

Al Irvine
New Graph Environment
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250-777-1518

Date: 2021-07-24

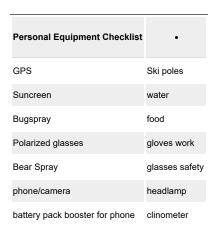
### Safety Plan - bulkley\_2021

project_number	project_name
2021-034	hctf-bulkley-fish-passage
2021-040	cwf-bulkley-fish-passage

The latest version of this pdf can be downloaded <u>here</u>.

A zip file which includes kml (google earth) and gpx (garmin) files of the sites to be potentially assessed can be downloaded <u>here</u>. Georeferenced pdf maps can be accessed and downloaded for the <u>Bulkley here</u> and <u>Morice here</u>.

#### **Equipment Checklists**

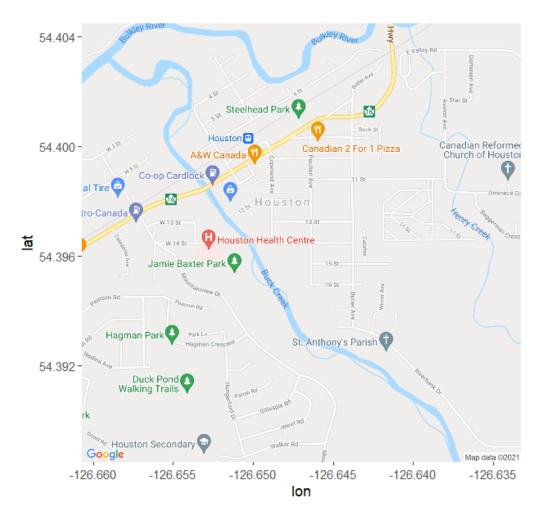


Hat	field vest
first aid kit personal	note book
Waders	Extra clothes
Boots	rain gear

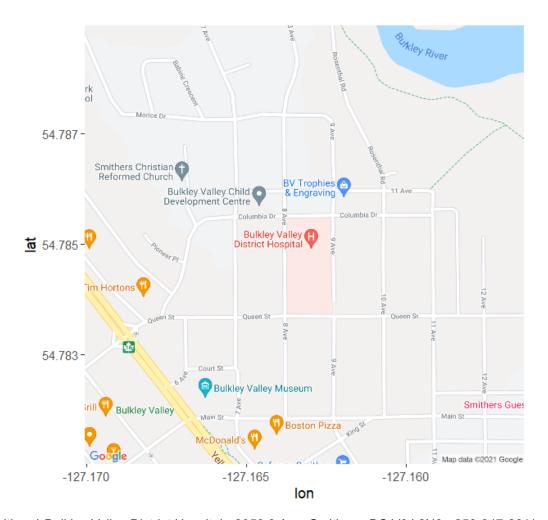
Crew Equipment Checklist	•
Hand saw	Measuring board
Linesman Gloves x 3	Scale
Backroads Mapbook	Permits
Locational maps	Fish ID book
Background Documents	Site Cards / Field Guide
radio road	Minnow Traps
Inreach	Catfood
Field Safety Plan	Flagging
first aid kit level 1	Laptop w/basecamp
First Aid binder stocked	GPS cable
Throw bags	Lazer level
polaski	Assessment cards fish passage
shovel	UAV
fire extinguisher backpack	Flow meter
fire extinguisher pressurized	ATV
Oakton Multimeter	bucket rigid x 2
Backpack Electrofisher	bucket foldable
stop nets x 4	clove oil kit w/ instructions
salt blocks	gloves leather
loose salt	sharpies
dip nets x 2	hand lens
tape measure hand	ATV gas
tape measure eslon	ATV lock
pilon x 2	UAV battery charger

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#### Nearest Hospitals



Houston Health Centre - 3202 14 St, Houston, BC V0J 1Z0 - 250-845-2294



(Smithers) Bulkley Valley District Hospital - 3950 8 Ave, Smithers, BC V0J 2N0 - 250-847-2611

#### Field Plan

Field work methods will result in products feeding reporting formats such as the <u>2020 deliverables</u> and will generally follow procedures in:

- fish passage assessments
- habitat confirmations

Presence/absence of fish, species composition/density and distribution limits can be useful for prioritizing which crossings are a best fit for fish passage restoration and help inform follow up

### new graph environment

Environmental Research & Consulting

monitoring so electrofishing and minnowtrapping may be conducted. Standard Fish and Fish Habitat Inventory Standard Field Form <u>site cards</u> are used to gather habitat data.

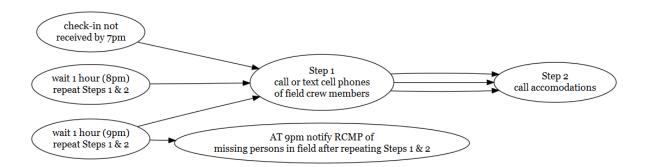
A summary of sites to be potentially assessed is included as Table  $\underline{1}$  and an overview map of displaying potential sample locations is included as Figure 1.

#### Check In Procedures

Call, text or inreach Tara Stark (2505059854) each morning to share the plan for the day (i.e. name of roads and sites). Check in time is before 7 pm each evening although we regularly check in throughout the day (ex. at arrival to site, 1pm and 4pm) on the inreach or by text and report position/provide updates.

#### Procedures for Failed Check-In - for Check in person

Procedures are summarized in the following Figure. If phone call or inReach check-in is not received by 7pm send text to inreach units, call or text cell phones of field crew members. If no response please call accommodations then personal emergency contacts to see if they have heard anything. Wait 1 hour and text inreach, text or call cell phones and personal emergency contacts and accomodations again. Repeat after 2 hours (9 pm) - if no response then notify the RCMP of a missing persons in field.



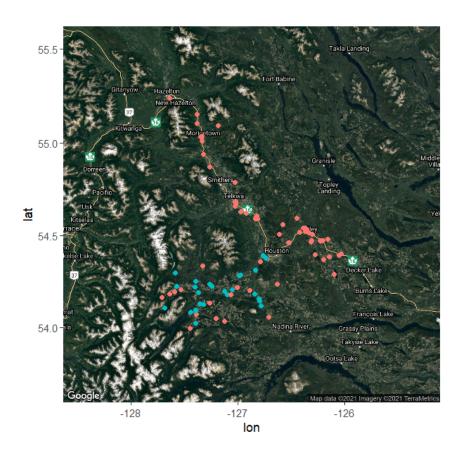


Figure 1. Map of potential sampling areas. High priority sites in red and moderate priority in green.

Table 1: Potential sample locations in the Bulkley River and Morice River watershed groups.

					waters	shed groups.		
id_xing	Stream	east	north	source	id_map	comments	sp_upstr	
3042	Barren Creek	654455.6	6042810	2020	093L.114	_	-	
3054	_	664883.5	6052690	2020	093L.114	-	{RB}	
3139	_	656650.7	6048543	2020	093L.114	-	-	
57944	Toboggan Creek	607729.0	6089383	cwf	093L.122	-	{CC,CH,CO,CT,DV,KO,L,LSU,MW,OS,PK,RB,SI	K,SST,ST}
58159	McDowell Creek	627642.5	6060449	2020	093L.118	-	{CO,RB}	
123445	Tyhee Creek	627236.1	6061461	2020	093L.118	-	{BB,C,CAS,CC,CH,CM,CO,CT,GPW,LSU,MW,N	ISC,PCC,PK,PW,RB,RDC,RS
123446	Tyhee Creek	627516.1	6061772	2020	093L.118	-	{BB,C,CAS,CC,CH,CM,CO,CT,GPW,LSU,MW,N	ISC,PCC,PK,PW,RB,RDC,RS
123770	John Brown Creek	606626.5	6097185	cwf	093M.102	-	{BT,CH,CT,DV,RB}	
123776	Corya Creek	606462.4	6100156	cwf	093M.102	-	{DV,RB}	
123794	_	616107.8	6106762	2020	093M.103	-	{DV}	
123795	_	615790.5	6106837	2020	093M.103	_	{SA}	
124420	Station Creek	586632.3	6122395	cwf	093M.106	-	{BT,CO,CT,DV,PK,RB,SP}	
124487	Porphyry Creek	603072.9	6113379	2020	093M.102	_	{DV,RB}	
124500	Helps Creek	627540.8	6058702	2020	093L.118	_	{CT,DV,LNC,LSU,RB}	
124501	_	630668.1	6055705	2020	093L.118	_	{DV,RB}	
124504	Coffin Creek	634329.8	6054584	2020	093L.118	_	{CSU,CT,DV,LSU,MW,RB,RSC}	
195288	Gibson Creek	640930.0	6051567	2020	093L.113	-	{CT,RB}	
195290	Gibson Creek	640022.2	6051682	2020	093L.113	-	{CT,RB}	
197360	Riddeck Creek	649932.4	5992396	2020	093L.104	-	{LSU,RB}	
197365	-	643620.5	6003246	morice	093L.103	Smaller channel width.	-	
197378	-	645084.9	5998822	morice	093L.104	Large wetland complex upstream.	{DV,LNC,MW,RB}	
197379	-	640960.8	6005930	morice		Less than 1km of potential habitat but very large channel width.	{CO,RB}	
197640	_	654312.0	6012383	2020	093L.109	_	{RB}	
197658	Byman Creek	666846.8	6044305	cwf	093L.114	-	{CO,CSU,LNC,LSU,RB,RSC,ST}	
197662	Richfield Creek	672404.3	6044146	cwf	093L.115	-	{CH,CO,LKC,LNC,LSU,RB,SST,ST}	
197663	Johnny David Creek	670240.6	6044772	cwf	093L.115	-	{RB}	
197664	Barren Creek	660454.7	6037919	2020	093L.114	-	{CH,CO,CT,L,RB,SST,ST}	

197665 -   60628.3 6037843 2020   693L114   -   (BR_BMC,BT,CAS,CBA,CC,CH,CO,CSU,CT,DVL,LKC,C)   197667 -   631092.4   6058687 2020   693L116   -   (CTDV/RB)   -   (CTDV/RB)   -   (CTDV/RB)   -   (CSU,CT,DVL,SU,MW,RB,RSC)   -   (1001800048   Cesford Creek   634342.6   6034605 2020   693L116   -   -   -   (ISM,CSU,LKC,LNC,LSU,NSC,RB,RSC)   -   (ISM,CSU,LKC,LNC,LSU,LW,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LW,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LW,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LW,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LW,MSR,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LKC,LSU,LW,MSR,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LKC,LSU,LW,MSR,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LKC,LSU,LW,MSR,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LKC,LSU,LW,MSR,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LKC,LSU,LW,MSR,NSC,PCC,RB,RSC)   -   (ISM,CSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LKC,LSU,LK								
197666 Coffin Creek 63434.2 0 6054605 2020 0931.118 - (CSU.CT.DV.ISU.MW.RB,RSC) 1001800040 Cestord Creek 674397.1 6043433 manual 0931.115 (BMC.CSU.LKC.LNC.LSU.NSC.RB,RSC) 1001800050 Bulkdey River 602434.6 6032331 cwf 0931.115 - (BMC.CSU.LKC.LNC.LSU.NSC.RB,RSC) 10018000555 Valson Creek 680842.6 6039756 cwf 0931.115 - (CO.CT.RB) 1001800355 Allport Creek 676525.4 6039640 cwf 0931.115 - (CO.CT.RB) 1001800422 Allport Creek 676525.4 6039640 cwf 0931.115 - (CO.CT.RB) 1001800422 Allport Creek 676525.4 6039640 cwf 0931.115 - (CO.CT.RB) 1001800422 Allport Creek 676525.4 6039640 cwf 0931.115 - (CO.CT.RB) 1001800422 Allport Creek 676525.4 6039640 cwf 0931.115 - (CO.CT.RB) 1001800422 Allport Creek 676525.4 6039640 cwf 0931.115 - (CO.CT.RB) 1001801122 Allport Creek 680832.0 6040045 cwf 0931.115 - (CO.CT.RB) 1001801123 - (674339.1 6039896 cwf 0931.115 - (BB.CBA.CC,CSU.LKC.LSU.LW.MW.NSB.NSC.PCC.RI 1001801133 - (74339.1 6039896 cwf 0931.115 - (BB.CBA.CC,CSU.LKC.LSU.LW.MW.NSB.NSC.PCC.RI 1001801173 Boulder Creek 683950.0 6041007 cwf 0931.115 - (BB.CBA.CC,CSU.LKC.LSU.LW.MW.NSB.NSC.PCC.RI 1001802088 Cwf 683947.0 8047217 cwf 0931.115 - (CT.RB) 1001802088 Cwf 68947.0 8047217 cwf 0931.115 - (CT.RB) 1001802088 Cwf 68947.0 8047217 cwf 0931.115 - (LSU.RB) 100180208 Cweek 640551.2 6053250 cwf 0931.115 - (LSU.RB) 1001802080 Cweek 640551.2 6053250 cwf 0931.116 - (C.CT.DV.RB) 1001802802 Deep Creek 640551.2 6053250 cwf 0931.118 - (C.CT.DV.RB) 1001802802 Deep Creek 640527.1 6059029 cwf 0931.118 - (C.CT.DV.RB) 1001802802 Bulkley River 611213.3 6031478 cwf 0931.110 - (BMC.CAS.CO.CSU.LKC.LNC.LSU.NSC.RB.RSC) 1001805525 Bulkley River 611213.3 6031478 cwf 0931.110 - (BMC.CAS.CO.CSU.LKC.LNC.LSU.NSC.RB.RSC) 1001805525 Bulkley River 611213.3 6031478 cwf 0931.110 - (BMC.CAS.CO.CSU.LKC.LNC.LSU.NSC.RB.RSC) 1001805525 Bulkley River 611213.3 6031478 cwf 0931.110 - (CAS.CO.LNC.PL.RB.RSC) 1001805552 Crow Creek 665314.1 6030317 cwf 0931.110 - (CAS.CO.LNC.PL.RB.RSC) 1001805553 Glass Creek 616953.8 6072898 cwf 0931.110 - (CAS.CO.LNC.PL.RB.RSC) 1001805553 Gla	,CAS,CBA,CC,CH,CO,CSU,CT,DV,L,LKC,LNC,LSU,LT,LW,MW,N		14 -	020 093L.11	6037843 202	660628.3	65 <b>–</b>	197665
1001800049   Cesford Creek   674397.1   6043433   manual   6931.115   -			18 -	020 093L.11	6055867 202	631092.4	57 –	197667
1001800056 Bulkey River   692434.6 6032331 owf   0931.115   -	,LSU,MW,RB,RSC}		18 -	020 093L.11	6054605 202	634342.0	88 Coffin Creek	197668
1001800050   Bulley River   692434   6 603231   cwf   0 93L.115			15 -	anual 093L.11	6043433 mai	674397.1	8 Cesford Creek	1001800048
1001800355 Aliport Creek   680841.8   6039756   cwf   093L115   CCO.CT.RB   CCO.CT.RB   CCO.RE   CCO.RE   CCO.RE   CCO.RE   CCO.RE   CCO.RE   CCO.RE   CCO.RE   CCO.RE   CCO.CT.RB   CCO.CT.RD   CCO	KC,LNC,LSU,NSC,RB,RSC}		15 -	wf 093L.11	6032331 cwf	692434.6	0 Bulkley River	1001800050
100180396   Watson Creek   680383.2   6040056 manual   093L.115   (CO,RB)     1001800422   Aliport Creek   679525.4   6039649 cwf   093L.115   (CO,CT,RB)     1001801122   Aliport Creek   679525.4   6039649 cwf   093L.115   (BB,CSULSU,LW,NSC,PCC,RB,RSC)     1001801122   Aliport Creek   680832.0   6040045 cwf   093L.115   (BB,CBA,CC,CSU,LKC,LSU,LW,MW,NSB,NSC,PCC,RI   1001801173   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773   0014901773	KC,LNC,LSU,NSC,RB,RSC}		15 -	wf 093L.11	6032331 cwf	692434.6	0 Bulkley River	1001800050
1001802422   Aliport Creek   679525.4   6039649 cwf   093L.115   -   (CO.CT.RB)     1001800725 -   676767.0   6031209 cwf   093L.110   -   (BB.CSU.LSU.LW.NSC.PCC.RB.RSC)     1001801122   Aliport Creek   680832.0   6040045 cwf   093L.115   -   (CO.CT.RB)     1001801133 -   674399.1   6039596 cwf   093L.115   -   (BB.CBA.CC,CSU.LKC,LSU,LW.MW,NSB.NSC,PCC.RI     100180173   Boulder Creek   603432.1   6107844 cwf   093M.102   -   (BT.DV)     1001801793   Boulder Creek   683959.0   6041007 cwf   093L.115   -   (BB.CBA.CC,CSU.LKC,LSU,LW.MW,NSB.NSC,PCC.RI     1001802044   Aliport Creek   683959.0   6041007 cwf   093L.115   -   (CT.RB)     1001802080   Robert Hatch   669947.0   6047217 cwf   093L.115   -   (LSU.RB)     1001802080   Creek   688973.0   6046967 cwf   093L.115   -   (LSU.RB)     1001802106   Robert Hatch   670963.0   6046221 cwf   093L.115   -   (LSU.RB)     1001802760   Deep Creek   640551.2   6053250 cwf   093L.118   -   (C.CT.DV.RB)     100180280   Deep Creek   640327.1   6053029 cwf   093L.118   -   (C.CT.DV.RB)     1001803682   Crow Creek   682026.1   6028531 cwf   093L.110   -   (RB)     100180529   Bulkley River   691218.3   6031478 cwf   093L.110   -   (BMC.CAS.CO.CSU.LKC,LNC,LSU.NSC,RB.RSC)     1001805529   Bulkley River   691218.3   6031478 cwf   093L.110   -   (BMC.CAS.CO.CSU.LKC,LNC,LSU.NSC,RB.RSC)     1001805553   Glass Creek   685314.1   6030317 cwf   093L.110   -   (CAS.CO.LNC,PL.RB,RSC)     1001805555   Glass Creek   61695.8   6082109 cwf   093L.122   -   (CC.CO.CT.DV.KO,LSU.MW,OS.RB.SK.ST)     1014000009   -   646923.3   6028170 morice   093L.109   upstream.Meybe very   (RB)   modified.			15 -	wf 093L.11	6039756 cwf	680644.8	55 Ailport Creek	1001800355
1001800752 -			15 -	anual 093L.11	6040056 mai	680383.2	66 Watson Creek	1001800356
1001801122 Allport Creek   680832.0 6040045 cwf   093L.115			15 -	wf 093L.11	6039649 cwf	679525.4	22 Ailport Creek	1001800422
1001801133	J,LW,NSC,PCC,RB,RSC}		10 -	wf 093L.11	6031209 cwf	676767.0	52 –	1001800752
1001801773   1001801773   1001801773   1001801773   1001801773   1001801773   1001801773   1001801773   1001801773   1001801804   1001802084   1001802084   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802086   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   1001802760   100			15 -	wf 093L.11	6040045 cwf	680832.0	22 Ailport Creek	1001801122
1001801969   -	,CSU,LKC,LSU,LW,MW,NSB,NSC,PCC,RB,RSC}		15 -	wf 093L.11	6039595 cwf	674339.1	33 –	1001801133
1001802044 Ailport Creek 683959.0 6041007 cwf 093L.115 - {CT.RB}  Robert Hatch Creek 669947.0 6047217 cwf 093L.115 - {LSU.RB}  1001802089			102 -	wf 093M.1	6107844 cwf	603432.1	'3 Boulder Creek	1001801773
Robert Hatch   Greek   G69947.0   G047217   cwf   O93L.115   -   (LSU,RB)	,CSU,LKC,LSU,LW,MW,NSB,NSC,PCC,RB,RSC}		15 -	wf 093L.11	6038906 cwf	673797.1	69 –	1001801969
1001802088   Creek   669947.0   6047217 cwf   093L.115   -   {LSU,RB}     1001802089   Screek   668873.0   6046967 cwf   093L.115   -   {RB}     1001802106   Creek   670963.0   6046221 cwf   093L.115   -   {LSU,RB}     1001802760   Deep Creek   640551.2   6053250 cwf   093L.118   -   {C,C,T,DV,RB}     1001802820   Deep Creek   640327.1   6053029 cwf   093L.118   -   {C,C,T,DV,PK,RB,SA,SK,ST}     1001803682   Crow Creek   682026.1   6028531 cwf   093L.110   -   {CAS,LNC,RB,RSC}     1001804694   -   688604.0   6019911 cwf   093L.110   -   {RB}     1001805529   Bulkley River   691218.3   6031478 cwf   093L.110   -   {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}     1001805529   Bulkley River   691218.3   6031478 cwf   093L.110   -   {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}     1001805532   Crow Creek   685314.1   6030317 cwf   093L.110   -   {CAS,CO,LNC,PL,RB,RSC}     1001805553   Glass Creek   611695.8   6082109 cwf   093L.112   -   {CCAS,CO,LNC,PL,RB,RSC}     1001805665   Canyon Creek   627078.8   6072988 cwf   093L.110   -   {CO,DV,RB,TR}     1014000009   -   646923.3   6028170 morice   093L.109   modified.			15 -	wf 093L.11	6041007 cwf	683959.0	4 Ailport Creek	1001802044
1001802099   Creek   668873.0   6046967 cwf   093L.115   -     RB			15 -	wf 093L.11	6047217 cwf	669947.0	88	1001802088
1001802106         670963.0         6046221         cwf         093L.115         —         {LSU,RB}           1001802760         Deep Creek         640551.2         6053250         cwf         093L.118         —         {C,CT,DV,RB}           1001802820         Deep Creek         640327.1         6053029         cwf         093L.118         —         {C,CH,CM,CO,CT,DV,PK,RB,SA,SK,ST}           1001803682         Crow Creek         682026.1         6028531         cwf         093L.110         —         {CAS,LNC,RB,RSC}           1001804694         —         688604.0         6019911         cwf         093L.110         —         {RB}           1001805529         Bulkley River         691218.3         6031478         cwf         093L.110         —         {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}           1001805529         Bulkley River         691218.3         6031478         cwf         093L.110         —         {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}           1001805532         Crow Creek         685314.1         6030317         cwf         093L.110         —         {CAS,CO,LNC,PL,RB,RSC}           1001805553         Glass Creek         611695.8         6082109         cwf         093L.112         —         {CCC,CO,CT,DV,KO,LSU,MW,OS,			₁15 -	wf 093L.11	6046967 cwf	668873.0	39	1001802089
1001802820         Deep Creek         640327.1         6053029         cwf         093L.118         -         {C,CH,CM,CO,CT,DV,PK,RB,SA,SK,ST}           1001803682         Crow Creek         682026.1         6028531         cwf         093L.110         -         {CAS,LNC,RB,RSC}           1001804694         -         688604.0         6019911         cwf         093L.110         -         {RB}           1001805529         Bulkley River         691218.3         6031478         cwf         093L.110         -         {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}           1001805529         Bulkley River         691218.3         6031478         cwf         093L.110         -         {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}           1001805532         Crow Creek         685314.1         6030317         cwf         093L.110         -         {CAS,CO,LNC,PL,RB,RSC}           1001805553         Glass Creek         611695.8         6082109         cwf         093L.118         -         {CC,CO,CT,DV,KO,LSU,MW,OS,RB,SK,ST}           1014000009         -         646923.3         6028170         morice         093L.110         upstream. Maybe very modified.         {RB}           1014000255         Nado Creek         613441.0         5999564         morice <td< td=""><td></td><td></td><td>15 -</td><td>wf 093L.11</td><td>6046221 cwf</td><td>670963.0</td><td>06</td><td>1001802106</td></td<>			15 -	wf 093L.11	6046221 cwf	670963.0	06	1001802106
1001803682 Crow Creek 682026.1 6028531 cwf 093L.110 - {CAS,LNC,RB,RSC}  1001804694 - 688604.0 6019911 cwf 093L.110 - {RB}  1001805529 Bulkley River 691218.3 6031478 cwf 093L.110 - {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}  1001805529 Bulkley River 691218.3 6031478 cwf 093L.110 - {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}  1001805529 Crow Creek 685314.1 6030317 cwf 093L.110 - {CAS,CO,LNC,PL,RB,RSC}  1001805532 Crow Creek 685314.1 6030317 cwf 093L.110 - {CAS,CO,LNC,PL,RB,RSC}  1001805553 Glass Creek 611695.8 6082109 cwf 093L.122 - {CC,CO,CT,DV,KO,LSU,MW,OS,RB,SK,ST}  1001805665 Canyon Creek 627078.8 6072988 cwf 093L.118 - {CO,DV,RB,TR}  1014000009 - 646923.3 6028170 morice 093L.109 upstream. Maybe very modified.	}		18 -	wf 093L.11	6053250 cwf	640551.2	0 Deep Creek	1001802760
1001804694 –       688604.0 6019911 cwf       093L.110 –       {RB}         1001805529 Bulkley River       691218.3 6031478 cwf       093L.110 –       {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}         1001805529 Bulkley River       691218.3 6031478 cwf       093L.110 –       {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}         1001805532 Crow Creek       685314.1 6030317 cwf       093L.110 –       {CAS,CO,LNC,PL,RB,RSC}         1001805553 Glass Creek       611695.8 6082109 cwf       093L.122 –       {CC,CO,CT,DV,KO,LSU,MW,OS,RB,SK,ST}         1001805665 Canyon Creek       627078.8 6072988 cwf       093L.118 –       {CO,DV,RB,TR}         1014000009 –       646923.3 6028170 morice       093L.109 upstream. Maybe very modified.       {RB}         1014000255 Nado Creek       613441.0 5999564 morice       093L.102 CBR - 2.2m culvert.       —	O,CT,DV,PK,RB,SA,SK,ST}		18 -	wf 093L.11	6053029 cwf	640327.1	20 Deep Creek	1001802820
1001805529 Bulkley River       691218.3 6031478 cwf       093L.110 –       {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}         1001805529 Bulkley River       691218.3 6031478 cwf       093L.110 –       {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}         1001805532 Crow Creek       685314.1 6030317 cwf       093L.110 –       {CAS,CO,LNC,PL,RB,RSC}         1001805553 Glass Creek       611695.8 6082109 cwf       093L.122 –       {CC,CO,CT,DV,KO,LSU,MW,OS,RB,SK,ST}         1001805665 Canyon Creek       627078.8 6072988 cwf       093L.118 –       {CO,DV,RB,TR}         1014000009 –       646923.3 6028170 morice       093L.109 upstream. Maybe very modified.       {RB}         1014000255 Nado Creek       613441.0 5999564 morice       093L.102 CBR - 2.2m culvert.       —	B,RSC}		10 -	wf 093L.11	6028531 cwf	682026.1	32 Crow Creek	1001803682
1001805529 Bulkley River       691218.3 6031478 cwf       093L.110 –       {BMC,CAS,CO,CSU,LKC,LNC,LSU,NSC,RB,RSC}         1001805532 Crow Creek       685314.1 6030317 cwf       093L.110 –       {CAS,CO,LNC,PL,RB,RSC}         1001805553 Glass Creek       611695.8 6082109 cwf       093L.122 –       {CC,CO,CT,DV,KO,LSU,MW,OS,RB,SK,ST}         1001805665 Canyon Creek       627078.8 6072988 cwf       093L.118 –       {CO,DV,RB,TR}         1014000009 –       646923.3 6028170 morice       093L.109 upstream. Maybe very modified.       {RB}         1014000255 Nado Creek       613441.0 5999564 morice       093L.102 CBR - 2.2m culvert.       —			10 -	wf 093L.11	6019911 cwf	688604.0	94 –	1001804694
1001805532 Crow Creek       685314.1 6030317 cwf       093L.110 –       {CAS,CO,LNC,PL,RB,RSC}         1001805553 Glass Creek       611695.8 6082109 cwf       093L.122 –       {CC,CO,CT,DV,KO,LSU,MW,OS,RB,SK,ST}         1001805665 Canyon Creek       627078.8 6072988 cwf       093L.118 –       {CO,DV,RB,TR}         1014000009 –       646923.3 6028170 morice       093L.109 upstream. Maybe very modified.       {RB}         1014000255 Nado Creek       613441.0 5999564 morice       093L.102 CBR - 2.2m culvert.       —	:O,CSU,LKC,LNC,LSU,NSC,RB,RSC}		10 -	wf 093L.11	6031478 cwf	691218.3	9 Bulkley River	1001805529
1001805553       Glass Creek       611695.8       6082109       cwf       093L.122       —       {CC,CO,CT,DV,KO,LSU,MW,OS,RB,SK,ST}         1001805665       Canyon Creek       627078.8       6072988       cwf       093L.118       —       {CO,DV,RB,TR}         1014000009       —       646923.3       6028170       morice       093L.109       upstream. Maybe very modified.       {RB}         1014000255       Nado Creek       613441.0       5999564       morice       093L.102       CBR - 2.2m culvert.       —	O,CSU,LKC,LNC,LSU,NSC,RB,RSC}		10 -	wf 093L.11	6031478 cwf	691218.3	9 Bulkley River	1001805529
1001805665 Canyon Creek 627078.8 6072988 cwf 093L.118 - {CO,DV,RB,TR}  1014000009 - 646923.3 6028170 morice 093L.109 upstream. Maybe very modified.  1014000255 Nado Creek 613441.0 5999564 morice 093L.102 CBR - 2.2m culvert	C,PL,RB,RSC}		10 -	wf 093L.11	6030317 cwf	685314.1	32 Crow Creek	1001805532
1014000009 – 646923.3 6028170 morice 093L.109 upstream. Maybe very modified.  1014000255 Nado Creek 613441.0 5999564 morice 093L.102 CBR - 2.2m culvert. –	OV,KO,LSU,MW,OS,RB,SK,ST}		22 -	wf 093L.12	6082109 cwf	611695.8	3 Glass Creek	1001805553
1014000009 - 646923.3 6028170 morice 093L.109 upstream. Maybe very modified.  1014000255 Nado Creek 613441.0 5999564 morice 093L.102 CBR - 2.2m culvert	·R}		18 -	wf 093L.11	6072988 cwf	627078.8	5 Canyon Creek	1001805665
		ı. Maybe very	109 ι	orice 093L.10	6028170 moi	646923.3	09 —	1014000009
1014000271 – 644993.9 6029521 morice 093L.109 Just below Klinger Lake.		2m culvert.	02 (	orice 093L.10	5999564 moi	613441.0	55 Nado Creek	1014000255
		w Klinger Lake.	09 .	orice 093L.10	6029521 mor	644993.9	'1 <b>–</b>	1014000271

1014000798 Peacock Creek   643460.3   6025890   morice   093L.109   Fish way noted as having issues in Smith 2018.   -								
1014000312	Good for coho?	{EB,RB}						
1014000379 - 604834.9 6012766 morice 093L.107 Coho in mainstem Thautil nearby Stream splits to two tribs just upstream.   Low gradient with wetlands upstream and CO,CT and others downstream.   Channel width 1.5 m downstream at FISS site.   1014000569 - 608574.3 6022389 morice 093L.107   Steahhead and bulltrout nearby - FISS site.   1014000569 - 631242.7 6016700 morice 093L.108   Steahhead and bulltrout nearby - FISS site.   1014000569 - 631242.7 6016700 morice 093L.108   Lots of low gradient habitat but split into many tribs.   1014000571 - 631704.2 6017415 morice 093L.108   Lots of low gradient habitat but split into many tribs.   1014000674 - 622270.8 6007312 morice 093L.108   Coho downstream.   - 1014000683 - 627065.0 6008380 morice 093L.108   Top end of lake.   - 1014000777 - 605157.0 5994783 morice 093L.108   Models as over 2m wide and has fish obs upstream.   1014000788 - 604940.0 5995120 morice 093L.102   Steeper system.   - 1014000798   Peacock Creek 643460.3 6025890 morice 093L.105   Fish way noted as having issues in 5 mith 2018.   1014000981 - 604357.3 6009291 morice 093L.107   Steelhead and coho points just downstream.   - 584302.5 6002385 morice 093L.107   Cood sized lake upstream.   - 1014000981 - 604357.3 6009291 morice 093L.107   Cood sized lake upstream.   - 1014000991 - 584302.5 6002385 morice 093L.107   Cood sized lake upstream.   - 1014000991 - 604357.3 6009291 morice 093L.107   Cood sized lake upstream.   - 1014000991 - 604357.3 6009291 morice 093L.107   Cood sized lake upstream.   - 1014000991 - 1014000991 - 1014000991   Cood sized lake upstream.   - 1014000991	1014000312	_	602253.5	5994059	morice	093L.102	for upstream migrating juvenile	{DV}
1014000507   593237.3   6009679   morice   093L.107   upstream and CO,CT and others downstream.	1014000379	-	604834.9	6012766	morice	093L.107	crossing but no FISS sample sites.  Coho in mainstem Thautil nearby.  Stream splits to two tribs just	-
1014000509 - 609917.9 5998826 morice 093L.102 at FISS site.   -	1014000507	-	593237.3	6009679	morice	093L.107	upstream and CO,CT and others	-
1014000569 -   631242.7 6016700 morice   093L.108   FISS site downstream does not mention intermittent as is FWA tag.   -	1014000509	_	609917.9	5998826	morice	093L.102		-
1014000569 - 631242.7 6016700 morice 093L.108 mention intermittent as is FWA tag.   -	1014000565	_	608574.3	6022389	morice	093L.107	Stealhead and bulltrout nearby	_
1014000571 -   631704.2 6017415 morice   093L.108 into many tribs.   [DV,RB]     1014000674 -   622270.8 6007312 morice   093L.103   Coho downstream.   -     1014000683 -   627065.0 6008380 morice   093L.108   Top end of lake.   -     1014000718 -   643882.0 6002088 morice   093L.104   Models as over 2m wide and has fish obs upstream.       1014000777 -   605157.0 5994783 morice   093L.102   Two small tribs upstream.   -     1014000788 -   604940.0 5995120 morice   093L.102   Steeper system.   -     1014000796   Fenton Creek   637544.0   6008011 morice   093L.108   Major culvert (5m wide).   (CC,CO,DV,RB,SI   1014000798   Peacock Creek   643460.3   6025890 morice   093L.109   Smith 2018.       1014000908 -   604357.3   6009291 morice   093L.108   Quite steep.   -     1014000912 -   584302.5   6002385   morice   093L.101   Good sized lake upstream. Road not visible in aerial imagery. Follow up with foresters before headingout in field.   (CT,DV)	1014000569	_	631242.7	6016700	morice	093L.108		-
1014000683 - 627065.0 6008380 morice 093L.108 Top end of lake  1014000718 - 643882.0 6002088 morice 093L.104 fish obs upstream. {DV,RB}  1014000777 - 605157.0 5994783 morice 093L.102 Two small tribs upstream  1014000788 - 604940.0 5995120 morice 093L.102 Steeper system  1014000796 Fenton Creek 637544.0 6008011 morice 093L.108 Major culvert (5m wide). {CC,CO,DV,RB,Si Smith 2018.}  1014000798 Peacock Creek 643460.3 6025890 morice 093L.109 Fish way noted as having issues in Smith 2018.  1014000908 - 604357.3 6009291 morice 093L.107 Steelhead and coho points just downstream.  1014000912 - 584302.5 6002385 morice 093L.101 Good sized lake upstream. Road not visible in aerial imagery. Follow up with foresters before headingout in field.  1014000931 - 601878.2 5984146 morice 093E.122 Very close to Naninka. {CT,DV}	1014000571	-	631704.2	6017415	morice	093L.108	-	{DV,RB}
Models as over 2m wide and has fish obs upstream.   DV,RB	1014000674	_	622270.8	6007312	morice	093L.103	Coho downstream.	_
1014000718 - 643882.0 6002088 morice 093L.104 fish obs upstream. {DV,RB}     1014000777 - 605157.0 5994783 morice 093L.102 Two small tribs upstream     1014000788 - 604940.0 5995120 morice 093L.102 Steeper system     1014000796 Fenton Creek 637544.0 6008011 morice 093L.108 Major culvert (5m wide). {CC,CO,DV,RB,SI     1014000798 Peacock Creek 643460.3 6025890 morice 093L.109	1014000683	_	627065.0	6008380	morice	093L.108	Top end of lake.	_
1014000788 - 604940.0 5995120 morice 093L.102 Steeper system  1014000796 Fenton Creek 637544.0 6008011 morice 093L.108 Major culvert (5m wide). {CC,CO,DV,RB,SI 1014000798 Peacock Creek 643460.3 6025890 morice 093L.109 Fish way noted as having issues in 5mith 2018.  1014000801 - 640778.1 6020795 morice 093L.108 Quite steep  1014000908 - 604357.3 6009291 morice 093L.107 Steelhead and coho points just 4downstream.  1014000912 - 584302.5 6002385 morice 093L.101 Good sized lake upstream. Road not visible in aerial imagery. Follow 4up with foresters before headingout in field.  1014000931 - 601878.2 5984146 morice 093E.122 Very close to Naninka. {CT,DV}	1014000718	-	643882.0	6002088	morice	093L.104		{DV,RB}
1014000796 Fenton Creek 637544.0 6008011 morice 093L.108 Major culvert (5m wide). {CC,CO,DV,RB,Si 1014000798 Peacock Creek 643460.3 6025890 morice 093L.109 Fish way noted as having issues in 5mith 2018.  1014000801 - 640778.1 6020795 morice 093L.108 Quite steep  1014000908 - 604357.3 6009291 morice 093L.107 Steelhead and coho points just downstream.  Good sized lake upstream. Road not visible in aerial imagery. Follow up with foresters before headingout in field.  1014000931 - 601878.2 5984146 morice 093E.122 Very close to Naninka. {CT,DV}	1014000777	-	605157.0	5994783	morice	093L.102	Two small tribs upstream.	_
1014000798 Peacock Creek   643460.3   6025890   morice   093L.109   Fish way noted as having issues in Smith 2018.   -	1014000788	_	604940.0	5995120	morice	093L.102	Steeper system.	_
1014000798 Peacock Creek 643460.3 6025890 morice 093L.109 Smith 2018.  1014000801 - 640778.1 6020795 morice 093L.108 Quite steep  1014000908 - 604357.3 6009291 morice 093L.107 Steelhead and coho points just downstream.  Good sized lake upstream. Road not visible in aerial imagery. Follow up with foresters before headingout in field.  1014000931 - 601878.2 5984146 morice 093E.122 Very close to Naninka. {CT,DV}	1014000796	Fenton Creek	637544.0	6008011	morice	093L.108	Major culvert (5m wide).	{CC,CO,DV,RB,SP}
Steelhead and coho points just downstream.   Steelhead and coho	1014000798	Peacock Creek	643460.3	6025890	morice	093L.109	-	-
1014000908 - 604357.3 6009291 morice 093L.107 downstream.  Good sized lake upstream. Road not visible in aerial imagery. Follow up with foresters before headingout in field.  1014000931 - 601878.2 5984146 morice 093E.122 Very close to Naninka. {CT,DV}	1014000801	_	640778.1	6020795	morice	093L.108	Quite steep.	_
1014000912 - 584302.5 6002385 morice 093L.101 not visible in aerial imagery. Follow up with foresters before headingout in field.  1014000931 - 601878.2 5984146 morice 093E.122 Very close to Naninka. {CT,DV}	1014000908	_	604357.3	6009291	morice	093L.107		-
	1014000912	-	584302.5	6002385	morice	093L.101	not visible in aerial imagery. Follow up with foresters before headingout	{DV,RB}
1014000001 623023 0 6005104 morino 0021 402 Stepper streets	1014000931	_	601878.2	5984146	morice	093E.122	Very close to Naninka.	{CT,DV}
1014000991 – 623923.0 6005104 morice 093L.103 Steeper stream. –	1014000991	_	623923.0	6005104	morice	093L.103	Steeper stream.	-

1014001002 –	606615.0 6006104 morice	093L.102	Smaller stream with coho upstream of crossing.	{CO}
1014001029 –	626238.6 6005131 morice	093L.103	Very close to Morice mainstem.	{CT,RB}
1014001080 –	605331.0 5986992 morice	093L.102	Smaller potential high value habitat gain but Nanika in Nanika system so in high value watershed.	{CT}
McBride 1014001161 Creek	605511.0 5992667 morice	093L.102	CBR indicates "major culvert" at 4.5m width.	{BB,CAS,CO,CSU,CT,DV,LDC,LSU,LT,LW,MW,F
1014001195 –	607542.6 5999130 morice	093L.102	Low gradient and close to mainstem but low elevation watershed.	-
1014001198 –	585968.3 5996331 morice	093L.101	Models as a bit larger of a channel with 0.75km <5% and DV upstream.	{DV}
Lamprey 1014001222 Creek	617661.2 5990287 morice	093L.102	Large lake headed system.	{CT,DV,LKC,RB,RB/CT}
1014001245 —	588941.5 6004786 morice	093L.101	Coho, steelhead and other species upstream.	{CO,CT,DV,LKC,SP}
1014001247 –	591802.9 6006187 morice	093L.102	Multiple species (including CO) noted upstream with lots of modelled habitat.	{CO,CT,DV,LKC}
1014001427 –	613053.0 6011398 morice	093L.107	Potentially fish bearing according to <a href="http://a100.gov">http://a100.gov</a> <a href="http://a10u.gov">.bc.ca/pub/acat/public</a> /viewReport.do? <a href="http://areportld=50411">reportld=50411</a> .	_
1014001534 –	592004.9 6017653 morice	093L.107	Channel models as small. Flows into lake.	-
014001542 –	595641.5 6007685 morice	093L.107	Many fish points upstream and downstream. Low grades.	{CT,DV}
1014001563 —	630001.2 6009752 morice	093L.108	Lots of low gradient and lake upsteam.	{CCT,CT,LKC}
1014001769 —	614711.5 6009971 morice	093L.107	Appears of highest value for rearing.	{CT}
1024704566 Corya Creek	605785.6 6099884 cwf	093M.102	-	{DV,RB}



1024740003 - 622870.2 5988875 morice 093L.103 Lots of lake upstream. {CAL,LKC,RB,RSC}