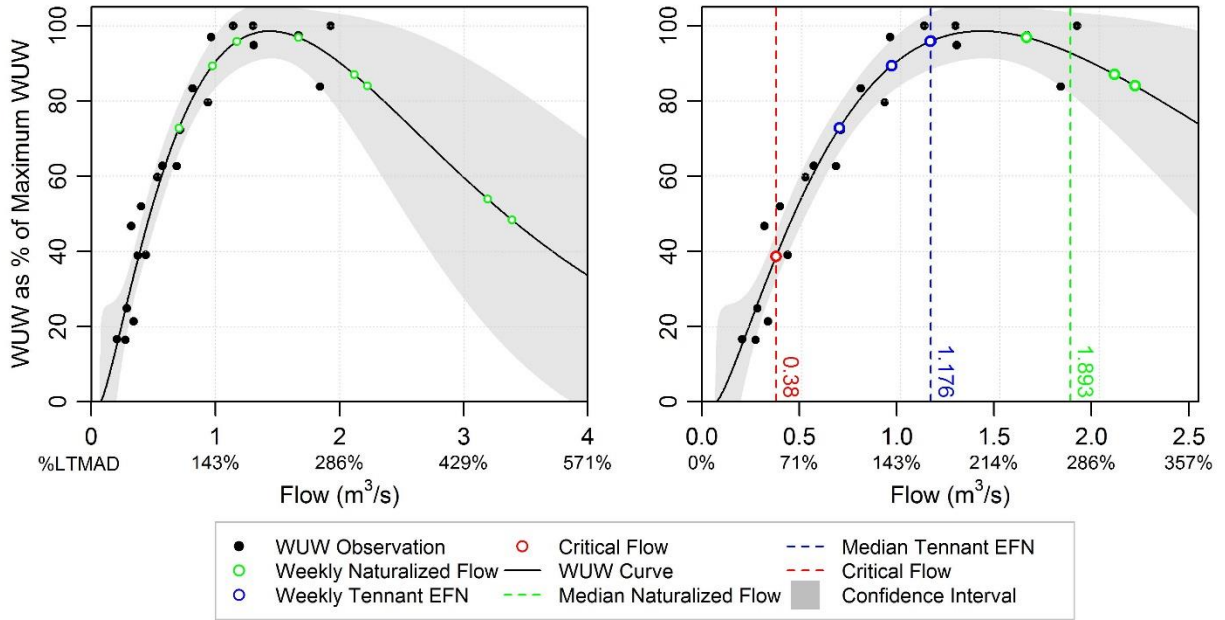
Equesis Creek Insect Production WUW



Median values from mid-July to end of September (week 28-39)

Figure B2-12: WUW curves for insect production in Equesis Creek for all flows (left) and low flows (right)

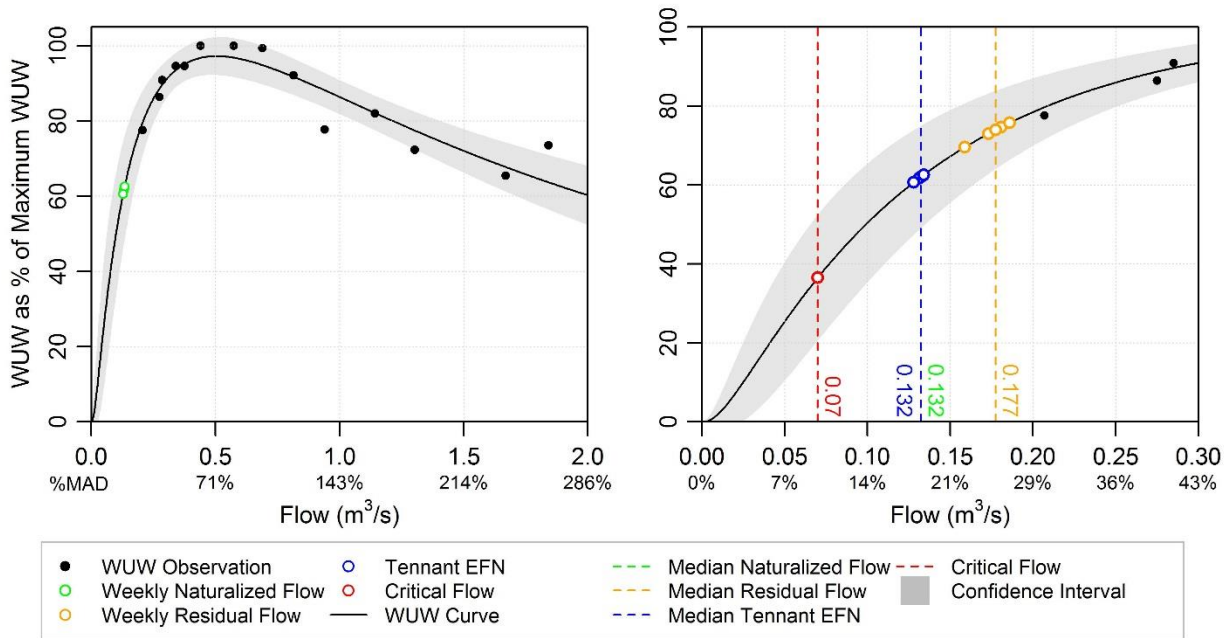
Equesis Creek Rainbow Spawning WUW



Median values from May 20 to July 10 (week 20-27)

Figure B2-13: WUW curves for Rainbow spawning in Equesis Creek for all flows (left) and low flows (right)

Equesis Creek Kokanee Spawning WUW



Median values from September 10 to October 10 (week 37-41)

Figure B2-14: WUW curves for Kokanee spawning in Equesis Creek for all flows (left) and low flows (right)

Critical Flows

Table B2-2: Critical flow analysis for Equesis Creek

Species / Life stage	Critical Flow Criteria	Riffle 2A		Riffle 3		Riffle 4		Migration Barrier (Riffle 1)		Average	
		(m ³ /s)	% LTMAD	(m ³ /s)	% LTMAD	(m ³ /s)	% LTMAD	(m ³ /s)	% LTMAD	(m ³ /s)	% LTMAD
	Naturalized LTMAD	0.700	100%	0.700	100%	0.700	100%	0.700	100%		
	Wetted width at 100% LTMAD (m)	6.28		7.12		5.39		9.32			
Insect production, Rainbow rearing & overwintering	60% of width at 100% LTMAD	0.096	14%	0.115	16%	0.120	17%	0.099	14%	0.107	15%
Rainbow Spawning	25% of width at 100% LTMAD is ≥0.18m deep	0.224	32%	0.189	27%	0.300	43%	0.806	115%	0.380	54%
Kokanee Spawning	25% of width at 100% LTMAD is ≥0.12m deep	0.074	11%	0.120	17%	0.092	13%	0.395	56%	0.095	14%

Table B2-3: Final critical flows for Equesis Creek

Species/Life stage	Final Critical Flow (m ³ /s)	% LTMAD	Criteria Used
Rainbow parr & insect production	0.035	5%	5% LTMAD
Rainbow spawning	0.380	54%	0.18m depth criterion
Kokanee spawning	0.070	10%	10% LTMAD
Rainbow overwintering	0.035	5%	5% LTMAD

Table B2-4: 30 day naturalized low flows for Summer and Winter provided by Associated (2019)

	m ³ /s	% LTMAD
Summer (July 1 to September 30) Minimum		
Summer 1:5-year return period 30 Day Naturalized Low	0.059	8%
Summer 1:10-year return period 30 Day Naturalized Low	0.045	6%
Summer 1:20-year return period 30 Day Naturalized Low	0.037	5%
Winter (November 1 to March 31) Minimum		
Winter 1:5-year return period 30 Day Naturalized Low	0.059	8%
Winter 1:10-year return period 30 Day Naturalized Low	0.046	7%
Winter 1:20-year return period 30 Day Naturalized Low	0.037	5%

Percentile Flows for Equisis Creek

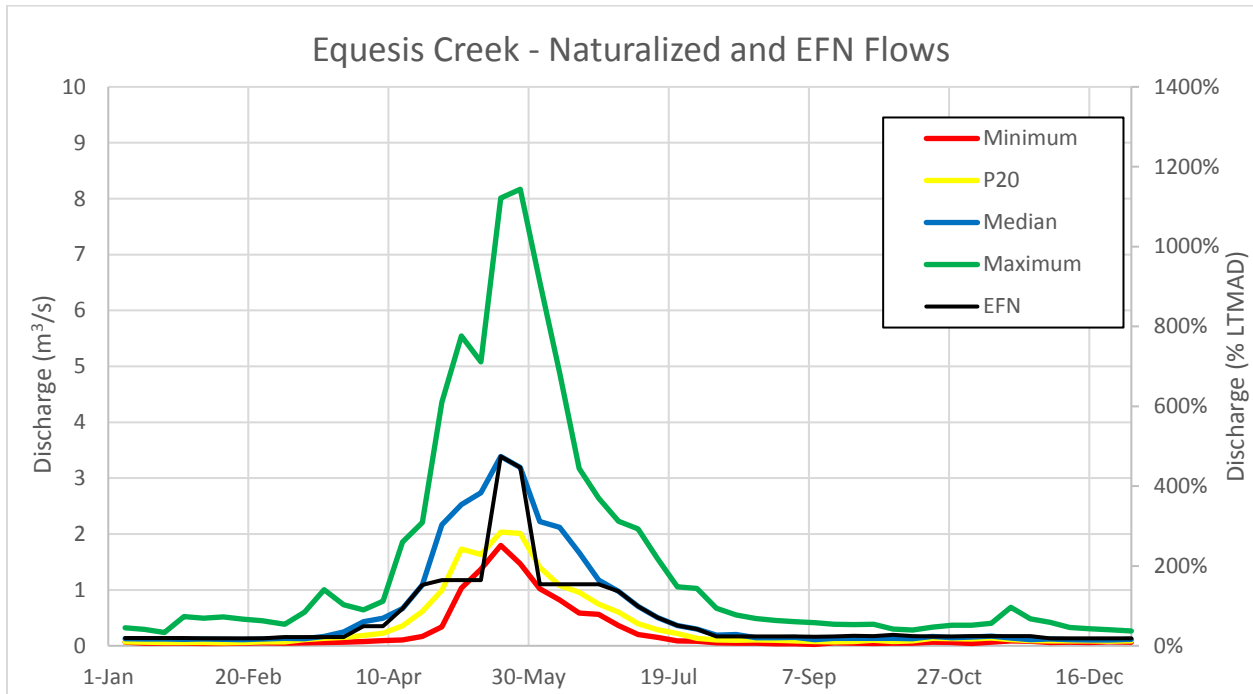


Figure B2-15: EFNs compared with naturalized flow percentiles for Equisis Creek (Discharge & %LTMAD)

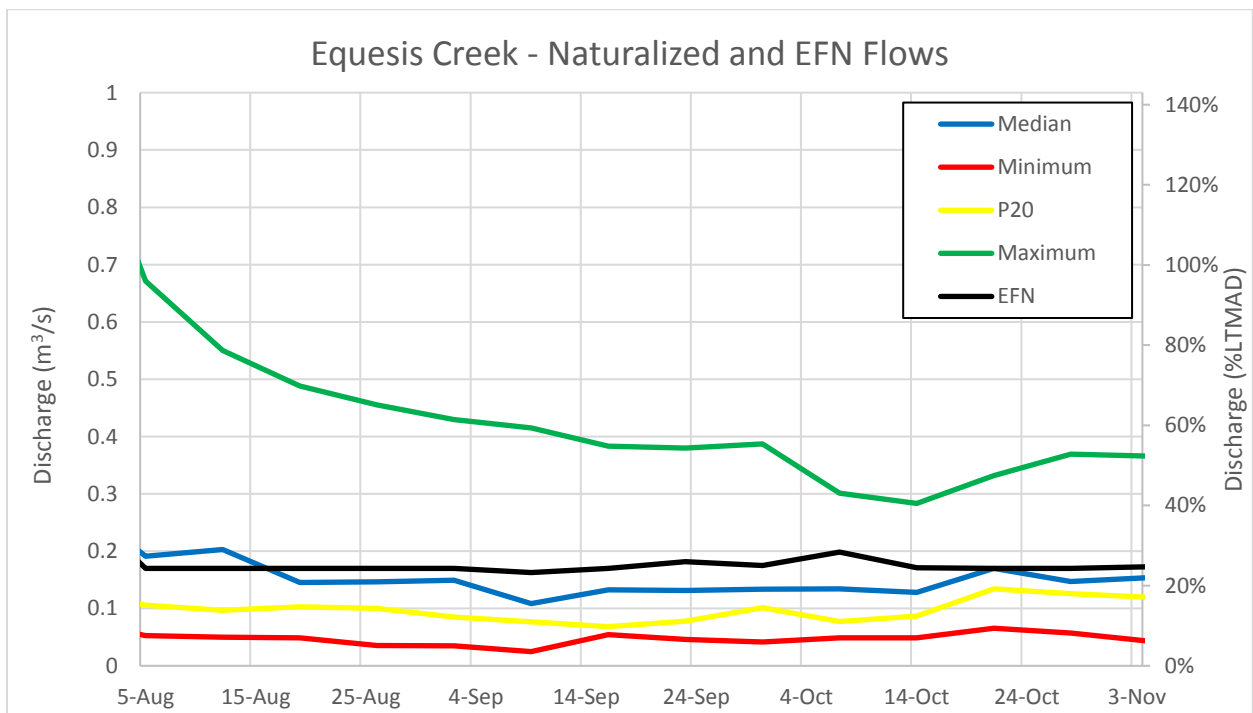


Figure B2-16: EFNs compared with naturalized flow percentiles for Equisis Creek Aug-Nov (Discharge & %LTMAD)

Naturalized Percentile Flows for Equis Creek

NATURALIZED FLOW		as m ³ /s				as % LTMAD			
Week	Ending	Min	P20	Median	Max	Min	P20	Median	Max
01	7-Jan	0.064	0.068	0.125	0.320	9%	10%	18%	46%
02	14-Jan	0.049	0.063	0.122	0.291	7%	9%	17%	42%
03	21-Jan	0.048	0.059	0.123	0.238	7%	8%	18%	34%
04	28-Jan	0.045	0.060	0.117	0.522	6%	9%	17%	74%
05	4-Feb	0.043	0.061	0.121	0.493	6%	9%	17%	70%
06	11-Feb	0.039	0.053	0.118	0.518	6%	8%	17%	74%
07	18-Feb	0.049	0.060	0.113	0.477	7%	9%	16%	68%
08	25-Feb	0.054	0.068	0.121	0.450	8%	10%	17%	64%
09	4-Mar	0.049	0.073	0.131	0.386	7%	10%	19%	55%
10	11-Mar	0.055	0.110	0.126	0.601	8%	16%	18%	86%
11	18-Mar	0.057	0.135	0.167	1.003	8%	19%	24%	143%
12	25-Mar	0.064	0.153	0.250	0.737	9%	22%	36%	105%
13	1-Apr	0.074	0.186	0.433	0.641	11%	27%	62%	91%
14	8-Apr	0.091	0.224	0.496	0.798	13%	32%	71%	114%
15	15-Apr	0.107	0.354	0.663	1.858	15%	51%	95%	265%
16	22-Apr	0.169	0.615	1.087	2.204	24%	88%	155%	315%
17	29-Apr	0.340	0.992	2.168	4.360	49%	142%	310%	623%
18	6-May	1.030	1.730	2.525	5.543	147%	247%	361%	792%
19	13-May	1.369	1.633	2.740	5.081	196%	233%	391%	726%
20	20-May	1.796	2.035	3.388	8.012	257%	291%	484%	1144%
21	27-May	1.469	2.009	3.192	8.169	210%	287%	456%	1167%
22	3-Jun	1.023	1.402	2.224	6.514	146%	200%	318%	930%
23	10-Jun	0.818	1.075	2.118	4.883	117%	154%	303%	697%
24	17-Jun	0.583	0.957	1.667	3.173	83%	137%	238%	453%
25	24-Jun	0.565	0.749	1.173	2.640	81%	107%	167%	377%
26	1-Jul	0.365	0.603	0.975	2.229	52%	86%	139%	318%
27	8-Jul	0.200	0.394	0.706	2.093	29%	56%	101%	299%
28	15-Jul	0.151	0.288	0.505	1.558	22%	41%	72%	222%
29	22-Jul	0.089	0.220	0.361	1.057	13%	31%	52%	151%
30	29-Jul	0.080	0.135	0.301	1.028	11%	19%	43%	147%
31	5-Aug	0.053	0.106	0.191	0.671	8%	15%	27%	96%
32	12-Aug	0.050	0.097	0.203	0.550	7%	14%	29%	79%
33	19-Aug	0.049	0.103	0.145	0.488	7%	15%	21%	70%
34	26-Aug	0.035	0.100	0.146	0.455	5%	14%	21%	65%
35	2-Sep	0.035	0.085	0.149	0.430	5%	12%	21%	61%
36	9-Sep	0.025	0.077	0.109	0.415	4%	11%	16%	59%
37	16-Sep	0.054	0.068	0.132	0.383	8%	10%	19%	55%
38	23-Sep	0.046	0.078	0.131	0.380	7%	11%	19%	54%
39	30-Sep	0.041	0.101	0.134	0.387	6%	14%	19%	55%
40	7-Oct	0.049	0.077	0.134	0.301	7%	11%	19%	43%
41	14-Oct	0.049	0.087	0.128	0.283	7%	12%	18%	40%
42	21-Oct	0.065	0.134	0.170	0.332	9%	19%	24%	47%
43	28-Oct	0.057	0.126	0.147	0.369	8%	18%	21%	53%
44	4-Nov	0.043	0.120	0.154	0.366	6%	17%	22%	52%
45	11-Nov	0.067	0.140	0.172	0.400	10%	20%	25%	57%
46	18-Nov	0.087	0.109	0.137	0.687	12%	16%	20%	98%
47	25-Nov	0.083	0.091	0.108	0.480	12%	13%	15%	69%
48	2-Dec	0.057	0.086	0.122	0.420	8%	12%	17%	60%
49	9-Dec	0.066	0.088	0.110	0.326	9%	13%	16%	47%
50	16-Dec	0.061	0.086	0.105	0.305	9%	12%	15%	44%
51	23-Dec	0.070	0.083	0.105	0.287	10%	12%	15%	41%
52	31-Dec	0.066	0.087	0.114	0.268	9%	12%	16%	38%

Residual Percentile Flows for Equisis Creek

RESIDUAL FLOW		as m ³ /s				as %LTMD			
Week	Ending	Min	P20	Median	Max	Min	P20	Median	Max
01	7-Jan	0.088	0.098	0.135	0.286	13%	14%	19%	41%
02	14-Jan	0.077	0.091	0.144	0.265	11%	13%	21%	38%
03	21-Jan	0.074	0.089	0.140	0.240	11%	13%	20%	34%
04	28-Jan	0.068	0.081	0.133	0.463	10%	12%	19%	66%
05	4-Feb	0.065	0.077	0.134	0.444	9%	11%	19%	63%
06	11-Feb	0.064	0.074	0.133	0.467	9%	11%	19%	67%
07	18-Feb	0.065	0.076	0.132	0.438	9%	11%	19%	63%
08	25-Feb	0.067	0.086	0.135	0.418	10%	12%	19%	60%
09	4-Mar	0.039	0.079	0.137	0.351	6%	11%	20%	50%
10	11-Mar	0.045	0.118	0.130	0.539	6%	17%	19%	77%
11	18-Mar	0.067	0.127	0.174	0.858	10%	18%	25%	123%
12	25-Mar	0.073	0.159	0.223	0.656	10%	23%	32%	94%
13	1-Apr	0.058	0.156	0.340	0.583	8%	22%	49%	83%
14	8-Apr	0.072	0.202	0.441	0.663	10%	29%	63%	95%
15	15-Apr	0.120	0.320	0.559	1.531	17%	46%	80%	219%
16	22-Apr	0.176	0.568	1.014	1.886	25%	81%	145%	269%
17	29-Apr	0.343	0.845	1.995	3.714	49%	121%	285%	530%
18	6-May	0.877	1.464	2.204	4.949	125%	209%	315%	707%
19	13-May	1.181	1.374	2.413	4.990	169%	196%	345%	713%
20	20-May	1.510	2.010	3.175	7.200	216%	287%	453%	1028%
21	27-May	1.582	1.794	3.010	7.457	226%	256%	430%	1065%
22	3-Jun	1.033	1.368	2.153	6.518	147%	195%	308%	931%
23	10-Jun	0.841	1.082	2.081	4.846	120%	155%	297%	692%
24	17-Jun	0.652	0.940	1.628	3.378	93%	134%	232%	482%
25	24-Jun	0.595	0.738	1.130	2.609	85%	105%	161%	373%
26	1-Jul	0.382	0.624	0.963	2.246	55%	89%	138%	321%
27	8-Jul	0.248	0.454	0.747	1.913	35%	65%	107%	273%
28	15-Jul	0.205	0.351	0.524	1.457	29%	50%	75%	208%
29	22-Jul	0.150	0.280	0.444	1.141	21%	40%	63%	163%
30	29-Jul	0.141	0.218	0.346	0.968	20%	31%	49%	138%
31	5-Aug	0.114	0.202	0.298	0.693	16%	29%	43%	99%
32	12-Aug	0.112	0.193	0.263	0.608	16%	28%	38%	87%
33	19-Aug	0.103	0.172	0.222	0.568	15%	25%	32%	81%
34	26-Aug	0.088	0.168	0.223	0.543	13%	24%	32%	78%
35	2-Sep	0.082	0.150	0.214	0.521	12%	21%	31%	74%
36	9-Sep	0.069	0.125	0.163	0.509	10%	18%	23%	73%
37	16-Sep	0.063	0.106	0.170	0.482	9%	15%	24%	69%
38	23-Sep	0.084	0.106	0.182	0.481	12%	15%	26%	69%
39	30-Sep	0.078	0.127	0.175	0.434	11%	18%	25%	62%
40	7-Oct	0.083	0.118	0.198	0.365	12%	17%	28%	52%
41	14-Oct	0.083	0.114	0.171	0.279	12%	16%	24%	40%
42	21-Oct	0.110	0.143	0.186	0.301	16%	20%	27%	43%
43	28-Oct	0.100	0.142	0.173	0.366	14%	20%	25%	52%
44	4-Nov	0.085	0.144	0.174	0.366	12%	21%	25%	52%
45	11-Nov	0.100	0.166	0.181	0.395	14%	24%	26%	56%
46	18-Nov	0.116	0.147	0.171	0.595	17%	21%	24%	85%
47	25-Nov	0.111	0.133	0.154	0.439	16%	19%	22%	63%
48	2-Dec	0.094	0.128	0.164	0.379	13%	18%	23%	54%
49	9-Dec	0.098	0.125	0.144	0.307	14%	18%	21%	44%
50	16-Dec	0.102	0.119	0.135	0.298	15%	17%	19%	43%
51	23-Dec	0.096	0.119	0.130	0.281	14%	17%	19%	40%
52	31-Dec	0.090	0.116	0.134	0.265	13%	17%	19%	38%

Maximum Licensed Percentile Flows for Equesis Creek

MAX LICENSED FLOW		as m ³ /s				as %LTMD			
Week	Ending	Min	P20	Median	Max	Min	P20	Median	Max
01	7-Jan	0.088	0.097	0.135	0.286	13%	14%	19%	41%
02	14-Jan	0.077	0.091	0.144	0.264	11%	13%	21%	38%
03	21-Jan	0.073	0.088	0.139	0.240	10%	13%	20%	34%
04	28-Jan	0.068	0.081	0.133	0.463	10%	12%	19%	66%
05	4-Feb	0.064	0.077	0.134	0.444	9%	11%	19%	63%
06	11-Feb	0.064	0.074	0.133	0.467	9%	11%	19%	67%
07	18-Feb	0.065	0.076	0.132	0.438	9%	11%	19%	63%
08	25-Feb	0.067	0.086	0.135	0.418	10%	12%	19%	60%
09	4-Mar	0.038	0.079	0.137	0.351	5%	11%	20%	50%
10	11-Mar	0.045	0.118	0.129	0.538	6%	17%	18%	77%
11	18-Mar	0.067	0.127	0.174	0.858	10%	18%	25%	123%
12	25-Mar	0.073	0.158	0.223	0.655	10%	23%	32%	94%
13	1-Apr	0.058	0.156	0.339	0.583	8%	22%	48%	83%
14	8-Apr	0.071	0.202	0.441	0.662	10%	29%	63%	95%
15	15-Apr	0.119	0.318	0.559	1.531	17%	45%	80%	219%
16	22-Apr	0.176	0.568	1.014	1.886	25%	81%	145%	269%
17	29-Apr	0.343	0.844	1.994	3.642	49%	121%	285%	520%
18	6-May	0.866	1.395	2.202	4.857	124%	199%	314%	694%
19	13-May	1.173	1.319	2.271	4.896	167%	188%	324%	699%
20	20-May	1.383	1.819	2.915	7.039	198%	260%	416%	1005%
21	27-May	1.341	1.515	2.744	7.245	192%	216%	392%	1035%
22	3-Jun	0.774	1.059	1.920	6.357	111%	151%	274%	908%
23	10-Jun	0.570	0.772	1.791	4.503	81%	110%	256%	643%
24	17-Jun	0.377	0.662	1.271	2.995	54%	95%	181%	428%
25	24-Jun	0.235	0.444	0.880	2.323	34%	63%	126%	332%
26	1-Jul	0.027	0.257	0.595	1.909	4%	37%	85%	273%
27	8-Jul	0.000	0.065	0.355	1.613	0%	9%	51%	230%
28	15-Jul	0.000	0.000	0.171	1.125	0%	0%	24%	161%
29	22-Jul	0.000	0.000	0.048	0.829	0%	0%	7%	118%
30	29-Jul	0.000	0.000	0.000	0.559	0%	0%	0%	80%
31	5-Aug	0.000	0.000	0.000	0.273	0%	0%	0%	39%
32	12-Aug	0.000	0.000	0.000	0.188	0%	0%	0%	27%
33	19-Aug	0.000	0.000	0.000	0.219	0%	0%	0%	31%
34	26-Aug	0.000	0.000	0.000	0.157	0%	0%	0%	22%
35	2-Sep	0.000	0.000	0.000	0.177	0%	0%	0%	25%
36	9-Sep	0.000	0.000	0.000	0.297	0%	0%	0%	42%
37	16-Sep	0.000	0.000	0.000	0.341	0%	0%	0%	49%
38	23-Sep	0.000	0.000	0.052	0.409	0%	0%	7%	58%
39	30-Sep	0.000	0.004	0.071	0.397	0%	1%	10%	57%
40	7-Oct	0.000	0.051	0.125	0.339	0%	7%	18%	48%
41	14-Oct	0.048	0.085	0.152	0.269	7%	12%	22%	38%
42	21-Oct	0.107	0.135	0.185	0.299	15%	19%	26%	43%
43	28-Oct	0.100	0.141	0.173	0.366	14%	20%	25%	52%
44	4-Nov	0.085	0.144	0.174	0.366	12%	21%	25%	52%
45	11-Nov	0.100	0.166	0.181	0.395	14%	24%	26%	56%
46	18-Nov	0.115	0.147	0.171	0.595	16%	21%	24%	85%
47	25-Nov	0.111	0.133	0.154	0.439	16%	19%	22%	63%
48	2-Dec	0.094	0.128	0.164	0.379	13%	18%	23%	54%
49	9-Dec	0.097	0.125	0.143	0.307	14%	18%	20%	44%
50	16-Dec	0.102	0.119	0.135	0.298	15%	17%	19%	43%
51	23-Dec	0.096	0.119	0.130	0.280	14%	17%	19%	40%
52	31-Dec	0.090	0.116	0.134	0.265	13%	17%	19%	38%