

3363/WP T-1390

**Reconnaissance (1:20,000)
Fish and Fish Habitat Inventory
of Selected Tributaries
to the Morice River and the
Bulkley River Watersheds**

**WSC 460 to WSC 460-600600
(Morice North Planning Area)**

Volume 4 of 5

Prepared for:

Canadian Forest Products Ltd.
PO Box 158; 1397 Morice River Road
Houston, BC
V0J 1Z0

Prepared by:

TRITON
ENVIRONMENTAL CONSULTANTS LTD.

#300 – 4546 Park Avenue
Terrace, BC Canada V8G 1V4
Phone: (250) 635-1494
Fax: (250) 635-1495
www.triton-env.com



APPENDIX I

Reach Cards/Site Cards/Fish Collection Forms and Photographs (Sites 453 to 565)

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.013	3742

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.013 ILP # 3742 Site 453

PROJECT																																																																														
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																																																																				
Stream Name (gaz.): BULKLEY RIVER																																																																														
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name:																																																																				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
ILP Map#: 093L.013			ILP #: 3742		NID Map #: 093L.013			NID #: 95453		Reach #: 1.0		Site #: 453																																																																		
Field UTM (Z.E.N): 9.600806.5997440					Method: GPU			Site Lg: 150		Method: MAP		Access: H																																																																		
GIS UTM (Z.E.N): 9.600730.5997448								Ref. Name:																																																																						
Date: 2002/10/01			Time: 13:30		Agency: C172			Crew: JH/JD		Fish Crd?: ☒		Incomplete: ☐																																																																		
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>3.00</td> <td>3.00</td> <td>2.50</td> <td>2.40</td> <td>2.60</td> <td>2.70</td> <td></td> <td></td> <td></td> <td></td> <td>2.70</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>1.20</td> <td>1.30</td> <td>1.40</td> <td>1.40</td> <td>1.60</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td>1.32</td> </tr> <tr> <td>Pool Depth (m):</td> <td>T</td> <td>0.10</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.10</td> <td>0.10</td> <td></td> <td></td> <td></td> <td></td> <td>0.15</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	T	3.00	3.00	2.50	2.40	2.60	2.70					2.70	Wetted Width (m):	T	1.20	1.30	1.40	1.40	1.60	1.00					1.32	Pool Depth (m):	T	0.10	0.20	0.20	0.20	0.10	0.10					0.15	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>5.0</td> <td>6.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>6.0</td> <td></td> <td>C</td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	5.0	6.0	C	Method II:	6.0		C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	T	3.00	3.00	2.50	2.40	2.60	2.70					2.70																																																																		
Wetted Width (m):	T	1.20	1.30	1.40	1.40	1.60	1.00					1.32																																																																		
Pool Depth (m):	T	0.10	0.20	0.20	0.20	0.10	0.10					0.15																																																																		
	Gadient %	Mtd	Avg																																																																											
Method I:	5.0	6.0	C																																																																											
Method II:	6.0		C																																																																											
Wb Depth:		.5	.6	.8	Avg: 0.63			Method: T		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐																																																																		
												Dw: ☐ Tribs.: ☐																																																																		
COVER Total: A																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>S</td> <td>S</td> <td>T</td> <td>T</td> <td>N</td> <td>D</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	S	S	T	T	N	D	N	Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐	CROWN CLOSURE 1 1-20%																																														
Type:	SWD	LWD	B	U	DP	OV	IV																																																																							
Amount:	S	S	T	T	N	D	N																																																																							
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐																																																																							
LWD: N DIST: NA								INSTREAM VEG: N ☒ A ☐ M ☐ V ☐																																																																						
LB SHP: U								RB SHP: U																																																																						
Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐								Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐																																																																						
RIP: M								RIP: M																																																																						
STG: MF								STG: MF																																																																						
WATER																																																																														
EMS:					Method: T4					Req #:																																																																				
Temp: 5					Method: P2					Cond.: 50																																																																				
pH: 6.9					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☒																																																																				
Flood Signs: Rafted debris										Method: S3																																																																				
										Method: GE																																																																				
MORPHOLOGY																																																																														
Bed Material:					Dominant: C					Subdom: G																																																																				
D95: 60.0					D (cm): 25.00					Morph: RP																																																																				
Pattern: SI					DISTURBANCE INDICATORS					O1 B1 B2 B3 D1 D2 D3																																																																				
Islands: N										☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																				
Coupling: PC										C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																				
Confinement: OC										☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																				
FSZ: ☐										Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																				
HABITAT QUALITY																																																																														
Name					Comments																																																																									
OverWinter Habitat					None observed.																																																																									
Rearing Habitat					Limited by shallow depths.																																																																									
Spawning Habitat					Limited by coarse substrates, shallow pool and stream depths.																																																																									
PHOTOS																																																																														
Photo		Foc Lg		Dir		Comments																																																																								
R:	65	F:	23	STD		U		Upstream site photo.																																																																						
R:	65	F:	24	STD		D		Downstream site photo.																																																																						

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.013	3742	453

COMMENTS	
Section	Comments
CHANNEL	Accessible from Morice Lake. Limited Rearing. Active shallow stream.
CHANNEL	NFC

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 1.0 ILP Map # 093L.013 ILP # 3742

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.013				ILP #: 3742		Reach #: 1 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/10/01			To: 2002/10/01			Agency: C172		Crew: JH/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
453	093L.013	95453				GPU EF 1	5	50	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
453	EF	1	2002/10/01	13:30	2002/10/01	14:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
453	EF	1	1	O	670	150.0	3.0	800	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
453	EF	1	1	NFC		0							



Site #453, Upstream site photo.
Roll #65, Frame #23, Date: 2002/10/01



Site #453, Downstream site photo.
Roll #65, Frame #24, Date: 2002/10/01

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

3.0 093L.013 3742

STREAM REFERENCING																																												
Gazetted Name:					Local Name:																																							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.013		ILP #: 3742																																					
REACH																																												
Reach #: 3.0		UTM(Zone/East/North): 9.599717.5999404				Sample Type: Biased																																						
Length (km): .81		Coupling: Partially Couple		Magnitude: 2		BGC Zone: ESSF																																						
Gradient (%): 9.6		Confinement: Frequently Confin		Order: 2		Open water: Absent																																						
US Elev (m): 1065		Islands: NONE		Riparian Vegetation: Mixed C/D																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 454		Field UTM 9.600035.5999121		Agency: C172		Crew: JH/JD		Date: 2002/10/01																																				
Site Length (m): 110		GIS UTM 9.600058.5999105		Agency Name: Triton Environmental Consultants (Terrace)																																								
CHANNEL																																												
No Vis.Ch.: ☐ Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>4.78</td> <td>3.6</td> <td>6.1</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>1.33</td> <td>1</td> <td>1.8</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.37</td> <td>0.3</td> <td>0.4</td> <td>3</td> </tr> </tbody> </table>					Avg	Min	Max	#	Channel Width (m):	4.78	3.6	6.1	6	Wetted Width (m):	1.33	1	1.8	6	Bankfull Depth (m):	0.37	0.3	0.4	3	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Gradient %:</td> <td>8.50</td> <td>8</td> <td>9</td> <td>2</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.43</td> <td>0.300</td> <td>0.600</td> <td>6</td> </tr> </tbody> </table>					Avg	Min	Max	#	Gradient %:	8.50	8	9	2	Pool Depth (m):	0.43	0.300	0.600	6
	Avg	Min	Max	#																																								
Channel Width (m):	4.78	3.6	6.1	6																																								
Wetted Width (m):	1.33	1	1.8	6																																								
Bankfull Depth (m):	0.37	0.3	0.4	3																																								
	Avg	Min	Max	#																																								
Gradient %:	8.50	8	9	2																																								
Pool Depth (m):	0.43	0.300	0.600	6																																								
Dewatered: ☐ Tribs.: ☐		Stage: Low ☒ Med ☐ High ☐				Turbidity: Turbid ☐ Low ☐ Moderate ☐ Clear ☒																																						
Temp (C): 5		pH: 7.3		Conductivity: 50																																								
MORPHOLOGY																																												
Bed Material: Dominant: Cobble		D95 (cm): 60.00		Bars: Non ☐ Side ☒ Diagonal ☐ Mid-channel ☐ Span ☐		Braid ☐																																						
Subdominant: Gravels		D (cm): 30.00																																										
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS																																								
Coupling: Partially Coupled				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>						O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐																					
O1	B1	B2	B3	D1	D2	D3																																						
☐	☐	☐	☐	☐	☐	☐																																						
Confinement: Frequently Confined				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td><td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>						C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐															
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																			
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																			
Morphology: CP Cascade Pool																																												
COVER																																												
Total Cover: Abundant		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>D</td> <td>T</td> <td>N</td> <td>S</td> <td>T</td> <td>N</td> </tr> <tr> <td>Location: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	T	N	S	T	N	Location: P/S/O:	☒	☒	☒	☐	☒	☒	☐											
Type:	SWD	LWD	B	U	DP	OV	IV																																					
Amount:	T	D	T	N	S	T	N																																					
Location: P/S/O:	☒	☒	☒	☐	☒	☒	☐																																					
LWD: None		FSZ: ☐																																										
LWD Dist: Not Applicable																																												
Right Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure																																								
Left Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		1-20%																																								
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest																																										
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐																																								
FISH																																												
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																			
454	EF	1	110	330 sec	800	NFC	0																																					

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.013 ILP # 3742 Site # 454

PROJECT																																		
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																								
Stream Name (gaz.): BULKLEY RIVER																																		
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000																																		
WATERSHED																																		
Gazetted Name:										Local Name:																								
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000																																		
ILP Map#: 093L.013			ILP #: 3742		NID Map #: 093L.013			NID #: 95454		Reach #: 3.0		Site #: 454																						
Field UTM (Z.E.N): 9.600035.5999121					Method: GPU			Site Lg: 110		Method: MAP		Access: H																						
GIS UTM (Z.E.N): 9.600058.5999105								Ref. Name:																										
Date: 2002/10/01			Time: 14:15		Agency: C172			Crew: JH/JD		Fish Crd?: ☒		Incomplete: ☐																						
CHANNEL																																		
	Mtd	width	width	width	width	width	width	width	width	width	width	width	Avg																					
Channel Width (m):	T	4.00	3.60	4.50	6.00	6.10	4.50						4.78																					
Wetted Width (m):	T	1.80	1.20	1.40	1.60	1.00	1.00						1.33																					
Pool Depth (m):	T	0.30	0.50	0.30	0.60	0.40	0.50						0.43																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Gradient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>8.0</td> <td>9.0</td> <td>C</td> <td>8.50</td> <td></td> </tr> <tr> <td>Method II:</td> <td></td> <td></td> <td>C</td> <td></td> <td></td> </tr> </tbody> </table>																	Gradient %		Mtd	Avg	Method I:	8.0	9.0	C	8.50		Method II:			C				
		Gradient %		Mtd	Avg																													
Method I:	8.0	9.0	C	8.50																														
Method II:			C																															
Wb Depth:		.3	.4	.4	Avg: 0.37		Method: T		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																							
COVER Total: A																																		
Type:	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE																										
Amount:	T	D	T	N	S	T	N	1 1-20%																										
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐	INSTREAM VEG: N ☒ A ☐ M ☐ V ☐																										
LWD: N		DIST: NA																																
LB SHP: U		RB SHP: U																																
Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐		Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐																																
RIP: M		RIP: M																																
STG: MF		STG: MF																																
WATER																																		
EMS:					Method: T4					Req #:																								
Temp: 5					Method: P2					Cond.: 50																								
pH: 7.3					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☒																								
Flood Signs: Rafted debris										Method: S3																								
										Method: GE																								
MORPHOLOGY																																		
Bed Material:		Dominant: C		Subdom: G		Morph: CP		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th><th>B1</th><th>B2</th><th>B3</th><th>D1</th><th>D2</th><th>D3</th> </tr> </thead> <tbody> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </tbody> </table>							O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐						
O1	B1	B2	B3	D1	D2	D3																												
☐	☐	☐	☐	☐	☐	☐																												
D95: 60.0		D (cm): 30.00						<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th><th>C2</th><th>C3</th><th>C4</th><th>C5</th><th>S1</th><th>S2</th><th>S3</th><th>S4</th><th>S5</th> </tr> </thead> <tbody> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </tbody> </table>							C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																									
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																									
Pattern: SI		DISTURBANCE INDICATORS																																
Islands: N																																		
Coupling: PC																																		
Confinement: FC																																		
FSZ: ☐		Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																
HABITAT QUALITY																																		
Name		Comments																																
OverWinter Habitat		Potential in deeper pools.																																
Rearing Habitat		Moderate - associated with pools, cover and LWD.																																
Spawning Habitat		Moderate - associated with pools, gravel and cover.																																
PHOTOS																																		
Photo		Foc Lg		Dir		Comments																												
R: 65	F: 25	STD		U		Upstream photo from confluence.																												
R: 66	F: 01	STD		U		Upstream photo from confluence.																												
R: 66	F: 02	STD		D		Downstream photo from confluence.																												

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
3.0	093L.013	3742	454

COMMENTS	
Section	Comments
CHANNEL	Downstream falls / cascades observed in overflight.
CHANNEL	NFC

FDIS Fish Card

Morice North Planning Area

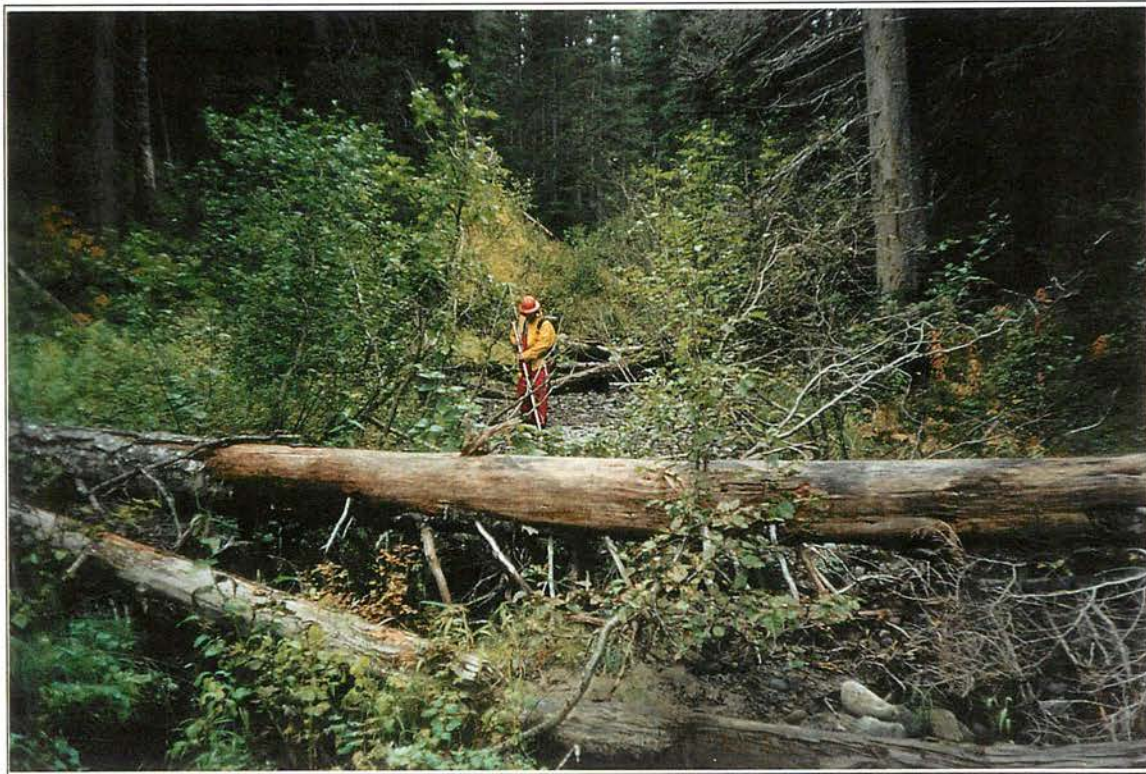
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.013 ILP # 3742

WATERBODY																	
Gazetted Name:										Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0																	
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																	
Waterbody ID:										ILP Map #: 093L.013		ILP #: 3742		Reach #: 3 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/10/01		To:		2002/10/01		Agency: C172		Crew: JH/JD		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO	Temp	Cond	Turbid	Comment						
454	093L.013	95454				GPU	EF 1	5	50	C							
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
454	EF	1	1	2002/10/01	14:10	2002/10/01	14:40										
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
454	EF	1	1	O	330	110.0	5.0	800	I	5	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
454	EF	1	1	NFC		0											



Site #454, Upstream photo from confluence.
Roll #65, Frame #25, Date: 2002/10/01



Site #454, Upstream photo from confluence.
Roll #66, Frame #01, Date: 2002/10/01



Site #454, Downstream photo from confluence.
Roll #66, Frame #02, Date: 2002/10/01

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.013 ILP # 3743

STREAM REFERENCING																																	
Gazetted Name:					Local Name:																												
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.013		ILP #: 3743																										
REACH																																	
Reach #: 1.0		UTM(Zone/East/North): 9.600032.5999217				Sample Type: Biased																											
Length (km): .12		Coupling: Partially Couple		Magnitude: 2		BGC Zone: ESSF																											
Gradient (%): 15.0		Confinement: Occasionally Conf		Order: 2		Open water: Absent																											
US Elev (m): 1027		Islands: NONE		Riparian Vegetation: Mixed C/D																													
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																	
SITE																																	
Site #: 455		Field UTM ..		Agency: C172		Crew: JH/JD		Date: 2002/10/01																									
Site Length (m): 100		GIS UTM 9.600048.5999152		Agency Name: Triton Environmental Consultants (Terrace)																													
CHANNEL																																	
No Vis.Ch.: ☐ Intermittent: ☐				Avg		Min		Max																									
Dewatered: ☐ Tribs.: ☐				Channel Width (m):		1.90		1.600																									
Stage: Low ☐				Wetted Width (m):		1.17		0.9																									
Med ☒				Bankfull Depth (m):		0.30		0.2																									
High ☐				pH: 7.5		Conductivity: 50																											
				Turbidity: Turbid ☐ Low ☐																													
				Moderate ☐ Clear ☒																													
MORPHOLOGY																																	
Bed Material: Dominant: Cobble		D95 (cm): 80.00		Bars: Non ☐ Side ☒ Diagonal ☐ Mid-channel ☐ Span ☐																													
Subdominant: Gravels		D (cm): 10.00		Braid ☐																													
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS																													
Coupling: Partially Coupled				O1 B1 B2 B3 D1 D2 D3																													
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																													
Morphology: CP Cascade Pool																																	
COVER																																	
Total Cover: Abundant		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Type:</td> <td>SWD</td> <td>LWD</td> <td>B</td> <td>U</td> <td>DP</td> <td>OV</td> <td>IV</td> </tr> <tr> <td>Amount:</td> <td>T</td> <td>D</td> <td>T</td> <td>T</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>Location: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	T	T	N	S	N	Location: P/S/O:	☒	☒	☒	☒	☐	☒	☐
Type:	SWD	LWD	B	U	DP	OV	IV																										
Amount:	T	D	T	T	N	S	N																										
Location: P/S/O:	☒	☒	☒	☒	☐	☒	☐																										
LWD: Few		FSZ: ☐																															
LWD Dist: Clumped																																	
Right Bank: Shape: V - shape		Texture: Fines ☒ Gravel ☐ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure																													
Left Bank: Shape: V - shape		Texture: Fines ☒ Gravel ☐ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐		1-20%																													
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest																															
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐																													
FEATURES																																	
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto																								
093L.013	95402	C	5.0	GE	1	GE	R: 66	F: 05	L: #:																								
Comments: Cascade - one of many.																																	
FISH																																	
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																								
455	EF	1	100	466 sec	800	NFC	0																										

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.013	3743	455

P H O T O S					
Photo			Foc Lg	Dir	Comments
R:	66	F: 03	STD	U	Upstream photo within site.
R:	66	F: 04	STD	D	Downstream photo within site.
R:	66	F: 05	STD	X	Cascade from helicopter.
C O M M E N T S					
Section			Comments		
CHANNEL			Stable stream with good complexity for fish.		
CHANNEL			NFC		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.013 ILP # 3743

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.013				ILP #: 3743		Reach #: 1 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/10/01			To: 2002/10/01			Agency: C172		Crew: JH/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
455	093L.013	95455				GPU EF 1	5	50	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
455	EF 1	1	2002/10/01	14:50	2002/10/01	15:20							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
455	EF	1	1	O	466	100.0	1.8	800	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
455	EF	1	1	NFC		0							



Site #455, Upstream photo within site.
Roll #66, Frame #03, Date: 2002/10/01



Site #455, Downstream photo within site.
Roll #66, Frame #04, Date: 2002/10/01



Site #455, Cascade from helicopter.
Roll #66, Frame #05, Date: 2002/10/01

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3471

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3471		
REACH									
Reach #: 3.0		UTM(Zone/East/North): 9.634292.6029550				Sample Type: Biased			
Length (km): .32		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS			
Gradient (%): 6.6		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 1005		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 456		Field UTM 9.634349.6029471		Agency: C172		Crew: JH/JD		Date: 2002/10/01	
Site Length (m): 150		GIS UTM 9.634346.6029474		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐				Avg		Min	
Dewatered: ☐		Trib.: ☐				Max		#	
Stage: Low ☒				Channel Width (m):		3.20		1.9	
Med ☐				Wetted Width (m):		1.77		1.3	
High ☐				Bankfull Depth (m):		0.57		0.5	
Temp (C): 6		pH: 7.9		Conductivity: 40		Avg		Min	
						Max		#	
						Gradient %:		11.67	
						Pool Depth (m):		0.28	
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 60.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Gravels		D (cm): 15.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Frequently Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: S		D		T		T	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest				Vascular ☐			
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.036	95403	CV	1.2	GE	20	GE	R: 66	F: 06	L: #:
Comments: Culvert perched at outlet.		UTM (Z/E/N) 9.634347.6029							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
456	EF	1	150	405 sec	800	DV	10	80	100

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3471 Site 456

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.036 ILP #: 3471 NID Map #: 093L.036 NID #: 95456 Reach #: 3.0 Site #: 456
Field UTM (Z.E.N): 9.634349.6029471 Method: GPU Site Lg: 150 Method: MAP Access: H
GIS UTM (Z.E.N): 9.634346.6029474 Ref. Name:
Date: 2002/10/01 Time: 15:30 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	2.40	4.00	6.00	2.40	2.70	3.00	1.90				3.20	Method I:	12.0	10.0	C	11.67
Wetted Width (m):	T	1.80	1.70	2.30	1.60	1.30	1.90					1.77	Method II:	13.0		C	
Pool Depth (m):	T	0.40	0.30	0.20	0.30	0.30	0.20					0.28					

Wb Depth: .6 .5 .6 Avg: 0.57 Method: T Stage: L ☒ M ☐ H ☐
No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	D	T	T	T	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 60.0 D (cm): 15.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	95403	CV	1.2	GE	20	GE	R: 66 F: 06 L:	#:	9.634347.6029475	GIS

Comments: Culvert perched at outlet.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Low - potential at culvert outlet.
Rearing Habitat	Moderate - associated with pools, LWD, cover.
Spawning Habitat	Low - associated with gravels, limited by gradient and coarse substrates.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
3.0	093L.036	3471	456

PHOTOS				
Photo		Foc Lg	Dir	Comments
R: 66	F: 06	STD	U	Culvert outlet.
R: 66	F: 07	STD	D	Downstream photo within site.
R: 66	F: 08	STD	U	Upstream photo within site.
COMMENTS				
Section		Comments		
CHANNEL		Culvert at road is perched 40 cm, U-shaped and partially squashed in center - High Priority.		
CHANNEL		DV captured (80 - 100 mm).		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3471

WATERBODY									
Gazetted Name:					Local:				
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0									
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000									
Waterbody ID:					ILP Map #: 093L.036		ILP #: 3471		Reach #: 3 -
Project ID: 5270					Lake/Stream: S		Lake From Date:		

Fish Permit #: 145269 Date: 2002/10/01 To: 2002/10/01 Agency: C172 Crew: JH/JD Resample: ☐

SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO		Temp	Cond	Turbid	Comment
456	093L.036	95456				GPU	EF	1	6	40	C	

A. GEAR SETTINGS									
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment	
456	EF	1	1	2002/10/01	15:30	2002/10/01	16:10		

C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
456	EF	1	1	O	405	150.0	3.0	800	I	5	SMITH ROOT	12B

FISH SUMMARY											
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
456	EF	1	1	DV	J	3+	10	80	100	R	

INDIVIDUAL FISH DATA																
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#/Age			Str/Smpl#				
456	EF	1	1	DV	80		U	U								
456	EF	1	1	DV	90		U	U								
456	EF	1	1	DV	90		U	U								
456	EF	1	1	DV	90		U	U								
456	EF	1	1	DV	80		U	U								
456	EF	1	1	DV	100		U	U								
456	EF	1	1	DV	100		U	U								
456	EF	1	1	DV	90		U	U								
456	EF	1	1	DV	80		U	U								
456	EF	1	1	DV	80		U	U								



Site #456, Culvert outlet.
Roll #66, Frame #06, Date: 2002/10/01



Site #456, Downstream photo within site.
Roll #66, Frame #07, Date: 2002/10/01



Site #456, Upstream photo within site.
Roll #66, Frame #08, Date: 2002/10/01

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3532

PROJECT			
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)		Project Code: 5270	
Stream Name (gaz.): BULKLEY RIVER			
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000			
WATERSHED			
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000			
ILP Map #: 093L.036	ILP #: 3532	Reach #: 3.0	NID Map #: 093L.036
		NID #: 11576	
Air Photos	Names		UTM(Zone/East/North/Method)
LINE: BCC98341_	Gaz.:	9.635602.6020565 GIS	
#: 0	Local:	Sample Type: B Wetland: ☒	
SURVEY INFO			
Date: 2002/08/27		Agency: C172	
		Crew: SG/SH	
ATTRIBUTES			
Length (km): .13	Gradient: 1.54	Setting: VF	DISTURBANCE
DS Elev.: 824	Order: 2	Open water: A	INDICATORS
US Elev.: 826	Magnitude: 5	Confinement: OC	C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
BGC Zone: SBS		Coupling: DC	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Valley Flat: B	C/D: C	Islands: N	
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR	
Channel Pattern: SI		Mass Movement: L	Exposed/Eroded: NS
		Riparian Veg.: NS	Landuse: NS

MAPS		
Map Type	Map #	Year
TRIM	093L.036	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0
ILP Map # 093L.036
ILP # 3532

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3532		Reach #: 3 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date: 2002/10/02		To: 2002/10/02		Agency: C172		Crew: JH/JD		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
457	093L.036	95457	9	635600	6020670	GPU	EF 1	6	80	C					
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
457	EF	1	1	2002/10/02	16:20	2002/10/02	16:50								
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
457	EF	1	1	O	210	100.0	1.0	600	I	5	SMITH	12B			
											ROOT				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
457	EF	1	1	CT	J	2+	5	90	100	R					
457	EF	1	1	CT	F	0+	5	30	35	R					
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
457	EF	1	1	CT	30		U	U							
457	EF	1	1	CT	90		U	U							
457	EF	1	1	CT	90		U	U							
457	EF	1	1	CT	100		U	U							
457	EF	1	1	CT	35		U	U							
457	EF	1	1	CT	30		U	U							
457	EF	1	1	CT	30		U	U							
457	EF	1	1	CT	35		U	U							
457	EF	1	1	CT	90		U	U							
457	EF	1	1	CT	100		U	U							
COMMENTS															
Section				Comments											
WATERBODY				Channelized wetland with good spawning, rearing and overwintering.											

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 8.0 ILP Map # 093L.046 ILP # 2868

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000

Project Code: 5270

WATERSHED

Reach Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map #: 093L.046 ILP #: 2868 Reach #: 8.0 NID Map #: 093L.045 NID #: 10336
Air Photos Names UTM(Zone/East/North/Method)
LINE: BCC98341_ Gaz.: 9.627494.6033425 GIS
#: 0 Local: Sample Type: B Wetland: ☐

SURVEY INFO

Date: 2002/08/27 Agency: C172 Crew: SG/SH

ATTRIBUTES

Length (km): 3.41 Gradient: 2.49 Setting: VW DISTURBANCE O1 B1 B2 B3 D1 D2 D3
DS Elev.: 1087 Order: 4 Open water: A INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐
US Elev: 1172 Magnitude: 88 Confinement: FC C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
BGC Zone: SBS Coupling: CO ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Valley Flat: N C/D: Islands: N
Active Floodplain Visible: ☐ Est. Width: Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR
Channel Pattern: SI Mass Movement: M Exposed/Eroded: NS
Riparian Veg.: C Landuse: NS

MAPS

Map Type	Map #	Year
TRIM	093L.046	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 8.0 ILP Map # 093L.046 ILP # 2868

WATERBODY													
Gazetted Name:						Local: Emerson Creek							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.046				ILP #: 2868		Reach #: 8 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/10/02			To: 2002/10/02			Agency: C172		Crew: JH/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
458	093L.046	94548				GPU EF 1	6	80	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
458	EF 1	1	2002/10/02	17:10	2002/10/02	18:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
458	EF	1	1	O	690	200.0	10.0	600	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
458	EF	1	1	NFC		0							

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.046 ILP # 2908

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.046		ILP #:		2908	
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.633214.6031435				Sample Type: Biased					
Length (km): 1.25		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 9.5		Confinement: Frequently Confin		Order: 1		Open water: Absent					
US Elev (m): 1190		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 459		Field UTM 9.633850.6030811		Agency: C172		Crew: JH/JD		Date: 2002/10/02			
Site Length (m): 150		GIS UTM 9.633906.6030733		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.02		0.9		1.200 6	
Stage: Low ☒				Wetted Width (m):		0.43		0.300		0.600 6	
Med ☐				Bankfull Depth (m):		0.17		0.1		0.2 3	
High ☐		Temp (C): 6		pH: 7.9		Conductivity: 80					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 80.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Gravels		D (cm): 10.00								Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐	
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐	
Morphology: CP Cascade Pool						☐		☐		☐	
COVER											
Total Cover: Abundant		Type: SWD LWD B U DP OV IV									
LWD: Few		Amount: S D T T N T N									
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☒		FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure	
Left Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								21-40%	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest									
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐							
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
459	EF	1	150	280 sec	700	NFC	0				

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.046 ILP # 2908 Site 459

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2908 NID Map #: 093L.046 NID #: 95459 Reach #: 2.0 Site #: 459
Field UTM (Z.E.N): 9.633850.6030811 Method: GPU Site Lg: 150 Method: MAP Access: H
GIS UTM (Z.E.N): 9.633906.6030733 Ref. Name:
Date: 2002/10/02 Time: 11:15 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	1.00	0.90	1.20	1.00	0.90	1.10					1.02	Method I:	15.0	15.0	C	15.00
Wetted Width (m):	T	0.50	0.40	0.50	0.60	0.30	0.30					0.43	Method II:			C	
Pool Depth (m):	T	0.20	0.10	0.10	0.10	0.20	0.10					0.13					

Wb Depth: .1 .2 .2 Avg: 0.17 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	D	T	T	N	T	N
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 80 Method: S3
pH: 7.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 80.0 D (cm): 10.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Low - limited by pools / shallow.
Spawning Habitat	Low - small gravel patches limited by pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 66 F: 11 STD U			Upstream photo within site.
R: 66 F: 12 STD D			Downstream photo within site.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.046	2908	459

COMMENTS	
Section	Comments
CHANNEL	Inferred fish bearing.
CHANNEL	NFC

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.046 ILP # 2908

WATERBODY														
Gazetted Name:						Local:								
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0														
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000														
Waterbody ID:				ILP Map #: 093L.046				ILP #: 2908		Reach #: 2 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/10/02			To: 2002/10/02			Agency: C172		Crew: JH/JD		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
459	093L.046	95459				GPU EF 1	6	80	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
459	EF 1	1	2002/10/02	11:00	2002/10/02	11:30								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
459	EF	1	1	O	280	150.0	1.0	700	I	5	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
459	EF	1	1	NFC		0								



Site #459, Upstream photo within site.
Roll #66, Frame #11, Date: 2002/10/02



Site #459, Downstream photo within site.
Roll #66, Frame #12, Date: 2002/10/02

Morice North Planning Area

5.0	093L.036	3471
-----	----------	------

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.036 ILP # 3471 Site # 460

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.036 ILP #: 3471 NID Map #: 093L.046 NID #: 95460 Reach #: 5.0 Site #: 460
Field UTM (Z.E.N): 9.633972.6030350 Method: GPU Site Lg: 100 Method: GE Access: H
GIS UTM (Z.E.N): 9.633925.6030379 Ref. Name:
Date: 2002/10/02 Time: 12:00 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	2.00	1.60	2.00	1.80	1.50	1.70	2.00				1.80	Method I:	10.0	13.0	C	12.50
Wetted Width (m):	T	1.00	1.00	1.20	1.60	1.50	1.50					1.30	Method II:	12.0	15.0	C	
Pool Depth (m):	T	0.40	0.40	0.30	0.40	0.50	0.30					0.38					

Wb Depth: .5 .7 .7 Avg: 0.63 Method: T Stage: L ☐ M ☒ H ☐
No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	D	T	T	T	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 20 Method: S3
pH: 7.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 70.0 D (cm): 20.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.046	95404	C	20.0	GE	40	GE	R: 66 F: 15 L:	#:	9.633856.6030395	GIS

Comments: Cascade.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Limited by shallow pool depths / gradients.
Spawning Habitat	Low - limited by coarse angular substrates.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
5.0	093L.036	3471	460

PHOTOS				
Photo		Foc Lg	Dir	Comments
R: 66	F: 13	STD	U	Upstream photo within site.
R: 66	F: 14	STD	D	Downstream photo within site.
R: 66	F: 15	STD	U	Cascade 40% 20 / 40 m with falls.
COMMENTS				
Section		Comments		
CHANNEL		25% section ~100 m upstream of confluence. 46% slope with bedrock cascades / falls within (1 m falls, 1.5 m falls).		
CHANNEL		DV in lower 50 m, 1 fish captured 80 mm.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000

Reach # 5.0 ILP Map # 093L.036 ILP # 3471

WATERBODY														
Gazetted Name:										Local:				
Project Code: 460-000000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-0														
WS Code: 000-000000-00000-00000-00000-00000-00000-00000-00000-00000-00000-000														
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3471		Reach #: 5 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #:		145269		Date:		2002/10/02		To:		2002/10/02		Agency: C172		
								Crew: JH/JD				Resample: ☐		
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment			
461	093L.046	95461				GPU	EF 1	6	30	C				
460	093L.046	95460				GPU	EF 1	6	20	C				
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
460	EF	1	2002/10/02	12:00	2002/10/02	12:30								
461	EF	1	2002/10/02	13:20	2002/10/02	14:10								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
460	EF	1	1	O	180	100.0	2.0	800	I	5	SMITH ROOT	12B		
461	EF	1	1	O	270	100.0	1.0	800	I	5	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment				
460	EF	1	1	DV	J	3+	1	80	80	R				
461	EF	1	1	NFC		0								
INDIVIDUAL FISH DATA														
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic	Roll #	Frame#	Comment
								Str/Smpl#			Str/Smpl#			
460	EF	1	1	DV	80		U	U						



Site #460, Upstream photo within site.
Roll #66, Frame #13, Date: 2002/10/02



Site #460, Downstream photo within site.
Roll #66, Frame #14, Date: 2002/10/02



Site #460, Cascade 40% 20 / 40 m with falls.
Roll #66, Frame #15, Date: 2002/10/02

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.036 ILP # 3471

SITE																																														
Site #: 461		Field UTM 9.632571.6030100		Agency: C172		Crew: JH/JD		Date: 2002/10/02																																						
Site Length (m): 100		GIS UTM 9.632523.6030586		Agency Name: Triton Environmental Consultants (Terrace)																																										
CHANNEL																																														
No Vis.Ch.: ☐		Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Channel Width (m):</td> <td>0.93</td> <td>0.600</td> <td>1.100</td> <td>7</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.57</td> <td>0.5</td> <td>0.7</td> <td>7</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.10</td> <td>0.1</td> <td>0.1</td> <td>3</td> </tr> </table>					Avg	Min	Max	#	Channel Width (m):	0.93	0.600	1.100	7	Wetted Width (m):	0.57	0.5	0.7	7	Bankfull Depth (m):	0.10	0.1	0.1	3	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Gradient %:</td> <td>4.50</td> <td>4</td> <td>5</td> <td>2</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.13</td> <td>0.100</td> <td>0.200</td> <td>7</td> </tr> </table>					Avg	Min	Max	#	Gradient %:	4.50	4	5	2	Pool Depth (m):	0.13	0.100	0.200	7
	Avg	Min	Max	#																																										
Channel Width (m):	0.93	0.600	1.100	7																																										
Wetted Width (m):	0.57	0.5	0.7	7																																										
Bankfull Depth (m):	0.10	0.1	0.1	3																																										
	Avg	Min	Max	#																																										
Gradient %:	4.50	4	5	2																																										
Pool Depth (m):	0.13	0.100	0.200	7																																										
Dewatered: ☐		Tribes.: ☐						Turbidity.: Turbid ☐ Low ☐																																						
Stage: Low ☒		Temp (C): 6		pH: 7.8		Conductivity: 30		Moderate ☐ Clear ☒																																						
Med ☐																																														
High ☐																																														
MORPHOLOGY																																														
Bed Material: Dominant: Gravels		D95 (cm): 5.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☐																																				
Subdominant: Fines		D (cm): 2.00								Span ☐																																				
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1 ☐		B1 ☐		B2 ☐																																				
Coupling: Partially Coupled						B3 ☐		D1 ☐		D2 ☐																																				
Confinement: Occasionally Confine						D3 ☐		S1 ☐		S2 ☐																																				
Morphology: RP Riffle Pool						S3 ☐		S4 ☐		S5 ☐																																				
COVER																																														
Total Cover: Trace		Type: SWD		LWD		B		U		DP																																				
LWD: None		Amount: S		S		N		D		N																																				
LWD Dist: Not Applicable		Location: P/S/O:		☒		☒		☐		☒																																				
				☐		☐		☐		☐																																				
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																				
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																				
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Manmade ☐																																				
Left Bank: Rip.Veg:		Stage: Mature forest								Crown Closure 1-20%																																				
										Instream Veg: None ☒																																				
										Algae ☐																																				
										Moss ☐																																				
										Vascular ☐																																				
FISH																																														
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																					
460	EF	1	100	180 sec	800	DV	1	80	80																																					
461	EF	1	100	270 sec	800	NFC	0																																							

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.036 ILP # 3471 Site 461

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3471 NID Map #: 093L.046 NID #: 95461 Reach #: 5.0 Site #: 461
Field UTM (Z.E.N): 9.632571.6030100 Method: GPU Site Lg: 100 Method: MAP Access: H
GIS UTM (Z.E.N): 9.632523.6030586 Ref. Name:
Date: 2002/10/02 Time: 13:20 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	0.90	1.00	1.10	1.00	1.10	0.80	0.60				0.93	Method I:	4.0	5.0	C 4.50
Wetted Width (m):	T	0.60	0.50	0.60	0.60	0.70	0.50	0.50				0.57	Method II:			C
Pool Depth (m):	T	0.10	0.10	0.20	0.10	0.20	0.10	0.10				0.13				

Wb Depth: .1 .1 .1 Avg: 0.10 Method: T Stage: L ☒ M ☐ H ☐

No Vis. Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: T

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	S	N	D	N	T	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: N DIST: NA

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Req #: Temp: 6 Method: T4 Cond.: 30 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 5.00 D (cm): 2.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Low - associated with shallow pool, riffles and runs.
Spawning Habitat	Low - associated with gravels - limited by shallow pool depths.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 66 F: 16	STD	U	Upstream photo within site.
R: 66 F: 17	STD	D	Downstream photo within site.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
5.0	093L.036	3471	461

COMMENTS	
Section	Comments
CHANNEL	NFC - downstream barriers.

FDIS Fish Card

Morice North Planning Area

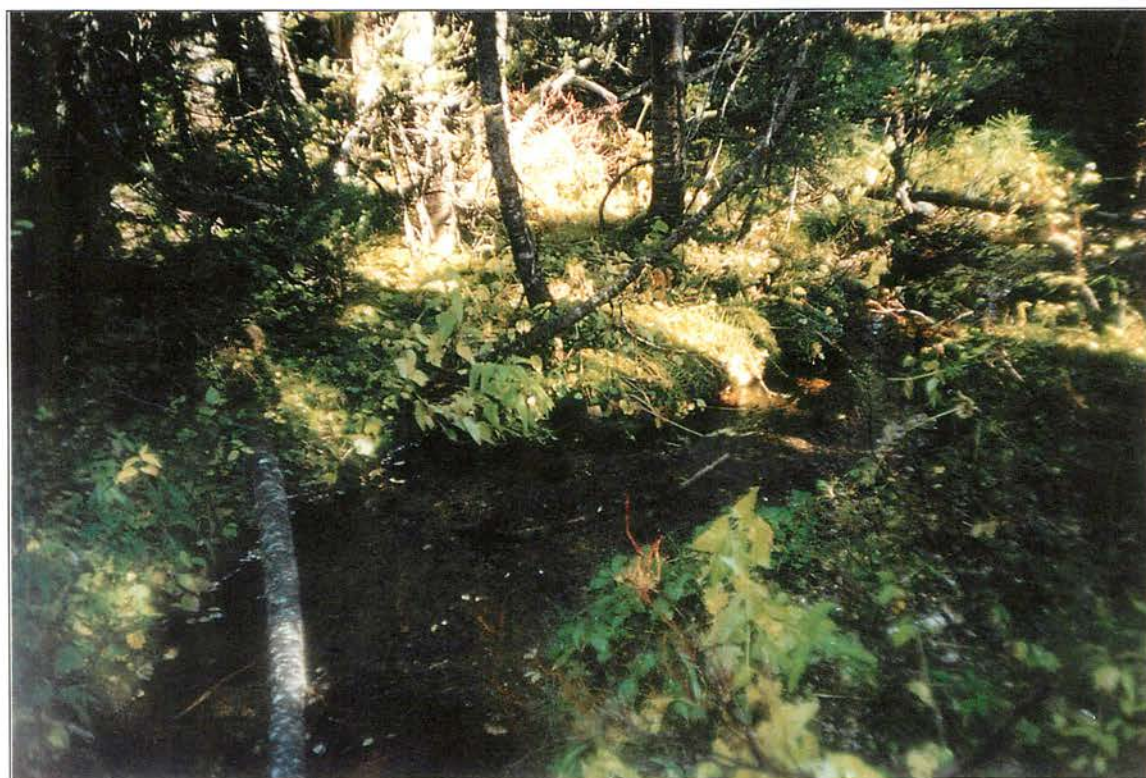
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.036 ILP # 3471

WATERBODY														
Gazetted Name:										Local:				
Project Code: 460-000000-00000-00000-0000-000-000-000-000-0														
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000														
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3471		Reach #: 5 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #:		145269		Date: 2002/10/02		To: 2002/10/02		Agency: C172		Crew: JH/JD		Resample: ☐		
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment			
461	093L.046	95461				GPU	EF 1	6	30	C				
460	093L.046	95460				GPU	EF 1	6	20	C				
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
460	EF	1	2002/10/02	12:00	2002/10/02	12:30								
461	EF	1	2002/10/02	13:20	2002/10/02	14:10								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
460	EF	1	1	O	180	100.0	2.0	800	I	5	SMITH ROOT	12B		
461	EF	1	1	O	270	100.0	1.0	800	I	5	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
460	EF	1	DV	J	3+	1	80 80	R						
461	EF	1	NFC			0								
INDIVIDUAL FISH DATA														
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic	Roll #	Frame#	Comment
								Str/Smpl#//Age			Str/Smpl#			
460	EF	1	DV	80		U	U							



Site #461, Upstream photo within site.
Roll #66, Frame #16, Date: 2002/10/02



Site #461, Downstream photo within site.
Roll #66, Frame #17, Date: 2002/10/02

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.037 ILP # 3571

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.037		ILP #: 3571		
REACH									
Reach #: 1.0		UTM (Zone/East/North): 9.643191.6028844				Sample Type: Biased			
Length (km): 1.88		Coupling: Partially Couple		Magnitude: 5		BGC Zone: SBS			
Gradient (%): 1.6		Confinement: Occasionally Conf		Order: 3		Open water: Absent			
US Elev (m): 619		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 500		Field UTM 9.644417.6028190		Agency: C172		Crew: JH/TT		Date: 2002/09/03	
Site Length (m): 175		GIS UTM 9.644408.6028191		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.39		0.600		2.1	
Stage: Low ☒				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.57		0.5		0.6	
High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 10.00				Mid-channel ☐		Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Partially Coupled						B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Trace		Type: SWD		LWD		B		U	
LWD: Few		Amount: N		T		D		T	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Stage: Mature forest		Instream Veg: None ☒		Algae ☐	
Left Bank: Rip.Veg:						Moss ☐		Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.037	55501	CV	1.0	GE	10	GE	R: 50	F: 04	UTM (Z/E/N) 9.644408.6028
Comments: No plunge pool / 30 cm perch.									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.037	55500	C	1.5	T	0	T	R: 50	F: 03	UTM (Z/E/N) 9.644454.6028
Comments: No plunge pool.									

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.037 ILP # 3571 Site 500

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
Local Name: ILP Map #: 093L.037 ILP #: 3571 NID Map #: 093L.037 NID #: 50500 Reach #: 1.0 Site #: 500
Field UTM (Z.E.N): 9.644417.6028190 Method: GPU Site Lg: 175 Method: HC Access: V2
GIS UTM (Z.E.N): 9.644408.6028191 Ref. Name:
Date: 2002/09/03 Time: 07:30 Agency: C172 Crew: JH/TT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	1.60	1.30	1.00	0.60	1.30	1.90	2.10	1.30	1.30	1.30	1.39	Method I:	5.0	4.0	C	4.50
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth: .6 .5 .6 Avg: 0.57 Method: MS Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☒
Dw: ☐ Tribs.: ☐

COVER Total: T

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	T	D	T	N	S	N
Loc: P/S/O:	☐	☒	☒	☒	☐	☒	☐

CROWN CLOSURE
2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 10.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.037	55501	CV	1.0	GE	10	GE	R: 50 F: 04 L:	#:	9.644408.6028191	GIS

Comments: No plunge pool / 30 cm perch.

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.037	55500	C	1.5	T	0	T	R: 50 F: 03 L:	#:	9.644454.6028121	GIS

Comments: No plunge pool.

HABITAT QUALITY

Name	Comments
------	----------

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.037	3571	500

HABITAT QUALITY				
Name		Comments		
OverWinter Habitat		None observed - no pools or potential pools observed in site.		
Rearing Habitat		Low - limited by pools / access.		
Spawning Habitat		Low - limited by substrates, flows, access - high percentage of interstitial flows in surveyed site.		
PHOTOS				
Photo		Foc Lg	Dir	Comments
R: 50	F: 01	STD	U	Upstream photo of typical substrates.
R: 50	F: 02	STD	D	Downstream photo of typical stream characteristics.
R: 50	F: 03	STD	U	1.5 m cascade over cobble gravel.
R: 50	F: 04	STD	U	Culvert outlet.
COMMENTS				
Section		Comments		
CHANNEL		Culvert perched 30 cm at outlet, low priority downstream barrier limits upstream access.		
CHANNEL		Inferred fish bearing - direct connection with Morice River. Semi permanent barrier 30 m downstream of road crossing blocks upstream access for time being - could potentially wash out during increased flows. Gravel / cobble - falls / cascades.		



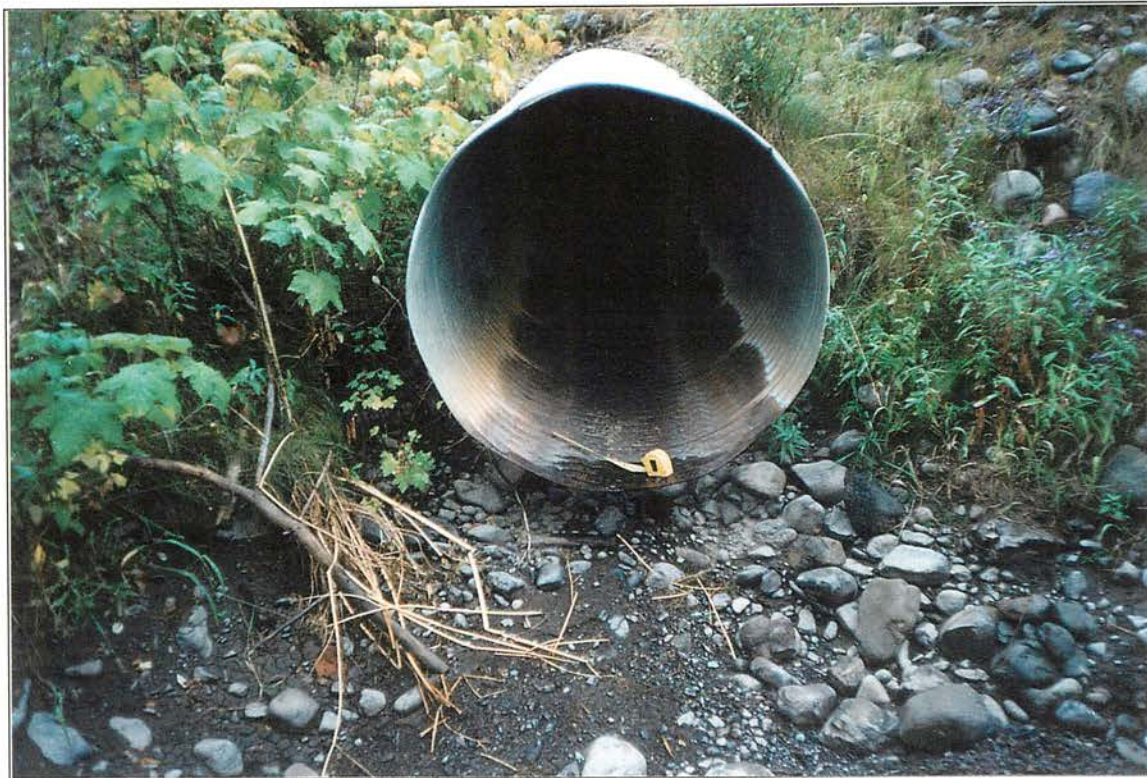
Site #500, Upstream photo of typical substrates.
Roll #50, Frame #01, Date: 2002/09/03



Site #500, Downstream photo of typical stream characteristics.
Roll #50, Frame #02, Date: 2002/09/03



Site #500, 1.5 m cascade over cobble gravel.
Roll #50, Frame #03, Date: 2002/09/03



Site #500, Culvert outlet.
Roll #50, Frame #04, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.036 3402

STREAM REFERENCING												
Gazetted Name:						Local Name:						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.036			ILP #: 3402			
REACH												
Reach #: 1.0		UTM(Zone/East/North): 9.640637.6027666				Sample Type: Biased						
Length (km): 2.01		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS						
Gradient (%): 16.5		Confinement: Frequently Confin		Order: 2		Open water: Absent						
US Elev (m): 961		Islands: NONE		Riparian Vegetation: Shrubs								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified												
SITE												
Site #: 501		Field UTM 9.641102.6026030		Agency: C172		Crew: JH/TT		Date: 2002/09/03				
Site Length (m): 200		GIS UTM 9.641094.6025998		Agency Name: Triton Environmental Consultants (Terrace)								
CHANNEL												
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#		
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.80		0.600		0.9		6		
Stage: Low ☒				Wetted Width (m): 0.00		0		0		0		
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5		3		
High ☐		Temp (C):		pH:		Conductivity:						
								Turbidity: Turbid ☐		Low ☐		
								Moderate ☐		Clear ☐		
MORPHOLOGY												
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐		
Subdominant: Boulders		D (cm): 10.00								Braid ☐		
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3		
Coupling: Partially Coupled				INDICATORS		☐		☐		☐		
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐		
Morphology: CP Cascade Pool						☐		☐		☐		
COVER												
Total Cover: Trace		Type: SWD LWD B U DP OV IV		Amount: N N S N N D N		Location: P/S/O: ☐		☐		FSZ: ☐		
LWD: None												
LWD Dist: Not Applicable												
Right Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure		
Left Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								1-20%		
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage										
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐								
FEATURES												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto		UTM (Z/E/N)
093L.036	55502	CV	.9	T	10	T	R: 50	F: 05	L:	#:		9.641094.6025
Comments:		Perched 1 m at outlet.										

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3402 Site 501

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3402 NID Map #: 093L.036 NID #: 50501 Reach #: 1.0 Site #: 501
Field UTM (Z.E.N): 9.641102.6026030 Method: GPU Site Lg: 200 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.641094.6025998 Ref. Name:
Date: 2002/09/03 Time: 08:30 Agency: C172 Crew: JH/TT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	0.90	0.60	0.80	0.90	0.70	0.90					0.80	Method I:	22.0	18.0	C	15.50
Wetted Width (m):	MS											0.00	Method II:	12.0	10.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .5 .4 .5 Avg: 0.47 Method: T Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☒
Dw: ☐ Tribs.: ☐

COVER Total: T

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	S	N	N	D	N
Loc: P/S/O:	☐	☐	☒	☐	☐	☒	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: N DIST: NA

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 10.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	55502	CV	.9	T	10	T	R: 50 F: 05 L:	#:	9.641094.6025998	GIS

Comments: Perched 1 m at outlet.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None - no pools, highly ephemeral, gradient and organic barriers block access.
Spawning Habitat	None - limited by substrates - too coarse, access - primarily interstitial flows.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.036	3402	501

PHOTOS						
Photo		Foc Lg		Dir	Comments	
R:	50	F:	05	STD	U	Culvert outlet perched 1 m.
R:	50	F:	06	STD	U	Upstream photo of typical habitat upstream of road.
R:	50	F:	07	STD	D	Downstream photo of typical habitat downstream of road.
COMMENTS						
Section		Comments				
CHANNEL		No pools / resting / rearing observed. Access difficult due to interstitial flows in and around cobble substrates, similar characteristics to dewatered trib / stream. Unlikely fish can access this stream.				
CHANNEL		Numerous obstructions and small cascades over cobble 50 cm / 50 cm in lower portion of reach.				
CHANNEL		Inferred fish bearing downstream of road. S6 upstream of road 20%.				



Site #501, Culvert outlet perched 1 m.
Roll #50, Frame #05, Date: 2002/09/03



Site #501, Upstream photo of typical habitat upstream of road.
Roll #50, Frame #06, Date: 2002/09/03



Site #501, Downstream photo of typical habitat downstream of road.
Roll #50, Frame #07, Date: 2002/09/03

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.036	3401

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3401 Site 502

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3401 NID Map #: 093L.036 NID #: 50502 Reach #: 1.0 Site #: 502
Field UTM (Z.E.N): .. Method: Site Lg: 150 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.641458.6025850 Ref. Name:
Date: 2002/09/03 Time: 09:00 Agency: C172 Crew: JH/TT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	1.70	1.90	1.50	2.30	2.10	2.40					1.98	Method I:	8.0	7.0	C	7.50
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth:	.6	.5	.5	Avg:	0.53	Method:	T	Stage:	L	☒	M	☐	H	☐	No Vis.Ch.:	☐	Intermittent:	☒
															Dw:	☐	Tribs.:	☐

COVER

Total: T

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	D	N	N	S	N
Loc: P/S/O:	☐	☐	☒	☐	☐	☒	☐

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: N

DIST: NA

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 20.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	Limited by substrates (course) access (interstitial flows), resting / rearing and obstructions.
Spawning Habitat	Limited by substrates (course) access (interstitial flows), resting / rearing and obstructions.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 50 F: 08 STD U			Upstream photo of typical stream habitat within reach.
R: 50 F: 09 STD D			Downstream photo of typical stream habitat within reach.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.036	3401	502

COMMENTS	
Section	Comments
CHANNEL	Reach break should be moved upstream to confluence. This stream offers no habitat within surveyed section or upstream.
CHANNEL	Inferred fish bearing - access questionable, but no barriers observed.



Site #502, Upstream photo of typical stream habitat within reach.
Roll #50, Frame #08, Date: 2002/09/03



Site #502, Downstream photo of typical stream habitat within reach.
Roll #50, Frame #09, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3401

STREAM REFERENCING												
Gazetted Name:						Local Name:						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.036			ILP #: 3401			
REACH												
Reach #: 2.0		UTM(Zone/East/North): 9.640698.6025909				Sample Type: Biased						
Length (km): .64		Coupling: Partially Couple		Magnitude: 2		BGC Zone: SBS						
Gradient (%): 13.3		Confinement: Frequently Confin		Order: 2		Open water: Absent						
US Elev (m): 709		Islands: NONE		Riparian Vegetation: Mixed C/D								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified												
SITE												
Site #: 503		Field UTM 9.641040.6025865		Agency: C172		Crew: JH/TT		Date: 2002/09/03				
Site Length (m): 165		GIS UTM 9.641124.6025868		Agency Name: Triton Environmental Consultants (Terrace)								
CHANNEL												
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#		
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.27		1		1.600		7		
Stage: Low ☒				Wetted Width (m): 0.00		0		0		0		
Med ☐				Bankfull Depth (m): 0.43		0.4		0.5		3		
High ☐		Temp (C):		pH:		Conductivity:						
								Turbidity.: Turbid ☐		Low ☐		
								Moderate ☐		Clear ☐		
MORPHOLOGY												
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐		
Subdominant: Boulders		D (cm): 20.00								Braid ☐		
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3		
Coupling: Partially Coupled				INDICATORS		☐		☐		☐		
Confinement: Occasionally Confin				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐		
Morphology: CP Cascade Pool						☐		☐		☐		
COVER												
Total Cover: Trace		Type: SWD LWD B U DP OV IV		Amount: N N D N N S N		Location: P/S/O: ☐		☐		FSZ: ☐		
LWD: None												
LWD Dist: Not Applicable												
Right Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure		
Left Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								21-40%		
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest										
Left Bank: Rip.Veg:		Stage: Mature forest										
								Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐				
FEATURES												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto		UTM (Z/E/N)
093L.036	55504	CV	.9	T	10	T	R: 50	F: 13	L:	#:		9.641051.6025
Comments: Perched 1 m.												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto		UTM (Z/E/N)
093L.036	55503	C	1.5	T	0	T	R: 50	F: 12	L:	#:		9.641097.6025
Comments: No plunge pool. (cascade is 0.3 m in length)												

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3401 Site 503

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3401 NID Map #: 093L.036 NID #: 50503 Reach #: 2.0 Site #: 503
Field UTM (Z.E.N): 9.641040.6025865 Method: GPU Site Lg: 165 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.641124.6025868 Ref. Name:
Date: 2002/09/03 Time: 09:30 Agency: C172 Crew: JH/TT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	1.10	1.20	1.40	1.00	1.50	1.60	1.10				1.27	Method I:	10.0	12.0	C	11.00
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth: .4 .5 .4 Avg: 0.43 Method: T Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☒
Dw: ☐ Tribs.: ☐

COVER Total: T

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	D	N	N	S	N
Loc: P/S/O:	☐	☐	☒	☐	☐	☒	☐

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: pH: Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: Turb.: T ☐ M ☐ L ☐ C ☐ Method: S3 Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B D95: 50.0 D (cm): 20.00 Morph: CP DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Pattern: SI Islands: N Coupling: PC Confinement: OC FSZ: ☐
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	55504	CV	.9	T	10	T	R: 50 F: 13 L:	#:	9.641051.6025844	GIS
Comments: Perched 1 m.										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	55503	C	1.5	T	0	T	R: 50 F: 12 L:	#:	9.641097.6025859	GIS
Comments: No plunge pool. (cascade is 0.3 m in length)										

HABITAT QUALITY

Name Comments

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.036	3401	503

HABITAT QUALITY					
Name				Comments	
OverWinter Habitat				None.	
Rearing Habitat				Limited by flows (none - highly ephemeral), access (barriers) and obstructions, substrates too course, interstitial flows.	
Spawning Habitat				Limited by flows (none - highly ephemeral), access (barriers) and obstructions, substrates too course, interstitial flows.	
PHOTOS					
Photo		Foc Lg	Dir	Comments	
R: 50	F: 10	STD	U	Upstream photo of typical habitat within site.	
R: 50	F: 11	STD	D	Downstream photo of typical habitat within site.	
R: 50	F: 12	STD	U	Semi-permanent barrier over cobble/gravel.	
R: 50	F: 13	STD	U	Culvert perched 1 m.	
COMMENTS					
Section				Comments	
CHANNEL				Stream offers no habitat within surveyed section - no pools large enough to support anything.	
CHANNEL				S6 upstream of road - cascade over cobble 1.5 / .30 ~50 m downstream of road and interstitial flows block upstream access.	



Site #503, Upstream photo of typical habitat within site.
Roll #50, Frame #10, Date: 2002/09/03



Site #503, Downstream photo of typical habitat within site.
Roll #50, Frame #11, Date: 2002/09/03



Site #503, Semi-permanent barrier over cobble/gravel.
Roll #50, Frame #12, Date: 2002/09/03



Site #503, Culvert perched 1 m.
Roll #50, Frame #13, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.036 3405

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3405		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.640796.6025518				Sample Type: Biased			
Length (km): .34		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 12.1		Confinement: Frequently Confin		Order: 1		Open water: Absent			
US Elev (m): 661		Islands: NONE		Riparian Vegetation: Not Specified					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 504		Field UTM 9.640866.6025350		Agency: C172		Crew: JH/TT		Date: 2002/09/03	
Site Length (m): 100		GIS UTM 9.640892.6025347		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐							
Dewatered: ☐		Tribes.: ☐							
Stage: Low ☐									
Med ☐									
High ☐		Temp (C):		pH:		Conductivity:		Turbidity.: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):						Mid-channel ☐	
								Span ☐	
Channel Pattern:		Islands:		DISTURBANCE INDICATORS		O1		B1	
Coupling:						B2		B3	
Confinement:						D1		D2	
Morphology:						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover:		Type:		SWD		LWD		B	
LWD:		Amount:							
LWD Dist:		Location: P/S/O:							
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg:		Stage:							
Left Bank: Rip.Veg:		Stage:							
								Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐	
								Crown Closure	
								FSZ: ☐	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3405 Site 504

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3405 NID Map #: 093L.036 NID #: 50504 Reach #: 2.0 Site #: 504
Field UTM (Z.E.N): 9.640866.6025350 Method: GPU Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.640892.6025347 Ref. Name:
Date: 2002/09/03 Time: 10:20 Agency: C172 Crew: JH/TT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):												0.00	Method I:	1.0	1.0	C	1.00
Wetted Width (m):												0.00	Method II:				
Pool Depth (m):												0.00					

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER

Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

RIP:

STG:

STG:

WATER

EMS: Temp: Method: Req #: Cond.: Method:
pH: Method: Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: Method:

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: ☐
Coupling: ☐
Confinement: ☐
FSZ: ☐ Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name Comments
Other No fish habitat due to No Visible Channel.

PHOTOS

Photo Foc Lg Dir Comments
R: 50 F: 14 STD U No Visible Channel.

COMMENTS

Section Comments
SITE CARD No Visible Channel.



Site #504, No Visible Channel.
Roll #50, Frame #14, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3520

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3520		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.639711.6024016				Sample Type: Biased			
Length (km): 1.00		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS			
Gradient (%): 4.3		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 657		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 505		Field UTM 9.640025.6023902		Agency: C172		Crew: JH/TT		Date: 2002/09/03	
Site Length (m): 125		GIS UTM 9.640100.6023919		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.28		0.9		1.700	
Stage: Low ☒				Wetted Width (m): 0.77		0.5		1.100	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5	
High ☐									
Temp (C): 8		pH: 7.8		Conductivity: 80					
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 30.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 10.00				Mid-channel ☐		Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		N		S	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☐		☒	
		☐		☐		☐		☐	
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage		Instream Veg: None ☒		Algae ☐		Moss ☐	
				Vascular ☐					
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.036	55505	CV	.9	T	10	T	R: 50	F: 15	L: #:
Comments: Perched 90 cm, high priority.		UTM (Z/E/N) 9.640024.6023							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
505	EF	1	125	132 sec	400	RB	10	30	40

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3520 Site # 505

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
Local Name: ILP Map#: 093L.036 ILP #: 3520 NID Map #: 093L.036 NID #: 50505 Reach #: 1.0 Site #: 505
Field UTM (Z.E.N): 9.640025.6023902 Method: GPU Site Lg: 125 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.640100.6023919 Ref. Name:
Date: 2002/09/03 Time: 12:00 Agency: C172 Crew: JH/TT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	1.30	1.20	0.90	1.10	1.70	1.50					1.28	Method I:	4.0	6.0	5.00
Wetted Width (m):	T	0.50	0.60	0.50	0.90	1.00	1.10					0.77	Method II:			C
Pool Depth (m):	T	0.10	0.10	0.10	0.10							0.10				

Wb Depth: .5 .4 .5 Avg: 0.47 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	D	N	S	N	S	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 80 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 30.0 D (cm): 10.0 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	55505	CV	.9	T	10	T	R: 50 F: 15 L:	#:	9.640024.6023913	GIS

Comments: Perched 90 cm, high priority.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Associated with small shallow pools, limited by depth and size - good cover.
Spawning Habitat	Associated with substrates and small shallow pools, limited by pool sizes and depth.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.036	3520	505

PHOTOS						
Photo		Foc Lg		Dir	Comments	
R:	50	F:	15	STD	U	Culvert outlet.
R:	50	F:	16	STD	U	Upstream at fish capture site, small 60 cm / 60 cm pool.
R:	50	F:	17	STD	D	Downstream photo of riffle section.
COMMENTS						
Section				Comments		
CHANNEL				Overall habitat quality is moderate. All fish captured were fry. Possibly lacking in juvenile/adult rearing during these low flow conditions? Fish captured downstream of culvert (perched outlet 90 cm).		
CHANNEL				Fish Bearing.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3520

WATERBODY									
Gazetted Name:					Local:				
Project Code: 460-000000-00000-00000-0000-000-000-000-000-0									
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000									
Waterbody ID:					ILP Map #: 093L.036		ILP #: 3520		Reach #: 1 -
Project ID: 5270					Lake/Stream: S		Lake From Date:		

Fish Permit #: 145269	Date: 2002/09/02	To: 2002/09/02	Agency: C172	Crew: JH/TT	Resample: ☐
-----------------------	------------------	----------------	--------------	-------------	------------------------------------

SITE / METHOD											
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment
505	093L.056	50505				GPU	EF	1	8	80	C

A. GEAR SETTINGS							
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
505	EF 1	1	2002/09/02	12:00	2002/09/02	12:27	

C. ELECTROFISHER SPECIFICATIONS											
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
505	EF	1	1	O	132	125.0	1.0	400	I	5	SMITH ROOT 12B

FISH SUMMARY									
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment
505	EF	1	1	RB	F	0+	10 30 40	R	

INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#/Age				Str/Smpl#				
505	EF	1	1	RB	30		U	U									
505	EF	1	1	RB	30		U	U									
505	EF	1	1	RB	40		U	U									
505	EF	1	1	RB	40		U	U									
505	EF	1	1	RB	40		U	U									
505	EF	1	1	RB	40		U	U									
505	EF	1	1	RB	35		U	U									
505	EF	1	1	RB	35		U	U									
505	EF	1	1	RB	30		U	U									
505	EF	1	1	RB	35		U	U									



Site #505, Culvert outlet.
Roll #50, Frame #15, Date: 2002/09/03



Site #505, Upstream at fish capture site, small 60 cm / 60 cm pool.
Roll #50, Frame #16, Date: 2002/09/03



Site #505, Downstream photo of riffle section.
Roll #50, Frame #17, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3524

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3524		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.639465.6023719				Sample Type: Biased			
Length (km): .85		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 1.5		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 660		Islands: NONE		Riparian Vegetation: Not Specified					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 506		Field UTM 9.639627.6023374		Agency: C172		Crew: JH/TT		Date: 2002/09/03	
Site Length (m): 100		GIS UTM 9.639521.6023086		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒ Intermittent: ☐									
Dewatered: ☐ Tribs.: ☐									
Stage: Low ☐		Avg		Min		Max		#	
Med ☐		Channel Width (m): 0.00		0		0		0	
High ☐		Wetted Width (m): 0.00		0		0		0	
Temp (C):		Bankfull Depth (m): 0.00		0		0		0	
pH:									
Conductivity:									
Turbidity: Turbid ☐		Avg		Min		Max		#	
Low ☐		Gradient %: 1.00		1		1		2	
Moderate ☐		Pool Depth (m): 0.00		0		0		0	
Clear ☐									
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1	
Coupling:				INDICATORS		B2		B3	
Confinement:				C1		C2		C3	
Morphology:				C4		C5		S1	
				C6		S2		S3	
				S4		S5			
COVER									
Total Cover:		Type:		SWD		LWD		B	
LWD:		Amount:							
LWD Dist:		Location: P/S/O:							
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg:		Stage:							
Left Bank: Rip.Veg:		Stage:							
		Instream Veg: None ☐		Algae ☐		Moss ☐		Vascular ☐	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000

Reach # 2.0 ILP Map # 093L.036 ILP # 3524 Site # 506

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000
ILP Map#: 093L.036 ILP #: 3524 NID Map #: 093L.036 NID #: 50506 Reach #: 2.0 Site #: 506
Field UTM (Z.E.N): 9.639627.6023374 Method: GPU Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.639521.6023086 Ref. Name:
Date: 2002/09/03 Time: 12:45 Agency: C172 Crew: JH/TT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):												0.00	Method I:	1.0	1.0	C	1.00
Wetted Width (m):												0.00	Method II:				
Pool Depth (m):												0.00					

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

WATER

EMS: Req #: Method: Cond.: Method:
Temp: Method: Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
pH: Method:
Flood Signs: Method:

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: ☐
Coupling: ☐
Confinement: ☐
FSZ: ☐ Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name Comments
Other No fish habitat due to No Visible Channel.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 50 F: 18 STD U			Upslope shot of NCD characteristics.
R: 50 F: 19 STD D			Downslope shot of NCD characteristics.

COMMENTS

Section Comments

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.036	3524	506

COMMENTS	
Section	Comments
CHANNEL	NCD with minimal connection between seasonally wetted depression.
CHANNEL	Seasonally flooded depressions with no connection through road.



Site #506, Upslope shot of NCD characteristics.
Roll #50, Frame #18, Date: 2002/09/03



Site #506, Downslope shot of NCD characteristics.
Roll #50, Frame #19, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

3.0 093L.036 3525

STREAM REFERENCING																																												
Gazetted Name:						Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.036		ILP #:		3525																																		
REACH																																												
Reach #: 3.0		UTM(Zone/East/North): 9.638277.6022819				Sample Type: Biased																																						
Length (km): 1.06		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS																																						
Gradient (%): 8.6		Confinement: Occasionally Conf		Order: 1		Open water: Absent																																						
US Elev (m): 781		Islands: NONE		Riparian Vegetation: Deciduous																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 507		Field UTM 9.638936.6022536		Agency: C172		Crew: JH/TT		Date: 2002/09/03																																				
Site Length (m): 185		GIS UTM 9.639061.6022563		Agency Name: Triton Environmental Consultants (Terrace)																																								
CHANNEL																																												
No Vis.Ch.: ☐		Intermittent: ☒		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Channel Width (m):</td> <td>1.12</td> <td>0.7</td> <td>1.5</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.60</td> <td>0.5</td> <td>0.7</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m):	1.12	0.7	1.5	6	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.60	0.5	0.7	3	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Gradient %:</td> <td>15.25</td> <td>12</td> <td>20</td> <td>4</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>				Avg	Min	Max	#	Gradient %:	15.25	12	20	4	Pool Depth (m):	0.00	0	0	0
Avg	Min	Max	#																																									
Channel Width (m):	1.12	0.7	1.5	6																																								
Wetted Width (m):	0.00	0	0	0																																								
Bankfull Depth (m):	0.60	0.5	0.7	3																																								
Avg	Min	Max	#																																									
Gradient %:	15.25	12	20	4																																								
Pool Depth (m):	0.00	0	0	0																																								
Dewatered: ☐		Tribes: ☐																																										
Stage: Low ☒		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐																																				
Med ☐								Moderate ☐ Clear ☐																																				
High ☐																																												
MORPHOLOGY																																												
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐																																		
Subdominant: Gravels		D (cm): 10.00								Braid ☐																																		
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS																																								
Coupling: Partially Coupled				<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>								O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐																			
O1	B1	B2	B3	D1	D2	D3																																						
☐	☐	☐	☐	☐	☐	☐																																						
Confinement: Occasionally Confine				<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td><td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>								C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐													
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																			
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																			
Morphology: CP Cascade Pool																																												
COVER																																												
Total Cover:		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> <tr> <td>Amount:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Location: P/S/O:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>										Type:	SWD	LWD	B	U	DP	OV	IV	Amount:								Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐									
Type:	SWD	LWD	B	U	DP	OV	IV																																					
Amount:																																												
Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐																																					
LWD: None		FSZ: ☐																																										
LWD Dist: Not Applicable																																												
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐																																		
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐																																		
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage		Crown Closure 21-40%																																								
Left Bank: Rip.Veg:		Stage: Pole-sapling stage		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐																																								
FEATURES																																												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)																																	
093L.036	55506	CV	.5	T	10	T	R: 50	F: 21	L:	#:	9.638977.6022																																	
Comments: Slightly perched.																																												

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3525 Site 507

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3525 NID Map #: 093L.036 NID #: 50507 Reach #: 3.0 Site #: 507
Field UTM (Z.E.N): 9.638936.6022536 Method: GPU Site Lg: 185 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.639061.6022563 Ref. Name:
Date: 2002/09/03 Time: 14:00 Agency: C172 Crew: JH/TT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	1.10	0.90	0.70	1.30	1.20	1.50					1.12	Method I:	15.0	12.0	C 15.25
Wetted Width (m):	MS											0.00	Method II:	20.0	14.0	C
Pool Depth (m):	MS											0.00				

Wb Depth: .5 .6 .7 Avg: 0.60 Method: T Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☒
Dw: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

LWD: N DIST: NA

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Req #: Method: T4 Cond.: Method: S3
Temp: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
pH: Method: GE
Flood Signs: None

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 10.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	55506	CV	.5	T	10	T	R: 50 F: 21 L:	#:	9.638977.6022569	GIS
Comments: Slightly perched.										

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000	3.0	093L.036	3525	507

PHOTOS					
Photo				Foc Lg	Dir
R:	50	F:	20	STD	U
R:	50	F:	21	STD	U
R:	50	F:	22	STD	D
R:	50	F:	23	STD	U
COMMENTS					
Section				Comments	
CHANNEL				CV no priority.	
CHANNEL				~150 m downstream 20% gradient, S6 upstream.	



Site #507, Upstream photo of habitat within site.
Roll #50, Frame #20, Date: 2002/09/03



Site #507, CV outlet.
Roll #50, Frame #21, Date: 2002/09/03



Site #507, Downstream photo of habitat within site.
Roll #50, Frame #22, Date: 2002/09/03



Site #507, CV outlet.
Roll #50, Frame #23, Date: 2002/09/03

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3528

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000

Project Code: 5270

WATERSHED

Reach Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map #: 093L.036 ILP #: 3528 Reach #: 2.0 NID Map #: 093L.036 NID #: 11557
Air Photos Names UTM(Zone/East/North/Method)
LINE: BCC98341 Gaz.: 9.637258.6022364 GIS
#: 0 Local: Sample Type: B Wetland: ☐

SURVEY INFO

Date: 2002/08/27 Agency: C172 Crew: SG/SH

ATTRIBUTES

Length (km): 1.16 Gradient: 4.57 Setting: VF DISTURBANCE O1 B1 B2 B3 D1 D2 D3
DS Elev.: 757 Order: 3 Open water: A INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐
US Elev: 810 Magnitude: 11 Confinement: OC C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
BGC Zone: SBS Coupling: DC ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Valley Flat: B C/D: C Islands: N
Active Floodplain Visible: ☐ Est. Width: Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR
Channel Pattern: SI Mass Movement: L Exposed/Eroded: NS
Riparian Veg.: NS Landuse: NS

MAPS

Map Type	Map #	Year
TRIM	093L.036	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3528

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000															
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3528		Reach #: 2 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date:		2002/09/04		To:		2002/09/04		Agency: C172			
										Crew: JH/DT		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment				
508	093L.036	50508	9	637532	6071812	GPU	EF 1	6	80	C					
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
508	EF	1	1	2002/09/04	07:30	2002/09/04	08:15								
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
508	EF	1	1	O	245	100.0	1.5	500	I	5	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
508	EF	1	1	RB	J	1+	5	60	90	R					
508	EF	1	1	RB	F	0+	5	30	40	R					
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
508	EF	1	1	RB	30		U	U							
508	EF	1	1	RB	35		U	U							
508	EF	1	1	RB	35		U	U							
508	EF	1	1	RB	35		U	U							
508	EF	1	1	RB	40		U	U							
508	EF	1	1	RB	60		U	U							
508	EF	1	1	RB	90		U	U							
508	EF	1	1	RB	80		U	U							
508	EF	1	1	RB	80		U	U							
508	EF	1	1	RB	70		U	U							
COMMENTS															
Section				Comments											
WATERBODY				Photo 50 - 23 CV outlet (1.2 m x 20 m)- good installation downset could be a little better, but water through at low flows. Not a priority.											

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3532

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.036			ILP #: 3532		
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.636295.6020755				Sample Type: Biased					
Length (km): 1.38		Coupling: Decoupled		Magnitude: 7		BGC Zone: SBS					
Gradient (%): 4.2		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 806		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 509		Field UTM 9.636689.6020949		Agency: C172		Crew: JH/DT		Date: 2002/09/04			
Site Length (m): 125		GIS UTM 9.636590.6020860		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 2.43		2.1		2.8		6	
Stage: Low ☐				Wetted Width (m): 1.80		1.3		2.1		6	
Med ☒				Bankfull Depth (m): 0.50		0.3		0.6		3	
High ☐		Temp (C): 7		pH: 7.4		Conductivity: 80					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Fines		D (cm): 10.00								Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Decoupled				INDICATORS		B3		D1		D2	
Confinement: Occasionally Confine				C1		C2		C3		C4	
Morphology: RP Riffle Pool				C5		S1		S2		S3	
				S4		S5					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		T		N		T		S	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☐		☒		☒	
										FSZ: ☐	
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage								Crown Closure	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage								21-40%	
										Instream Veg: None ☒	
										Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.036	55507	CV	.9	T	10	T	R:	51	F:	03	L:
Comments: Culvert wit extension slightly perched ~10 cm.									#:		9.636574.6020
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
509	EF	1	100	158 sec	500	RB	6	130	180		

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.036	3532	509

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	51	F:	01	STD	U	Pool with functioning LWD and good cover.
R:	51	F:	02	STD	D	Riffle / pool section with functioning LWD.
R:	51	F:	03	STD	U	Culvert outlet / extension.
COMMENTS						
Section				Comments		
CHANNEL				Good stream, perennial flows, beaver activity. Culvert perched slightly ~10 cm, juvenile / fry restriction - Low/Mod priority.		
CHANNEL				RB captured.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3532

WATERBODY																	
Gazetted Name:										Local:							
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0																	
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000																	
Waterbody ID:					ILP Map #: 093L.036					ILP #: 3532		Reach #: 1 -					
Project ID: 5270					Lake/Stream: S					Lake From Date:							
Fish Permit #:		145269		Date:		2002/09/04		To:		2002/09/04		Agency: C172		Crew: JH/DT	Resample: ☐		
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment						
509	093L.036	50509				GPU	EF 1	7	80	C							
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
509	EF	1	2002/09/04	08:25	2002/09/04	08:50											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
509	EF	1	1	O	158	100.0	2.0	500	I	5	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
509	EF	1	1	RB	J	2+	6	130	180	R							
INDIVIDUAL FISH DATA																	
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age			Str/Smpl#					
509	EF	1	1	RB	180	74.4	U	U	SC	53	2						
509	EF	1	1	RB	140		U	U									
509	EF	1	1	RB	160		U	U									
509	EF	1	1	RB	130		U	U									
509	EF	1	1	RB	150		U	U									
509	EF	1	1	RB	130		U	U									



Site #509, Pool with functioning LWD and good cover.
Roll #51, Frame #01, Date: 2002/09/04



Site #509, Riffle / pool section with functioning LWD.
Roll #51, Frame #02, Date: 2002/09/04



Site #509, Culvert outlet / extension.
Roll #51, Frame #03, Date: 2002/09/04

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3529

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.036 ILP #: 3529 Reach #: 1.0 NID Map #: 093L.036 NID #: 11565
Air Photos Names UTM(Zone/East/North/Method)
LINE: BCC98341__ 9.636491.6020380 GIS
#: 0 Gaz.: Local: Sample Type: B Wetland: ☐

SURVEY INFO

Date: 2002/08/27 Agency: C172 Crew: SG/SH

ATTRIBUTES

Length (km): 1.66 Gradient: 4.4 Setting: VF DISTURBANCE O1 B1 B2 B3 D1 D2 D3
DS Elev.: 737 Order: 2 Open water: A INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐
US Elev: 810 Magnitude: 3 Confinement: OC C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
BGC Zone: SBS Coupling: DC ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Valley Flat: B C/D: C Islands: N
Active Floodplain Visible: ☐ Est. Width: Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR
Channel Pattern: SI Mass Movement: L Exposed/Eroded: NS
Riparian Veg.: NS Landuse: NS

MAPS

Map Type	Map #	Year
TRIM	093L.036	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3529

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3529		Reach #: 1 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/04			To: 2002/09/04			Agency: C172		Crew: JH/DT		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
510	093L.036	50510	9	636746	6020805	GPU	EF	1	8	80	L		
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
510	EF	1	1	2002/09/04	09:00	2002/09/04	09:30						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
510	EF	1	1	O	426	150.0	5.0	600	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
510	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			Totally flooded by beaver activity at road both upstream and downstream. Natural stream characteristics difficult to distinguish due to beaver disturbance - access likely blocked/limited by downstream dams - extensive ponding.										

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.036	3526

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3526 Site # 511

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: Knapper Creek
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3526 NID Map #: 093L.036 NID #: 50511 Reach #: 3.0 Site #: 511
Field UTM (Z.E.N): 9.636985.6019798 Method: GPU Site Lg: 185 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.636966.6019801 Ref. Name:
Date: 2002/09/04 Time: 09:40 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	1.20	0.90	1.70	1.60	1.40	0.80					1.27	Method I:	4.0	6.0	C	5.00
Wetted Width (m):	T	1.00	0.90	1.20	1.40	1.00	1.20					1.12	Method II:			C	
Pool Depth (m):	T	0.10	0.20	0.10	0.10	0.30	0.20					0.17					

Wb Depth: .7 .6 .6 Avg: 0.63 Method: T Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	N	T	N	D	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 80 Method: S3
pH: 7.5 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 10.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	55508	CV	.9	T	10	T	R: 51 F: 04 L: #:		9.636939.6019780	GIS

Comments: 40 cm perched and kinked within.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Moderate - associated with cover and complexity, high LWD and high SWD.
Spawning Habitat	Low - associated with flows, access, cover, limited by small patches of gravels.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
3.0	093L.036	3526	511

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	51	F:	04	STD	U	Culvert outlet.
R:	51	F:	05	STD	U	Upstream photo of stream habitat.
R:	51	F:	06	STD	D	Downstream photo of stream habitat.
COMMENTS						
Section			Comments			
CHANNEL			DV captured upstream and downstream of culvert.			
CHANNEL			Good juvenile rearing stream. Coniferous cover is stabilizing stream channel. No beaver activity. Culvert 40 cm perch with kink within is Moderate/High priority.			
CHANNEL			CT/DV Captured.			

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3526

WATERBODY																	
Gazetted Name:										Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0																	
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																	
Waterbody ID:										ILP Map #: 093L.036		ILP #: 3526		Reach #: 3 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/04		To:		2002/09/04		Agency: C172		Crew: JH/DT		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment							
511	093L.036	50511				GPU EF 1	8	80	C								
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
511	EF	1	2002/09/04	09:40	2002/09/04	10:15											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
511	EF	1	1	O	255	185.0	1.0	600	I	5	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
511	EF	1	1	DV	J	2+	5	70	90	R							
511	EF	1	1	CT	J	2+	5	60	80	R							
INDIVIDUAL FISH DATA																	
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment		
								Str/Smpl#	Age		Str/Smpl#						
511	EF	1	1	CT	70		U	U									
511	EF	1	1	CT	80		U	U									
511	EF	1	1	CT	60		U	U									
511	EF	1	1	CT	80		U	U									
511	EF	1	1	CT	80		U	U									
511	EF	1	1	DV	90		U	U									
511	EF	1	1	DV	70		U	U									
511	EF	1	1	DV	80		U	U									
511	EF	1	1	DV	80		U	U									
511	EF	1	1	DV	90		U	U									



Site #511, Culvert outlet.
Roll #51, Frame #04, Date: 2002/09/04



Site #511, Upstream photo of stream habitat.
Roll #51, Frame #05, Date: 2002/09/04



Site #511, Downstream photo of stream habitat.
Roll #51, Frame #06, Date: 2002/09/04

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #
2.0 093L.036 3549

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.036			ILP #: 3549		
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.636961.6019269				Sample Type: Biased					
Length (km): .61		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 0.5		Confinement: Occasionally Conf		Order: 1		Open water: Present					
US Elev (m): 804		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 512		Field UTM ..		Agency: C172		Crew: JH/DT		Date: 2002/09/04			
Site Length (m): 165		GIS UTM 9.637172.6019685		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		0.68		0.5		0.9 6	
Stage: Low ☐				Wetted Width (m):		0.68		0.5		0.9 6	
Med ☒				Bankfull Depth (m):		0.43		0.4		0.5 3	
High ☐		Temp (C): 7		pH: 7.9		Conductivity: 70					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Fines		D95 (cm): 25.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Boulders		D (cm): 1.00								Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐	
Morphology: RP Riffle Pool						☐		☐		☐	
COVER											
Total Cover: Moderate		Type: SWD LWD B U DP OV IV									
LWD: Few		Amount: T T N S N D T									
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☐		☒		☐	
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Crown Closure 21-40%	
Left Bank: Rip.Veg:		Stage: Mature forest								Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☒	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.036	55509	CV	.6	T	10	T	R: 51	F: 07	L:	#:	9.637167.6019
Comments: Perched 5 cm											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
512	EF	1	165	236 sec	600	CT	5	70	80		

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3549 Site # 512

PROJECT																																																																														
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																																																																				
Stream Name (gaz.): BULKLEY RIVER																																																																														
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name:																																																																				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
ILP Map#: 093L.036			ILP #: 3549			NID Map #: 093L.036			NID #: 50512			Reach #: 2.0		Site #: 512																																																																
Field UTM (Z.E.N): ..					Method:					Site Lg: 165		Method: MAP		Access: V2																																																																
GIS UTM (Z.E.N): 9.637172.6019685										Ref. Name:																																																																				
Date: 2002/09/04			Time: 10:15			Agency: C172			Crew: JH/DT			Fish Crd?: ☒		Incomplete: ☐																																																																
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>0.70</td> <td>0.60</td> <td>0.80</td> <td>0.90</td> <td>0.50</td> <td>0.60</td> <td></td> <td></td> <td></td> <td></td> <td>0.68</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>0.70</td> <td>0.60</td> <td>0.80</td> <td>0.90</td> <td>0.50</td> <td>0.60</td> <td></td> <td></td> <td></td> <td></td> <td>0.68</td> </tr> <tr> <td>Pool Depth (m):</td> <td>T</td> <td>0.10</td> <td>0.10</td> <td>0.20</td> <td>0.20</td> <td>0.10</td> <td>0.10</td> <td></td> <td></td> <td></td> <td></td> <td>0.13</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	T	0.70	0.60	0.80	0.90	0.50	0.60					0.68	Wetted Width (m):	T	0.70	0.60	0.80	0.90	0.50	0.60					0.68	Pool Depth (m):	T	0.10	0.10	0.20	0.20	0.10	0.10					0.13	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>4.0</td> <td>3.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td></td> <td></td> <td>C</td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	4.0	3.0	C	Method II:			C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	T	0.70	0.60	0.80	0.90	0.50	0.60					0.68																																																																		
Wetted Width (m):	T	0.70	0.60	0.80	0.90	0.50	0.60					0.68																																																																		
Pool Depth (m):	T	0.10	0.10	0.20	0.20	0.10	0.10					0.13																																																																		
	Gadient %	Mtd	Avg																																																																											
Method I:	4.0	3.0	C																																																																											
Method II:			C																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Wb Depth:</th> <th>.4</th> <th>.4</th> <th>.5</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Wb Depth:	.4	.4	.5					Avg: 0.43		Method: T		Stage: L ☐ M ☒ H ☐		No Vis.Ch.: ☐ Intermittent: ☐		Dw: ☐ Tribs.: ☐																																																		
Wb Depth:	.4	.4	.5																																																																											
COVER Total: M																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>N</td> <td>S</td> <td>N</td> <td>D</td> <td>T</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☒</td> </tr> </tbody> </table>															Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	T	N	S	N	D	T	Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒																																								
Type:	SWD	LWD	B	U	DP	OV	IV																																																																							
Amount:	T	T	N	S	N	D	T																																																																							
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒																																																																							
CROWN CLOSURE 2 21-40%																																																																														
INSTREAM VEG: N ☐ A ☐ M ☐ V ☒																																																																														
LWD: F LB SHP: U Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: M STG: MF RB SHP: U Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: M STG: MF																																																																														
WATER																																																																														
EMS: Temp: 7 pH: 7.9 Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: 70 Turb.: T ☐ M ☐ L ☐ C ☒ Method: S3 Method: GE																																																																														
MORPHOLOGY																																																																														
Bed Material: Dominant: F D95: 25.0 Pattern: SI Islands: N Coupling: DC Confinement: OC FSZ: ☐ Subdom: B Morph: RP DISTURBANCE INDICATORS C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																														
FEATURES																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NID Map</th> <th>NID</th> <th>Type</th> <th>Hgt</th> <th>Method</th> <th>Lg</th> <th>Method</th> <th>Photo</th> <th>AirPhoto</th> <th>UTM (Z/E/N)</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>093L.036</td> <td>55509</td> <td>CV</td> <td>.6</td> <td>T</td> <td>10</td> <td>T</td> <td>R: 51 F: 07 L:</td> <td>#:</td> <td>9.637167.6019669</td> <td>GIS</td> </tr> </tbody> </table>															NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method	093L.036	55509	CV	.6	T	10	T	R: 51 F: 07 L:	#:	9.637167.6019669	GIS																																										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method																																																																				
093L.036	55509	CV	.6	T	10	T	R: 51 F: 07 L:	#:	9.637167.6019669	GIS																																																																				
Comments: Perched 5 cm																																																																														
HABITAT QUALITY																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>OverWinter Habitat</td> <td>None observed in site.</td> </tr> <tr> <td>Rearing Habitat</td> <td>Associated with pools / cover / access.</td> </tr> <tr> <td>Spawning Habitat</td> <td>None observed in site.</td> </tr> </tbody> </table>															Name	Comments	OverWinter Habitat	None observed in site.	Rearing Habitat	Associated with pools / cover / access.	Spawning Habitat	None observed in site.																																																								
Name	Comments																																																																													
OverWinter Habitat	None observed in site.																																																																													
Rearing Habitat	Associated with pools / cover / access.																																																																													
Spawning Habitat	None observed in site.																																																																													

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.036	3549	512

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	51	F:	07	STD	U	Culvert outlet.
R:	51	F:	08	STD	U	Habitat within stream.
COMMENTS						
Section			Comments			
CHANNEL			No fish captured upstream of culvert 50 m site. Culvert perched 5 cm at outlet.			
CHANNEL			Boulder patches within stream provide some cover / stability.			
CHANNEL			CT captured.			

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3549

WATERBODY																
Gazetted Name:										Local:						
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0																
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000																
Waterbody ID:										ILP Map #: 093L.036						
Project ID: 5270										ILP #: 3549 Reach #: 2 -						
										Lake/Stream: S Lake From Date:						
Fish Permit #: 145269					Date: 2002/05/04			To: 2002/05/04			Agency: C172		Crew: JH/DT		Resample: ☐	
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment						
512	093L.036	50512				GPU	EF	1	7	70	C					
A. GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
512	EF	1	2002/05/04	10:15	2002/05/04	11:40										
C. ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model					
512	EF	1	1	O	236	165.0	1.0	600	I	5	SMITH ROOT	12B				
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment							
512	EF	1	1	CT	J	2+	5	70	80	R						
INDIVIDUAL FISH DATA																
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age		Str/Smpl#					
512	EF	1	1	CT	80		U	U								
512	EF	1	1	CT	70		U	U								
512	EF	1	1	CT	70		U	U								
512	EF	1	1	CT	80		U	U								
512	EF	1	1	CT	80		U	U								



Site #512, Culvert outlet.
Roll #51, Frame #07, Date: 2002/09/04



Site #512, Habitat within stream.
Roll #51, Frame #08, Date: 2002/09/04

4.0	093L.026	3675
-----	----------	------

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000

Reach # 4.0 ILP Map # 093L.026 ILP # 3675 Site 513

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000
ILP Map#: 093L.026 ILP #: 3675 NID Map #: 093L.026 NID #: 50513 Reach #: 4.0 Site #: 513
Field UTM (Z.E.N): 9.636762.6018056 Method: GPU Site Lg: 110 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.636758.6018651 Ref. Name:
Date: 2002/09/04 Time: 10:50 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):												0.00
Wetted Width (m):												0.00
Pool Depth (m):												0.00

	Gadient %		Mtd	Avg
Method I:	1.0	1.0	C	1.00
Method II:				

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐

No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER

Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

RIP:

STG:

STG:

WATER

EMS: Req #: Method: Cond.: Method:
Temp: Method: Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
pH: Method:
Flood Signs: Method:

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: ☐
Coupling: ☐
Confinement: ☐
FSZ: ☐ Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 51 F: 09	STD	U	Upstream photo of willow/alder swale.
R: 51 F: 10	STD	D	Downstream photo of NCD like characteristics, seasonally wetted depression.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000-000

Reach #4.0

ILP Map #093L.026

ILP #3675

Site513

COMMENTS	
Section	Comments
CHANNEL	Highly ephemeral no leaf / litter removal through season. Meltwater channel.
CHANNEL	Seasonally wetted depressions connected by subsurface / surface connections.
CHANNEL	NCD.



Site #513, Upstream photo of willow/alder swale.
Roll #51, Frame #09, Date: 2002/09/04



Site #513, Downstream photo of NCD like characteristics, seasonally wetted depression.
Roll #51, Frame #10, Date: 2002/09/04

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L026	3675

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3675 Site 514

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3675 NID Map #: 093L.026 NID #: 50514 Reach #: 1.0 Site #: 514
Field UTM (Z.E.N): .. Method: Site Lg: 160 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.638626.6017752 Ref. Name:
Date: 2002/09/04 Time: 12:00 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	1.30	1.50	1.20	1.70	1.60	1.50					1.47	Method I:	17.0	18.0	C	17.50
Wetted Width (m):	T	0.60	0.30				0.50					0.47	Method II:			C	
Pool Depth (m):	T	0.10	0.10				0.10					0.10					

Wb Depth: .5 .4 .6 Avg: 0.50 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total: T

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	T	S	N	N	D	N
Loc: P/S/O:	☐	☒	☒	☐	☐	☒	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.4 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 60.0 D (cm): 30.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None - interstitial flows, gradient - small drops and no resting.
Spawning Habitat	None - substrates too coarse, gradients too steep, no resting, no pools, no riffles or runs.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 51 F: 11	STD	U	Upstream photo of boulder / high gradient section.
R: 51 F: 12	STD	D	Downstream photo of boulder / high gradient section.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.026	3675	514

COMMENTS	
Section	Comments
CHANNEL	No rearing. Interstitial flows, gradient in excess of 20% likely downstream. Highly ephemeral / flashy.
CHANNEL	S6 small .5 - 1.0 m cobble cascade over cobble in 17 - 18% section.

FDIS Fish Card

Morice North Planning Area

Watershed Code:	000-000000-00000-00000-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #
		1.0	093L.026	3675

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.026				ILP #:		3675		Reach #: 1 -	
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #:			145269		Date:		2002/09/04		To:		2002/09/04		Agency: C172
									Crew: JH/DT		Resample: ☐		
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
514	093L.026	50514				GPU	EF 1	7	40	C			
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
514	EF	1	2002/09/04	12:00	2002/09/04	12:30							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
514	EF	1	1	O	67	100.0	1.0	600	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
514	EF	1	1	NFC		0							



Site #514, Upstream photo of boulder / high gradient section.
Roll #51, Frame #11, Date: 2002/09/04



Site #514, Downstream photo of boulder / high gradient section.
Roll #51, Frame #12, Date: 2002/09/04

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.036 3530

STREAM REFERENCING													
Gazetted Name:						Local Name:							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.036		ILP #: 3530					
REACH													
Reach #: 2.0		UTM(Zone/East/North): 9.635745.6020327				Sample Type: Biased							
Length (km): .68		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS							
Gradient (%): 2.1		Confinement: Occasionally Conf		Order: 1		Open water: Absent							
US Elev (m): 827		Islands: NONE		Riparian Vegetation: Not Specified									
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified													
SITE													
Site #: 515		Field UTM 9.635997.6020204		Agency: C172		Crew: JH/DT		Date: 2002/09/04					
Site Length (m): 100		GIS UTM 9.636010.6020220		Agency Name: Triton Environmental Consultants (Terrace)									
CHANNEL													
No Vis.Ch.: ☒ Intermittent: ☐						Avg		Min		Max		#	
Dewatered: ☐ Tribs.: ☐						Channel Width (m):		0.00		0		0	
Stage: Low ☐						Wetted Width (m):		0.00		0		0	
Med ☐						Bankfull Depth (m):		0.00		0		0	
High ☐													
Temp (C):		pH:		Conductivity:									
						Turbidity: Turbid ☐ Low ☐							
						Moderate ☐ Clear ☐							
MORPHOLOGY													
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐									
Subdominant:		D (cm):										Braid ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1		B2		B3	
Coupling:				INDICATORS		☐		☐		☐		☐	
Confinement:				C1		C2		C3		C4		C5	
Morphology:				S1		S2		S3		S4		S5	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	
				☐		☐		☐		☐		☐	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3530 Site # 515

PROJECT																																										
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																																
Stream Name (gaz.): BULKLEY RIVER																																										
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																										
WATERSHED																																										
Gazetted Name:										Local Name:																																
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																										
ILP Map#: 093L.036		ILP #: 3530		NID Map #: 093L.036		NID #: 50515		Reach #: 2.0		Site #: 515																																
Field UTM (Z.E.N): 9.635997.6020204				Method: GPU		Site Lg: 100		Method: MAP		Access: V2																																
GIS UTM (Z.E.N): 9.636010.6020220						Ref. Name:																																				
Date: 2002/09/04			Time: 13:00		Agency: C172		Crew: JH/DT		Fish Crd?: ☐		Incomplete: ☐																															
CHANNEL																																										
										<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Gradient %</th> <th colspan="2">Mtd</th> <th colspan="2">Avg</th> </tr> </thead> <tbody> <tr> <td colspan="2">Method I:</td> <td colspan="2">1.0</td> <td colspan="2">1.0</td> <td colspan="2">C</td> <td colspan="2">1.00</td> </tr> <tr> <td colspan="2">Method II:</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> </tbody> </table>							Gradient %		Mtd		Avg		Method I:		1.0		1.0		C		1.00		Method II:									
		Gradient %		Mtd		Avg																																				
Method I:		1.0		1.0		C		1.00																																		
Method II:																																										
Channel Width (m):												0.00																														
Wetted Width (m):												0.00																														
Pool Depth (m):												0.00																														
Wb Depth:						Avg: 0.00		Method: MS		Stage: L ☐ M ☐ H ☐		No Vis.Ch.: ☒ Intermittent: ☐ Dw: ☐ Tribs.: ☐																														
COVER																																										
Total:																																										
Type:		SWD		LWD		B		U		DP		OV																														
Amount:																																										
Loc: P/S/O:		☐		☐		☐		☐		☐		☐																														
LWD:				DIST:																																						
LB SHP:				RB SHP:																																						
Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐				Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐																																						
RIP:				RIP:																																						
STG:				STG:																																						
WATER																																										
EMS:					Method:					Req #:																																
Temp:					Method:					Cond.:																																
pH:					Method:					Turb.: T ☐ M ☐ L ☐ C ☐																																
Flood Signs:					Method:					Method: GE																																
MORPHOLOGY																																										
Bed Material:		Dominant:		Subdom:		O1		B1		B2		B3																														
D95:		D (cm):		Morph:		D1		D2		D3																																
Pattern:						☐		☐		☐		☐																														
Islands:						C1		C2		C3		C4																														
Coupling:						C5		S1		S2		S3																														
Confinement:						S4		S5		☐		☐																														
FSZ: ☐						Bars: N ☐		SIDE ☐		DIAG ☐		MID ☐																														
						SPAN ☐		BR ☐																																		
FEATURES																																										
NID Map		NID		Type		Hgt		Method		Lg		Method																														
093L.036		55510		CV		.5		T		10		T																														
Photo		AirPhoto		UTM (Z/E/N)		Method																																				
R: 51 F: 14 L:		#:		9.636018.6020209		GIS																																				
Comments: Provides adequate drainage.																																										
HABITAT QUALITY																																										
Name		Comments																																								
OverWinter Habitat		None.																																								
Rearing Habitat		None.																																								
Spawning Habitat		None.																																								

FDIS Site Card

Morice North Planning Area

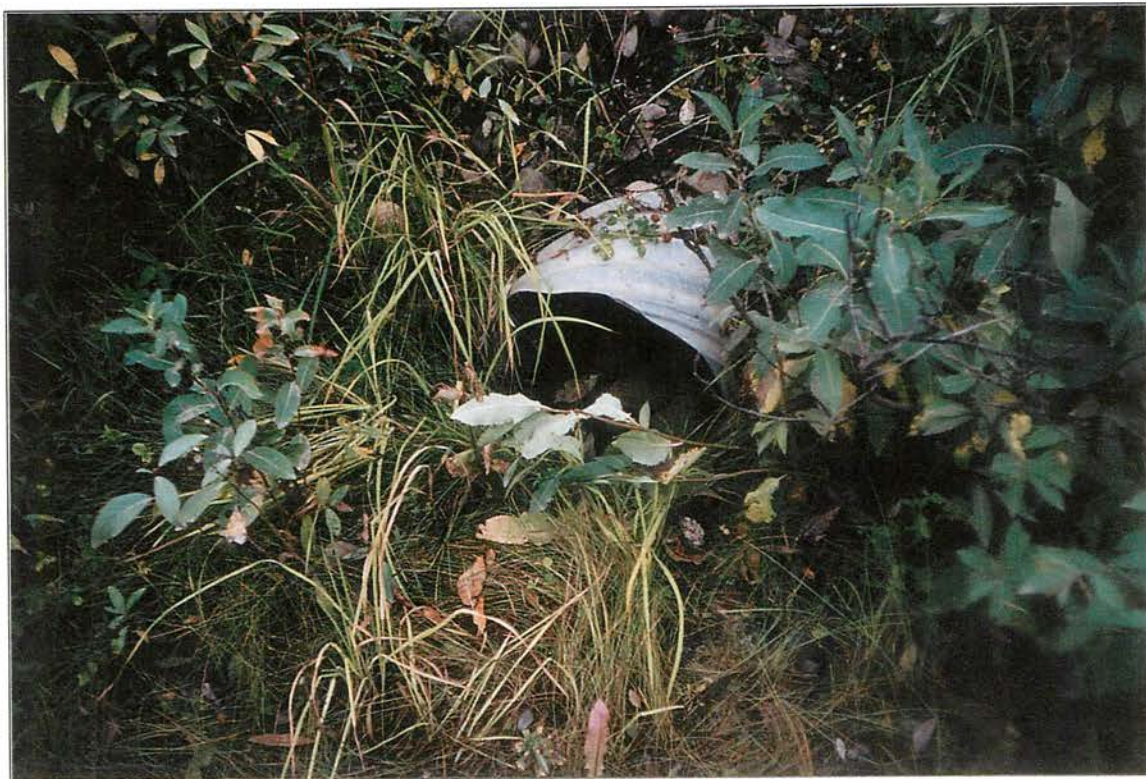
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.036	3530	515

P H O T O S					
Photo		Foc Lg	Dir	Comments	
R:	51	F: 13	STD	U	Upstream photo of willow / alder swale, NCD characteristics.
R:	51	F: 14	STD	D	Downstream photo of culvert providing adequate drainage for upstream seepage.
C O M M E N T S					
Section		Comments			
CHANNEL		No Visible Channel with some NCD characteristics. Willow swale with some isolated depressions that may collect water during increased runoff conditions / snow melt.			



Site #515, Upstream photo of willow / alder swale, NCD characteristics.
Roll #51, Frame #13, Date: 2002/09/04



Site #515, Downstream photo of culvert providing adequate drainage for upstream seepage.
Roll #51, Frame #14, Date: 2002/09/04

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.036 ILP # 3529 Site 516

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3529 NID Map #: 093L.036 NID #: 50516 Reach #: 3.0 Site #: 516
Field UTM (Z.E.N): 9.635550.6019704 Method: GPU Site Lg: 125 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.635569.6019695 Ref. Name:
Date: 2002/09/04 Time: 14:00 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	0.60	0.30	0.50	0.40	0.50	0.30					0.43	Method I:	3.0	2.0	C	2.50
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth: .2 .3 .4 Avg: 0.30 Method: T Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: NA O1 B1 B2 B3 D1 D2 D3
D95: 1.00 D (cm): 1.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None - no water, no access, numerous organic barriers, no pools, no cover.
Spawning Habitat	None - 100% fines, no access for adults or juveniles, no cover, limited scour, no water.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 51 F: 15 STD U			Upstream photo of scoured section barely classifiable as a stream.
R: 51 F: 16 STD D			Downstream photo of scoured section barely classifiable as a stream.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000	3.0	093L.036	3529	516

COMMENTS	
Section	Comments
CHANNEL	Further survey would likely confirm downstream discontinuity. Barely classifiable - slightly more than an NCD in places. Numerous organic barriers.
CHANNEL	S6 from surveyed section upstream.



Site #516, Upstream photo of scoured section barely classifiable as a stream.
Roll #51, Frame #15, Date: 2002/09/04



Site #516, Downstream photo of scoured section barely classifiable as a stream.
Roll #51, Frame #16, Date: 2002/09/04

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L026	3688

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.026			ILP #: 3688		
REACH											
Reach #: 1.0	UTM(Zone/East/North): 9.634861.6017107					Sample Type: Biased					
Length (km): .91	Coupling: Partially Couple			Magnitude: 2			BGC Zone: SBS				
Gradient (%): 9.8	Confinement: Frequently Confin					Order: 2			Open water: Absent		
US Elev (m): 782	Islands: NONE			Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 517		Field UTM ..		Agency: C172		Crew: JH/DT		Date: 2002/09/04			
Site Length (m): 600		GIS UTM: 9.635096.6016730		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐	Intermittent: ☐						Avg	Min	Max	#	
Dewatered: ☐	Tribes.: ☐										
Stage: Low ☒			Channel Width (m): 1.77				1.600	2.1	6	Avg	
Med ☐			Wetted Width (m): 0.82				0.5	1.200	6	Min	
High ☐			Bankfull Depth (m): 0.57				0.5	0.6	3	Max	
										#	
							Gradient %:		18.67	16	22
							Pool Depth (m):		0.13	0.100	0.200
							Turbidity: Turbid ☐		Low ☐		
							Moderate ☐		Clear ☒		
Temp (C): 8			pH: 7.4			Conductivity: 60					
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 70.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Boulders		D (cm): 30.00		Span ☐							
Channel Pattern: Sinuous		Islands: None		Braid ☐							
Coupling: Partially Coupled		DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3	
Confinement: Frequently Confined				☐	☐	☐	☐	☐	☐	☐	
Morphology: CP Cascade Pool				C1	C2	C3	C4	C5	S1	S2	S3
				☐	☐	☐	☐	☐	☐	☐	☐
COVER											
Total Cover: Moderate		Type:	SWD	LWD	B	U	DP	OV	IV		
LWD: Few		Amount:	S	S	T	N	N	D	N		
LWD Dist: Clumped		Location: P/S/O:	☒	☐	☒	☐	☐	☐	☒	☐	FSZ: ☐
Right Bank:	Shape: Undercut	Texture: Fines ☐	Gravel ☒	Cobble ☐	Boulder ☐	Rock ☐	Manmade ☐	Crown Closure			
Left Bank:	Shape: Undercut	Texture: Fines ☐	Gravel ☒	Cobble ☐	Boulder ☐	Rock ☐	Manmade ☐	21-40%			
Right Bank:	Rip.Veg: Mixed C/D	Stage: Mature forest									
Left Bank:	Rip.Veg:	Stage: Mature forest		Instream Veg: None ☒	Algae ☐	Moss ☐	Vascular ☐				
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.026	55511	FLD		GE	75	HC	R: 51	F: 20	L:	#:	9.635229.6016
Comments: Dewatered section.											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
517	EF	1	600	965 sec	700	NFC	0				

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3688 Site 517

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3688 NID Map #: 093L.026 NID #: 50517 Reach #: 1.0 Site #: 517
Field UTM (Z.E.N): .. Method: Site Lg: 600 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.635096.6016730 Ref. Name:
Date: 2002/09/04 Time: 14:50 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	1.70	2.10	1.60	1.90	1.70	1.60					1.77	Method I:	18.0	22.0	C 18.67
Wetted Width (m):	T	0.50	0.60	0.50	1.20	1.10	1.00					0.82	Method II:	16.0		C
Pool Depth (m):	T	0.10	0.20	0.20	0.10	0.10	0.10					0.13				

Wb Depth: .6 .5 .6 Avg: 0.57 Method: T Stage: L ☒ M ☐ H ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	S	T	N	N	D	N
Loc: P/S/O:	☒	☒	☒	☐	☐	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 60 Method: S3
pH: 7.4 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 70.0 D (cm): 30.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.026	55511	FLD		GE	75	HC	R: 51 F: 20 L: #:		9.635229.6016413	GIS

Comments: Dewatered section.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Associated with water only limited by pools, resting, rearing.
Spawning Habitat	Associated with gravels only - limited by pools, gradient, access, resting.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.026	3688	517

PHOTOS					
Photo				Foc Lg	Dir
R:	51	F:	17	STD	U
R:	51	F:	18	STD	D
R:	51	F:	19	STD	U
R:	51	F:	20	STD	U
COMMENTS					
Section				Comments	
CHANNEL				Non Fish Bearing - gradient, discontinuity and second pass sampling.	
CHANNEL				Throughout trib site patches of interstitial flows through large cobble / boulder substrates with gradients ranging from 14 to 18%.	
CHANNEL				Small pitches of 20% / 20 m throughout surveyed section. Dewatered at bottom of reach. Fans out into willow swale at confluence with downstream mainstem, ~50 m - 50 m horizontal distance >75 m wander distance.	

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.026	3688

Triton Environmental Consultants Ltd.



Site #517, Upstream photo of typical habitat within site.
Roll #51, Frame #17, Date: 2002/09/04



Site #517, Downstream photo of typical habitat within site.
Roll #51, Frame #18, Date: 2002/09/04



Site #517, Upstream photo of typical habitat within site.
Roll #51, Frame #19, Date: 2002/09/04



Site #517, Upstream photo of dewatered section.
Roll #51, Frame #20, Date: 2002/09/04

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.026	3681

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3681 Site # 518

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3681 NID Map #: 093L.026 NID #: 50518 Reach #: 1.0 Site #: 518
Field UTM (Z.E.N): .. Method: Site Lg: 130 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.636223.6016635 Ref. Name:
Date: 2002/09/04 Time: 17:00 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	0.50	0.60	0.40	0.60	0.50	0.30					0.48	Method I:	4.0	3.0	C 12.25
Wetted Width (m):	MS											0.00	Method II:	20.0	22.0	C
Pool Depth (m):	MS											0.00				

Wb Depth: .1 .1 .1 Avg: 0.10 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

3 41-70%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: NA O1 B1 B2 B3 D1 D2 D3
D95: 1.00 D (cm): 1.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 51 F: 21	STD	U	Channelized portion of stream with NCD characteristics.
R: 51 F: 22	STD	D	Channelized portion of stream with NCD characteristics.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.026	3681	518

COMMENTS	
Section	Comments
CHANNEL	Stream is barely classifiable as a stream. Alluvial deposits and scour present (barely). Gradient in excess of 20% downstream and no overwintering upstream = S6.



Site #518, Channelized portion of stream with NCD characteristics.
Roll #51, Frame #21, Date: 2002/09/04



Site #518, Channelized portion of stream with NCD characteristics.
Roll #51, Frame #22, Date: 2002/09/04

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.026 3706

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.026		ILP #:		3706	
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.636618.6011424				Sample Type:		Biased			
Length (km): 2.33		Coupling: Decoupled		Magnitude: 2		BGC Zone:		SBS			
Gradient (%): 3.0		Confinement: Occasionally Conf		Order: 2		Open water:		Absent			
US Elev (m): 751		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 519		Field UTM ..		Agency: C172		Crew: JH/DT		Date: 2002/09/05			
Site Length (m): 150		GIS UTM 9.637076.6009907		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		2.00		1.5		2.3 6	
Stage: Low ☒				Wetted Width (m):		0.00		0		0 0	
Med ☐				Bankfull Depth (m):		0.47		0.4		0.5 3	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 60.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Not Applicable		D (cm): 20.00								Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐	
Morphology: RP Riffle Pool						☐		☐		☐	
COVER											
Total Cover: None		Type: SWD LWD B U DP OV IV		Amount: N N N N N N N		Location: P/S/O: ☐		☐		FSZ: ☐	
LWD: None											
LWD Dist: Not Applicable											
Right Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure	
Left Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								1-20%	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage									
Left Bank: Rip.Veg:		Stage: Pole-sapling stage		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐							
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.026	55519	CV	1.2	T	10	T	R: 52	F: 07	L:	#:	9.637076.6009
Comments:											

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.026 ILP # 3706 Site # 519

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000
Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map #: 093L.026 ILP #: 3706 NID Map #: 093L.026 NID #: 50519 Reach #: 2.0 Site #: 519
Field UTM (Z.E.N): .. Method: Site Lg: 150 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.637076.6009907 Ref. Name:
Date: 2002/09/05 Time: 10:30 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	2.30	1.80	1.50	2.10	2.20	2.10					2.00	Method I:	4.0	3.0	C	3.50
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth: .5 .4 .5 Avg: 0.47 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total: N

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	N	N	N	N	N
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

LWD: N DIST: NA

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: pH: Flood Signs: None
Method: T4 Method: P2 Method: GE
Req #: Cond.: Turb.: T ☐ M ☐ L ☐ C ☐ Method: S3 Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: NA D95: 60.0 D (cm): 20.00 Morph: RP
Pattern: SI Islands: N Coupling: DC Confinement: OC FSZ: ☐
DISTURBANCE INDICATORS
O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.026	55519	CV	1.2	T	10	T	R: 52 F: 07 L:	#:	9.637076.6009902	GIS
Comments:										

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Low - limited complexity - no pools, riffles or runs.
Spawning Habitat	Low - associated with the presence of gravels only.

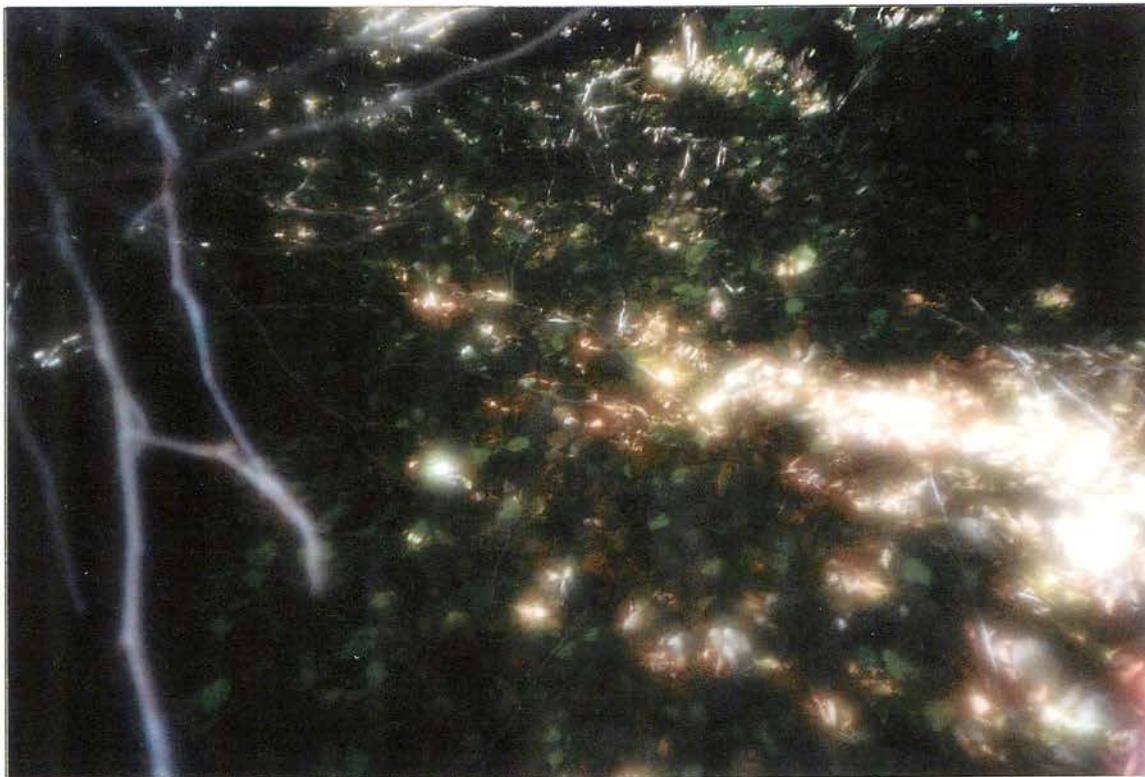
FDIS Site Card

Morice North Planning Area

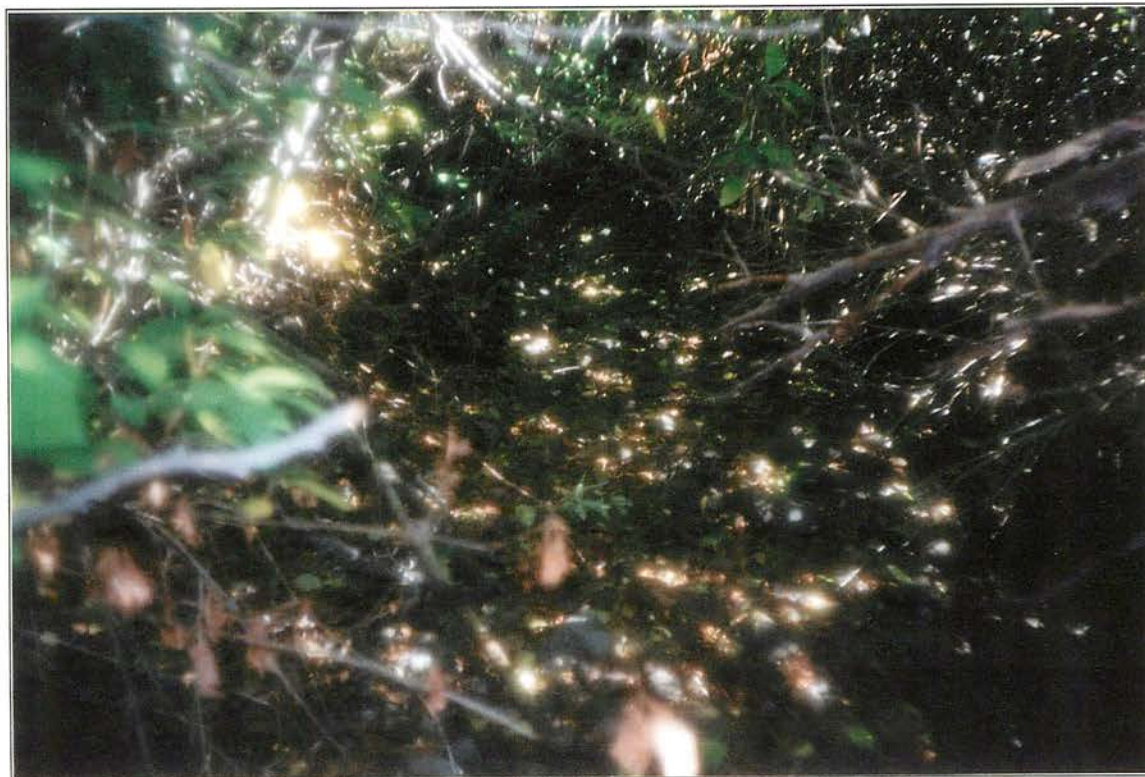
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.026	3706	519

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	52	F: 05	STD	U	Upstream photo of stream channel.
R:	52	F: 06	STD	D	Downstream photo of stream channel.
R:	52	F: 07	STD	U	Upstream photo at culvert outlet perched / expanded / slump / high velocity.
COMMENTS					
Section			Comments		
CHANNEL			Logged to banks. Some erosion at road and downstream culvert at crossing Moderate/High priority depending on fish capture.		
CHANNEL			Flashy high energy.		
CHANNEL			Inferred fish bearing.		



Site #519, Upstream photo of stream channel.
Roll #52, Frame #05, Date: 2002/09/05



Site #519, Downstream photo of stream channel.
Roll #52, Frame #06, Date: 2002/09/05



Site #519, Upstream photo at culvert outlet perched / expanded / slump / high velocity.
Roll #52, Frame #07, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3711

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.026		ILP #:		3711	
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.634014.6010086				Sample Type: Biased					
Length (km): .57		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 15.3		Confinement: Frequently Confin		Order: 1		Open water: Absent					
US Elev (m): 886		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 520		Field UTM 9.634866.6008500		Agency: C172		Crew: JH/DT		Date: 2002/09/05			
Site Length (m): 125		GIS UTM 9.634911.6008438		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 1.50		1.3		1.600		6	
Stage: Low ☒				Wetted Width (m): 0.48		0.300		0.9		6	
Med ☐				Bankfull Depth (m): 0.57		0.5		0.6		3	
High ☐		Temp (C): 7		pH: 6.9		Conductivity: 130					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Gravels		D (cm): 20.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine				C1		C2		C3		C4	
Morphology: RP Riffle Pool				C5		S1		S2		S3	
				☐		☐		☐		☐	
				☐		☐		☐		☐	
COVER											
Total Cover: Moderate		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		S		N		T		N	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☐		☒		☐	
										FSZ: ☐	
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage								Crown Closure	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage								21-40%	
										Instream Veg: None ☒	
										Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.026	55514	CV	1.2	GE	10	HC	R: 52	F: 08	L:	#:	UTM (Z/E/N)
Comments: Perched 30 cm no plunge pool.											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
520	EF	1	100	126 sec	600	NFC	0				

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3711 Site 520

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3711 NID Map #: 093L.026 NID #: 50520 Reach #: 1.0 Site #: 520
Field UTM (Z.E.N): 9.634866.6008500 Method: GPU Site Lg: 125 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.634911.6008438 Ref. Name:
Date: 2002/09/05 Time: 11:10 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	1.60	1.50	1.40	1.60	1.30	1.60					1.50	Method I:	6.0	5.0	C	5.50
Wetted Width (m):	T	0.30	0.50	0.90	0.50	0.40	0.30					0.48	Method II:			C	
Pool Depth (m):	T	0.10	0.10	0.10	0.30							0.15					

Wb Depth: .6 .5 .6 Avg: 0.57 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	N	T	N	D	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 130 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 20.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.026	55514	CV	1.2	GE	10	HC	R: 52 F: 08 L:	#:	9.634863.6008502	GIS

Comments: Perched 30 cm no plunge pool.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Low - associated with small shallow pools, cover, high percentage of riffles.
Spawning Habitat	Low - associated with gravels, limited by flows - highly ephemeral.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.026	3711	520

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	52	F: 08	STD	U	Perched culvert (30 cm) higher than average gradient ~6% (estimated visual observation).
R:	52	F: 09	STD	U	Upstream photo of riffle section.
R:	52	F: 10	STD	D	Downstream photo of functioning LWD, stable banks.
COMMENTS					
Section			Comments		
CHANNEL			Could potentially be break at confluence with Morice River.		
CHANNEL			Inferred fish bearing.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3711

WATERBODY																	
Gazetted Name:										Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0																	
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																	
Waterbody ID:					ILP Map #: 093L.026					ILP #: 3711		Reach #: 1 -					
Project ID: 5270					Lake/Stream: S					Lake From Date:							
Fish Permit #: 145269				Date: 2002/09/05				To: 2002/09/05				Agency: C172		Crew: JH/DT		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment							
520	093L.026	50520				GPU EF 1	7	130	C								
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
520	EF 1	1	2002/09/05	11:10	2002/09/05	11:36											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
520	EF	1	1	O	126	100.0	1.5	600	I	5	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
520	EF	1	1	NFC		0											



Site #520, Perched culvert (30 cm) higher than average gradient ~6% (estimated visual observation).
Roll #52, Frame #08, Date: 2002/09/05



Site #520, Upstream photo of riffle section.
Roll #52, Frame #09, Date: 2002/09/05



Site #520, Downstream photo of functioning LWD, stable banks.
Roll #52, Frame #10, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.026 ILP # 3710

STREAM REFERENCING															
Gazetted Name:					Local Name:										
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.026					ILP #: 3710					
REACH															
Reach #: 3.0		UTM(Zone/East/North): 9.634842.6010507					Sample Type: Biased								
Length (km): .59		Coupling: Partially Couple			Magnitude: 1			BGC Zone: SBS							
Gradient (%): 2.2		Confinement: Occasionally Conf			Order: 1			Open water: Absent							
US Elev (m): 817		Islands: NONE			Riparian Vegetation: Mixed C/D										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified															
SITE															
Site #: 521		Field UTM 9.634577.6010012			Agency: C172			Crew: JH/DT			Date: 2002/09/05				
Site Length (m): 185		GIS UTM 9.634588.6010132			Agency Name: Triton Environmental Consultants (Terrace)										
CHANNEL															
No Vis.Ch.: ☐		Intermittent: ☒				Avg		Min		Max		#			
Dewatered: ☐		Tribes.: ☐				Channel Width (m):		1.26		0.9		1.9		7	
Stage: Low ☐						Wetted Width (m):		0.00		0		0		0	
Med ☐						Bankfull Depth (m):		0.43		0.4		0.5		3	
High ☐						Temp (C):		pH:		Conductivity:		Turbidity.: Turbid ☐ Low ☐			
												Moderate ☐ Clear ☐			
MORPHOLOGY															
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐		Span ☐			
Subdominant: Gravels		D (cm): 15.00										Braid ☐			
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1		B2		B3		D3	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐		☐		☐	
Confinement: Occasionally Confine				C1		C2		C3		C4		C5		S5	
Morphology: CP Cascade Pool				☐		☐		☐		☐		☐		☐	
COVER															
Total Cover: None		Type:		SWD		LWD		B		U		DP		OV	
LWD: None		Amount:		N		N		N		N		N		N	
LWD Dist: Not Applicable		Location: P/S/O:		☐		☐		☐		☐		☐		FSZ: ☐	
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐		21-40%	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest													
Left Bank: Rip.Veg:		Stage: Mature forest												Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐	
FEATURES															
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto			UTM (Z/E/N)		
093L.026	55515	CV	.9	T	10	T	R: 52	F: 13	L:	#:			9.634577.6010		
Comments:		Perched culvert outlet.													

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.026 ILP # 3710 Site 521

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
Local Name: ILP Map #: 093L.026 ILP #: 3710 NID Map #: 093L.026 NID #: 50521 Reach #: 3.0 Site #: 521
Field UTM (Z.E.N): 9.634577.6010012 Method: GPU Site Lg: 185 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.634588.6010132 Ref. Name:
Date: 2002/09/05 Time: 12:30 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	T	1.60	0.90	0.90	1.20	1.10	1.90	1.20				1.26
Wetted Width (m):	MS											0.00
Pool Depth (m):	MS											0.00

	Gadient %		Mtd	Avg
Method I:	5.0	6.0	C	5.50
Method II:			C	

Wb Depth: .4 .5 .4 Avg: 0.43 Method: T Stage: L ☐ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☒
Dw: ☐ Tribs.: ☐

COVER Total: N

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	N	N	N	N	N
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE
2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: N DIST: NA

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 15.00 Morph: CP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.026	55515	CV	.9	T	10	T	R: 52 F: 13 L:	#:	9.634577.6010109	GIS

Comments: Perched culvert outlet.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Potential pools.
Spawning Habitat	Could potentially be associated with gravels.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP # Site
3.0 093L.026 3710 521

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	52	F:	11	STD	U	Upstream photo of dry channel.
R:	52	F:	12	STD	D	Downstream photo of dry channel.
R:	52	F:	13	STD	U	Culvert perched 50 cm.
R:	52	F:	14	STD	D	Extension at upstream end of culvert slightly perched.
COMMENTS						
Section			Comments			
CHANNEL			Inferred fish bearing. No barriers observed.			



Site #521, Upstream photo of dry channel.
Roll #52, Frame #11, Date: 2002/09/05



Site #521, Downstream photo of dry channel.
Roll #52, Frame #12, Date: 2002/09/05



Site #521, Culvert perched 50 cm.
Roll #52, Frame #13, Date: 2002/09/05



Site #521, Extension at upstream end of culvert slightly perched.
Roll #52, Frame #14, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

8.0 093L.026 3715

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.026			ILP #: 3715		
REACH											
Reach #: 8.0		UTM(Zone/East/North): 9.633235.6011171				Sample Type: Biased					
Length (km): .96		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 9.2		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 1004		Islands: NONE		Riparian Vegetation: Not Specified							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 522		Field UTM 9.633269.6010360		Agency: C172		Crew: JH/DT		Date: 2002/09/05			
Site Length (m): 100		GIS UTM 9.633141.6010323		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☒		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		0.00		0		0	
Stage: Low ☐				Wetted Width (m):		0.00		0		0	
Med ☐				Bankfull Depth (m):		0.00		0		0	
High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant:		D (cm):								Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1		B2	
Coupling:				INDICATORS		☐		☐		☐	
Confinement:				C1		C2		C3		C4	
Morphology:				C5		S1		S2		S3	
										S4	
										S5	
COVER											
Total Cover:		Type:		SWD		LWD		B		U	
LWD:		Amount:									
LWD Dist:		Location: P/S/O:		☐		☐		☐		☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg:		Stage:								Manmade ☐	
Left Bank: Rip.Veg:		Stage:								Crown Closure	
										Instream Veg: None ☐	
										Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.026	55516	CV	.5	T	10	T	R: 52	F: 16	L:	#:	UTM (Z/E/N)
											9.633141.6010
Comments:											

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 8.0 ILP Map # 093L.026 ILP # 3715 Site 522

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3715 NID Map #: 093L.026 NID #: 50522 Reach #: 8.0 Site #: 522
Field UTM (Z.E.N): 9.633269.6010360 Method: GPU Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.633141.6010323 Ref. Name:
Date: 2002/09/05 Time: 13:15 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):												0.00	Method I:	1.0	1.0	C	1.00
Wetted Width (m):												0.00	Method II:				
Pool Depth (m):												0.00					

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER

Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

RIP:

STG:

STG:

WATER

EMS: Req #: Method: Cond.: Method:
Temp: Method: Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
pH: Method:
Flood Signs: Method:

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: ☐
Coupling: ☐
Confinement: Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐
FSZ: ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.026	55516	CV	.5	T	10	T	R: 52 F: 16 L:	#:	9.633141.6010300	GIS

Comments:

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
8.0	093L.026	3715	522

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	52	F:	15	STD	D	NCD seasonally wetted depressions.
R:	52	F:	16	STD	U	Culvert providing adequate drainage.
COMMENTS						
Section			Comments			
CHANNEL			Seasonally wetted depressions.			
CHANNEL			NCD.			



Site #522, NCD seasonally wetted depressions.
Roll #52, Frame #15, Date: 2002/09/05



Site #522, Culvert providing adequate drainage.
Roll #52, Frame #16, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #
6.0 093L.026 3715

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3715		
REACH									
Reach #: 6.0		UTM(Zone/East/North): 9.633009.6010107				Sample Type: Biased			
Length (km): 1.42		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 7.8		Confinement: Frequently Confin		Order: 1		Open water: Absent			
US Elev (m): 915		Islands: NONE		Riparian Vegetation: Not Specified					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 523		Field UTM 9.632292.6009818		Agency: C172		Crew: JH/DT		Date: 2002/09/05	
Site Length (m): 150		GIS UTM 9.632276.6009777		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.50		0.400		0.600	
Stage: Low ☐				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.23		0.2		0.3	
High ☐		Temp (C):		pH:		Conductivity:			
								Turbidity.: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 2.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: RP Riffle Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: None		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		N		N	
LWD Dist: Not Applicable		Location: P/S/O:							
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage							
Left Bank: Rip.Veg:		Stage: Pole-sapling stage							
				Instream Veg: None ☐		Algae ☐		Moss ☐	
								Vascular ☒	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 6.0 ILP Map # 093L.026 ILP # 3715 Site 523

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.026 ILP #: 3715 NID Map #: 093L.026 NID #: 50523 Reach #: 6.0 Site #: 523
Field UTM (Z.E.N): 9.632292.6009818 Method: GPU Site Lg: 150 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.632276.6009777 Ref. Name:
Date: 2002/09/05 Time: 14:00 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	0.60	0.40	0.40	0.50	0.60	0.50					0.50	Method I:	5.0	4.0	C	4.50
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth: .3 .2 .2 Avg: 0.23 Method: T Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total: N

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	N	N	N	N	N
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

LWD: N DIST: NA

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 20.0 D (cm): 2.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 52 F: 17	STD	U	Upstream photo within high gradient section.
R: 52 F: 18	STD	D	Downstream photo within high gradient section.

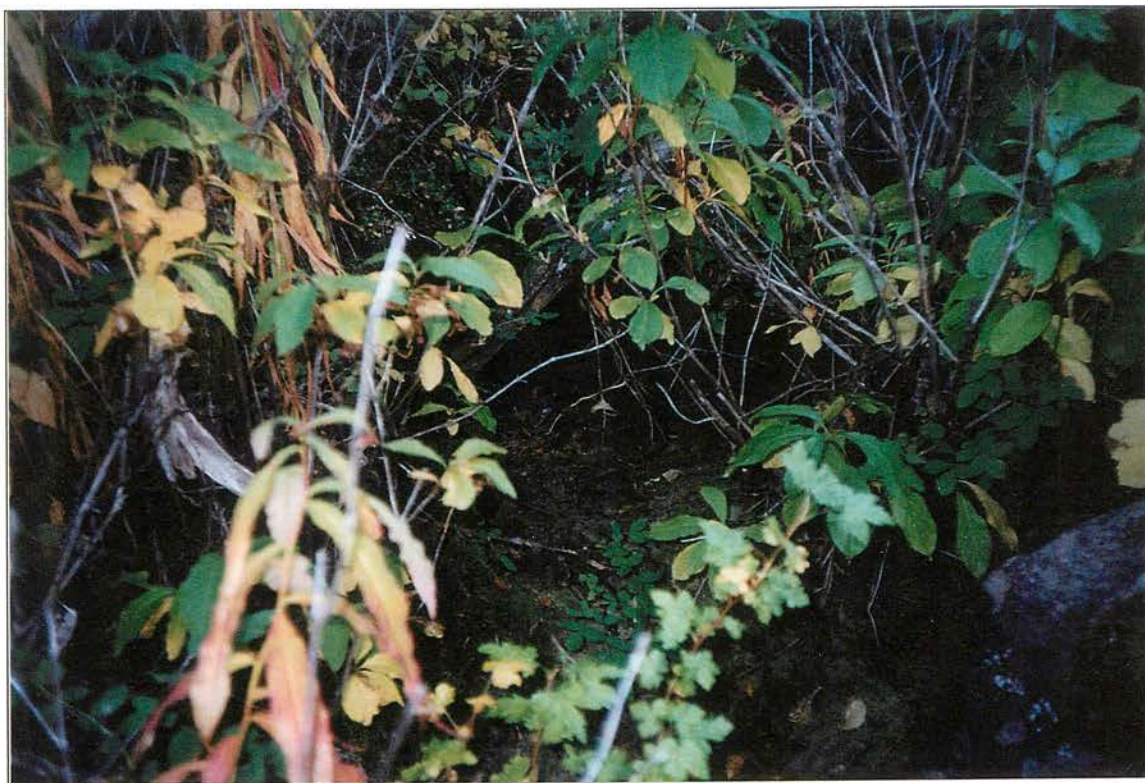
FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
6.0	093L.026	3715	523

COMMENTS	
Section	Comments
CHANNEL	No perennial within reach. Potential overwintering in upstream lake, needs sampling.
CHANNEL	S6 upstream of 100 m downstream of road crossing.



Site #523, Upstream photo within high gradient section.
Roll #52, Frame #17, Date: 2002/09/05



Site #523, Downstream photo within high gradient section.
Roll #52, Frame #18, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

4.0 093L.026 3715

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.026		ILP #:		3715	
REACH											
Reach #: 4.0		UTM(Zone/East/North): 9.631442.6008505				Sample Type: Biased					
Length (km): .81		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS					
Gradient (%): 6.4		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 725		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 524		Field UTM 9.631629.6008410		Agency: C172		Crew: JH/DT		Date: 2002/09/05			
Site Length (m): 200		GIS UTM 9.631604.6008380		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.97		0.800		1.200		6	
Stage: Low ☐				Wetted Width (m): 0.98		0.800		1.100		6	
Med ☐				Bankfull Depth (m): 0.57		0.5		0.6		3	
High ☒		Temp (C): 7		pH: 7.5		Conductivity: 90					
								Turbidity.: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Gravels		D (cm): 10.00								Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐	
Morphology: RP Riffle Pool						☐		☐		☐	
COVER											
Total Cover: Moderate		Type: SWD LWD B U DP OV IV									
LWD: None		Amount: T S N T N D N									
LWD Dist: Not Applicable		Location: P/S/O: ☒		☒		☐		☒		☐	
Right Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure	
Left Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								1-20%	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage									
Left Bank: Rip.Veg:		Stage: Pole-sapling stage		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐							
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.026	55517	CV	.9	T	10	T	R: 52	F: 21	L:	#:	9.631609.6008
Comments:											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
524	EF	1	100	120 sec	700	DV	5	45	55		

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 4.0 ILP Map # 093L.026 ILP # 3715 Site # 524

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3715 NID Map #: 093L.026 NID #: 50524 Reach #: 4.0 Site #: 524
Field UTM (Z.E.N): 9.631629.6008410 Method: GPU Site Lg: 200 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.631604.6008380 Ref. Name:
Date: 2002/09/05 Time: 15:00 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	0.80	1.00	0.90	0.80	1.10	1.20					0.97	Method I:	6.0	5.0	5.50
Wetted Width (m):	T	0.80	0.90	1.10	1.00	1.10	1.00					0.98	Method II:			C
Pool Depth (m):	T	0.10	0.10	0.10	0.20	0.10	0.20					0.13				

Wb Depth: .6 .5 .6 Avg: 0.57 Method: T Stage: L ☐ M ☐ H ☒ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	N	T	N	D	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: N DIST: NA

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 90 Method: S3
pH: 7.5 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 10.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.026	55517	CV	.9	T	10	T	R: 52 F: 21 L:	#:	9.631609.6008375	GIS

Comments:

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Low - associated with small pools, riffles and runs.
Spawning Habitat	Low - associated with the presence of gravel only, limited by cover, flows, resting and rearing.

FDIS Site Card

Morice North Planning Area

Reach #

ILP Map #

ILP #

Site

4.0

093L.026

3715

524

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

PHOTOS					
Photo				Foc Lg	Dir
					Comments
R:	52	F:	19	STD	U
					Fish capture location.
R:	52	F:	20	STD	D
					Downstream photo of typical habitat within stream.
R:	52	F:	21	STD	U
					Upstream photo of culvert outlet.
COMMENTS					
Section				Comments	
CHANNEL				Culvert perched 20 cm at outlet.	
CHANNEL				DV captured ~50 mm in size. S4 stream classification.	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 4.0 ILP Map # 093L.026 ILP # 3715

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:										ILP Map #: 093L.026		ILP #: 3715		Reach #: 4 -	
Project ID: 5270										Lake/Stream: S		Lake From Date:			
Fish Permit #: 145269 Date: 2002/09/05 To: 2002/09/05 Agency: C172 Crew: JH/DT Resample: ☐															
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
524	093L.026	50524				GPU EF 1	7	90	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
524	EF	1	2002/09/05	15:00	2002/09/05	15:20									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
524	EF	1	1	O	120	100.0	1.0	700	I	5	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
524	EF	1	1	DV	J	2+	5	45	55	R					
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic	Roll #	Frame#	Comment	
								Str/Smpl#/Age			Str/Smpl#				
524	EF	1	1	DV	45		U	U							
524	EF	1	1	DV	50		U	U							
524	EF	1	1	DV	50		U	U							
524	EF	1	1	DV	55		U	U							
524	EF	1	1	DV	50		U	U							



Site #524, Fish capture location.
Roll #52, Frame #19, Date: 2002/09/05



Site #524, Downstream photo of typical habitat within stream.
Roll #52, Frame #20, Date: 2002/09/05



Site #524, Upstream photo of culvert outlet.
Roll #52, Frame #21, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.026 3716

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3716		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.631967.6008662				Sample Type: Biased			
Length (km): .71		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 6.1		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 739		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 525		Field UTM ..		Agency: C172		Crew: JH/DT		Date: 2002/09/05	
Site Length (m): 280		GIS UTM 9.631979.6008533		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.03		0.800		1.200	
Stage: Low ☒				Wetted Width (m): 0.57		0.300		0.9	
Med ☐				Bankfull Depth (m): 0.33		0.3		0.4	
High ☐		Temp (C): 7		pH: 7.6		Conductivity: 90			
						Turbidity.: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 10.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined				C1		C2		C3	
Morphology: RP Riffle Pool				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Trace		Type: SWD		LWD		B		U	
LWD: None		Amount: T		S		N		N	
LWD Dist: Not Applicable		Location: P/S/O: ☒		☒		☐		☐	
								FSZ: ☐	
Right Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage		Instream Veg: None ☒		Algae ☐		Moss ☐	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
525	EF	1	100	143 sec	700	NFC	0		

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
2.0	093L026	3716	525

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.026	3716	525

PHOTOS				
Photo		Foc Lg	Dir	Comments
R:	52	F:	25	STD
			D	Stream fans out into open meadow.
COMMENTS				
Section		Comments		
CHANNEL		Electrofishable water difficult to find pools (too shallow). Numerous organic / cobble falls ~1 m drops upstream of road crossing.		
CHANNEL		System is flashy with high bedload movement.		
CHANNEL		Electrofishing upstream of discontinuity.		
CHANNEL		Discontinuity >100 m and fan with no surface connection >25 m. No upstream perennial habitat.		
CHANNEL		No connection to downstream fish bearing water.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 2.0 ILP Map # 093L.026 ILP # 3716

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000															
Waterbody ID:										ILP Map #: 093L.026		ILP #: 3716		Reach #: 2 -	
Project ID: 5270										Lake/Stream: S		Lake From Date:			
Fish Permit #: 145269 Date: 2002/09/05 To: 2002/09/05 Agency: C172 Crew: JH/DT Resample: ☐															
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
525	093L.026	50525				GPU EF 1	7	90	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
525	EF	1	1	2002/09/05	16:00	2002/09/05	16:25								
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
525	EF	1	1	O	143	100.0	1.0	700	I	5	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
525	EF	1	1	NFC		0									



Site #525, Upstream photo of habitat.
Roll #52, Frame #22, Date: 2002/09/05



Site #525, Downstream photo of habitat.
Roll #52, Frame #23, Date: 2002/09/05



Site #525, Fan with no surface connection.
Roll #52, Frame #24, Date: 2002/09/05



Site #525, Stream fans out into open meadow.
Roll #52, Frame #25, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #
2.0 093L.026 3721

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3721		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.630575.6008969				Sample Type: Biased			
Length (km): 1.43		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 5.8		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 773		Islands: NONE		Riparian Vegetation: Not Specified					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 526		Field UTM 9.631100.6008560		Agency: C172		Crew: JH/DT		Date: 2002/09/05	
Site Length (m): 100		GIS UTM 9.631096.6008560		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 0.00		0		0	
Stage: Low ☐				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.00		0		0	
High ☐		Temp (C):		pH:		Conductivity:			
								Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1	
Coupling:				INDICATORS		B2		B3	
Confinement:				C1		C2		C3	
Morphology:				C4		C5		S1	
				C6		C7		S2	
				C8		C9		S3	
				C10		C11		S4	
				C12		C13		S5	
				C14		C15		S6	
				C16		C17		S7	
				C18		C19		S8	
				C20		C21		S9	
				C22		C23		S10	
				C24		C25		S11	
				C26		C27		S12	
				C28		C29		S13	
				C30		C31		S14	
				C32		C33		S15	
				C34		C35		S16	
				C36		C37		S17	
				C38		C39		S18	
				C40		C41		S19	
				C42		C43		S20	
				C44		C45		S21	
				C46		C47		S22	
				C48		C49		S23	
				C50		C51		S24	
				C52		C53		S25	
				C54		C55		S26	
				C56		C57		S27	
				C58		C59		S28	
				C60		C61		S29	
				C62		C63		S30	
				C64		C65		S31	
				C66		C67		S32	
				C68		C69		S33	
				C70		C71		S34	
				C72		C73		S35	
				C74		C75		S36	
				C76		C77		S37	
				C78		C79		S38	
				C80		C81		S39	
				C82		C83		S40	
				C84		C85		S41	
				C86		C87		S42	
				C88		C89		S43	
				C90		C91		S44	
				C92		C93		S45	
				C94		C95		S46	
				C96		C97		S47	
				C98		C99		S48	
				C100		C101		S49	
				C102		C103		S50	
				C104		C105		S51	
				C106		C107		S52	
				C108		C109		S53	
				C110		C111		S54	
				C112		C113		S55	
				C114		C115		S56	
				C116		C117		S57	
				C118		C119		S58	
				C120		C121		S59	
				C122		C123		S60	
				C124		C125		S61	
				C126		C127		S62	
				C128		C129		S63	
				C130		C131		S64	
				C132		C133		S65	
				C134		C135		S66	
				C136		C137		S67	
				C138		C139		S68	
				C140		C141		S69	
				C142		C143		S70	
				C144		C145		S71	
				C146		C147		S72	
				C148		C149		S73	
				C150		C151		S74	
				C152		C153		S75	
				C154		C155		S76	
				C156		C157		S77	
				C158		C159		S78	
				C160		C161		S79	
				C162		C163		S80	
				C164		C165		S81	
				C166		C167		S82	
				C168		C169		S83	
				C170		C171		S84	
				C172		C173		S85	
				C174		C175		S86	
				C176		C177		S87	
				C178		C179		S88	
				C180		C181		S89	
				C182		C183		S90	
				C184		C185		S91	
				C186		C187		S92	
				C188		C189		S93	
				C190		C191		S94	
				C192		C193		S95	
				C194		C195		S96	
				C196		C197		S97	
				C198		C199		S98	
				C200		C201		S99	
				C202		C203		S100	
				C204		C205		S101	
				C206		C207		S102	
				C208		C209		S103	
				C210		C211		S104	
				C212		C213		S105	
				C214		C215		S106	
				C216		C217		S107	
				C218		C219		S108	
				C220		C221		S109	
				C222		C223		S110	
				C224		C225		S111	
				C226		C227		S112	
				C228		C229		S113	
				C230		C231		S114	
				C232		C233		S115	
				C234		C235		S116	
				C236		C237		S117	
				C238		C239		S118	
				C240		C241		S119	
				C242		C243		S120	
				C244		C245		S121	
				C246		C247		S122	
				C248		C249		S123	
				C250		C251		S124	
				C252		C253		S125	
				C254		C255		S126	
				C256		C257		S127	
				C258		C259		S128	
				C260		C261		S129	
				C262		C263		S130	
				C264		C265		S131	
				C266		C267		S132	
				C268		C269		S133	
				C270		C271		S134	
				C272		C273		S135	
				C274		C275		S136	
				C276		C277		S137	
				C278		C279		S138	
				C280		C281		S139	
				C282		C283		S140	
				C284		C285		S141	
				C286		C287		S142	
				C288		C289		S143	
				C290		C291		S144	
				C292		C293		S145	
				C294		C295		S146	
				C296		C297		S147	
				C298		C299		S148	
				C300		C301		S149	
				C302		C303		S150	
				C304		C305		S151	
				C306		C307		S152	
				C308		C309		S153	
				C310		C311		S154	
				C312		C313		S155	
				C314		C315		S156	
				C316		C317		S157	
				C318		C319		S158	
				C320		C321		S159	
				C322		C323		S160	
				C324		C325		S161	
				C326		C327		S162	
				C328		C329		S163	
				C330		C331		S164	
				C332		C333		S165	
				C334		C335		S166	
				C336		C337		S167	
				C338		C339		S168	
				C340		C341		S169	
				C342		C343		S170	
				C344		C345		S171	
				C346		C347		S172	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.026 ILP # 3721 Site # 526

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
Local Name: ILP Map#: 093L.026 ILP #: 3721 NID Map #: 093L.026 NID #: 50526 Reach #: 2.0 Site #: 526
Field UTM (Z.E.N): 9.631100.6008560 Method: GPU Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.631096.6008560 Ref. Name:
Date: 2002/09/05 Time: 16:45 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg					
Channel Width (m):												0.00	Gadient %		Mtd	Avg	
Wetted Width (m):												0.00	Method I:	1.0	1.0	C	1.00
Pool Depth (m):												0.00	Method II:				

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☒ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER

Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

RIP:

STG:

STG:

WATER

EMS: Req #: Temp: Method: Cond.: Method: pH: Method: Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: Method:

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: Coupling: Confinement: FSZ: Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 53 F: 01	STD	D	Downstream photo of seasonally wetted depression.

COMMENTS

Section	Comments
---------	----------

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000		Reach #	ILP Map #	ILP #	Site
Section		2.0	093L.026	3721	526
CHANNEL		Comments			
		NCD. Seasonally wetted depression.			



Site #526, Downstream photo of seasonally wetted depression.
Roll #53, Frame #01, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.025 3633

STREAM REFERENCING																																							
Gazetted Name:						Local Name:																																	
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.025		ILP #: 3633																															
REACH																																							
Reach #: 2.0		UTM(Zone/East/North): 9.630607.6011175				Sample Type: Biased																																	
Length (km): 2.01		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS																																	
Gradient (%): 2.6		Confinement: Occasionally Conf		Order: 2		Open water: Absent																																	
US Elev (m): 803		Islands: NONE		Riparian Vegetation: Mixed C/D																																			
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																							
SITE																																							
Site #: 527		Field UTM 9.630000.6009740		Agency: C172		Crew: JD/DT		Date: 2002/09/05																															
Site Length (m): 500		GIS UTM 9.630003.6009762		Agency Name: Triton Environmental Consultants (Terrace)																																			
CHANNEL																																							
No Vis.Ch.: ☐		Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m): 2.43</td> <td>2</td> <td>3</td> <td>6</td> </tr> <tr> <td>Wetted Width (m): 0.80</td> <td>0.400</td> <td>1.200</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m): 0.57</td> <td>0.4</td> <td>0.7</td> <td>3</td> </tr> </tbody> </table>				Avg	Min	Max	#	Channel Width (m): 2.43	2	3	6	Wetted Width (m): 0.80	0.400	1.200	6	Bankfull Depth (m): 0.57	0.4	0.7	3	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Gradient %: 2.50</td> <td>2</td> <td>3</td> <td>2</td> </tr> <tr> <td>Pool Depth (m): 0.10</td> <td>0.100</td> <td>0.100</td> <td>6</td> </tr> </tbody> </table>				Avg	Min	Max	#	Gradient %: 2.50	2	3	2	Pool Depth (m): 0.10	0.100	0.100	6
Avg	Min	Max	#																																				
Channel Width (m): 2.43	2	3	6																																				
Wetted Width (m): 0.80	0.400	1.200	6																																				
Bankfull Depth (m): 0.57	0.4	0.7	3																																				
Avg	Min	Max	#																																				
Gradient %: 2.50	2	3	2																																				
Pool Depth (m): 0.10	0.100	0.100	6																																				
Dewatered: ☐		Tribes: ☐						Turbidity: Turbid ☐ Low ☐																															
Stage: Low ☐								Moderate ☐ Clear ☒																															
Med ☒																																							
High ☐		Temp (C): 7		pH: 7.6		Conductivity: 110																																	
MORPHOLOGY																																							
Bed Material: Dominant: Gravels		D95 (cm): 30.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐																													
Subdominant: Cobble		D (cm): 10.00								Braid ☐																													
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS																																			
Coupling: Partially Coupled				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>								O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐														
O1	B1	B2	B3	D1	D2	D3																																	
☐	☐	☐	☐	☐	☐	☐																																	
Confinement: Occasionally Confine				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>C5</th> <th>S1</th> <th>S2</th> <th>S3</th> <th>S4</th> <th>S5</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>								C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐								
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																														
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																														
Morphology: RP Riffle Pool																																							
COVER																																							
Total Cover: Moderate		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>S</td> <td>S</td> <td>N</td> <td>T</td> <td>N</td> <td>D</td> <td>N</td> </tr> <tr> <td>Location: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table>										Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	S	S	N	T	N	D	N	Location: P/S/O:	☒	☒	☐	☒	☐	☒	☐				
Type:	SWD	LWD	B	U	DP	OV	IV																																
Amount:	S	S	N	T	N	D	N																																
Location: P/S/O:	☒	☒	☐	☒	☐	☒	☐																																
LWD: Few		FSZ: ☐																																					
LWD Dist: Clumped																																							
Right Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐																													
Left Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐																													
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Crown Closure 21-40%																																			
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☒																																			
FEATURES																																							
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto																													
093L.025	55518	CV	1.6	T	20	T	R: 53	F: 04	L:	#:	UTM (Z/E/N) 9.630003.6009																												
Comments: Dewatered pipe due to upstream disturbance.																																							
FISH																																							
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																														
527	EF	1	150	336 sec	700	CT	6	35	100																														

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000-0000

Reach # 2.0 ILP Map # 093L.025 ILP # 3633 Site # 527

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000
Local Name: 9 1/4 Creek
ILP Map #: 093L.025 ILP #: 3633 NID Map #: 093L.025 NID #: 50527 Reach #: 2.0 Site #: 527
Field UTM (Z.E.N): 9.630000.6009740 Method: GPU Site Lg: 500 Method: GE Access: V2
GIS UTM (Z.E.N): 9.630003.6009762 Ref. Name:
Date: 2002/09/05 Time: 17:30 Agency: C172 Crew: JD/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	2.30	2.10	2.00	2.40	2.80	3.00					2.43	Method I:	2.0	3.0	C	2.50
Wetted Width (m):	T	1.10	1.20	0.60	0.40	0.90	0.60					0.80	Method II:			C	
Pool Depth (m):	T	0.10	0.10	0.10	0.10	0.10	0.10					0.10					

Wb Depth: .4 .6 .7 Avg: 0.57 Method: T Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	S	N	T	N	D	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 7 pH: 7.6 Flood Signs: Rafted debris Method: T4 Method: P2 Method: GE Req #: Cond.: 110 Turb.: T ☐ M ☐ L ☐ C ☒ Method: S3 Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C D95: 30.0 D (cm): 10.00 Morph: RP O1 B1 B2 B3 D1 D2 D3
Pattern: IR DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.025	55518	CV	1.6	T	20	T	R: 53 F: 04 L:	#:	9.630003.6009762	GIS

Comments: Dewatered pipe due to upstream disturbance.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 53 F: 02	STD	U	Small pool - note dewatering due to disturbance upstream.
R: 53 F: 03	STD	D	Small pool and functioning LWD - Note dewatering due to disturbance upstream.
R: 53 F: 04	STD	U	Dewatered culvert due to upstream disturbance.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP # Site
2.0 093L.025 3633 527

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	53	F:	05	STD	U	Upstream photo from within CV >150 % at inlet.
R:	53	F:	06	STD	U	Culvert inlet with pond in background.
R:	53	F:	07	STD	U	Culvert inlet and ponded section.
R:	53	F:	08	STD	U	Road erosion.
R:	53	F:	09	STD	U	Road erosion.
R:	53	F:	10	STD	U	Pond and diversion down ditchline.
R:	53	F:	11	STD	D	Diversion down ditchline.
R:	53	F:	12	STD	X	Fish.
R:	53	F:	13	STD	X	Fish.
R:	53	F:	14	STD	X	Fish.
R:	53	F:	15	STD	U	Diversion down ditchline.
R:	53	F:	16	STD	U	Diversion through .5 m culvert (inlet).
R:	53	F:	17	STD	U	0.5 m culvert in foreground and overflow down ditchline in background.
R:	53	F:	18	STD	U	0.5 m culvert outlet and stream flowing into forested area.
R:	53	F:	19	STD	U	0.5 m culvert outlet.
R:	53	F:	20	STD	U	Towards road from within forested area (fish trap).
R:	53	F:	21	STD	U	Away from road towards forested area / braided channel.
R:	53	F:	22	STD	U	Dispersing into forest.
R:	53	F:	23	STD	U	Dispersing into forest.

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.025	3633

Triton Environmental Consultants Ltd.



Site #527, Small pool - note dewatering due to disturbance upstream.
Roll #53, Frame #02, Date: 2002/09/05



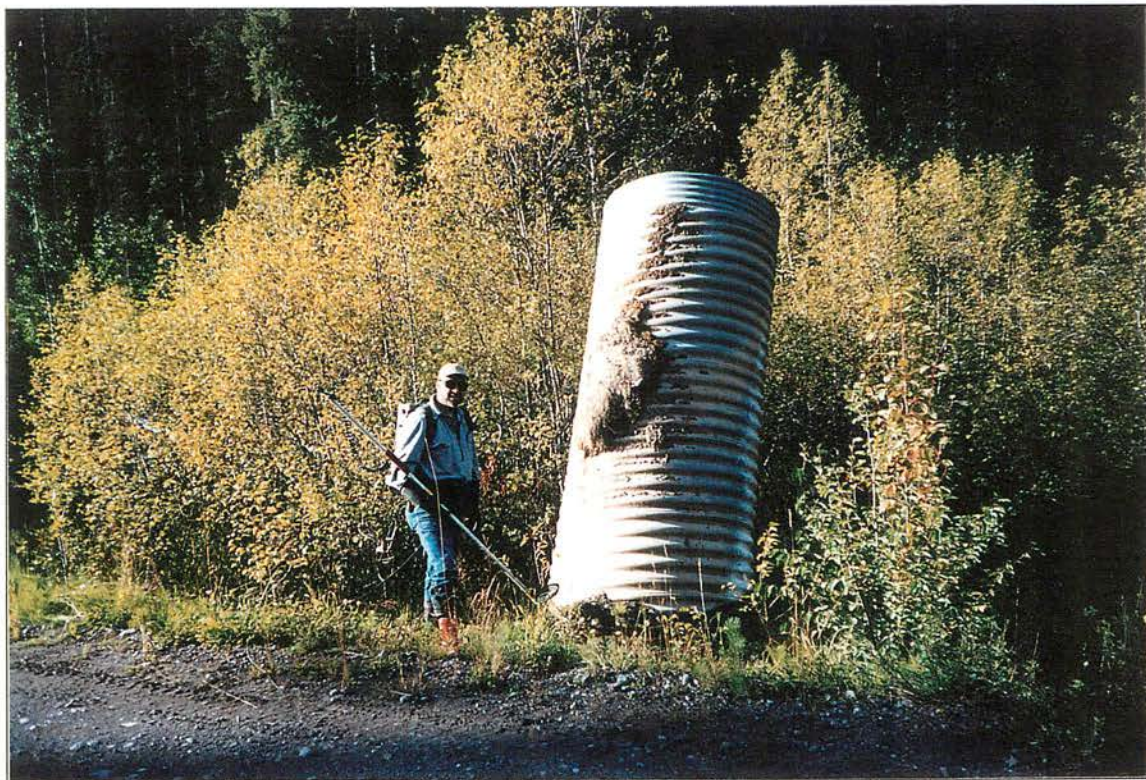
Site #527, Small pool and functioning LWD - Note dewatering due to disturbance upstream.
Roll #53, Frame #03, Date: 2002/09/05



Site #527, Dewatered culvert due to upstream disturbance.
Roll #53, Frame #04, Date: 2002/09/05



Site #527, Upstream photo from within CV >150 % at inlet.
Roll #53, Frame #05, Date: 2002/09/05



Site #527, Culvert inlet with pond in background.
Roll #53, Frame #06, Date: 2002/09/05



Site #527, Culvert inlet and ponded section.
Roll #53, Frame #07, Date: 2002/09/05



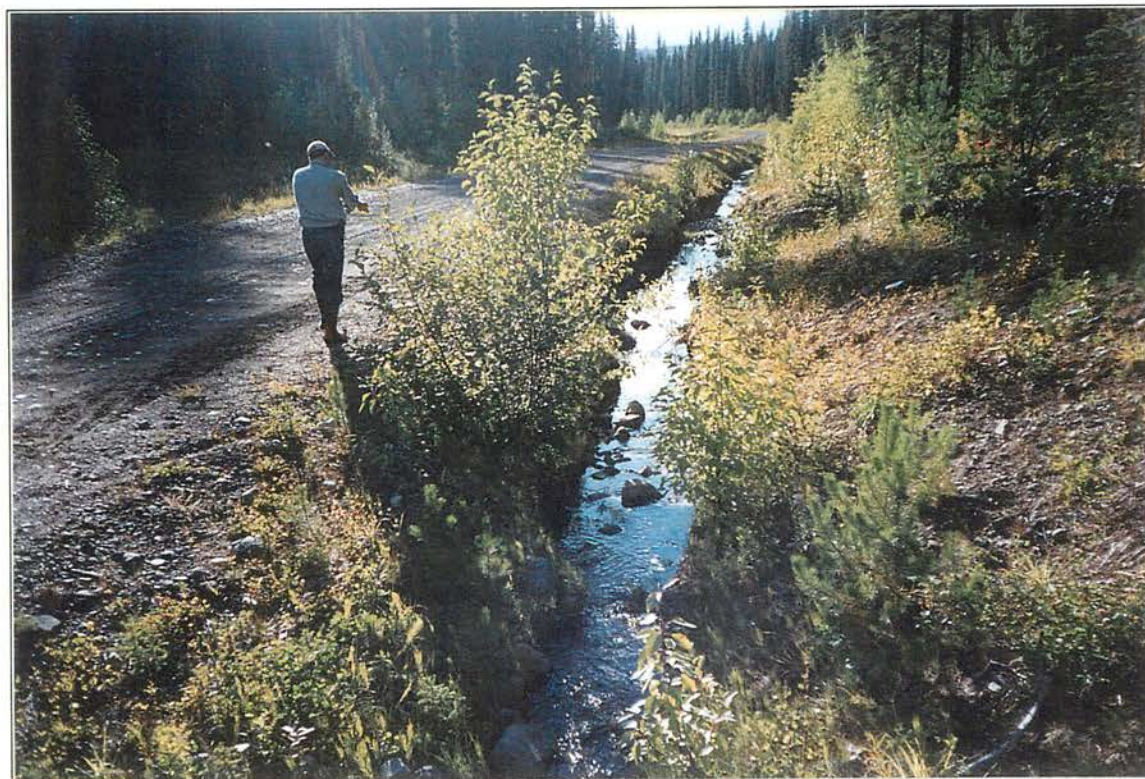
Site #527, Road erosion.
Roll #53, Frame #08, Date: 2002/09/05



Site #527, Road erosion.
Roll #53, Frame #09, Date: 2002/09/05



Site #527, Pond and diversion down ditchline.
Roll #53, Frame #10, Date: 2002/09/05



Site #527, Diversion down ditchline.
Roll #53, Frame #11, Date: 2002/09/05



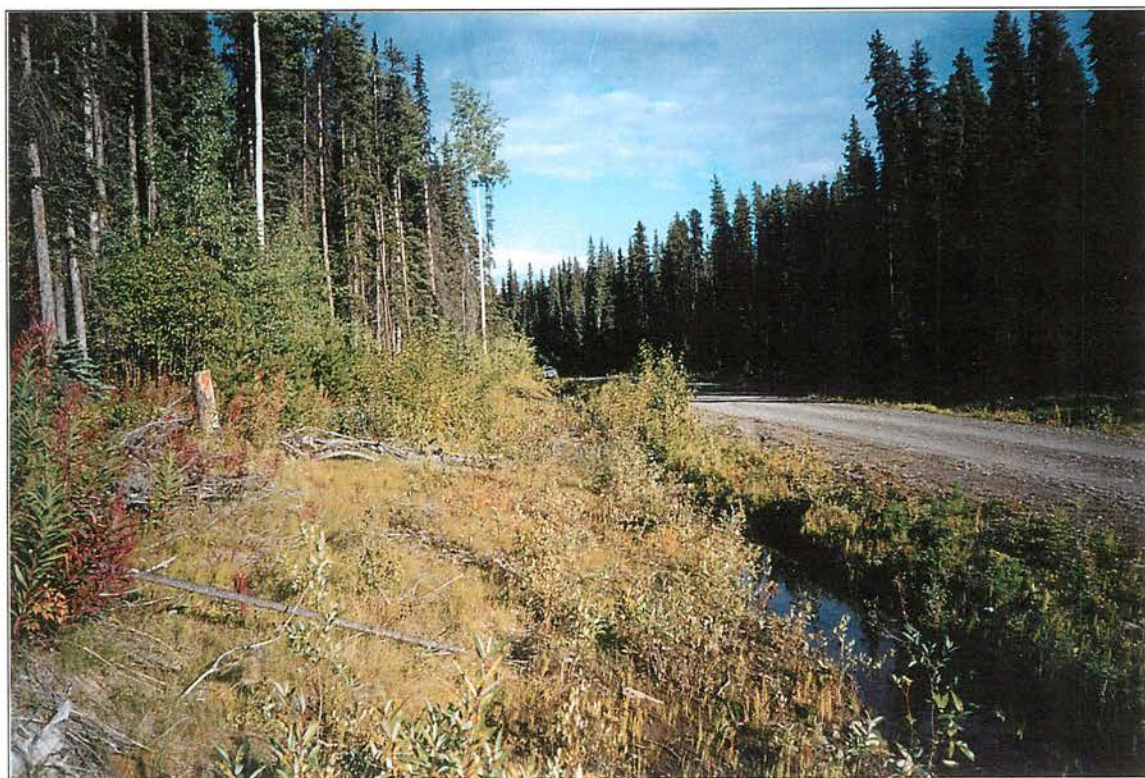
Site #527, Fish.
Roll #53, Frame #12, Date: 2002/09/05



Site #527, Fish.
Roll #53, Frame #13, Date: 2002/09/05



Site #527, Fish.
Roll #53, Frame #14, Date: 2002/09/05



Site #527, Diversion down ditchline.
Roll #53, Frame #15, Date: 2002/09/05



Site #527, Diversion through .5 m culvert (inlet).
Roll #53, Frame #16, Date: 2002/09/05



Site #527, 0.5 m culvert in foreground and overflow down ditchline in background.
Roll #53, Frame #17, Date: 2002/09/05



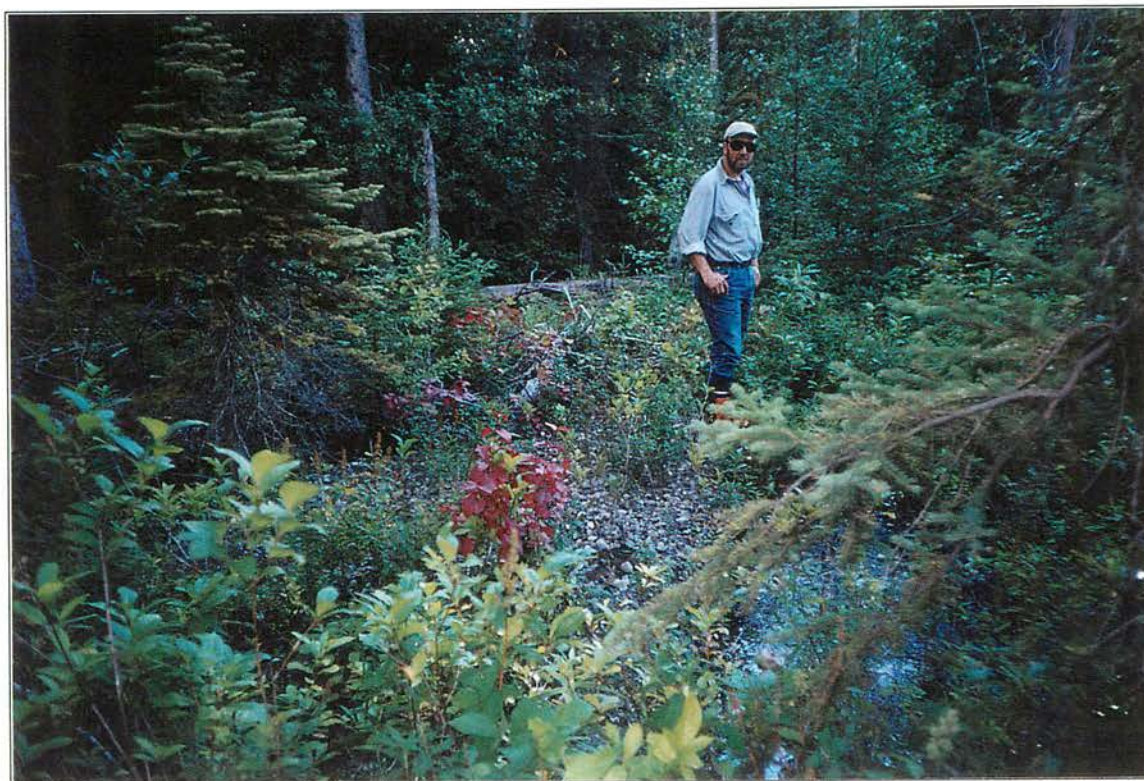
Site #527, 0.5 m culvert outlet and stream flowing into forested area.
Roll #53, Frame #18, Date: 2002/09/05



Site #527, 0.5 m culvert outlet.
Roll #53, Frame #19, Date: 2002/09/05



Site #527, Towards road from within forested area (fish trap).
Roll #53, Frame #20, Date: 2002/09/05



Site #527, Away from road towards forested area / braided channel.
Roll #53, Frame #21, Date: 2002/09/05



Site #527, Dispersing into forest.
Roll #53, Frame #22, Date: 2002/09/05



Site #527, Dispersing into forest.
Roll #53, Frame #23, Date: 2002/09/05

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.025 ILP # 3635

STREAM REFERENCING																																																	
Gazetted Name:					Local Name:																																												
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.025		ILP #: 3635																																										
REACH																																																	
Reach #: 1.0		UTM(Zone/East/North): 9.629307.6010372				Sample Type: Biased																																											
Length (km): .81		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS																																											
Gradient (%): 9.1		Confinement: Occasionally Conf		Order: 1		Open water: Absent																																											
US Elev (m): 808		Islands: NONE		Riparian Vegetation: Mixed C/D																																													
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																																	
SITE																																																	
Site #: 528		Field UTM 9.629257.6009750		Agency: C172		Crew: JH/DT		Date: 2002/09/06																																									
Site Length (m): 150		GIS UTM 9.629307.6009802		Agency Name: Triton Environmental Consultants (Terrace)																																													
CHANNEL																																																	
No Vis.Ch.: ☒		Intermittent: ☐		<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Avg	Min	Max	#	Channel Width (m):	0.00	0	0	0	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.00	0	0	0	<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Gradient %:</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Avg	Min	Max	#	Gradient %:	0.00	0	0	0	Pool Depth (m):	0.00	0	0	0					
Avg	Min	Max	#																																														
Channel Width (m):	0.00	0	0	0																																													
Wetted Width (m):	0.00	0	0	0																																													
Bankfull Depth (m):	0.00	0	0	0																																													
Avg	Min	Max	#																																														
Gradient %:	0.00	0	0	0																																													
Pool Depth (m):	0.00	0	0	0																																													
Dewatered: ☐		Tribes: ☐						Turbidity: Turbid ☐ Low ☐																																									
Stage: Low ☐		Temp (C):		pH:		Conductivity:		Moderate ☐ Clear ☐																																									
Med ☐																																																	
High ☐																																																	
MORPHOLOGY																																																	
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																													
Subdominant:		D (cm):		Braid ☐																																													
Channel Pattern:		Islands:		<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th colspan="10">DISTURBANCE INDICATORS</th> </tr> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> <th>C1</th> <th>C2</th> <th>C3</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>						DISTURBANCE INDICATORS										O1	B1	B2	B3	D1	D2	D3	C1	C2	C3	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
DISTURBANCE INDICATORS																																																	
O1	B1	B2	B3	D1	D2	D3	C1	C2	C3																																								
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																								
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																								
Coupling:																																																	
Confinement:																																																	
Morphology:																																																	
COVER																																																	
Total Cover:		<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Location: P/S/O:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:								Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐																
Type:	SWD	LWD	B	U	DP	OV	IV																																										
Amount:																																																	
Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐																																										
LWD:		FSZ: ☐																																															
LWD Dist:																																																	
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐ Crown Closure																																															
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐																																															
Right Bank: Rip.Veg:		Stage: ☐																																															
Left Bank: Rip.Veg:		Stage: ☐ Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐																																															

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.025 ILP # 3635 Site 528

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000
Project Code: 5270

WATERSHED

Gazetted Name: _____ Local Name: _____
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.025 ILP #: 3635 NID Map #: 093L.025 NID #: 50528 Reach #: 1.0 Site #: 528
Field UTM (Z.E.N): 9.629257.6009750 Method: GPU Site Lg: 150 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.629307.6009802 Ref. Name: _____
Date: 2002/09/06 Time: 08:00 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS											0.00	Method I:		C	0.00
Wetted Width (m):	MS											0.00	Method II:		C	
Pool Depth (m):	MS											0.00				

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

WATER

EMS: _____ Req #: _____
Temp: _____ Method: T4 Cond.: _____ Method: S3
pH: _____ Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: _____ Method: GE

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: ☐
Coupling: ☐
Confinement: ☐
FSZ: ☐ Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 53 F: 24	STD	U	Scour and mineral deposits.
R: 53 F: 25	STD	D	Scour and mineral deposits.

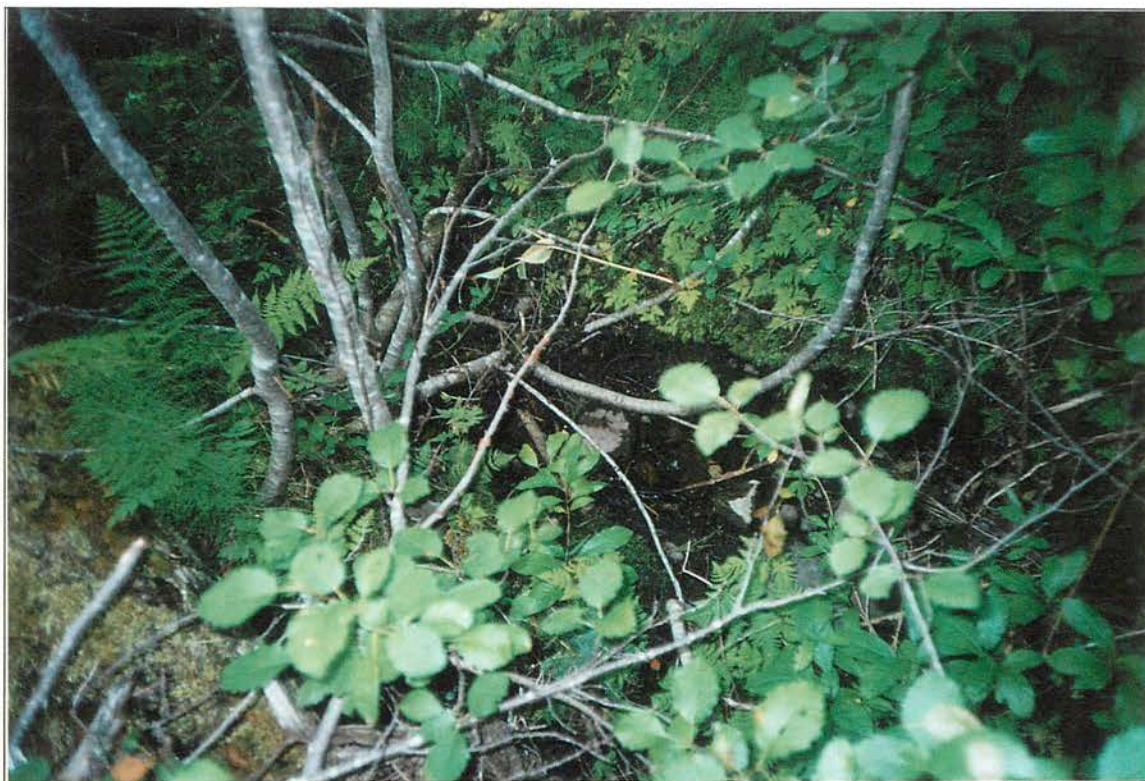
FDIS Site Card

Morice North Planning Area

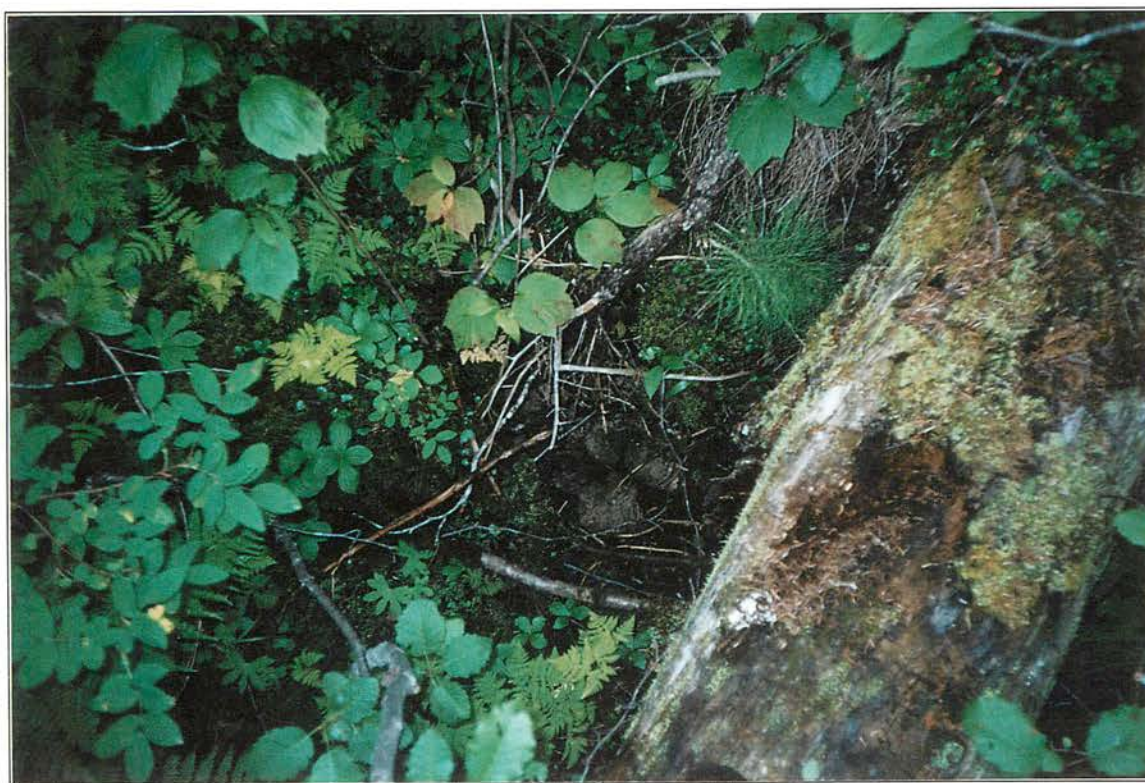
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.025	3635	528

COMMENTS	
Section	Comments
CHANNEL	Likely due to upstream disturbances.
CHANNEL	Unable to determine natural drainage pattern due to upstream gravel pit, upstream mainline, upstream spur road and diversion due to blocked culvert. Drainage has NCD characteristics but downstream of road scour is present.



Site #528, Scour and mineral deposits.
Roll #53, Frame #24, Date: 2002/09/06



Site #528, Scour and mineral deposits.
Roll #53, Frame #25, Date: 2002/09/06

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 4.0 ILP Map # 093L.015 ILP # 3801

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.015			ILP #: 3801		
REACH											
Reach #: 4.0		UTM(Zone/East/North): 9.628328.6010446				Sample Type: Biased					
Length (km): 1.02		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS					
Gradient (%): 8.0		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 820		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 529		Field UTM 9.628693.6009762		Agency: C172		Crew: JH/DT		Date: 2002/09/06			
Site Length (m): 110		GIS UTM 9.628640.6009823		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 0.83		0.7		0.9		6	
Stage: Low ☒				Wetted Width (m): 0.00		0		0		0	
Med ☐				Bankfull Depth (m): 0.40		0.3		0.5		3	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 7.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Fines		D (cm): 8.00								Braid ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2 B3 D1 D2 D3	
Coupling: Decoupled											
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5							
Morphology: RP Riffle Pool											
COVER											
Total Cover: None		Type: SWD LWD B U DP OV IV		Amount: N N N N N N N		Location: P/S/O: ☐		☐		FSZ: ☐	
LWD: Few											
LWD Dist: Clumped											
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Crown Closure 21-40%	
Left Bank: Rip.Veg:		Stage: Mature forest								Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.025	55529	CV	.9	T	20	T	R: 54	F: 01	L:	#:	9.628606.6009
Comments: Crushed at outlet.											

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 4.0 ILP Map # 093L.015 ILP # 3801 Site # 529

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map #: 093L.015 ILP #: 3801 NID Map #: 093L.025 NID #: 50529 Reach #: 4.0 Site #: 529
Field UTM (Z.E.N): 9.628693.6009762 Method: GPU Site Lg: 110 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.628640.6009823 Ref. Name:
Date: 2002/09/06 Time: 09:15 Agency: C172 Crew: JH/DT Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	0.80	0.90	0.80	0.70	0.90	0.90					0.83	Method I:	5.0	4.0	C	4.50
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth: .4 .3 .5 Avg: 0.40 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total: N

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	N	N	N	N	N
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

LWD: F DIST: C

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: pH: Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: Turb.: T ☐ M ☐ L ☐ C ☐ Method: S3 Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: F D95: 7.00 D (cm): 8.00 Morph: RP O1 B1 B2 B3 D1 D2 D3
Pattern: IR DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.025	55529	CV	.9	T	20	T	R: 54 F: 01 L:	#:	9.628606.6009847	GIS

Comments: Crushed at outlet.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed.
Rearing Habitat	Low - associated with potential cover - nothing else.
Spawning Habitat	Low - associated with gravels only - nothing else.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
4.0	093L.015	3801	529

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	54	F:	01	STD	U	Culvert outlet.
R:	54	F:	02	STD	U	Upstream photo of stream bed / dry gravels.
R:	54	F:	03	STD	D	Downstream photo of stream bed / dry gravels.
COMMENTS						
Section		Comments				
CHANNEL		No barriers observed. Hasn't been wetted since high water.				
CHANNEL		Highly ephemeral.				



Site #529, Culvert outlet.
Roll #54, Frame #01, Date: 2002/09/06



Site #529, Upstream photo of stream bed / dry gravels.
Roll #54, Frame #02, Date: 2002/09/06



Site #529, Downstream photo of stream bed / dry gravels.
Roll #54, Frame #03, Date: 2002/09/06

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.025 ILP # 3637

PROJECT																							
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.) Stream Name (gaz.): BULKLEY RIVER Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																							
Project Code: 5270																							
WATERSHED																							
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																							
ILP Map #: 093L.025	ILP #: 3637	Reach #: 5.0	NID Map #: 093L.025																				
Air Photos		Names																					
LINE: BCC98341__		UTM(Zone/East/North/Method)																					
#: 0		9.627507.6009769 GIS																					
Gaz.: Local:		Sample Type: B Wetland: ☐																					
SURVEY INFO																							
Date: 2002/08/27		Agency: C172																					
		Crew: SG/SH																					
ATTRIBUTES																							
Length (km): 2.11	Gradient: 2.94	Setting: VF	DISTURBANCE INDICATORS																				
DS Elev.: 731	Order: 2	Open water: A	<table style="width:100%; text-align: center;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>	O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐						
O1	B1	B2	B3	D1	D2	D3																	
☐	☐	☐	☐	☐	☐	☐																	
US Elev: 793	Magnitude: 2	Confinement: OC	<table style="width:100%; text-align: center;"> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td><td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5														
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐														
BGC Zone: SBS		Coupling: DC																					
Valley Flat: B	C/D: C	Islands: N																					
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR																					
Channel Pattern: SI	Mass Movement: L		Exposed/Eroded: NS																				
		Riparian Veg.: NS	Landuse: NS																				

MAPS		
Map Type	Map #	Year
TRIM	093L.025	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.025 ILP # 3637

WATERBODY																	
Gazetted Name:										Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0																	
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																	
Waterbody ID:										ILP Map #: 093L.025		ILP #: 3637		Reach #: 5 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/06		To:		2002/09/06		Agency: C172		Crew: JH/DT		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment						
530	093L.025	50530	9	627053	6008377	GPU	EF	1	6		C						
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
530	EF	1	1	2002/09/06	10:00	2002/09/06	11:00										
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
530	EF	1	1	O	628	260.0	2.0	600	60	6	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
530	EF	1	1	NFC		0											
COMMENTS																	
Section			Comments														
WATERBODY			No barriers observed.														

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.025 ILP # 3638

STREAM REFERENCING																																												
Gazetted Name:						Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.025		ILP #:		3638																																		
REACH																																												
Reach #: 1.0		UTM(Zone/East/North): 9.625634.6010256				Sample Type: Biased																																						
Length (km): 2.60		Coupling: Decoupled		Magnitude: 5		BGC Zone: SBS																																						
Gradient (%): 6.1		Confinement: Occasionally Conf		Order: 2		Open water: Absent																																						
US Elev (m): 866		Islands: NONE		Riparian Vegetation: Mixed C/D																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 531		Field UTM ..		Agency: C172		Crew: JH/DT		Date: 2002/09/06																																				
Site Length (m): 170		GIS UTM 9.625507.6008415		Agency Name: Triton Environmental Consultants (Terrace)																																								
CHANNEL																																												
No Vis.Ch.: ☐		Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Channel Width (m):</td> <td>1.13</td> <td>0.800</td> <td>1.600</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.53</td> <td>0.100</td> <td>1.5</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.40</td> <td>0.3</td> <td>0.5</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m):	1.13	0.800	1.600	6	Wetted Width (m):	0.53	0.100	1.5	6	Bankfull Depth (m):	0.40	0.3	0.5	3	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Gradient %:</td> <td>4.50</td> <td>4</td> <td>5</td> <td>2</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.18</td> <td>0.100</td> <td>0.300</td> <td>4</td> </tr> </table>				Avg	Min	Max	#	Gradient %:	4.50	4	5	2	Pool Depth (m):	0.18	0.100	0.300	4
Avg	Min	Max	#																																									
Channel Width (m):	1.13	0.800	1.600	6																																								
Wetted Width (m):	0.53	0.100	1.5	6																																								
Bankfull Depth (m):	0.40	0.3	0.5	3																																								
Avg	Min	Max	#																																									
Gradient %:	4.50	4	5	2																																								
Pool Depth (m):	0.18	0.100	0.300	4																																								
Dewatered: ☐		Tribes.: ☐						Turbidity.: Turbid ☐ Low ☐																																				
Stage: Low ☒		Temp (C): 7		pH: 7.4		Conductivity: 90		Moderate ☐ Clear ☒																																				
Med ☐																																												
High ☐																																												
MORPHOLOGY																																												
Bed Material: Dominant: Gravels		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐																																		
Subdominant: Fines		D (cm): 5.00								Braid ☐																																		
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3																																		
Coupling: Decoupled				INDICATORS		☐		☐		☐																																		
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐																																		
Morphology: RP Riffle Pool						☐		☐		☐																																		
COVER																																												
Total Cover: Trace		Type: SWD LWD B U DP OV IV		Amount: T S N N T D N		Location: P/S/O: ☒		☒		FSZ: ☐																																		
LWD: Few																																												
LWD Dist: Clumped																																												
Right Bank: Shape: V - shape		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure																																		
Left Bank: Shape: V - shape		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								1-20%																																		
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest																																										
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐																																								
FEATURES																																												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)																																	
093L.025	55520	CV	1.0	T	20	T	R: 54	F: 06	L:	#:	9.625507.6008																																	
Comments: Culvert at road crossing perched 20 cm.																																												
FISH																																												
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																			
531	EF	1	100	124 sec	600	RB	1	120	120																																			

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.025 ILP # 3638 Site 531

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.025 ILP #: 3638 NID Map #: 093L.025 NID #: 50531 Reach #: 1.0 Site #: 531
Field UTM (Z.E.N): .. Method: Site Lg: 170 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.625507.6008415 Ref. Name:
Date: 2002/09/06 Time: 11:30 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	T	0.80	1.10	1.20	1.60	0.90	1.20					1.13
Wetted Width (m):	T	0.10	0.90	0.40	1.50	0.10	0.20					0.53
Pool Depth (m):	T	0.10	0.30	0.20	0.10							0.18

	Gadient %	Mtd	Avg
Method I:	4.0 5.0	C	4.50
Method II:		C	

Wb Depth: .3 .5 .4 Avg: 0.40 Method: T Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: T

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	N	N	T	D	N
Loc: P/S/O:	☒	☒	☐	☐	☒	☒	☐

CROWN CLOSURE
1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F DIST: C

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS:
Temp: 7
pH: 7.4
Flood Signs: Rafted debris

Method: T4
Method: P2
Method: GE

Req #:
Cond.: 90
Turb.: T ☐ M ☐ L ☐ C ☒ Method: S3
Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: F
D95: 10.0 D (cm): 5.00 Morph: RP
Pattern: IR
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐

DISTURBANCE INDICATORS
O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.025	55520	CV	1.0	T	20	T	R: 54 F: 06 L: #:		9.625507.6008415	GIS

Comments: Culvert at road crossing perched 20 cm.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Questionable.
Rearing Habitat	Moderate - associated with cover, access limited by flows.
Spawning Habitat	Moderate - associated with gravels, flows, cover, resting.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.025	3638	531

PHOTOS					
Photo				Foc Lg	Dir
R:	54	F:	04	STD	U
R:	54	F:	05	STD	D
R:	54	F:	06	STD	U
COMMENTS					
Section				Comments	
CHANNEL				Small organic drop - 50 cm in height may limit fish access to culvert / road crossing.	
CHANNEL				RB captured.	

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.025	3638

Triton Environmental Consultants Ltd.



Site #531, Upstream photo of typical stream conditions at time of survey.
Roll #54, Frame #04, Date: 2002/09/06



Site #531, Downstream photo of fish capture location.
Roll #54, Frame #05, Date: 2002/09/06



Site #531, Culvert at road crossing perched 20 cm.
Roll #54, Frame #06, Date: 2002/09/06

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.025 ILP # 3633

PROJECT			
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)		Project Code: 5270	
Stream Name (gaz.): BULKLEY RIVER			
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000			
WATERSHED			
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000			
ILP Map #: 093L.025	ILP #: 3633	Reach #: 2.0	NID Map #: 093L.026
Air Photos		Names	
LINE: BCC98341		UTM(Zone/East/North/Method)	
#: 0	Gaz.: Local:	9.630607.6011175 GIS	
		Sample Type: B Wetland: ☐	
SURVEY INFO			
Date: 2002/08/27		Agency: C172	
		Crew: SG/SH	
ATTRIBUTES			
Length (km): 2.01	Gradient: 2.59	Setting: VF	DISTURBANCE
DS Elev.: 751	Order: 2	Open water: A	INDICATORS
US Elev: 803	Magnitude: 3	Confinement: OC	C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
	BGC Zone: SBS	Coupling: PC	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Valley Flat: B	C/D: D	Islands: N	
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR	
Channel Pattern: SI	Mass Movement: L		Exposed/Eroded: NS
		Riparian Veg.: M	Landuse: NS

MAPS		
Map Type	Map #	Year
TRIM	093L.026	
TRIM	093L.025	

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L026	3633

Triton Environmental Consultants Ltd.



Site #532, Culvert outlet, perched 10 cm.
Roll #54, Frame #07, Date: 2002/09/06

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

6.0 093L.025 3633

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000						ILP Map #: 093L.025			ILP #: 3633		
REACH											
Reach #: 6.0		UTM(Zone/East/North): 9.631093.6013033				Sample Type: Biased					
Length (km): 1.00		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS					
Gradient (%): 1.3		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 824		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 533		Field UTM 9.631610.6012778		Agency: C172		Crew: JH/DT		Date: 2002/09/06			
Site Length (m): 100		GIS UTM 9.631581.6012676		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.47		0.9		2.3		6	
Stage: Low ☒				Wetted Width (m): 0.70		0.400		1		2	
Med ☐				Bankfull Depth (m): 0.37		0.3		0.4		3	
High ☐		Temp (C): 7		pH: 7.8		Conductivity: 110					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 60.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Fines		D (cm): 5.00								Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine						C1		C2		C3	
Morphology: RP Riffle Pool						☐		☐		☐	
						C4		C5		S1	
						☐		☐		☐	
						S2		S3		S4	
						☐		☐		☐	
						S5					
						☐					
COVER											
Total Cover: Moderate		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		S		N		N		N	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☐		☐		☐	
										FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Crown Closure	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage								21-40%	
								Instream Veg: None ☒		Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.026	55521	CV	.8	T	10	T	R: 54	F: 08	L:	#:	UTM (Z/E/N)
Comments: Moderate priority, perched 40 cm.											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
533	EF	1	100	120 sec	600	CT	5	40	45		

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 6.0 ILP Map # 093L.025 ILP # 3633 Site 533

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.025 ILP #: 3633 NID Map #: 093L.026 NID #: 50533 Reach #: 6.0 Site #: 533
Field UTM (Z.E.N): 9.631610.6012778 Method: GPU Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.631581.6012676 Ref. Name:
Date: 2002/09/06 Time: 13:30 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	0.90	1.00	1.60	2.30	1.70	1.30					1.47	Method I:	4.0	3.0	C	3.50
Wetted Width (m):	T	0.40		1.00								0.70	Method II:			C	
Pool Depth (m):	T	0.10		0.10								0.10					

Wb Depth: .4 .3 .4 Avg: 0.37 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	N	N	N	D	N
Loc: P/S/O:	☒	☒	☐	☐	☐	☒	☐

LWD: F DIST: C

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 110 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 60.0 D (cm): 5.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.026	55521	CV	.8	T	10	T	R: 54 F: 08 L: #:		9.631572.6012666	GIS

Comments: Moderate priority, perched 40 cm.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed in site, potential upstream and downstream.
Rearing Habitat	Low - no resting / rearing / dry - lack of pools.
Spawning Habitat	Low - limited by coarse angular substrates, lack of water, flashy nature.

FDIS Site Card

Morice North Planning Area

Reach #

ILP Map #

ILP #

Site

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

6.0

093L.025

3633

533

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	54	F:	08	STD	U	Culvert at road crossing perched 40 cm.
R:	54	F:	09	STD	U	Upstream photo of typical stream habitat.
R:	54	F:	10	STD	D	Downstream photo of typical stream habitat.
COMMENTS						
Section			Comments			
CHANNEL			Culvert - Low / Moderate priority.			
CHANNEL			CT captured upstream of road crossing. Isolated pools.			

Morice North Planning Area

Reach #	ILP Map #	ILP #
6.0	093L-025	3633

WATERBODY																			
Gazetted Name:										Local:									
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0																			
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																			
Waterbody ID:					ILP Map #: 093L.025					ILP #:		3633		Reach #:	6 -				
Project ID: 5270					Lake/Stream: S					Lake From Date:									
Fish Permit #: 145269					Date: 2002/09/06			To: 2002/09/06			Agency: C172		Crew: JH/DT		Resample: ☐				
SITE / METHOD																			
Site#		NID Map		NID #		UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment					
533		093L.026		50533					GPU EF 1		7	110	C						
A. GEAR SETTINGS																			
Site#		MTD/NO		H/P	Date In		Time In		Date Out		Time Out		Comment						
533		EF 1		1	2002/09/06		13:30		2002/09/06		13:50								
C. ELECTROFISHER SPECIFICATIONS																			
Site#		MTD/NO		H/P		Encl	Sec	Length		Width		Voltage		Frequency	Pulse	Make	Model		
533		EF		1		1	O	120		100.0		1.0		600		I	5	SMITH ROOT	12B
FISH SUMMARY																			
Site#		MTD/NO		H/P		Species	Stage	Age		Total #		Lgth (Min/Max)		FishAct	Comment				
533		EF		1		1	CT	F	0+		5		40 45		R				
INDIVIDUAL FISH DATA																			
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment		
									Str/Smpl#/#Age				Str/Smpl#						
533	EF		1	1	CT	40		U	U										
533	EF		1	1	CT	45		U	U										
533	EF		1	1	CT	40		U	U										
533	EF		1	1	CT	40		U	U										
533	EF		1	1	CT	45		U	U										



Site #533, Culvert at road crossing perched 40 cm.
Roll #54, Frame #08, Date: 2002/09/06



Site #533, Upstream photo of typical stream habitat.
Roll #54, Frame #09, Date: 2002/09/06



Site #533, Downstream photo of typical stream habitat.
Roll #54, Frame #10, Date: 2002/09/06

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.026 3724

STREAM REFERENCING																																														
Gazetted Name:						Local Name:																																								
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.026		ILP #: 3724																																						
REACH																																														
Reach #: 2.0		UTM(Zone/East/North): 9.633544.6013241				Sample Type: Biased																																								
Length (km): 2.24		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS																																								
Gradient (%): 11.7		Confinement: Frequently Confin		Order: 1		Open water: Absent																																								
US Elev (m): 1078		Islands: NONE		Riparian Vegetation: Not Specified																																										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																														
SITE																																														
Site #: 534		Field UTM 9.631929.6013200		Agency: C172		Crew: JH/DT		Date: 2002/09/06																																						
Site Length (m): 100		GIS UTM 9.632101.6013275		Agency Name: Triton Environmental Consultants (Terrace)																																										
CHANNEL																																														
No Vis.Ch.: ☒		Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Avg	Min	Max	#	Channel Width (m):	0.00	0	0	0	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.00	0	0	0	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Gradient %:</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Avg	Min	Max	#	Gradient %:	0.00	0	0	0	Pool Depth (m):	0.00	0	0	0
	Avg	Min	Max	#																																										
Channel Width (m):	0.00	0	0	0																																										
Wetted Width (m):	0.00	0	0	0																																										
Bankfull Depth (m):	0.00	0	0	0																																										
	Avg	Min	Max	#																																										
Gradient %:	0.00	0	0	0																																										
Pool Depth (m):	0.00	0	0	0																																										
Dewatered: ☐		Tribes.: ☐																																												
Stage: Low ☐		Temp (C):		pH:		Conductivity:		Turbidity.: Turbid ☐ Low ☐																																						
Med ☐								Moderate ☐ Clear ☐																																						
High ☐																																														
MORPHOLOGY																																														
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐		Mid-channel ☐																																				
Subdominant:		D (cm):								Span ☐																																				
Channel Pattern:		Islands:		DISTURBANCE INDICATORS		O1 ☐		B1 ☐		B2 ☐																																				
Coupling:						B3 ☐		D1 ☐		D2 ☐																																				
Confinement:						D3 ☐																																								
Morphology:						C1 ☐		C2 ☐		C3 ☐																																				
						C4 ☐		C5 ☐		S1 ☐																																				
						S2 ☐		S3 ☐		S4 ☐																																				
						S5 ☐																																								
COVER																																														
Total Cover:		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Location: P/S/O:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>										Type:	SWD	LWD	B	U	DP	OV	IV	Amount:								Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐											
Type:	SWD	LWD	B	U	DP	OV	IV																																							
Amount:																																														
Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐																																							
LWD:																																														
LWD Dist:		FSZ: ☐																																												
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																				
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																				
Right Bank: Rip.Veg:		Stage:								Crown Closure																																				
Left Bank: Rip.Veg:		Stage:								Instream Veg: None ☐																																				
										Algae ☐																																				
										Moss ☐																																				
										Vascular ☐																																				

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
2.0	093L026	3724	534

Triton Environmental Consultants Ltd.



Site #534, Downslope photo of alder swale.
Roll #54, Frame #11, Date: 2002/09/06



Site #535, Upstream photo of dry section of channel.
Roll #54, Frame #12, Date: 2002/09/06

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.025 3607

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.025		ILP #:		3607	
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.626671.6016542				Sample Type: Biased					
Length (km): .52		Coupling: Partially Couple		Magnitude: 7		BGC Zone: SBS					
Gradient (%): 9.6		Confinement: Occasionally Conf		Order: 3		Open water: Absent					
US Elev (m): 881		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 535		Field UTM ..		Agency: C172		Crew: JH/DT		Date: 2002/09/06			
Site Length (m): 600		GIS UTM 9.626820.6016896		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.73		1.100		2.200 6	
Stage: Low ☒				Wetted Width (m):		0.88		0.300		1.4 4	
Med ☐				Bankfull Depth (m):		0.57		0.4		0.7 3	
High ☐		Temp (C): 7		pH: 7.2		Conductivity: 80					
								Avg		Min	
								Max		#	
								Gradient %:		8.25 6 10 4	
								Pool Depth (m):		0.25 0.100 0.400 4	
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Gravels		D (cm): 20.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine						C1		C2		C3	
Morphology: RP Riffle Pool						☐		☐		☐	
						C4		C5		S1	
						☐		☐		☐	
						S2		S3		S4	
						☐		☐		☐	
						S5					
						☐					
COVER											
Total Cover: Moderate		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		T		N		T		T	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☐		☒	
				☐		☐		☐		☐	
Right Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Manmade ☐	
Left Bank: Rip.Veg:		Stage: Mature forest								Crown Closure	
										21-40%	
										Instream Veg: None ☐	
										Algae ☐	
										Moss ☒	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.025	55522	C	30.0	GE	30	GE	R:	54	F:	14	L:
Comments: six 2 m drops (falls) within cascade.							#:				
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
535	EF	1	600	652 sec	600	NFC	0				

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.025 ILP # 3607 Site 535

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.025 ILP #: 3607 NID Map #: 093L.025 NID #: 50535 Reach #: 1.0 Site #: 535
Field UTM (Z.E.N): .. Method: Site Lg: 600 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.626820.6016896 Ref. Name:
Date: 2002/09/06 Time: 15:00 Agency: C172 Crew: JH/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg	
Channel Width (m):	T	2.20	1.80	2.00	1.70	1.10	1.60					1.73	Method I:	6.0	8.0	C	8.25	
Wetted Width (m):	T	1.00	1.40	0.80			0.30					0.88		Method II:	9.0	10.0	C	
Pool Depth (m):	T	0.20	0.40	0.30			0.10					0.25						

Wb Depth: .4 .6 .7 Avg: 0.57 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	N	T	T	D	N
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 80 Method: S3
pH: 7.2 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 20.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.025	55522	C	30.0	GE	30	GE	R: 54 F: 14 L:	#:	9.626823.6016910	GIS

Comments: six 2 m drops (falls) within cascade.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None observed in site, potentially upstream.
Rearing Habitat	Low - associated with small shallow pools, cover.
Spawning Habitat	Low - associated with gravels only, limited by flows, cover, resting.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.025	3607	535

PHOTOS					
Photo				Foc Lg	Dir
					Comments
R:	54	F:	12	STD	U
Upstream photo of dry section of channel.					
R:	54	F:	13	STD	D
Downstream photo of dry section of channel.					
R:	54	F:	14	STD	D
Downstream photo towards ?? Creek at bottom of Reach.					
R:	54	F:	15	STD	D
Downstream from within cascade.					
R:	54	F:	16	STD	U
Upstream from within cascade.					
COMMENTS					
Section				Comments	
CHANNEL				No Fish Caught upstream of cascade. Lake should be sampled.	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 1.0 ILP Map # 093L.025 ILP # 3607

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:						ILP Map #: 093L.025		ILP #: 3607		Reach #: 1 -			
Project ID: 5270						Lake/Stream: S			Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/06			To: 2002/09/06			Agency: C172		Crew: JH/DT		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
535	093L.025	50535				GPU EF 1	7	80	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
535	EF 1	1	2002/09/06	15:00	2002/09/06	16:30							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
535	EF	1	1	O	652	600.0	2.0	600	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
535	EF	1	1	NFC		0							



Site #535, Downstream photo of dry section of channel.
Roll #54, Frame #13, Date: 2002/09/06



Site #535, Downstream photo towards ?? Creek at bottom of Reach.
Roll #54, Frame #14, Date: 2002/09/06



Site #535, Downstream from within cascade.
Roll #54, Frame #15, Date: 2002/09/06



Site #535, Upstream from within cascade.
Roll #54, Frame #16, Date: 2002/09/06

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 12.0 ILP Map # 093L.046 ILP # 2981

STREAM REFERENCING																																																			
Gazetted Name:					Local Name:																																														
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2981																																												
REACH																																																			
Reach #: 12.0		UTM(Zone/East/North): 9.622727.6038309				Sample Type: Biased																																													
Length (km): 1.60		Coupling: Decoupled		Magnitude: 20		BGC Zone: AT																																													
Gradient (%): 4.0		Confinement: Frequently Confin		Order: 3		Open water: Present																																													
US Elev (m): 1463		Islands: NONE		Riparian Vegetation: Mixed C/D																																															
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																																			
SITE																																																			
Site #: 536		Field UTM 9.623760.6038577		Agency: C172		Crew: JH/JD		Date: 2002/09/07																																											
Site Length (m): 300		GIS UTM 9.623649.6039329		Agency Name: Triton Environmental Consultants (Terrace)																																															
CHANNEL																																																			
No Vis.Ch.: ☐		Intermittent: ☐		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Channel Width (m): 11.67</td> <td>10</td> <td>15</td> <td>6</td> </tr> <tr> <td>Wetted Width (m): 10.33</td> <td>8</td> <td>14</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m): 0.63</td> <td>0.6</td> <td>0.7</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m): 11.67	10	15	6	Wetted Width (m): 10.33	8	14	6	Bankfull Depth (m): 0.63	0.6	0.7	3	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Gradient %: 2.50</td> <td>2</td> <td>3</td> <td>2</td> </tr> <tr> <td>Pool Depth (m): 0.52</td> <td>0.400</td> <td>0.600</td> <td>6</td> </tr> </table>				Avg	Min	Max	#	Gradient %: 2.50	2	3	2	Pool Depth (m): 0.52	0.400	0.600	6												
Avg	Min	Max	#																																																
Channel Width (m): 11.67	10	15	6																																																
Wetted Width (m): 10.33	8	14	6																																																
Bankfull Depth (m): 0.63	0.6	0.7	3																																																
Avg	Min	Max	#																																																
Gradient %: 2.50	2	3	2																																																
Pool Depth (m): 0.52	0.400	0.600	6																																																
Dewatered: ☐		Tribes.: ☐						Turbidity.: Turbid ☐ Low ☐																																											
Stage: Low ☐		Temp (C): 4		pH: 6.9		Conductivity: 40		Moderate ☐ Clear ☒																																											
Med ☒																																																			
High ☐																																																			
MORPHOLOGY																																																			
Bed Material: Dominant: Gravels		D95 (cm): 80.00		Bars: Non ☐		Side ☒		Diagonal ☐ Mid-channel ☐ Span ☐																																											
Subdominant: Cobble		D (cm): 50.00						Braid ☐																																											
Channel Pattern: Irregular, Wandering		Islands: Irregular		DISTURBANCE INDICATORS																																															
Coupling: Coupled				<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> <tr> <td>S3</td><td>S4</td><td>S5</td> <td colspan="4"></td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td> <td colspan="4"></td> </tr> </table>						O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐	C1	C2	C3	C4	C5	S1	S2	☐	☐	☐	☐	☐	☐	☐	S3	S4	S5					☐	☐	☐				
O1	B1	B2	B3	D1	D2	D3																																													
☐	☐	☐	☐	☐	☐	☐																																													
C1	C2	C3	C4	C5	S1	S2																																													
☐	☐	☐	☐	☐	☐	☐																																													
S3	S4	S5																																																	
☐	☐	☐																																																	
Confinement: Frequently Confined																																																			
Morphology: RP Riffle Pool																																																			
COVER																																																			
Total Cover: Moderate		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> <tr> <th>Amount:</th> <td>N</td> <td>N</td> <td>T</td> <td>T</td> <td>S</td> <td>D</td> <td>N</td> </tr> <tr> <th>Location: P/S/O:</th> <td>☐</td><td>☐</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td><td>☐</td> </tr> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	N	N	T	T	S	D	N	Location: P/S/O:	☐	☐	☒	☒	☒	☒	☐																		
Type:	SWD	LWD	B	U	DP	OV	IV																																												
Amount:	N	N	T	T	S	D	N																																												
Location: P/S/O:	☐	☐	☒	☒	☒	☒	☐																																												
LWD: None		FSZ: ☐																																																	
LWD Dist: Not Applicable																																																			
Right Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure 1-20%																																															
Left Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐																																																	
Right Bank: Rip.Veg: Deciduous		Stage: Shrub/herb stage		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐																																															
Left Bank: Rip.Veg:		Stage: Shrub/herb stage																																																	
FISH																																																			
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																										
536	EF	1	200	419 sec	800	NFC	0																																												

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 12.0 ILP Map # 093L.046 ILP # 2981 Site 536

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2981 NID Map #: 093L.045 NID #: 50536 Reach #: 12.0 Site #: 536
Field UTM (Z.E.N): 9.623760.6038577 Method: GPU Site Lg: 300 Method: GIS Access: H
GIS UTM (Z.E.N): 9.623649.6039329 Ref. Name:
Date: 2002/09/07 Time: 09:00 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	GE	10.00	10.00	15.00	15.00	10.00	10.00					11.67	Method I:	3.0	2.0	C 2.50
Wetted Width (m):	GE	8.00	8.00	14.00	14.00	8.00	10.00					10.33	Method II:			C
Pool Depth (m):	GE	0.50	0.40	0.50	0.60	0.60	0.50					0.52				

Wb Depth: .6 .7 .6 Avg: 0.63 Method: GE Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	T	T	S	D	N
Loc: P/S/O:	☐	☐	☒	☒	☒	☒	☐

LWD: N

DIST: NA

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: SHR

WATER

EMS: Temp: 4 Method: T4 Req #: Cond.: 40 Method: S3
pH: 6.9 Method: P2 Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 80.0 D (cm): 50.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: I
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potentially associated with downstream lakes.
Rearing Habitat	Moderate - associated with flows / cover / downstream lakes / ponds.
Spawning Habitat	Moderate - associated with gravels and flows.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 54 F: 17 STD U			Upstream photo of channel in willows.
R: 54 F: 18 STD D			Downstream photo of downstream lakes.
R: 54 F: 19 STD U			Upstream towards headwaters.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
12.0	093L.046	2981	536

PHOTOS				
Photo		Foc Lg	Dir	Comments
R:	54	F:	20	STD U Upstream towards lake and headwaters.
COMMENTS				
Section		Comments		
CHANNEL		Numerous barriers observed downstream.		
CHANNEL		Sample lake.		
CHANNEL		No fish captured.		

Morice North Planning Area

Reach #	ILP Map #	ILP #
12.0	093L.046	2981

Triton Environmental Consultants Ltd.



Site #536, Upstream photo of channel in willows.
Roll #54, Frame #17, Date: 2002/09/07



Site #536, Downstream photo of downstream lakes.
Roll #54, Frame #18, Date: 2002/09/07



Site #536, Upstream towards headwaters.
Roll #54, Frame #19, Date: 2002/09/07



Site #536, Upstream towards lake and headwaters.
Roll #54, Frame #20, Date: 2002/09/07

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #
10.0	093L.046	2981

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000-000

WATERSHED

Reach Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000			
ILP Map #: 093L.046	ILP #: 2981	Reach #: 10.0	NID Map #: 093L.045
		NID #: 10172	
Air Photos	Names		UTM(Zone/East/North/Method)
LINE: BCC98341__	Gaz.:	9.624182.6039886 GIS	
#: 0	Local:	Sample Type: B	Wetland: ☐

SURVEY INFO

Date: 2002/08/27 Agency: C172 Crew: SG/SH

ATTRIBUTES

Length (km):	.21	Gradient:	9.05	Setting:	MP	DISTURBANCE INDICATORS											
DS Elev.:	1380	Order:	3	Open water:	A		O1	B1	B2	B3	D1	D2	D3				
US Elev:	1399	Magnitude:	24	Confinement:	UN	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5		
		BGC Zone:	AT	Coupling:	DC												
Valley Flat:	N	C/D:		Islands:	N												
Active Floodplain Visible:	☐	Est. Width:		Bars:	☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR												
Channel Pattern:	SI			Mass Movement:	L			Exposed/Eroded:	NS								
				Riparian Veg.:	S			Landuse:	NS								

MAPS

Map Type	Map #	Year
TRIM	093L.046	

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #
10.0	093L.046	2981

Gazetted Name:		Local:			
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0					
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					
Waterbody ID:	ILP Map #: 093L.046	ILP #:	2981	Reach #:	10 -
Project ID: 5270	Lake/Stream: S	Lake From Date:			

Fish Permit #: 145269 Date: 2002/09/07 To: 2002/09/07 Agency: C172 Crew: JH/JD Resample: ☐

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment
537	093L.045	50537				GPU	EF 1	5	40	C	

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
537	EF	1	1	2002/09/07	09:40	2002/09/07	10:15

Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
537	EF	1	1	O	436	125.0	5.0	700	I	5	SMITH ROOT	12B

Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
537	EF	1	1	NFC			0				

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 8.0 ILP Map # 093L.046 ILP # 2981

PROJECT			
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)		Project Code: 5270	
Stream Name (gaz.): BULKLEY RIVER			
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000			
WATERSHED			
Reach Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000			
ILP Map #: 093L.046	ILP #: 2981	Reach #: 8.0	NID Map #: 093L.045
Air Photos		Names	
LINE: BCC98341_	Gaz.:	UTM(Zone/East/North/Method)	
#: 0	Local:	9.624489.6040037 GIS	
		Sample Type: B Wetland: ☒	
SURVEY INFO			
Date: 2002/08/27		Agency: C172	
		Crew: SG/SH	
ATTRIBUTES			
Length (km): .54	Gradient: 20.56	Setting: MP	DISTURBANCE
DS Elev.: 1264	Order: 3	Open water: A	INDICATORS
US Elev: 1375	Magnitude: 31	Confinement: OC	
BGC Zone: AT	Coupling: DC		
Valley Flat: N	C/D:	Islands: N	
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR	
Channel Pattern: SI		Mass Movement: L	Exposed/Eroded: NS
		Riparian Veg.: S	Landuse: NS

MAPS		
Map Type	Map #	Year
TRIM	093L.045	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 8.0 ILP Map # 093L.046 ILP # 2981

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000													
Waterbody ID:						ILP Map #: 093L.046			ILP #: 2981		Reach #: 8 -		
Project ID: 5270						Lake/Stream: S			Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/07			To: 2002/09/07			Agency: C172		Crew: JH/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
538	093L.045	50538				GPU	EF	1	5	60	C		
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
538	EF	1	1	2002/09/07	10:30	2002/09/07	10:55						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
538	EF	1	1	O	275	100.0	5.0	700	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
538	EF	1	1	NFC		0							

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
7.0 093L.046 2981

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2981			
REACH											
Reach #: 7.0		UTM(Zone/East/North): 9.624923.6040113				Sample Type: Biased					
Length (km): 1.24		Coupling: Partially Couple		Magnitude: 31		BGC Zone: AT					
Gradient (%): 5.4		Confinement: Frequently Confin		Order: 3		Open water: Absent					
US Elev (m): 1264		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 539		Field UTM 9.624935.6040150		Agency: C172		Crew: JH/JD		Date: 2002/09/07			
Site Length (m): 400		GIS UTM 9.624916.6040156		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 7.38		6.5		8.2		6	
Stage: Low ☒				Wetted Width (m): 5.67		4.5		6.5		6	
Med ☐				Bankfull Depth (m): 0.53		0.4		0.6		3	
High ☐		Temp (C): 5		pH: 6.9		Conductivity: 60					
								Turbidity.: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Boulders		D95 (cm): 12.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 60.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine						C1		C2		C3	
Morphology: RP Riffle Pool						☐		☐		☐	
						C4		C5		S1	
						☐		☐		☐	
						S2		S3		S4	
						☐		☐		☐	
						S5					
						☐					
COVER											
Total Cover: Moderate		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		S		S		N		D	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☐		☒	
		☐		☐		☐		☐		☐	
Right Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Crown Closure	
Left Bank: Rip.Veg:		Stage: Mature forest								21-40%	
										Instream Veg: None ☐	
										Algae ☐	
										Moss ☒	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.045	55523	C	100.0	GE	100	GE	R:	54	F:	21	L:
Comments: Cascade with falls within.							#:				
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
539	EF	1	400	500 sec	800	NFC	0				

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 7.0 ILP Map # 093L.046 ILP # 2981 Site # 539

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2981 NID Map #: 093L.045 NID #: 50539 Reach #: 7.0 Site #: 539
Field UTM (Z.E.N): 9.624935.6040150 Method: GPU Site Lg: 400 Method: MAP Access: H
GIS UTM (Z.E.N): 9.624916.6040156 Ref. Name:
Date: 2002/09/07 Time: 11:00 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	GE	6.50	7.30	6.90	8.20	7.40	8.00					7.38	Method I:	4.0	6.0	C	5.00
Wetted Width (m):	GE	5.00	6.30	6.10	4.50	5.60	6.50					5.67	Method II:			C	
Pool Depth (m):	T	0.60	0.60	0.50	0.30	0.40	0.50					0.48					

Wb Depth: .4 .6 .6 Avg: 0.53 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	S	N	D	N	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☐	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 60 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 12.0 D (cm): 60.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.045	55523	C	100.0	GE	100	GE	R: 54 F: 21 L:	#:	9.624831.6040061	GIS

Comments: Cascade with falls within.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Moderate - pools / ponds.
Rearing Habitat	Moderate - associated with pools, cover, D95.
Spawning Habitat	Low - angular substrates, coarse substrates.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
7.0	093L.046	2981	539

PHOTOS						
Photo			Foc Lg		Dir	Comments
R:	54	F:	21	STD	U	Upstream photo of cascade / falls immediately upstream of site UTM.
R:	54	F:	22	STD	U	Upstream photo of riffle pool section with large D95.
R:	54	F:	23	STD	D	Downstream photo of riffle pool section with large D95.
COMMENTS						
Section				Comments		
CHANNEL				No Fish Captured.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 7.0 ILP Map # 093L.046 ILP # 2981

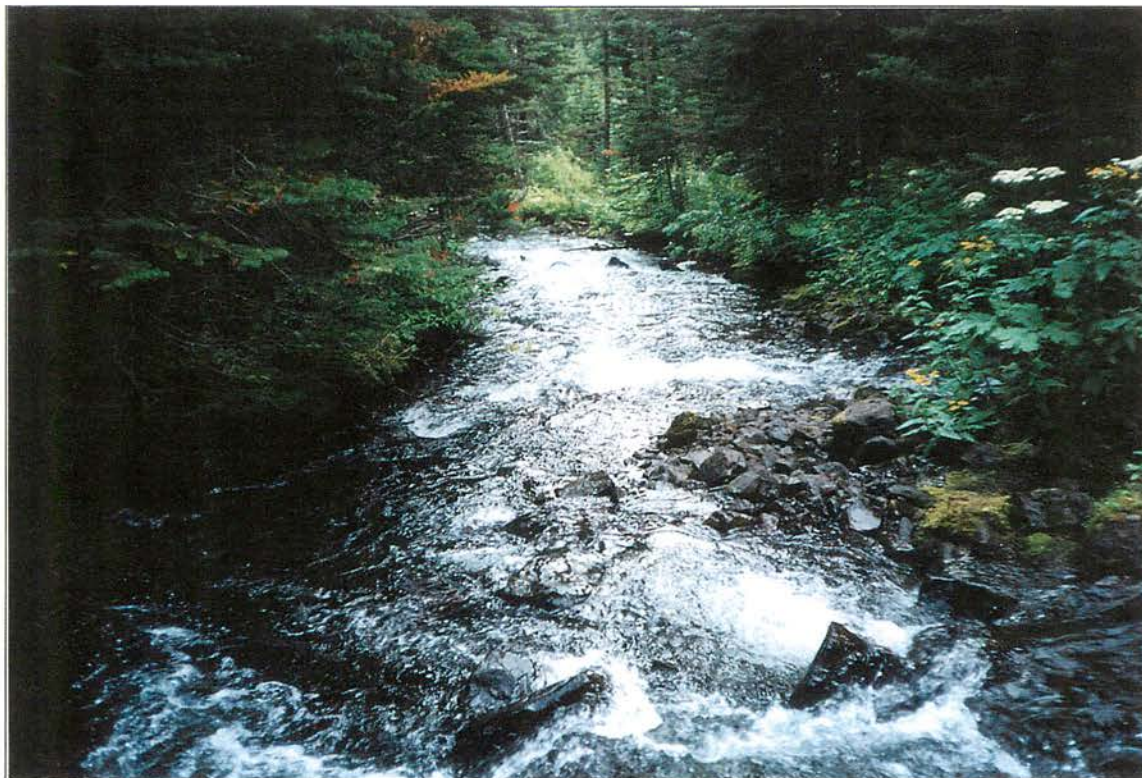
WATERBODY													
Gazetted Name:										Local:			
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000													
Waterbody ID:					ILP Map #: 093L.046					ILP #: 2981		Reach #: 7 -	
Project ID: 5270					Lake/Stream: S					Lake From Date:			
Fish Permit #:		145269		Date:		2002/09/07		To:		2002/09/07		Agency: C172	
										Crew: JH/JD		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
539	093L.045	50539				GPU	EF	1	5	60	C		
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
539	EF	1	1	2002/09/07	11:00	2002/09/07	11:30						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
539	EF	1	1	O	500	400.0	7.0	800	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
539	EF	1	1	NFC		0							



Site #539, Upstream photo of cascade / falls immediately upstream of site UTM.
Roll #54, Frame #21, Date: 2002/09/07



Site #539, Upstream photo of riffle pool section with large D95.
Roll #54, Frame #22, Date: 2002/09/07



Site #539, Downstream photo of riffle pool section with large D95.
Roll #54, Frame #23, Date: 2002/09/07

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

6.0 093L.046 2941

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2941		
REACH									
Reach #: 6.0		UTM(Zone/East/North): 9.625769.6035335				Sample Type: Biased			
Length (km): 1.42		Coupling: Coupled		Magnitude: 10		BGC Zone: AT			
Gradient (%): 9.9		Confinement: Frequently Confin		Order: 3		Open water: Absent			
US Elev (m): 1350		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 540		Field UTM 9.626255.6035272		Agency: C172		Crew: JH/JD		Date: 2002/09/07	
Site Length (m): 250		GIS UTM 9.626297.6035330		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		5.68		4.900	
Stage: Low ☐				Wetted Width (m):		4.74		4.2	
Med ☒				Bankfull Depth (m):		0.60		0.5	
High ☐						0.7		3	
Temp (C): 5		pH: 6.9		Conductivity: 50		Avg		Min	
						Gradient %:		7	
						Pool Depth (m):		0.57	
								0.7	
								6	
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 140.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Cobble		D (cm): 40.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Coupled						B2		B3	
Confinement: Frequently Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		S		N	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage							
Left Bank: Rip.Veg:		Stage: Shrub/herb stage							
				Instream Veg: None ☐		Algae ☐		Moss ☒	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
540	EF	1	250	689 sec	800	DV	8	100	200

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 6.0 ILP Map # 093L.046 ILP # 2941 Site 540

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: Dockrill Creek
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2941 NID Map #: 093L.045 NID #: 50540 Reach #: 6.0 Site #: 540
Field UTM (Z.E.N): 9.626255.6035272 Method: GPU Site Lg: 250 Method: MAP Access: H
GIS UTM (Z.E.N): 9.626297.6035330 Ref. Name:
Date: 2002/09/07 Time: 11:30 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	5.30	5.60	5.10	5.90	6.20	5.30	7.10	4.90	4.90	4.90	5.68	Method I:	10.0	7.0	C	8.50
Wetted Width (m):	MS	5.20	5.10	4.20	4.80	4.60	4.30	5.00				4.74	Method II:			C	
Pool Depth (m):	MS	0.60	0.50	0.70	0.60	0.50	0.50					0.57					

Wb Depth: .6 .5 .7 Avg: 0.60 Method: MS Stage: L ☐ M ☒ H ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	S	N	D	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 50 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 140.0 D (cm): 40.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Deep pools present.
Rearing Habitat	Moderate - associated with pools / D95 / cover.
Spawning Habitat	Moderate - associated with gravels / pools / cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 54 F: 24 STD X			Photo of DV.
R: 54 F: 25 STD X			Photo of DV
R: 55 F: 01 STD U			Upstream photo of cascade pool habitat.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #6.0

ILP Map #093L.046

ILP #2941

Site540

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	55	F: 02	STD	D	Downstream photo of fish capture location.
R:	55	F: 03	STD	X	Photo of pre-spawn DV
COMMENTS					
Section			Comments		
CHANNEL			DV captured - 100 to 200 mm.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 6.0 ILP Map # 093L.046 ILP # 2941

WATERBODY															
Gazetted Name:										Local: Dockrill Creek					
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:				ILP Map #: 093L.046				ILP #: 2941		Reach #: 6 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date: 2002/09/07		To: 2002/09/07		Agency: C172		Crew: JH/JD		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
540	093L.045	50540				GPU EF 1	5	50	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
540	EF 1	1	2002/09/07	11:30	2002/09/07	12:15									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
540	EF	1	1	O	689	250.0	5.0	800	I	5	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
540	EF	1	1	DV	A	3+	8	100 200	R						
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
540	EF	1	1	DV	115		U	U							
540	EF	1	1	DV	120		U	U							
540	EF	1	1	DV	115		U	U							
540	EF	1	1	DV	150		U	U							
540	EF	1	1	DV	200		U	U							
540	EF	1	1	DV	100		U	U							
540	EF	1	1	DV	170		U	U							
540	EF	1	1	DV	110		U	U							



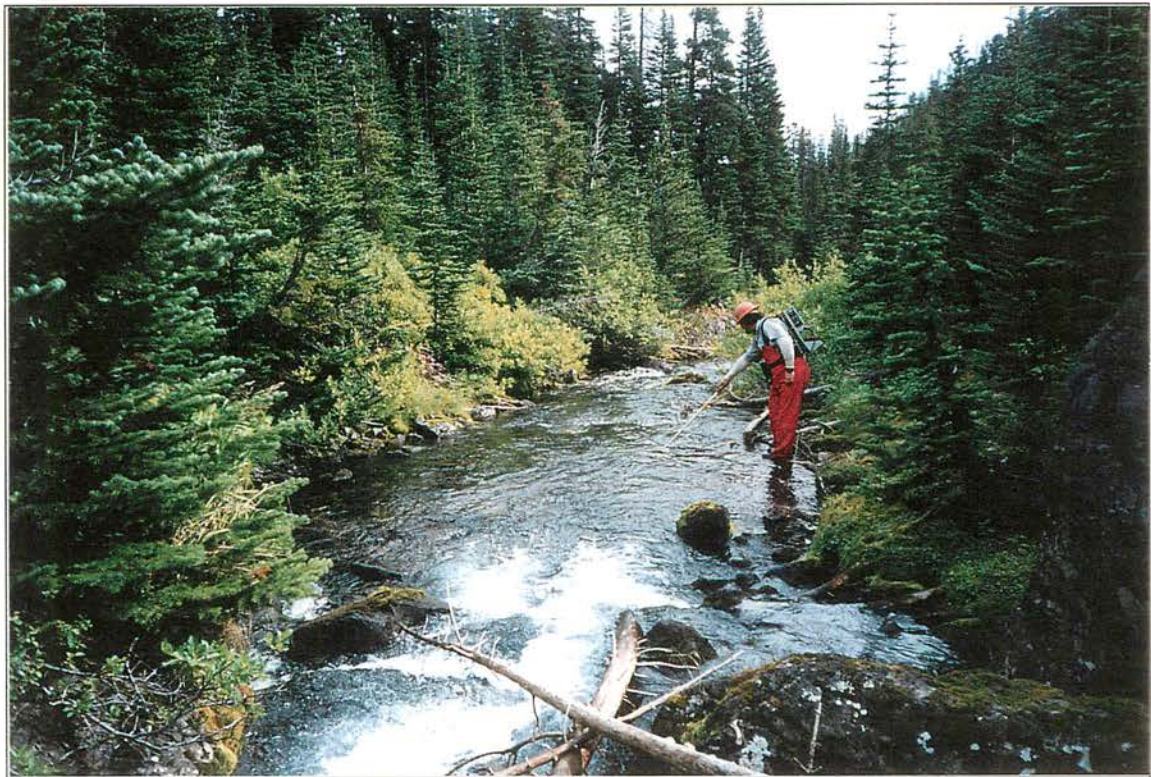
Site #540, Photo of DV.
Roll #54, Frame #24, Date: 2002/09/07



Site #540, Photo of DV
Roll #54, Frame #25, Date: 2002/09/07



Site #540, Upstream photo of cascade pool habitat.
Roll #55, Frame #01, Date: 2002/09/07



Site #540, Downstream photo of fish capture location.
Roll #55, Frame #02, Date: 2002/09/07



Site #540, Photo of pre-spawn DV
Roll #55, Frame #03, Date: 2002/09/07

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

4.0 093L.045 2593

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.045		ILP #: 2593		
REACH									
Reach #: 4.0		UTM(Zone/East/North): 9.625602.6037169				Sample Type: Random			
Length (km): 1.35		Coupling: Coupled		Magnitude: 11		BGC Zone: ESSF			
Gradient (%): 20.5		Confinement: Frequently Confin		Order: 2		Open water: Absent			
US Elev (m): 1681		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 541		Field UTM 9.626206.6036820		Agency: C172		Crew: JH/JD		Date: 2002/09/07	
Site Length (m): 270		GIS UTM 9.626482.6037174		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 2.43		1.9		3	
Stage: Low ☐				Wetted Width (m): 1.93		1.4		2.6	
Med ☒				Bankfull Depth (m): 0.63		0.5		0.8	
High ☐		Temp (C): 5		pH: 6.9		Conductivity: 60			
						Turbidity.: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 95.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 40.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Coupled						B2		B3	
Confinement: Frequently Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		S		N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☐		☐	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		Vascular ☐					
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
541	EF	1	250	841 sec	800	NFC	0		

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 4.0 ILP Map # 093L.045 ILP # 2593 Site # 541

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.045 ILP #: 2593 NID Map #: 093L.045 NID #: 50541 Reach #: 4.0 Site #: 541
Field UTM (Z.E.N): 9.626206.6036820 Method: GPU Site Lg: 270 Method: MAP Access: H
GIS UTM (Z.E.N): 9.626482.6037174 Ref. Name:
Date: 2002/09/07 Time: 12:30 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	2.00	1.90	2.50	2.40	2.80	3.00					2.43	Method I:	10.0	12.0	C	11.00
Wetted Width (m):	MS	1.60	1.40	2.10	1.90	2.00	2.60					1.93	Method II:			C	
Pool Depth (m):	MS	0.50	0.40	0.60	0.50	0.40	0.60					0.50					

Wb Depth: .6 .8 .5 Avg: 0.63 Method: T Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	S	N	D	N	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☐	☐

LWD: F DIST: E

LB SHP: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 60 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 95.0 D (cm): 40.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Present - pools >50 cm
Rearing Habitat	Moderate - associated with flows, cover, D95, LWD, cascade / pool habitat.
Spawning Habitat	Moderate - associated with gravels, flows and cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 55 F: 04	STD	U	Upstream photo of habitat within site.
R: 55 F: 05	STD	D	Downstream photo of habitat within site.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
4.0	093L.045	2593	541

COMMENTS	
Section	Comments
CHANNEL	S6, NFC.

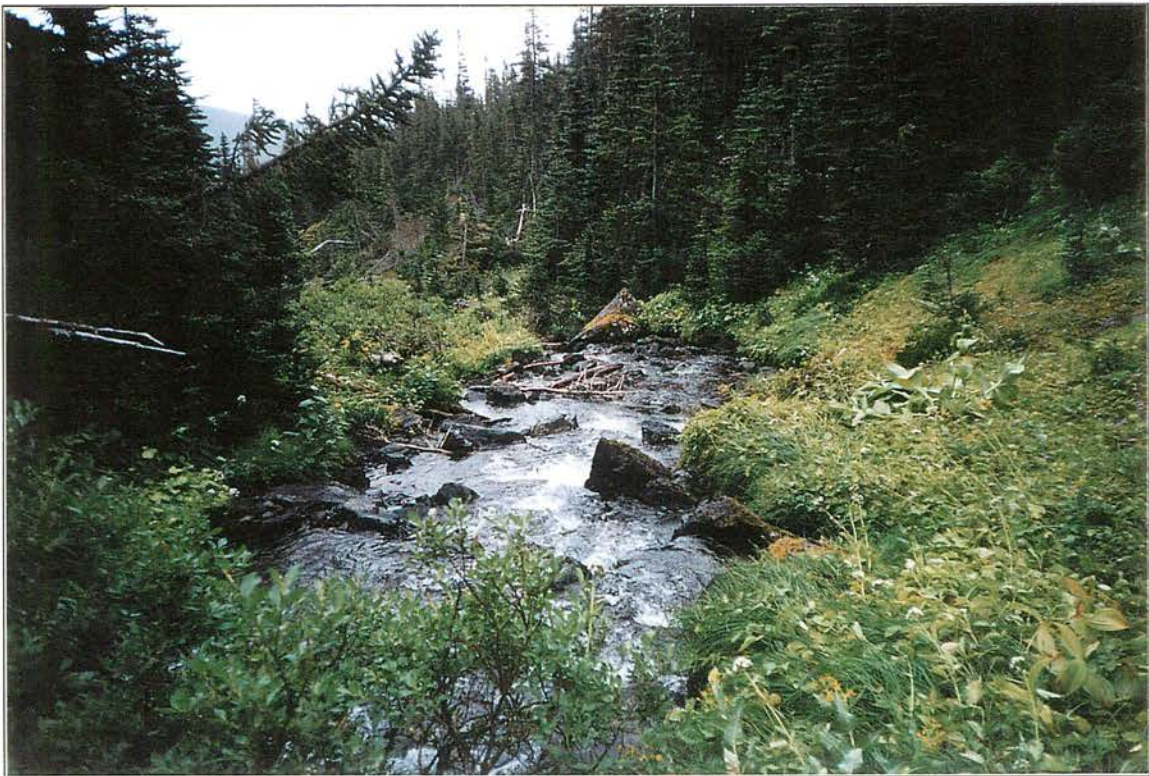
Morice North Planning Area

Reach #	ILP Map #	ILP #
4.0	093L.045	2593

Triton Environmental Consultants Ltd.



Site #541, Upstream photo of habitat within site.
Roll #55, Frame #04, Date: 2002/09/07



Site #541, Downstream photo of habitat within site.
Roll #55, Frame #05, Date: 2002/09/07

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 10.0 ILP Map # 093L.046 ILP # 2868

STREAM REFERENCING																																												
Gazetted Name:						Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2868																																				
REACH																																												
Reach #: 10.0		UTM(Zone/East/North): 9.623362.6032458				Sample Type: Biased																																						
Length (km): .64		Coupling: Coupled		Magnitude: 9		BGC Zone: AT																																						
Gradient (%): 14.5		Confinement: Occasionally Conf		Order: 3		Open water: Absent																																						
US Elev (m): 1484		Islands: NONE		Riparian Vegetation: Shrubs																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 542		Field UTM 9.623668.6032400		Agency: C172		Crew: JH/JD		Date: 2002/09/07																																				
Site Length (m): 400		GIS UTM 9.623535.6032383		Agency Name: Triton Environmental Consultants (Terrace)																																								
CHANNEL																																												
No Vis.Ch.: ☐		Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Channel Width (m):</td> <td>2.57</td> <td>1.600</td> <td>3.6</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>2.27</td> <td>1.600</td> <td>2.900</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.83</td> <td>0.5</td> <td>1.1</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m):	2.57	1.600	3.6	6	Wetted Width (m):	2.27	1.600	2.900	6	Bankfull Depth (m):	0.83	0.5	1.1	3	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Gradient %:</td> <td>18.00</td> <td>10</td> <td>25</td> <td>4</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.48</td> <td>0.400</td> <td>0.600</td> <td>6</td> </tr> </table>				Avg	Min	Max	#	Gradient %:	18.00	10	25	4	Pool Depth (m):	0.48	0.400	0.600	6
Avg	Min	Max	#																																									
Channel Width (m):	2.57	1.600	3.6	6																																								
Wetted Width (m):	2.27	1.600	2.900	6																																								
Bankfull Depth (m):	0.83	0.5	1.1	3																																								
Avg	Min	Max	#																																									
Gradient %:	18.00	10	25	4																																								
Pool Depth (m):	0.48	0.400	0.600	6																																								
Dewatered: ☐		Tribes.: ☐																																										
Stage: Low ☐																																												
Med ☒																																												
High ☐																																												
Temp (C): 6		pH: 6.5		Conductivity: 80		Turbidity.: Turbid ☐		Low ☐																																				
						Moderate ☐		Clear ☒																																				
MORPHOLOGY																																												
Bed Material: Dominant: Boulders		D95 (cm): 200.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☐ Span ☐																																		
Subdominant: Cobble		D (cm): 50.00								Braid ☐																																		
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3																																						
Coupling: Coupled																																												
Confinement: Frequently Confined																																												
Morphology: CP Cascade Pool																																												
COVER																																												
Total Cover: Abundant		Type: SWD LWD B U DP OV IV																																										
LWD: None		Amount: T T S N D N N																																										
LWD Dist: Not Applicable		Location: P/S/O: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐										FSZ: ☐																																
Right Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☒ Rock ☒ Manmade ☐										Crown Closure																																
Left Bank: Shape: Undercut		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☒ Rock ☐ Manmade ☐										1-20%																																
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest																																										
Left Bank: Rip.Veg:		Stage: Mature forest																																										
												Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐																																
FEATURES																																												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)																																	
093L.045	55524	C	5.0	GE	7	GE	R: 55	F: 12	L:	#:	9.623794.6032																																	
Comments: Typical cascade found within lower portion of reach.																																												
FISH																																												
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																			
542	EF	1	200	680 sec	800	NFC	0																																					

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 10.0 ILP Map # 093L.046 ILP # 2868 Site 542

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: Emerson Creek
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2868 NID Map #: 093L.045 NID #: 50542 Reach #: 10.0 Site #: 542
Field UTM (Z.E.N): 9.623668.6032400 Method: GPU Site Lg: 400 Method: MAP Access: H
GIS UTM (Z.E.N): 9.623535.6032383 Ref. Name:
Date: 2002/09/07 Time: 14:00 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	2.50	2.20	1.60	2.30	3.60	3.20					2.57	Method I:	22.0	15.0	C	18.00
Wetted Width (m):	MS	2.50	2.20	1.60	2.30	2.90	2.10					2.27	Method II:	25.0	10.0	C	
Pool Depth (m):	MS	0.50	0.40	0.40	0.40	0.60	0.60					0.48					

Wb Depth: .9 1.1 .5 Avg: 0.83 Method: MS Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	S	N	D	N	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☐	☐

LWD: N DIST: NA

LB SHP: U

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: U

Texture: F ☐ G ☐ C ☐ B ☒ R ☒ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 80 Method: S3
pH: 6.5 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 200.0 D (cm): 50.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.045	55524	C	5.0	GE	7	GE	R: 55 F: 12 L:	#:	9.623794.6032388	GIS

Comments: Typical cascade found within lower portion of reach.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Present - associated with deep pools.
Rearing Habitat	Moderate - associated with plunge pools, D95, LWD, cover.
Spawning Habitat	Moderate - associated with small patches of gravels, good cover.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000	10.0	093L.046	2868	542

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	55	F:	06	STD	U	Upstream photo of cascade / pool habitat with functioning D95.
R:	55	F:	07	STD	D	Downstream photo of 3 / 2 m cascade at UTM of site.
R:	55	F:	12	STD	U	Typical cascade found within lower portion of reach, this cascade is at bottom of Reach.
COMMENTS						
Section			Comments			
CHANNEL			Numerous 20 - 25% pitches for 30 m within site, bedrock cascades as well with 1 - 2 m falls within cascades.			
CHANNEL			NFC			

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 10.0 ILP Map # 093L.046 ILP # 2868

WATERBODY																	
Gazetted Name:										Local: Emerson Creek							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0																	
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000																	
Waterbody ID:										ILP Map #: 093L.046		ILP #: 2868		Reach #: 10 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/07		To:		2002/09/07		Agency: C172		Crew: JH/JD		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment							
542	093L.045	50542				GPU EF 1	6	80	C								
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
542	EF	1	1	2002/09/07	14:00	2002/09/07	14:30										
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
542	EF	1	1	O	680	200.0	2.0	800	I	5	SMITH	12B					
											ROOT						
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
542	EF	1	1	NFC		0											



Site #542, Upstream photo of cascade / pool habitat with functioning D95.
Roll #55, Frame #06, Date: 2002/09/07



Site #542, Downstream photo of 3 / 2 m cascade at UTM of site.
Roll #55, Frame #07, Date: 2002/09/07



Site #542, Typical cascade found within lower portion of reach, this cascade is at bottom of Reach.
Roll #55, Frame #12, Date: 2002/09/07

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.045 2690

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.045		ILP #: 2690		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.623330.6031969				Sample Type: Biased			
Length (km): .81		Coupling: Coupled		Magnitude: 13		BGC Zone: AT			
Gradient (%): 13.8		Confinement: Frequently Confin		Order: 3		Open water: Absent			
US Elev (m): 1497		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 543		Field UTM ..		Agency: C172		Crew: JH/JD		Date: 2002/09/09	
Site Length (m): 200		GIS UTM 9.623847.6032330		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		2.03		1.5	
Stage: Low ☒				Wetted Width (m):		1.98		1.600	
Med ☐				Bankfull Depth (m):		0.47		0.4	
High ☐				Temp (C): 6		pH: 6.8		Conductivity: 80	
								Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 150.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Gravels		D (cm): 60.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Frequently Confined				C1		C2		C3	
Morphology: CP Cascade Pool				C4		C5		S1	
				C6		S2		S3	
				C7		S4		S5	
				C8		S6		S7	
				C9		S8		S9	
				C10		S10		S11	
				C11		S12		S13	
				C12		S14		S15	
				C13		S16		S17	
				C14		S18		S19	
				C15		S20		S21	
				C16		S22		S23	
				C17		S24		S25	
				C18		S26		S27	
				C19		S28		S29	
				C20		S30		S31	
				C21		S32		S33	
				C22		S34		S35	
				C23		S36		S37	
				C24		S38		S39	
				C25		S40		S41	
				C26		S42		S43	
				C27		S44		S45	
				C28		S46		S47	
				C29		S48		S49	
				C30		S50		S51	
				C31		S52		S53	
				C32		S54		S55	
				C33		S56		S57	
				C34		S58		S59	
				C35		S60		S61	
				C36		S62		S63	
				C37		S64		S65	
				C38		S66		S67	
				C39		S68		S69	
				C40		S70		S71	
				C41		S72		S73	
				C42		S74		S75	
				C43		S76		S77	
				C44		S78		S79	
				C45		S80		S81	
				C46		S82		S83	
				C47		S84		S85	
				C48		S86		S87	
				C49		S88		S89	
				C50		S90		S91	
				C51		S92		S93	
				C52		S94		S95	
				C53		S96		S97	
				C54		S98		S99	
				C55		S100		S101	
				C56		S102		S103	
				C57		S104		S105	
				C58		S106		S107	
				C59		S108		S109	
				C60		S110		S111	
				C61		S112		S113	
				C62		S114		S115	
				C63		S116		S117	
				C64		S118		S119	
				C65		S120		S121	
				C66		S122		S123	
				C67		S124		S125	
				C68		S126		S127	
				C69		S128		S129	
				C70		S130		S131	
				C71		S132		S133	
				C72		S134		S135	
				C73		S136		S137	
				C74		S138		S139	
				C75		S140		S141	
				C76		S142		S143	
				C77		S144		S145	
				C78		S146		S147	
				C79		S148		S149	
				C80		S150		S151	
				C81		S152		S153	
				C82		S154		S155	
				C83		S156		S157	
				C84		S158		S159	
				C85		S160		S161	
				C86		S162		S163	
				C87		S164		S165	
				C88		S166		S167	
				C89		S168		S169	
				C90		S170		S171	
				C91		S172		S173	
				C92		S174		S175	
				C93		S176		S177	
				C94		S178		S179	
				C95		S180		S181	
				C96		S182		S183	
				C97		S184		S185	
				C98		S186		S187	
				C99		S188		S189	
				C100		S190		S191	
				C101		S192		S193	
				C102		S194		S195	
				C103		S196		S197	
				C104		S198		S199	
				C105		S200		S201	
				C106		S202		S203	
				C107		S204		S205	
				C108		S206		S207	
				C109		S208		S209	
				C110		S210		S211	
				C111		S212		S213	
				C112		S214		S215	
				C113		S216		S217	
				C114		S218		S219	
				C115		S220		S221	
				C116		S222		S223	
				C117		S224		S225	
				C118		S226		S227	
				C119		S228		S229	
				C120		S230		S231	
				C121		S232		S233	
				C122		S234		S235	
				C123		S236		S237	
				C124		S238		S239	
				C125		S240		S241	
				C126		S242		S243	
				C127		S244		S245	
				C128		S246		S247	
				C129		S248		S249	
				C130		S250		S251	
				C131		S252		S253	
				C132		S254		S255	
				C133		S256		S257	
				C134		S258		S259	
				C135		S260		S261	
				C136		S262		S263	
				C137		S264		S265	
				C138		S266		S267	
				C139		S268		S269	
				C140		S270		S271	
				C141		S272		S273	
				C142		S274		S275	
				C143		S276		S277	
				C144		S278		S279	
				C145		S280		S281	
				C146		S282		S283	
				C147		S284		S285	
				C148		S286		S287	
				C149		S288		S289	
				C150		S290		S291	
				C151		S292		S293	
				C152		S294		S295	
				C153		S296		S297	
				C154		S298		S299	
				C155		S300		S301	
				C156		S302		S303	
				C157		S304		S305	
				C158		S306		S307	
				C159		S308		S309	
				C160		S310		S311	
				C161		S312		S313	
				C162		S314		S315	
				C163		S316		S317	
				C164		S318		S319	
				C165		S320		S321	
				C166		S322		S323	
				C167		S324		S325	
				C168		S326		S327	
				C169		S328		S329	
				C170		S330		S331	
				C171		S332		S333	
				C172		S334		S335	
				C173		S336		S337	
				C174		S338		S339	
				C175		S340		S341	
				C176		S342		S343	
				C177		S344		S345	
				C178		S346		S347	
				C179		S348		S349	
				C180		S350		S351	
				C181		S352		S353	
				C182		S354		S355	
				C183		S356		S357	
				C184		S358		S359	
				C185		S360		S361	
				C186		S362		S363	
				C187		S364		S365	
				C188		S366		S367	
				C189		S368		S369	
				C190		S370		S371	
				C191		S372		S373	
				C192		S374		S375	
				C193		S376		S377	
				C194		S378		S379	
				C195		S380		S381	
				C196		S382		S383	
				C197		S384		S385	
				C198		S386		S387	
				C199		S388		S389	
				C200		S390		S391	
				C201		S392		S393	
				C202		S394		S395	
				C203		S396		S397	
				C204		S398		S399	
				C205		S400		S401	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.045 ILP # 2690 Site 543

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.045 ILP #: 2690 NID Map #: 093L.045 NID #: 50543 Reach #: 1.0 Site #: 543
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: MAP Access: H
GIS UTM (Z.E.N): 9.623847.6032330 Ref. Name:
Date: 2002/09/09 Time: 14:25 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	1.90	2.40	2.30	1.50	2.50	1.60					2.03	Method I:	12.0	8.0	C	11.67
Wetted Width (m):	T	1.90	2.50	2.30	1.60	2.00	1.60					1.98	Method II:	15.0		C	
Pool Depth (m):	T	0.30	0.40	0.60	0.30	0.60	0.70					0.48					

Wb Depth: .5 .4 .5 Avg: 0.47 Method: T Stage: L ☒ M ☐ H ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	D	T	S	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 80 Method: S3
pH: 6.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 150.0 D (cm): 60.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.045	56526	C	10.0	GE	20	GE	R: 55 F: 11 L:	#:	9.623945.6032379	GIS
Comments: Cascade.										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.045	55525	F	3.5	GE		HC	R: 55 F: 10 L:	#:	9.623911.6032372	GIS
Comments: Immediately upstream of Emerson.										

HABITAT QUALITY

Name	Comments
------	----------

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.045	2690	543

HABITAT QUALITY					
Name			Comments		
OverWinter Habitat			Present within deep pools >50 cm.		
Rearing Habitat			Moderate - associated with plunge pools, D95 cover.		
Spawning Habitat			Moderate - associated with cover, gravels and water.		
PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	55 F: 08	STD	U	Upstream photo of cascade pool habitat within site.	
R:	55 F: 09	STD	D	Downstream photo of cascade pool habitat within site.	
R:	55 F: 10	STD	U	Falls 3.5 m immediately upstream of Emerson Creek.	
R:	55 F: 11	STD	U	Cascade at base of falls.	
COMMENTS					
Section			Comments		
CHANNEL			Cascade and falls ~50 m upstream of confluence with heli landing trib.		
CHANNEL			NFC		

FDIS Fish Card

Morice North Planning Area

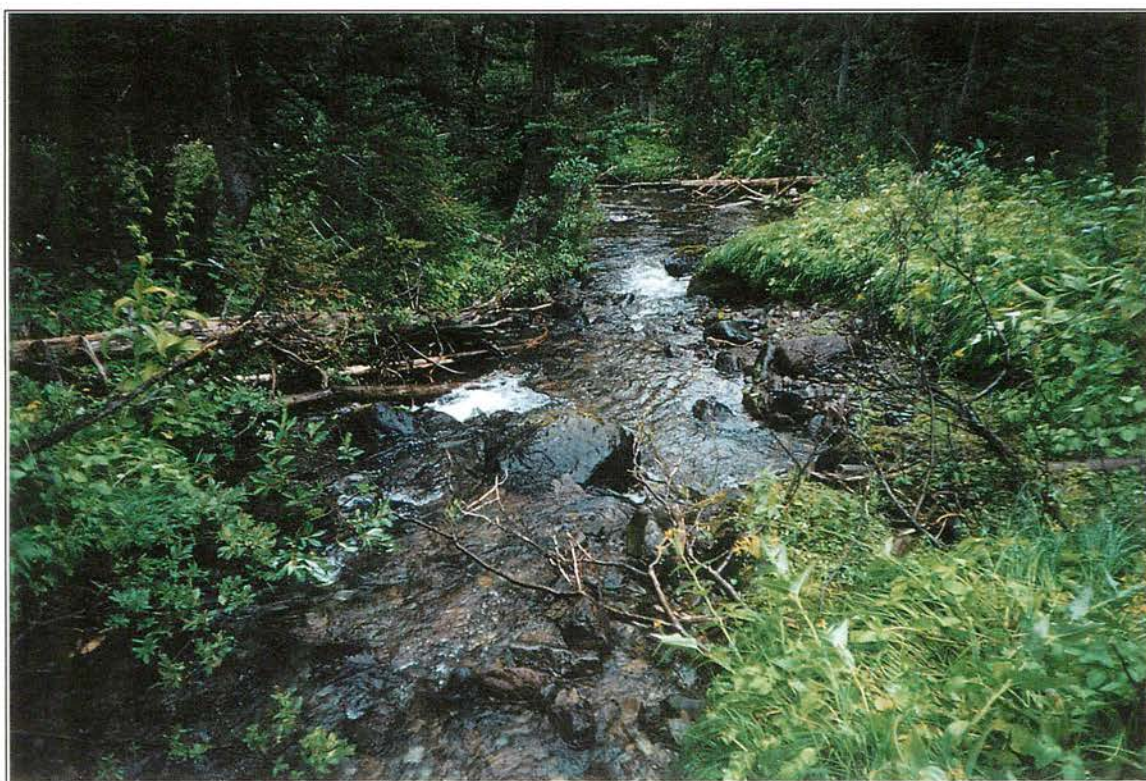
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0
ILP Map # 093L.045
ILP # 2690

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000													
Waterbody ID:						ILP Map #: 093L.045		ILP #: 2690		Reach #: 1 -			
Project ID: 5270						Lake/Stream: S			Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/07			To: 2002/09/07			Agency: C172		Crew: JH/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
543	093L.045	50543				GPU EF 1	6	80	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
543	EF 1	1	2002/09/07	16:25	2002/09/07	17:05							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
543	EF	1	1	O	520	200.0	2.0	600	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
543	EF	1	1	NFC		0							



Site #543, Upstream photo of cascade pool habitat within site.
Roll #55, Frame #08, Date: 2002/09/09



Site #543, Downstream photo of cascade pool habitat within site.
Roll #55, Frame #09, Date: 2002/09/09



Site #543, Falls 3.5 m immediately upstream of Emerson Creek.
Roll #55, Frame #10, Date: 2002/09/09



Site #543, Cascade at base of falls.
Roll #55, Frame #11, Date: 2002/09/09

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 9.0 ILP Map # 093L.046 ILP # 2868

PROJECT																													
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)					Project Code: 5270																								
Stream Name (gaz.): BULKLEY RIVER																													
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																													
WATERSHED																													
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																													
ILP Map #: 093L.046		ILP #: 2868		Reach #: 9.0		NID Map #: 093L.045		NID #: 10337																					
Air Photos			Names			UTM(Zone/East/North/Method)																							
LINE: BCC98341__			Gaz.:			9.623986.6032393																							
#: 0			Local:			Sample Type: R Wetland: ☐																							
SURVEY INFO																													
Date: 2002/08/27			Agency: C172			Crew: SG/SH																							
ATTRIBUTES																													
Length (km): 3.96		Gradient: 5.53		Setting: VW		DISTURBANCE INDICATORS																							
DS Elev.: 1172		Order: 4		Open water: A		<table border="0" style="width:100%;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>				O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐						
O1	B1	B2	B3	D1	D2	D3																							
☐	☐	☐	☐	☐	☐	☐																							
US Elev: 1391		Magnitude: 30		Confinement: FC		<table border="0" style="width:100%;"> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td><td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>				C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																				
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																				
		BGC Zone: AT		Coupling: PC																									
Valley Flat: N		C/D: ☐		Islands: N		Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR																							
Active Floodplain Visible: ☐		Est. Width:		Mass Movement: M		Exposed/Eroded: NS																							
Channel Pattern: IM				Riparian Veg.: NS		Landuse: NS																							

MAPS		
Map Type	Map #	Year
TRIM	093L.045	

Morice North Planning Area

Reach #	ILP Map #	ILP #
9.0	093L.046	2868

Triton Environmental Consultants Ltd.

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #
---------	-----------	-------

6.0	093L.046	2868
-----	----------	------

SITE																																			
Site #: 545			Field UTM 9.635205.6031517			Agency: C172			Crew: JH/JD			Date: 2002/09/07																							
Site Length (m): 300			GIS UTM 9.635200.6031485			Agency Name: Triton Environmental Consultants (Terrace)																													
CHANNEL																																			
No Vis.Ch.: ☐		Intermittent: ☐				Avg		Min		Max		#																							
Dewatered: ☐		Trib.: ☐		Channel Width (m):		9.33		8		11		6																							
Stage: Low ☒				Wetted Width (m):		5.83		4		8		6																							
Med ☐				Bankfull Depth (m):		3.73		0.9		9		3																							
High ☐				Temp (C): 6		pH: 6.9		Conductivity: 80																											
										Turbidity: Turbid ☐		Low ☐																							
												Moderate ☐		Clear ☒																					
MORPHOLOGY																																			
Bed Material: Dominant: Cobble			D95 (cm): 50.00			Bars: Non ☐			Side ☒			Diagonal ☐			Mid-channel ☐			Span ☐																	
Subdominant: Gravels			D (cm): 50.00															Braid ☐																	
Channel Pattern: Sinuous			Islands: None			DISTURBANCE			O1			B1			B2			B3			D1			D2			D3								
Coupling: Coupled						INDICATORS			☐			☐			☐			☐			☐			☐			☐								
Confinement: Frequently Confined						C1			C2			C3			C4			C5			S1			S2			S3			S4			S5		
Morphology: RP Riffle Pool						☐			☐			☐			☐			☐			☐			☐			☐			☐					
COVER																																			
Total Cover: Abundant			Type: SWD			LWD			B			U			DP			OV			IV														
LWD: Few			Amount: T			S			T			T			D			T			N														
LWD Dist: Clumped			Location: P/S/O:			☒			☐			☒			☐			☒			☐			☐			FSZ: ☐								
Right Bank: Shape: Undercut			Texture: Fines ☐			Gravel ☒			Cobble ☐			Boulder ☐			Rock ☐			Manmade ☐			Crown Closure														
Left Bank: Shape: Undercut			Texture: Fines ☐			Gravel ☒			Cobble ☐			Boulder ☐			Rock ☐			Manmade ☐			1-20%														
Right Bank: Rip.Veg: Mixed C/D			Stage: Mature forest																																
Left Bank: Rip.Veg:			Stage: Mature forest															Instream Veg: None ☒			Algae ☐			Moss ☐			Vascular ☐								
FEATURES																																			
NID Map		NID		Type		Hgt		Method		Lg		Method		Photo		AirPhoto		UTM (Z/E/N)																	
093L.046		70545		F		5.0		GE				HC		R: 66 F: 09		L: #:		9.633983.6032																	
Comments:		Falls in Reach 7 of Emerson Creek.																																	
FISH																																			
Site Number		Capture Method		Number of Events		Length fished (m)		Total Time		Voltage		Species		Total Fish		Minimum Length (mm)		Maximum Length (mm)																	
267		EF		1		225		737 sec		600		NFC		0																					
FISH																																			
Site Number		Capture Method		Number of Events		Length fished (m)		Total Time		Voltage		Species		Total Fish		Minimum Length (mm)		Maximum Length (mm)																	
545		EF		1		200		636 sec		800		RB		1		140		140																	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 6.0 ILP Map # 093L.046 ILP # 2868 Site # 545

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2868 NID Map #: 093L.046 NID #: 50545 Reach #: 6.0 Site #: 545
Field UTM (Z.E.N): 9.635205.6031517 Method: GPU Site Lg: 300 Method: MAP Access: H
GIS UTM (Z.E.N): 9.635200.6031485 Ref. Name:
Date: 2002/09/07 Time: 17:30 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	T	8.00	9.00	11.00	10.00	8.00	10.00					9.33
Wetted Width (m):	T	4.00	5.00	8.00	7.00	5.00	6.00					5.83
Pool Depth (m):	T	0.90	0.90	0.80	1.30	0.50	0.40					0.80

	Gadient %		Mtd	Avg
Method I:	2.0	3.0	C	2.50
Method II:			C	

Wb Depth: .9 9.0 1.3 Avg: 3.73 Method: T Stage: L ☒ M ☐ H ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	T	T	D	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS:
Temp: 6
pH: 6.9
Flood Signs: None

Method: T4
Method: P2
Method: GE

Req #: Cond.: 80 Method: S3
Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G
D95: 50.0 D (cm): 50.00 Morph: RP
Pattern: SI
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐

O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.046	70545	F	5.0	GE		HC	R: 66 F: 09 L:	#:	9.633983.6032512	GIS

Comments: Falls in Reach 7 of Emerson Creek.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potential in pools present.
Rearing Habitat	Associated with pools, riffles and run.
Spawning Habitat	Moderate - associated with gravels, pools, LWD and cover.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
6.0	093L.046	2868	545

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	55	F:	13	STD	U	Downstream cascades.
R:	55	F:	14	STD	U	Downstream cascades.
R:	55	F:	15	STD	X	Fish.
R:	55	F:	16	STD	U	Upstream photo of upstream habitat.
R:	55	F:	17	STD	D	Downstream photo of downstream habitat.
R:	66	F:	09	STD	U	Emerson falls barrier in Reach 7 (UTM 633953 / 6032549).
R:	66	F:	10	STD	U	Emerson falls barrier in Reach 7 (UTM 633953 / 6032549).
COMMENTS						
Section				Comments		
CHANNEL				RB captured.		

Morice North Planning Area

Reach #	ILP Map #	ILP #
6.0	093L.046	2868

Triton Environmental Consultants Ltd.



Site #545, Emerson barrier in Reach 7 (UTM 633953 / 6032549).
Roll #66, Frame #09, Date: 2002/10/01



Site #545, Emerson barrier in Reach 7 (UTM 633953 / 6032549).
Roll #66, Frame #10, Date: 2002/10/01



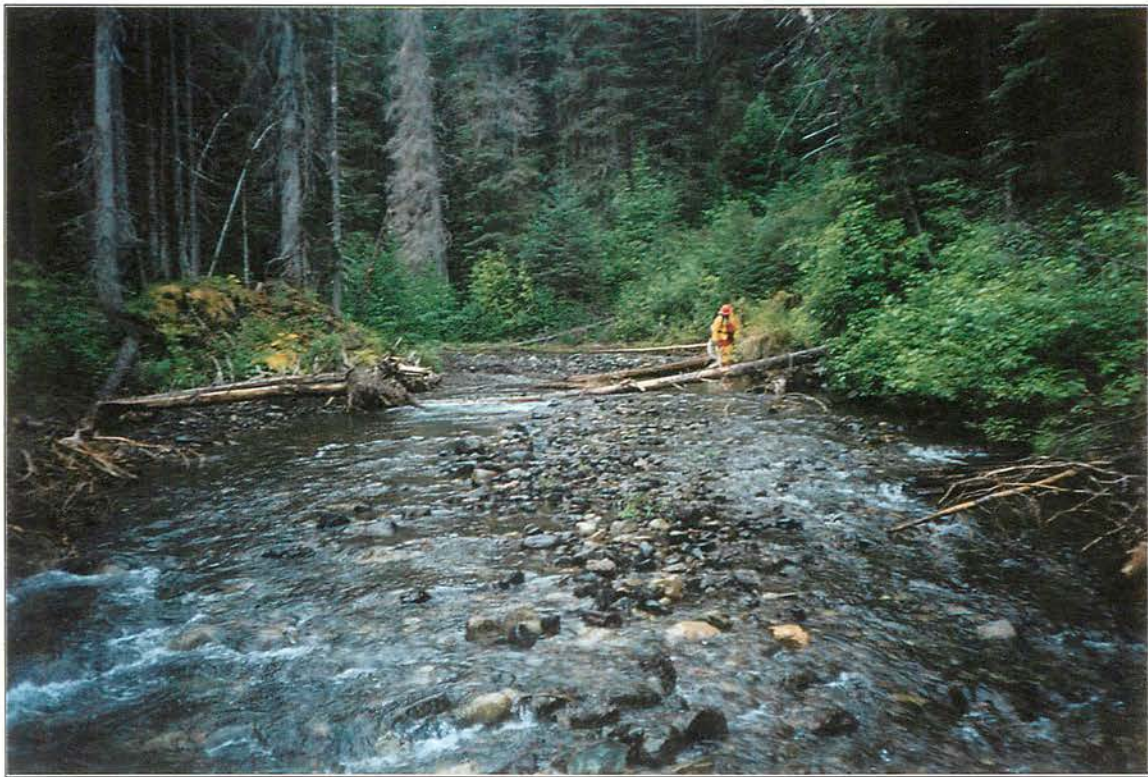
Site #545, Downstream cascades.
Roll #55, Frame #13, Date: 2002/09/07



Site #545, Downstream cascades.
Roll #55, Frame #14, Date: 2002/09/07



Site #545, Fish.
Roll #55, Frame #15, Date: 2002/09/07



Site #545, Upstream photo of upstream habitat.
Roll #55, Frame #16, Date: 2002/09/07



Site #545, Downstream photo of downstream habitat.
Roll #55, Frame #17, Date: 2002/09/07

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
4.0 093L.036 3406

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3406		
REACH									
Reach #: 4.0		UTM(Zone/East/North): 9.635791.6026503				Sample Type: Biased			
Length (km): 2.03		Coupling: Partially Couple		Magnitude: 181		BGC Zone: SBS			
Gradient (%): 1.9		Confinement: Occasionally Conf		Order: 5		Open water: Absent			
US Elev (m): 757		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 546		Field UTM ..		Agency: C172		Crew: JH/JD		Date: 2002/09/09	
Site Length (m): 270		GIS UTM 9.635886.6026479		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		#		Avg		Min	
Stage: Low ☒		Channel Width (m): 10.25		8		12		6	
Med ☐		Wetted Width (m): 3.37		1.5		4		6	
High ☐		Bankfull Depth (m): 0.57		0.5		0.6		3	
Temp (C): 5		pH: 6.9		Conductivity: 80					
						Turbidity.: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 50.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Cobble		D (cm): 50.00				Mid-channel ☐		Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine				C1		C2		C3	
Morphology: RP Riffle Pool				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		T		N	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Mature forest				Vascular ☐			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
546	EF	1	220	240 sec	700	DV	5	60	80
546	EF	1	220	240 sec	700	BT	5	60	80

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 4.0 ILP Map # 093L.036 ILP # 3406 Site 546

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: Gold Creek
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.036 ILP #: 3406 NID Map #: 093L.036 NID #: 50546 Reach #: 4.0 Site #: 546
Field UTM (Z.E.N): .. Method: Site Lg: 270 Method: MAP Access: H
GIS UTM (Z.E.N): 9.635886.6026479 Ref. Name:
Date: 2002/09/09 Time: 09:00 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	10.00	12.00	12.00	10.00	8.00	9.50					10.25	Method I:	4.0	2.0	C	3.00
Wetted Width (m):	T	4.00	1.50	4.00	3.20	3.90	3.60					3.37	Method II:			C	
Pool Depth (m):	T	0.50	0.30	0.50	0.30	0.30	0.40					0.38					

Wb Depth: .6 .5 .6 Avg: 0.57 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	D	T	N	S	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

LWD: F DIST: C

LB SHP: V

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 80 Method: S3
pH: 6.9 Method: P2 Method: GE
Flood Signs: Rafted debris Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 50.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Present - deep pools, perennial flows.
Rearing Habitat	High - associated with LWD and deep pool cover.
Spawning Habitat	High - associated with cover, gravels, flows, access.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 56 F: 01 STD U			Upstream photo of habitat within site.
R: 56 F: 02 STD D			Downstream photo of habitat within site.
R: 56 F: 03 STD X			Juvenile BT / DV capture location.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
4.0	093L.036	3406	546

COMMENTS	
Section	Comments
CHANNEL	Juvenile DV captured 60-80 mm.
CHANNEL	Juvenile BT captured 60-80 mm.

FDIS Fish Card

Morice North Planning Area

Watershed Code:

000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #

4.0

ILP Map #

093L.036

ILP #

3406

WATERBODY

Gazetted Name:

Local: Gold Creek

Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0

WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000

Waterbody ID:

ILP Map #: 093L.036

ILP #:

3406

Reach #:

4 -

Project ID: 5270

Lake/Stream: S

Lake From Date:

Fish Permit #: 145269

Date: 2002/09/09

To: 2002/09/09

Agency: C172

Crew: JH/JD

Resample: ☐

SITE / METHOD

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd	MTD/NO	Temp	Cond	Turbid	Comment
546	093L.036	50546		GPU EF 1	5	80	C	

A. GEAR SETTINGS

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
546	EF 1	1	2002/09/09	09:00	2002/09/09	09:30	

C. ELECTROFISHER SPECIFICATIONS

Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
546	EF	1	1	O	240	220.0	10.0	700	1	5	SMITH ROOT

FISH SUMMARY

Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
546	EF	1	1	BT	J	2+	5	60	80	R	
546	EF	1	1	DV	J	2+	5	60	80	R	

INDIVIDUAL FISH DATA

Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Roll #	Frame#	Comment
								Str/Smpl#		Str/Smpl#			
546	EF	1	1	DV	60		U	U					
546	EF	1	1	DV	70		U	U					
546	EF	1	1	BT	70		U	U					
546	EF	1	1	BT	60		U	U					
546	EF	1	1	DV	60		U	U					
546	EF	1	1	BT	70		U	U					
546	EF	1	1	BT	80		U	U					
546	EF	1	1	BT	80		U	U					
546	EF	1	1	DV	60		U	U					
546	EF	1	1	DV	70		U	U					



Site #546, Upstream photo of habitat within site.
Roll #56, Frame #01, Date: 2002/09/09



Site #546, Downstream photo of habitat within site.
Roll #56, Frame #02, Date: 2002/09/09



Site #546, Juvenile BT / DV capture location.
Roll #56, Frame #03, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3439

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3439		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.634017.6024317				Sample Type: Biased			
Length (km): 2.89		Coupling: Partially Couple		Magnitude: 28		BGC Zone: SBS			
Gradient (%): 6.7		Confinement: Frequently Confin		Order: 4		Open water: Absent			
US Elev (m): 951		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 547		Field UTM ..		Agency: C172		Crew: JH/JD		Date: 2002/09/09	
Site Length (m): 160		GIS UTM 9.635632.6026432		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 4.84		3.6		6	
Stage: Low ☒				Wetted Width (m): 2.48		1.8		3.1	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5	
High ☐									
Temp (C): 5		pH: 6.9		Conductivity: 80					
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Cobble		D (cm): 20.00						Mid-channel ☐	
Channel Pattern: Irregular, Wandering		Islands: None		Disturbance		O1		B1	
Coupling: Partially Coupled				Indicators		B2		B3	
Confinement: Occasionally Confin						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		N		T	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☐		☒	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
547	EF	1	150	445 sec	700	DV	5	60	80
547	EF	1	150	445 sec	700	BT	11	60	550

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.036 ILP # 3439 Site 547

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3439 NID Map #: 093L.036 NID #: 50547 Reach #: 1.0 Site #: 547
Field UTM (Z.E.N): .. Method: Site Lg: 160 Method: MAP Access: H
GIS UTM (Z.E.N): 9.635632.6026432 Ref. Name:
Date: 2002/09/09 Time: 09:30 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	5.10	3.60	3.80	5.20	5.10	6.00	5.10				4.84	Method I:	5.0	4.0	C	5.25
Wetted Width (m):	T	2.10	2.30	1.80	3.00	3.10	2.60					2.48	Method II:	7.0	5.0	C	
Pool Depth (m):	T	0.40	0.50	0.30	0.40	0.50	0.30	0.30				0.39					

Wb Depth: .4 .5 .5 Avg: 0.47 Method: T Stage: L ☒ M ☐ H ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	D	N	T	T	S	N
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☐

LWD: F DIST: E

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 80 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 20.0 D (cm): 20.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potential - associated with pools.
Rearing Habitat	High DV rearing - associated with cover, flows and access.
Spawning Habitat	Moderate - associated with gravels and cover, subject to disturbances.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 56 F: 04	STD	X	BT ~3 to 5 days pre-spawn.
R: 56 F: 05	STD	X	BT female.
R: 56 F: 06	STD	X	Gravel patch @ BT spawning location.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP # Site
1.0 093L.036 3439 547

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	56	F: 07	STD	U	Upstream photo of heavy cover.
R:	56	F: 08	STD	D	Downstream photo of disturbed area.
R:	56	F: 09	STD	X	BT paired up on redd.
R:	56	F: 10	STD	X	BT paired up on redd.
R:	56	F: 11	STD	X	BT paired up on redd.
R:	56	F: 12	STD	X	Fish captured at site.
R:	56	F: 13	STD	X	Fish captured at site.
R:	56	F: 14	STD	X	Fish captured at site.
R:	56	F: 15	STD	X	Fish captured at site.
R:	56	F: 16	STD	X	Fish captured at site.
R:	56	F: 17	STD	X	Fish captured at site.
COMMENTS					
Section			Comments		
CHANNEL			45 to 55 cm BT captured.		
CHANNEL			Eggs extruded when slightly pressed, still full. Fish on spawning site / location.		
CHANNEL			Adult BT ~3 to 5 days pre-spawn. Juvenile DV and BT captured.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 1.0 ILP Map # 093L.036 ILP # 3439

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-0000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-0															
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3439		Reach #: 1 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date: 2002/09/09		To: 2002/09/09		Agency: C172		Crew: JH/JD		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
547	093L.036	50547				GPU EF 1	5	80	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
547	EF 1	1	2002/09/09	09:30	2002/09/09	11:00									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
547	EF	1	1	O	445	150.0	5.0	700	I	5	SMITH	12B			
										ROOT					
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
547	EF	1	1	DV	J	5	60 80	R							
547	EF	1	1	BT	J	5	60 80	R							
547	EF	1	1	BT	A	6	450 550	R							
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
547	EF	1	1	BT	450		U	U							
547	EF	1	1	BT	550		U	U							
547	EF	1	1	BT	530		U	U							
547	EF	1	1	BT	510		U	U							
547	EF	1	1	BT	520		U	U							
547	EF	1	1	DV	80		U	U							
547	EF	1	1	BT	60		U	U							
547	EF	1	1	DV	70		U	U							
547	EF	1	1	DV	70		U	U							
547	EF	1	1	DV	60		U	U							
547	EF	1	1	BT	80		U	U							
547	EF	1	1	BT	80		U	U							
547	EF	1	1	DV	60		U	U							
547	EF	1	1	BT	72		U	U							
547	EF	1	1	BT	60		U	U							
COMMENTS															
Section								Comments							
WATERBODY								Photos Roll 56 # 12 to 17 taken of fish captured at site.							



Site #547, BT ~3 to 5 days pre-spawn.
Roll #56, Frame #04, Date: 2002/09/09



Site #547, BT female.
Roll #56, Frame #05, Date: 2002/09/09



Site #547, Gravel patch @ BT spawning location.
Roll #56, Frame #06, Date: 2002/09/09



Site #547, Upstream photo of heavy cover.
Roll #56, Frame #07, Date: 2002/09/09



Site #547, Downstream photo of disturbed area.
Roll #56, Frame #08, Date: 2002/09/09



Site #547, BT paired up on redd.
Roll #56, Frame #09, Date: 2002/09/09



Site #547, BT paired up on redd.
Roll #56, Frame #10, Date: 2002/09/09



Site #547, BT paired up on redd.
Roll #56, Frame #11, Date: 2002/09/09



Site #547, Fish captured at site.
Roll #56, Frame #12, Date: 2002/09/09



Site #547, Fish captured at site.
Roll #56, Frame #13, Date: 2002/09/09



Site #547, Fish captured at site.
Roll #56, Frame #14, Date: 2002/09/09



Site #547, Fish captured at site.
Roll #56, Frame #15, Date: 2002/09/09



Site #547, Fish captured at site.
Roll #56, Frame #16, Date: 2002/09/09



Site #547, Fish captured at site.
Roll #56, Frame #17, Date: 2002/09/09

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.036 ILP # 3406

PROJECT									
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)					Project Code: 5270				
Stream Name (gaz.): BULKLEY RIVER									
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000									
ILP Map #: 093L.036	ILP #: 3406	Reach #: 5.0	NID Map #: 093L.036		NID #: 11622				
Air Photos		Names			UTM(Zone/East/North/Method)				
LINE: BCC98341__		Gaz.:			9.634432.6027084				
#: 0		Local:			Sample Type: R Wetland: ☐				
SURVEY INFO									
Date: 2002/08/27			Agency: C172			Crew: SG/SH			
ATTRIBUTES									
Length (km): 1.68	Gradient: 2.68	Setting: VW	DISTURBANCE INDICATORS						
DS Elev.: 757	Order: 5	Open water: A	O1	B1	B2	B3	D1	D2	D3
US Elev: 802	Magnitude: 153	Confinement: OC	C1	C2	C3	C4	C5	S1	S2
	BGC Zone: SBS	Coupling: PC							
Valley Flat: N	C/D:	Islands: N							
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR							
Channel Pattern: SI		Mass Movement: M	Exposed/Eroded: NS						
		Riparian Veg.: NS	Landuse: NS						

MAPS		
Map Type	Map #	Year
TRIM	093L.036	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.036 ILP # 3406

WATERBODY												
Gazetted Name:						Local:						
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0												
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000												
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3406		Reach #: 5 -		
Project ID: 5270				Lake/Stream: S				Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/09			To: 2002/09/09			Agency: C172		Crew: JH/JD	Resample: ☐

SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
548	093L.036	50548	9	635600	6026500	GPU EF 1	5	70				
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
548	EF 1	1	2002/09/09	10:00	2002/09/09	10:30						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
548	EF 1	1	O	420	175.0	5.0	700	I	5	SMITH ROOT	12B	

FISH SUMMARY											
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment		
548	EF 1	1	BT	J	2+	10	80 100	R			
548	EF 1	1	DV	J	2+	10	80 100	R			

INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
548	EF	1	1	DV	100		U	U							
548	EF	1	1	DV	100		U	U							
548	EF	1	1	DV	80		U	U							
548	EF	1	1	BT	90		U	U							
548	EF	1	1	BT	90		U	U							
548	EF	1	1	DV	80		U	U							
548	EF	1	1	DV	100		U	U							
548	EF	1	1	BT	80		U	U							
548	EF	1	1	BT	90		U	U							
548	EF	1	1	BT	90		U	U							
548	EF	1	1	BT	80		U	U							
548	EF	1	1	BT	80		U	U							
548	EF	1	1	DV	90		U	U							
548	EF	1	1	DV	90		U	U							
548	EF	1	1	BT	100		U	U							
548	EF	1	1	DV	100		U	U							
548	EF	1	1	BT	80		U	U							
548	EF	1	1	DV	90		U	U							
548	EF	1	1	DV	100		U	U							
548	EF	1	1	BT	90		U	U							

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.036	3439

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3439 Site # 549

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3439 NID Map #: 093L.036 NID #: 50549 Reach #: 2.0 Site #: 549
Field UTM (Z.E.N): .. Method: Site Lg: 180 Method: MAP Access: H
GIS UTM (Z.E.N): 9.632490.6022534 Ref. Name:
Date: 2002/09/09 Time: 10:45 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	2.70	2.00	2.30	3.90	2.40	2.90					2.70	Method I:	12.0	8.0	C	8.00
Wetted Width (m):	T	1.20	2.00	2.10	1.10	1.90	1.60					1.65	Method II:	10.0	2.0	C	
Pool Depth (m):	T	0.30	0.20	0.20	0.30	0.40	0.40					0.30					

Wb Depth: .6 .5 .6 Avg: 0.57 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	D	N	T	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☒ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☒ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 80 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 75.0 D (cm): 20.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.036	55527	F	8.0	GE	4	GE	R: 56 F: 18 L:	#:	9.632404.6022516	GIS
Comments: 6 and 2 m falls										

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potential in plunge pools.
Rearing Habitat	Moderate - associated with functioning LWD and D95 good cover.
Spawning Habitat	Low - associated with cover, rearing and water - limited by coarse angular substrates.

FDIS Site Card

Morice North Planning Area

Reach #

ILP Map #

ILP #

Site

2.0

093L.036

3439

549

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	56	F: 18	STD	U	6 m Falls.
R:	56	F: 19	STD	X	Spawning ~3 to 5 away from spawning (male DV)
R:	56	F: 20	STD	X	Spawning ~3 to 5 away from spawning (male DV).
R:	56	F: 21	STD	X	Extruded milt on hand with DV.
COMMENTS					
Section			Comments		
CHANNEL			Falls are impassable. Upstream access - falls from downstream mainstem is possible for BT.		
CHANNEL			DV captured 80 - 100 mm. Upstream lake should be sampled.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.036 ILP # 3439

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000															
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3439		Reach #: 2 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date:		2002/09/09		To:		2002/09/09		Agency: C172			
								Crew: JH/JD		Resample:		☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
549	093L.036	50550				GPU EF 1	5	80	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
549	EF 1	1	2002/09/09	10:45	2002/09/09	11:45									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
549	EF 1	1	O	350	150.0	2.7	700	I	5	SMITH ROOT	12B				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
549	EF 1	1	DV	A	4+	1	140	140	R						
549	EF 1	1	DV	J	2+	5	80	160	R						
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
549	EF 1	1	DV	80		U	U								
549	EF 1	1	DV	100		U	U								
549	EF 1	1	DV	100		U	U								
549	EF 1	1	DV	140		U	U								
549	EF 1	1	DV	90		U	U								
549	EF 1	1	DV	90		U	U								



Site #549, 6 m Falls.
Roll #56, Frame #18, Date: 2002/09/09



Site #549, Spawning ~3 to 5 away from spawning (male DV)
Roll #56, Frame #19, Date: 2002/09/09



Site #549, Spawning ~3 to 5 away from spawning (male DV).
Roll #56, Frame #20, Date: 2002/09/09



Site #549, Extruded milt on hand with DV.
Roll #56, Frame #21, Date: 2002/09/09

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.036	3439

WATERBODY													
Gazetted Name:							Local:						
Project Code: 460-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.036				ILP #:		3439		Reach #: 3 -	
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269				Date: 2002/09/09		To: 2002/09/09		Agency: C172		Crew: JH/JD		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
550	093L.036	50550				GPU	EF	1	5	80	C		
A. GEAR SETTINGS													
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment					
550	EF	1	1	2002/09/09	12:00	2002/09/09	12:45						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
550	EF	1	1	O	624	180.0	2.7	700	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
550	EF	1	1	NFC			0						

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 9.0 ILP Map # 093L.036 ILP # 3406

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3406		
REACH									
Reach #: 9.0		UTM(Zone/East/North): 9.625179.6029022				Sample Type: Biased			
Length (km): 3.84		Coupling: Partially Couple		Magnitude: 9		BGC Zone: AT			
Gradient (%): 5.5		Confinement: Frequently Confin		Order: 3		Open water: Absent			
US Elev (m): 1398		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 551		Field UTM 9.625610.6029506		Agency: C172		Crew: JH/JD		Date: 2002/09/09	
Site Length (m): 100		GIS UTM 9.625648.6029560		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 5.07		4.2		6.1	
Stage: Low ☐				Wetted Width (m): 3.23		2.1		4.1	
Med ☒				Bankfull Depth (m): 0.57		0.5		0.6	
High ☐		Temp (C): 5		pH: 6.8		Conductivity: 50			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 90.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 60.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Partially Coupled						B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: CP Cascade Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: T		T		D		N	
LWD Dist: Not Applicable		Location: P/S/O:		☒		☒		☒	
				☒		☐		☐	
				☐		☐		☐	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage				Vascular ☐			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
551	EF	1	100	545 sec	700	BT	10	140	190
552	EF	1	100	310 sec	700	NFC	0		
555	EF	1	180	682 sec	700	NFC	0		

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
9.0	093L.036	3406	551

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000-000-000

Project Code: 5270

Gazetted Name:

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Local Name:

ILP Map #: 093L.036	ILP #: 3406	NID Map #: 093L.035	NID #: 50551	Reach #: 9.0	Site #: 551
Field UTM (Z.E.N): 9.625610.6029506	Method: GPU	Site Lg: 100	Method: MAP	Access: H	
GIS UTM (Z.E.N): 9.625648.6029560		Ref. Name:			

Date: 2002/09/09 Time: 13:00 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	T	4.20	4.30	5.00	5.20	6.10	5.60					5.07
Wetted Width (m):	T	2.60	2.10	3.40	4.00	3.20	4.10					3.23
Pool Depth (m):	T	0.40	0.50	0.30	0.30	0.40	0.40					0.38

	Gradient %		Mtd	Avg
Method I:	12.0	7.0	C	8.25
Method II:	8.0	6.0	C	

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	D	N	S	N	N
Loc: P/S/O:	☒ ☐ ☐	☒ ☐ ☐	☒ ☐ ☐	☐ ☐ ☐	☒ ☐ ☐	☐ ☐ ☐	☐ ☐ ☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

EMS:
Temp: 5
pH: 6.8
Flood Signs: None

Method: T4
Method: P2
Method: GE

Req #:
 Cond.: 50
 Method: S3
 Turb.: T ☐ M ☐ L ☐ C ☒
 Method: GE

Bed Material: Dominant: B Subdom: G
D95: 90.0 D (cm): 60.00 Morph: CP
Pattern: SI
Islands: N
Coupling: PC
Confinement: OC
FSZ:

DISTURBANCE INDICATORS

Diagram illustrating the 16-bit bus structure. The bus is divided into two rows of 8 bits each. The top row contains bits O1, B1, B2, B3, D1, D2, D3, and an unlabeled bit. The bottom row contains bits C1, C2, C3, C4, C5, S1, S2, S3, S4, and S5. Each bit is represented by a square box.

Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

Name	Comments
OverWinter Habitat	Present and associated with pools and potential high energy flows.
Rearing Habitat	Moderate - associated with cascade / pool habitat.
Spawning Habitat	Low - associated with gravels, cover and water.

Photo				Foc Lg	Dir	Comments
R:	56	F:	22	STD	X	Bull Trout.
R:	56	F:	23	STD	U	Upstream photo of site.
R:	56	F:	24	STD	D	Downstream photo of site.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000	9.0	093L.036	3406	551

COMMENTS	
Section	Comments
CHANNEL	Only BT captured ~10 / 100 m.

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 9.0 ILP Map # 093L.036 ILP # 3406

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-000-000-000-000-0															
Waterbody ID:					ILP Map #: 093L.036					ILP #: 3406		Reach #: 9 -			
Project ID: 5270					Lake/Stream: S					Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/09			To: 2002/09/09			Agency: C172			Crew: JH/JD		Resample: ☐	
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
555	093L.035	50555				GPU EF 1	6	70	C						
552	093L.035	50552				GPU EF 1	5	60	C						
551	093L.035	50551				GPU EF 1	5	50	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
551	EF 1	1	2002/09/09	13:00	2002/09/09	13:35									
552	EF 1	1	2002/09/09	13:45	2002/09/09	14:20									
555	EF 1	1	2002/09/09	16:00	2002/09/09	16:40									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
551	EF	1	1	O	545	100.0	5.0	700	I	5	SMITH ROOT 12B				
552	EF	1	1	O	310	100.0	5.0	700	I	5	SMITH ROOT 12B				
555	EF	1	1	O	682	180.0	5.0	700	I	5	SMITH ROOT 12B				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
551	EF	1	1	BT	A	10	140 190	R							
552	EF	1	1	NFC		0									
555	EF	1	1	NFC		0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
551	EF	1	1	BT	140		U	U							
551	EF	1	1	BT	140		U	U							
551	EF	1	1	BT	168	39.9	U	U	FR	58					Unageable
551	EF	1	1	BT	190	60.5	U	U	FR	57	3				
551	EF	1	1	BT	160	38.9	U	U	FR	55					Unageable
551	EF	1	1	BT	140		U	U							
551	EF	1	1	BT	150		U	U							
551	EF	1	1	BT	188	75.0	U	U	FR	56	3				
551	EF	1	1	BT	150		U	U							
551	EF	1	1	BT	185	54.6	U	U	FR	54	4				



Site #551, Bull Trout.
Roll #56, Frame #22, Date: 2002/09/09



Site #551, Upstream photo of site.
Roll #56, Frame #23, Date: 2002/09/09



Site #551, Downstream photo of site.
Roll #56, Frame #24, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.035 ILP # 3073

STREAM REFERENCING																																												
Gazetted Name:						Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.035		ILP #:		3073																																		
REACH																																												
Reach #: 1.0		UTM(Zone/East/North): 9.624921.6028725				Sample Type: Random																																						
Length (km): .39		Coupling: Coupled		Magnitude: 2		BGC Zone: ESSF																																						
Gradient (%): 19.7		Confinement: Frequently Confin		Order: 2		Open water: Absent																																						
US Elev (m): 1462		Islands: NONE		Riparian Vegetation: Mixed C/D																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 553		Field UTM 9.625090.6028918		Agency: C172		Crew: JH/JD		Date: 2002/09/09																																				
Site Length (m): 150		GIS UTM 9.625056.6028894		Agency Name: Triton Environmental Consultants (Terrace)																																								
CHANNEL																																												
No Vis.Ch.: ☐		Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Channel Width (m):</td> <td>3.90</td> <td>2.700</td> <td>5.300</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>2.77</td> <td>2.1</td> <td>3.200</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.47</td> <td>0.4</td> <td>0.5</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m):	3.90	2.700	5.300	6	Wetted Width (m):	2.77	2.1	3.200	6	Bankfull Depth (m):	0.47	0.4	0.5	3	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Gradient %:</td> <td>16.00</td> <td>8</td> <td>21</td> <td>4</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.38</td> <td>0.300</td> <td>0.5</td> <td>6</td> </tr> </table>				Avg	Min	Max	#	Gradient %:	16.00	8	21	4	Pool Depth (m):	0.38	0.300	0.5	6
Avg	Min	Max	#																																									
Channel Width (m):	3.90	2.700	5.300	6																																								
Wetted Width (m):	2.77	2.1	3.200	6																																								
Bankfull Depth (m):	0.47	0.4	0.5	3																																								
Avg	Min	Max	#																																									
Gradient %:	16.00	8	21	4																																								
Pool Depth (m):	0.38	0.300	0.5	6																																								
Dewatered: ☐		Tribes.: ☐																																										
Stage: Low ☐																																												
Med ☒																																												
High ☐																																												
Temp (C): 5		pH: 7.3		Conductivity: 60				Turbidity: Turbid ☐ Low ☐																																				
								Moderate ☐ Clear ☒																																				
MORPHOLOGY																																												
Bed Material: Dominant: Boulders		D95 (cm): 80.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☐																																		
Subdominant: Cobble		D (cm): 50.00								Span ☐																																		
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2																																		
Coupling: Coupled						B3		D1		D2																																		
Confinement: Frequently Confined						D3																																						
Morphology: CP Cascade Pool						C1		C2		C3																																		
						C4		C5		S1																																		
						S2		S3		S4																																		
						S5																																						
COVER																																												
Total Cover: Abundant		Type: SWD		LWD		B		U		DP																																		
LWD: Few		Amount: T		S		S		N		D																																		
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☐		☒																																		
		☐		☐		☐		☐		☐																																		
Right Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☒																																		
Left Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☒																																		
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Manmade ☐																																		
Left Bank: Rip.Veg:		Stage: Shrub/herb stage								Crown Closure 1-20%																																		
										Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐																																		
FEATURES																																												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)																																	
093L.035	55528	C	3.0	GE	3	GE	R: 57	F: 03	L:	#:	9.625165.6028																																	
Comments: Bedrock cascade at confluence.																																												
FISH																																												
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																			
553	EF	1	150	690 sec	700	NFC	0																																					

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.035 ILP # 3073 Site 553

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.035 ILP #: 3073 NID Map #: 093L.035 NID #: 50553 Reach #: 1.0 Site #: 553
Field UTM (Z.E.N): 9.625090.6028918 Method: GPU Site Lg: 150 Method: MAP Access: H
GIS UTM (Z.E.N): 9.625056.6028894 Ref. Name:
Date: 2002/09/09 Time: 14:30 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	2.70	4.80	5.30	3.60	2.90	4.10					3.90	Method I:	17.0	8.0	C	16.00
Wetted Width (m):	T	2.10	3.20	2.70	2.90	2.80	2.90					2.77	Method II:	18.0	21.0	C	
Pool Depth (m):	T	0.30	0.40	0.40	0.30	0.50	0.40					0.38					

Wb Depth: .4 .5 .5 Avg: 0.47 Method: T Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	S	N	D	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☒ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☒ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 60 Method: S3
pH: 7.3 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 80.0 D (cm): 50.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.035	55528	C	3.0	GE	3	GE	R: 57 F: 03 L:	#:	9.625165.6028994	GIS

Comments: Bedrock cascade at confluence.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potential associated with pools.
Rearing Habitat	Low - associated with pools, cover and functioning D95 / LWD.
Spawning Habitat	Low - associated with gravels and cover - limited by disturbed nature.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.035	3073	553

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	57	F: 02	STD	D	Cascade / pool habitat.
R:	57	F: 03	STD	U	Bedrock cascade at confluence.
R:	57	F: 0A	STD	U	Cascade / pool habitat.
COMMENTS					
Section			Comments		
CHANNEL			NFC upstream of cascade.		

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.035	3073

Triton Environmental Consultants Ltd.



Site #553, Cascade / pool habitat.
Roll #57, Frame #0A, Date: 2002/09/09



Site #553, Cascade / pool habitat.
Roll #57, Frame #02, Date: 2002/09/09



Site #553, Bedrock cascade at confluence.
Roll #57, Frame #03, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

10.0 093L.036 3406

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3406		
REACH									
Reach #: 10.0		UTM(Zone/East/North): 9.624847.6028905				Sample Type: Biased			
Length (km): .38		Coupling: Coupled		Magnitude: 4		BGC Zone: AT			
Gradient (%): 15.5		Confinement: Frequently Confin		Order: 2		Open water: Absent			
US Elev (m): 1457		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 554		Field UTM 9.625064.6028971		Agency: C172		Crew: JH/JD		Date: 2002/09/09	
Site Length (m): 180		GIS UTM 9.625077.6028978		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		3.22		2.400	
Stage: Low ☒				Wetted Width (m):		2.27		1.5	
Med ☐				Bankfull Depth (m):		0.63		0.6	
High ☐						0.7		3	
Temp (C): 6		pH: 6.8		Conductivity: 60		Avg		Min	
						Gradient %:		14.75	
						Pool Depth (m):		0.42	
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 100.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 50.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Coupled						B2		B3	
Confinement: Frequently Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: T		S		D		N	
LWD Dist: Not Applicable		Location: P/S/O: ☒		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☒	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
554	EF	1	250	469 sec	700	NFC	0		

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # 10.0 ILP Map # 093L.036 ILP # 3406 Site 554

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3406 NID Map #: 093L.035 NID #: 50554 Reach #: 10.0 Site #: 554
Field UTM (Z.E.N): 9.625064.6028971 Method: GPU Site Lg: 180 Method: MAP Access: H
GIS UTM (Z.E.N): 9.625077.6028978 Ref. Name:
Date: 2002/09/09 Time: 15:10 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	3.20	2.40	3.70	2.80	2.90	4.30					3.22	Method I:	16.0	13.0	C 14.75
Wetted Width (m):	T	2.50	1.70	1.50	2.30	2.10	3.50					2.27	Method II:	18.0	12.0	C
Pool Depth (m):	T	0.50	0.40	0.50	0.40	0.40	0.30					0.42				

Wb Depth: .7 .6 .6 Avg: 0.63 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	D	N	S	N	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☐	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☐ G ☐ C ☒ B ☒ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 60 Method: S3
pH: 6.8 Method: P2 Method: GE
Flood Signs: None Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 100.0 D (cm): 50.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potentially associated with deep pools.
Rearing Habitat	Low - associated with pools, cover.
Spawning Habitat	Low - associated with gravels limited by disturbed nature.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 57 F: 04 STD U			Upstream photo of debris pile.
R: 57 F: 05 STD D			Downstream photo of cascade pool habitat.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
10.0	093L.036	3406	554

COMMENTS	
Section	Comments
CHANNEL	22% @ UTM / 50 m upstream >20% / 20 m.
CHANNEL	NFC

Morice North Planning Area

Reach #	ILP Map #	ILP #
10.0	093L.036	3406

Triton Environmental Consultants Ltd.



Site #554, Upstream photo of debris pile.
Roll #57, Frame #04, Date: 2002/09/09



Site #554, Downstream photo of cascade pool habitat.
Roll #57, Frame #05, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
4.0 093L.036 3412

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3412		
REACH									
Reach #: 4.0		UTM(Zone/East/North): 9.637118.6028534				Sample Type: Biased			
Length (km): .57		Coupling: Partially Couple		Magnitude: 4		BGC Zone: SBS			
Gradient (%): 3.3		Confinement: Occasionally Conf		Order: 3		Open water: Absent			
US Elev (m): 903		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 556		Field UTM ..		Agency: C172		Crew: JH/SG		Date: 2002/09/10	
Site Length (m): 150		GIS UTM 9.637358.6028438		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		#		Avg		Min	
Stage: Low ☒		Channel Width (m): 1.83		1.5		2.1		7	
Med ☐		Wetted Width (m): 0.63		0.5		0.9		4	
High ☐		Bankfull Depth (m): 0.33		0.3		0.4		3	
Temp (C): 7		pH: 7.3		Conductivity: 80		Turbidity.: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Cobble		D (cm): 10.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: S		S		N		N	
LWD Dist: Not Applicable		Location: P/S/O: ☒		☒		☐		☐	
		☐		☐		☐		☐	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Mature forest				Vascular ☐			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
556	EF	1	150	150 sec	700	CT	5	50	70

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 4.0 ILP Map # 093L.036 ILP # 3412 Site 556

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3412 NID Map #: 093L.036 NID #: 50556 Reach #: 4.0 Site #: 556
Field UTM (Z.E.N): .. Method: Site Lg: 150 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.637358.6028438 Ref. Name:
Date: 2002/09/10 Time: 07:30 Agency: C172 Crew: JH/SG Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	1.80	1.90	1.50	1.70	1.80	2.10	2.00				1.83	Method I:	4.0	3.0	C	3.50
Wetted Width (m):	T			0.50	0.60		0.90	0.50				0.63	Method II:			C	
Pool Depth (m):	T			0.10	0.20		0.30	0.10				0.18					

Wb Depth: .3 .3 .4 Avg: 0.33 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	S	N	N	T	D	N
Loc: P/S/O:	☒	☒	☐	☐	☒	☒	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 7 pH: 7.3 Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: 80 Method: S3 Method: GE Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: G Subdom: C D95: 20.0 D (cm): 10.00 Morph: RP O1 B1 B2 B3 D1 D2 D3
Pattern: SI Islands: N Coupling: PC Confinement: OC FSZ: ☐ DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potential in pools and downstream lakes.
Rearing Habitat	Moderate - associated with pools, cover, access and LWD.
Spawning Habitat	Moderate - associated with gravels and pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 57 F: 06 STD U			Upstream photo of pooled area - fish present.
R: 57 F: 07 STD D			Downstream photo of pooled area - fish present.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
4.0	093L.036	3412	556

COMMENTS	
Section	Comments
CHANNEL	CT - 50 to 70 mm present.

Morice North Planning Area

Reach #	ILP Map #	ILP #
4.0	093L.036	3412

Triton Environmental Consultants Ltd.



Site #556, Upstream photo of pooled area - fish present.
Roll #57, Frame #06, Date: 2002/09/10



Site #556, Downstream photo of pooled area - fish present.
Roll #57, Frame #07, Date: 2002/09/10

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
2.0 093L.046 2881

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.046		ILP #:		2881	
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.635585.6030021				Sample Type: Biased					
Length (km): 1.30		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 7.5		Confinement: Occasionally Conf				Order: 1		Open water: Absent			
US Elev (m): 983		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 557		Field UTM 9.635713.6030297		Agency: C172		Crew: JH/SG		Date: 2002/09/10			
Site Length (m): 100		GIS UTM 9.635724.6030289		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes: ☐		Channel Width (m):		0.42		0.300		0.5 6	
Stage: Low ☐				Wetted Width (m):		0.00		0		0 0	
Med ☐				Bankfull Depth (m):		0.23		0.2		0.3 3	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 5.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Fines		D (cm): 2.00								Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐	
Morphology: RP Riffle Pool						☐		☐		☐	
COVER											
Total Cover: None		Type: SWD LWD B U DP OV IV									
LWD: None		Amount: N N N N N N N									
LWD Dist: Not Applicable		Location: P/S/O: ☐		☐		☐		☐		FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage								Crown Closure 1-20%	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage		Instream Veg: None ☒		Algae ☐		Moss ☐		Vascular ☐	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.046 ILP # 2881 Site 557

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2881 NID Map #: 093L.046 NID #: 50557 Reach #: 2.0 Site #: 557
Field UTM (Z.E.N): 9.635713.6030297 Method: GPU Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.635724.6030289 Ref. Name:
Date: 2002/09/10 Time: 08:30 Agency: C172 Crew: JH/SG Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	0.30	0.50	0.50	0.40	0.30	0.50					0.42	Method I:	5.0	5.0	C 5.00
Wetted Width (m):	MS											0.00	Method II:			C
Pool Depth (m):	MS											0.00				

Wb Depth: .2 .3 .2 Avg: 0.23 Method: T Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total: N

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	N	N	N	N	N
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: pH: Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: Turb.: T ☐ M ☐ L ☐ C ☐ Method: S3 Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 5.00 D (cm): 2.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 57 F: 08 STD U			Upstream photo of site - close to NCD classification.
R: 57 F: 09 STD D			Downstream photo of site - close to NCD classification.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.046	2881	557

COMMENTS	
Section	Comments
CHANNEL	S6
CHANNEL	Barely classifiable as a stream - close to NCD classification.



Site #557, Upstream photo of site - close to NCD classification.
Roll #57, Frame #08, Date: 2002/09/10



Site #557, Downstream photo of site - close to NCD classification.
Roll #57, Frame #09, Date: 2002/09/10

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #
2.0 093L.046 3003

STREAM REFERENCING																																												
Gazetted Name:						Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 3003																																			
REACH																																												
Reach #: 2.0		UTM (Zone/East/North): 9.639228.6038266				Sample Type: Biased																																						
Length (km): 1.06		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS																																						
Gradient (%): 3.8		Confinement: Occasionally Conf		Order: 1		Open water: Absent																																						
US Elev (m): 621		Islands: NONE		Riparian Vegetation: Not Specified																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 558		Field UTM ..		Agency: C172		Crew: JH/SG		Date: 2002/09/10																																				
Site Length (m): 100		GIS UTM 9.639481.6039158		Agency Name: Triton Environmental Consultants (Terrace)																																								
CHANNEL																																												
No Vis.Ch.: ☒ Intermittent: ☐		Dewatered: ☐ Tribs.: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Channel Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m):	0.00	0	0	0	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.00	0	0	0	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> <tr> <td>Gradient %:</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>				Avg	Min	Max	#	Gradient %:	0.00	0	0	0	Pool Depth (m):	0.00	0	0	0
Avg	Min	Max	#																																									
Channel Width (m):	0.00	0	0	0																																								
Wetted Width (m):	0.00	0	0	0																																								
Bankfull Depth (m):	0.00	0	0	0																																								
Avg	Min	Max	#																																									
Gradient %:	0.00	0	0	0																																								
Pool Depth (m):	0.00	0	0	0																																								
Stage: Low ☐ Med ☐ High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐ Moderate ☐ Clear ☐																																				
MORPHOLOGY																																												
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																								
Subdominant:		D (cm):		Braid ☐																																								
Channel Pattern:		Islands:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">DISTURBANCE INDICATORS</th> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>C4</td> <td>C5</td> <td>S1</td> <td>S2</td> <td>S3</td> <td>S4</td> <td>S5</td> </tr> </table>								DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5														
DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3																																				
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																			
Coupling:																																												
Confinement:																																												
Morphology:																																												
COVER																																												
Total Cover:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> <tr> <td>Amount:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Location: P/S/O:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:								Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐	FSZ: ☐										
Type:	SWD	LWD	B	U	DP	OV	IV																																					
Amount:																																												
Location: P/S/O:	☐	☐	☐	☐	☐	☐	☐																																					
LWD:																																												
LWD Dist:																																												
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure																																								
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐																																										
Right Bank: Rip.Veg:		Stage:																																										
Left Bank: Rip.Veg:		Stage:		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐																																								
FEATURES																																												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto		UTM (Z/E/N)																																
093L.046	55530	BD	1.0	GE	20	GE	R: 57	F: 13	L:	#:		9.639484.6039																																
Comments:																																												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto		UTM (Z/E/N)																																
093L.046	55558	CV	.5	GE	10	GE	R: 57	F: 12	L:	#:		9.639481.6039																																
Comments:																																												

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000

Reach # 2.0 ILP Map # 093L.046 ILP # 3003 Site 558

PROJECT																																																																														
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																																																																				
Stream Name (gaz.): BULKLEY RIVER																																																																														
Project Watershed Code: 460-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name:																																																																				
Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000																																																																														
ILP Map#: 093L.046			ILP #: 3003		NID Map #: 093L.046			NID #: 50558		Reach #: 2.0		Site #: 558																																																																		
Field UTM (Z.E.N): ..					Method:			Site Lg: 100		Method: MAP		Access: V2																																																																		
GIS UTM (Z.E.N): 9.639481.6039158								Ref. Name:																																																																						
Date: 2002/09/10			Time: 09:15		Agency: C172			Crew: JH/SG		Fish Crd?: ☐		Incomplete: ☐																																																																		
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>0.00</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>0.00</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> <td>0.00</td> </tr> </tbody> </table>											Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS											0.00	Wetted Width (m):	MS											0.00	Pool Depth (m):	MS											0.00	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td></td> <td>C</td> <td>0.00</td> </tr> <tr> <td>Method II:</td> <td></td> <td>C</td> <td></td> </tr> </tbody> </table>						Gadient %	Mtd	Avg	Method I:		C	0.00	Method II:		C	
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	MS											0.00																																																																		
Wetted Width (m):	MS											0.00																																																																		
Pool Depth (m):	MS											0.00																																																																		
	Gadient %	Mtd	Avg																																																																											
Method I:		C	0.00																																																																											
Method II:		C																																																																												
Wb Depth:				Avg: 0.00		Method: MS		Stage: L ☐ M ☐ H ☐		No Vis.Ch.: ☒		Intermittent: ☐																																																																		
										Dw: ☐		Trib.: ☐																																																																		
COVER																																																																														
Total:										CROWN CLOSURE																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </tbody> </table>										Type:	SWD	LWD	B	U	DP	OV	IV	Amount:								Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐	INSTREAM VEG: N ☐ A ☐ M ☐ V ☐																																												
Type:	SWD	LWD	B	U	DP	OV	IV																																																																							
Amount:																																																																														
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐																																																																							
LWD:					DIST:																																																																									
LB SHP:					RB SHP:																																																																									
Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐					Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐																																																																									
RIP:					RIP:																																																																									
STG:					STG:																																																																									
WATER																																																																														
EMS:					Req #:																																																																									
Temp:					Method: T4					Cond.: Method: S3																																																																				
pH:					Method: P2					Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE																																																																				
Flood Signs:					Method: GE																																																																									
MORPHOLOGY																																																																														
Bed Material:			Dominant:			Subdom:			O1 B1 B2 B3 D1 D2 D3																																																																					
D95:			D (cm):			Morph:			DISTURBANCE INDICATORS																																																																					
Pattern:									C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																					
Islands:																																																																														
Coupling:																																																																														
Confinement:																																																																														
FSZ: ☐									Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																					
FEATURES																																																																														
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto			UTM (Z/E/N)		Method																																																															
093L.046	55530	BD	1.0	GE	20	GE	R: 57	F: 13	L:	#:		9.639481.6039157		GIS																																																																
Comments:																																																																														
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto			UTM (Z/E/N)		Method																																																															
093L.046	55558	CV	.5	GE	10	GE	R: 57	F: 12	L:	#:		9.639481.6039160		GIS																																																																
Comments:																																																																														
HABITAT QUALITY																																																																														
Name					Comments																																																																									

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	2.0	093L.046	3003	558

HABITAT QUALITY				
Name		Comments		
OverWinter Habitat		None.		
Rearing Habitat		Potential in upstream beaver dam.		
Spawning Habitat		None.		
PHOTOS				
Photo		Foc Lg	Dir	Comments
R:	57 F: 10	STD	U	Upstream photo of seasonally wetted depression.
R:	57 F: 11	STD	D	Downstream photo of seasonally wetted depression.
R:	57 F: 12	STD	U	Culvert outlet perched and blocked.
R:	57 F: 13	STD	U	Beaver dam at road - flooded.
COMMENTS				
Section		Comments		
CHANNEL		Beaver pond has flooded road and blocked culvert. Beaver dam has totally altered natural drainage pattern.		



Site #558, Upstream photo of seasonally wetted depression.
Roll #57, Frame #10, Date: 2002/09/10



Site #558, Downstream photo of seasonally wetted depression.
Roll #57, Frame #11, Date: 2002/09/10



Site #558, Culvert outlet perched and blocked.
Roll #57, Frame #12, Date: 2002/09/10



Site #558, Beaver dam at road - flooded.
Roll #57, Frame #13, Date: 2002/09/10

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #
4.0 093L.046 2999

STREAM REFERENCING																																												
Gazetted Name:						Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046		ILP #:		2999																																		
REACH																																												
Reach #: 4.0		UTM(Zone/East/North): 9.638879.6039155				Sample Type:		Biased																																				
Length (km): .38		Coupling: Partially Couple		Magnitude: 2		BGC Zone:		SBS																																				
Gradient (%): 20.3		Confinement: Frequently Confin		Order: 2		Open water:		Absent																																				
US Elev (m): 677		Islands: NONE		Riparian Vegetation: Not Specified																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 559		Field UTM 9.638788.6039006		Agency: C172		Crew: JH/SG		Date: 2002/09/10																																				
Site Length (m): 110		GIS UTM 9.638952.6039206		Agency Name: Triton Environmental Consultants (Terrace)																																								
CHANNEL																																												
No Vis.Ch.: ☒		Intermittent: ☐		<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Avg	Min	Max	#	Channel Width (m):	0.00	0	0	0	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.00	0	0	0	<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Gradient %:</td> <td>23.50</td> <td>22</td> <td>25</td> <td>2</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Avg	Min	Max	#	Gradient %:	23.50	22	25	2	Pool Depth (m):	0.00	0	0	0
Avg	Min	Max	#																																									
Channel Width (m):	0.00	0	0	0																																								
Wetted Width (m):	0.00	0	0	0																																								
Bankfull Depth (m):	0.00	0	0	0																																								
Avg	Min	Max	#																																									
Gradient %:	23.50	22	25	2																																								
Pool Depth (m):	0.00	0	0	0																																								
Dewatered: ☐		Tribes: ☐																																										
Stage: Low ☐																																												
Med ☐																																												
High ☐																																												
Temp (C):		pH:		Conductivity:		Turbidity.: Turbid ☐ Low ☐ Moderate ☐ Clear ☐																																						
MORPHOLOGY																																												
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																								
Subdominant:		D (cm):		Braid ☐																																								
Channel Pattern:		Islands:		DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3 ☐ ☐ ☐ ☐ ☐ ☐ ☐																																								
Coupling:				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																								
Confinement:				☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																								
Morphology:																																												
COVER																																												
Total Cover:		<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:								FSZ: ☐																		
Type:	SWD	LWD	B	U	DP	OV	IV																																					
Amount:																																												
LWD:																																												
LWD Dist:		<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Location: P/S/O:</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>								Location: P/S/O:											☐	☐	☐	☐	☐	☐	☐	☐	☐															
Location: P/S/O:																																												
	☐	☐	☐	☐	☐	☐	☐	☐	☐																																			
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure																																								
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐																																										
Right Bank: Rip.Veg:		Stage:																																										
Left Bank: Rip.Veg:		Stage:		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐																																								

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
4.0	093L046	2999	559

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
4.0	093L.046	2999	559

COMMENTS	
Section	Comments
CHANNEL	NCD characteristics.
CHANNEL	Overland flow - no channel.
CHANNEL	S6
CHANNEL	>20% in section below (downslope) road crossing.



Site #559, Upslope photo within steep section.
Roll #57, Frame #14, Date: 2002/09/10



Site #559, Downslope photo within steep section.
Roll #57, Frame #15, Date: 2002/09/10

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.046	2942

Triton Environmental Consultants Ltd.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.046 ILP # 2942 Site 560

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
Local Name: ILP Map#: 093L.046 ILP #: 2942 NID Map #: 093L.046 NID #: 50560 Reach #: 1.0 Site #: 560
Field UTM (Z.E.N): 9.637754.6038049 Method: GPU Site Lg: 290 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.637777.6038063 Ref. Name:
Date: 2002/09/10 Time: 10:40 Agency: C172 Crew: JH/SG Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	2.80	1.60	2.10	1.40	2.90	3.00					2.30	Method I:	14.0	15.0	C 14.50
Wetted Width (m):	T	0.50	1.10	0.90	0.50	0.80	0.90					0.78	Method II:			C
Pool Depth (m):	T	0.30	0.50	0.20	0.30	0.40	0.30					0.33				

Wb Depth: .6 .5 .5 Avg: 0.53 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	T	N	T	D	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

CROWN CLOSURE

3 41-70%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☒ A ☐

RIP: M

STG: MF

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☒ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 80 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 90.0 D (cm): 25.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potential in plunge pools.
Rearing Habitat	Low - associated with pools, cover - limited by access.
Spawning Habitat	Low - associated with cover, pools, gravels and water - limited by barriers.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 57 F: 16	STD	U	Upstream photo with 1.5 x 1.5 m cascade in background.
R: 57 F: 17	STD	D	Downstream photo of typical stream habitat / characteristics.

FDIS Site Card

Morice North Planning Area

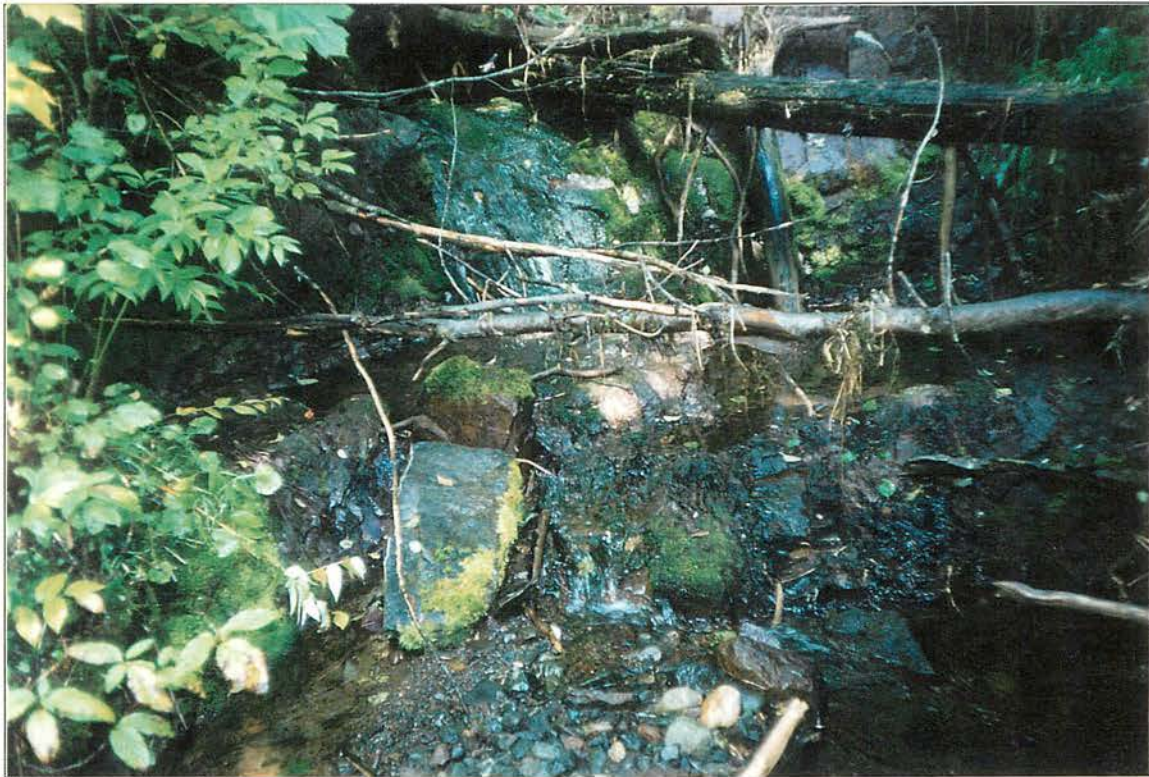
	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000	1.0	093L.046	2942	560

COMMENTS	
Section	Comments
CHANNEL	Heavy debris torrented stream. Numerous debris jams and drops. Cascades over bedrock and boulder present throughout site. Potential downstream barrier at confluence with Dockrill Creek.

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.046	2942

WATERBODY													
Gazetted Name:								Local:					
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-0													
Waterbody ID:				ILP Map #: 093L.046				ILP #:		2942		Reach #: 1 -	
Project ID: 5270								Lake/Stream: S		Lake From Date:			
Fish Permit #: 145269				Date: 2002/09/10		To: 2002/09/10		Agency: C172		Crew: JH/SG		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
560	093L.046	50560				GPU EF 1	6	80	C				
A. GEAR SETTINGS													
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment					
560	EF	1	1	2002/09/10	10:10	2002/09/10	11:00						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
560	EF	1	1	O	520	200.0	1.5	700	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
560	EF	1	1	NFC			0						



Site #560, Upstream photo with 1.5 x 1.5 m cascade in background.
Roll #57, Frame #16, Date: 2002/09/10



Site #560, Downstream photo of typical stream habitat / characteristics.
Roll #57, Frame #17, Date: 2002/09/10

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.046 2939

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2939			
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.637490.6037665				Sample Type: Random					
Length (km): .67		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 12.8		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 801		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 561		Field UTM 9.638063.6037593		Agency: C172		Crew: JH/SG		Date: 2002/09/10			
Site Length (m): 100		GIS UTM 9.638079.6037597		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.42		0.300		0.600		6	
Stage: Low ☒				Wetted Width (m): 0.00		0		0		0	
Med ☐				Bankfull Depth (m): 0.10		0.1		0.1		3	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity.: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Fines		D95 (cm): 1.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Not Applicable		D (cm): 1.00								Braid ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Unconfined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐	
Morphology: RP Riffle Pool						☐		☐		☐	
COVER											
Total Cover: None		Type: SWD LWD B U DP OV IV									
LWD: None		Amount: N N N N N N N									
LWD Dist: Not Applicable		Location: P/S/O: ☐		☐		☐		☐		FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest								Crown Closure 1-20%	
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☐		Vascular ☒	

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.046 ILP # 2939 Site # 561

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
Local Name:
ILP Map#: 093L.046 ILP #: 2939 NID Map #: 093L.046 NID #: 50561 Reach #: 2.0 Site #: 561
Field UTM (Z.E.N): 9.638063.6037593 Method: GPU Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.638079.6037597 Ref. Name:
Date: 2002/09/10 Time: 11:10 Agency: C172 Crew: JH/SG Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	GE	0.40	0.30	0.30	0.50	0.40	0.60					0.42	Method I:	10.0	14.0	C	12.00
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

Wb Depth: .1 .1 .1 Avg: 0.10 Method: GE Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total: N

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	N	N	N	N	N
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: NA O1 B1 B2 B3 D1 D2 D3
D95: 1.00 D (cm): 1.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Rearing Habitat	None.
Spawning Habitat	None.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 57 F: 18	STD	U	Upstream habitat found within site.
R: 57 F: 19	STD	D	Downstream habitat found within site.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000	2.0	093L.046	2939	561

COMMENTS	
Section	Comments
CHANNEL	Barely classifiable as a stream.



Site #561, Upstream habitat found within site.
Roll #57, Frame #18, Date: 2002/09/10



Site #561, Downstream habitat found within site.
Roll #57, Frame #19, Date: 2002/09/10

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3682

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3682		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.636025.6015313				Sample Type: Random			
Length (km): 1.12		Coupling: Partially Couple		Magnitude: 5		BGC Zone: SBS			
Gradient (%): 7.2		Confinement: Frequently Confin		Order: 3		Open water: Absent			
US Elev (m): 768		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 562		Field UTM ..		Agency: C172		Crew: JH/SG		Date: 2002/09/10	
Site Length (m): 420		GIS UTM 9.635816.6016175		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		2.72		2.1		3.6	
Stage: Low ☒		Channel Width (m):		0.65		0.300		0.9	
Med ☐		Wetted Width (m):		0.50		0.5		0.5	
High ☐		Bankfull Depth (m):		0.33		0.300		0.400	
Temp (C): 6		pH: 6.9		Conductivity: 50		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 80.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Gravels		D (cm): 30.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: S		D		T		N	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest						Manmade ☐	
Left Bank: Rip.Veg:		Stage: Mature forest						Crown Closure 21-40%	
						Instream Veg: None ☒		Algae ☐	
								Moss ☐	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
562	EF	1	400	750 sec	700	DV	5	90	100

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3682 Site 562

PROJECT

Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)
Stream Name (gaz.): BULKLEY RIVER Project Code: 5270
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3682 NID Map #: 093L.026 NID #: 50562 Reach #: 1.0 Site #: 562
Field UTM (Z.E.N): .. Method: Site Lg: 420 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.635816.6016175 Ref. Name:
Date: 2002/09/10 Time: 12:30 Agency: C172 Crew: JH/SG Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	2.20	2.80	3.10	2.50	2.10	3.60					2.72	Method I:	10.0	11.0	C 10.50
Wetted Width (m):	T	0.80	0.50	0.30	0.80	0.60	0.90					0.65	Method II:			C
Pool Depth (m):	T	0.30	0.30	0.40	0.30	0.30	0.40					0.33				

Wb Depth: .5 .5 .5 Avg: 0.50 Method: T Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	D	T	N	T	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 50 Method: S3
pH: 6.9 Method: P2 Method: GE
Flood Signs: Rafted debris Method: GE Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 80.0 D (cm): 30.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Potentially associated with pools.
Rearing Habitat	Low - associated with pools and cover.
Spawning Habitat	Low - associated with gravels and flows.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 57 F: 20 STD U			Upstream photo of habitat within site.
R: 57 F: 21 STD D			Downstream photo of habitat within site.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.026	3682	562

COMMENTS	
Section	Comments
CHANNEL	No barriers observed in site.
CHANNEL	Immediately upstream of Houston Tommy Creek.
CHANNEL	DV captured within lower 50 m of reach.

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.026	3682

Triton Environmental Consultants Ltd.



Site #562, Upstream photo of habitat within site.
Roll #57, Frame #20, Date: 2002/09/10



Site #562, Downstream photo of habitat within site.
Roll #57, Frame #21, Date: 2002/09/10

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3684

PROJECT			
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)		Project Code: 5270	
Stream Name (gaz.): BULKLEY RIVER			
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000			
WATERSHED			
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000			
ILP Map #: 093L.026	ILP #: 3684	Reach #: 1.0	NID Map #: 093L.026
Air Photos		NID #: 12187	
LINE: BCC98341		UTM(Zone/East/North/Method) 9.634999.6014599	
#: 0	Gaz.: Local:	GIS Sample Type: B Wetland: ☐	
SURVEY INFO			
Date: 2002/08/27		Agency: C172	
		Crew: SG/SH	
ATTRIBUTES			
Length (km): 1.07	Gradient: 7.1	Setting: VF	DISTURBANCE INDICATORS
DS Elev.: 771	Order: 2	Open water: A	O1 ☐ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3 ☐
US Elev.: 847	Magnitude: 2	Confinement: OC	C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐
BGC Zone: SBS		Coupling: DC	
Valley Flat: B	C/D: C	Islands: N	
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR	
Channel Pattern: SI		Mass Movement: L Exposed/Eroded: NS	
		Riparian Veg.: NS Landuse: NS	

MAPS		
Map Type	Map #	Year
TRIM	093L.026	

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3684

WATERBODY													
Gazetted Name:										Local:			
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.026				ILP #: 3684		Reach #: 1 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269				Date: 2002/09/10		To: 2002/09/10		Agency: C172		Crew: JH/SG		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
563	093L.026	50563				GPU EF 1	6	60	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
563	EF	1	2002/09/10	14:10	2002/09/10	14:50							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
563	EF	1	1	O	380	100.0	2.0	600	I	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
563	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			Sampled at both road crossings.										

FDIS Reach Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.026 ILP # 3698

PROJECT									
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)					Project Code: 5270				
Stream Name (gaz.): BULKLEY RIVER									
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000									
ILP Map #: 093L.026	ILP #: 3698	Reach #: 3.0	NID Map #: 093L.026		NID #: 12151				
Air Photos		Names		UTM(Zone/East/North/Method)					
LINE: BCC98341_		Gaz.:		9.630887.6014006					
#: 0		Local:		Sample Type: B Wetland: ☐					
SURVEY INFO									
Date: 2002/08/27			Agency: C172			Crew: SG/SH			
ATTRIBUTES									
Length (km): .88	Gradient: 2.27	Setting: VF	DISTURBANCE INDICATORS						
DS Elev.: 808	Order: 2	Open water: A	O1	B1	B2	B3	D1	D2	D3
US Elev.: 828	Magnitude: 2	Confinement: OC	☐	☐	☐	☐	☐	☐	☐
	BGC Zone: SBS	Coupling: DC	C1	C2	C3	C4	C5	S1	S2
			☐	☐	☐	☐	☐	☐	☐
Valley Flat: B	C/D: C	Islands: N							
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR							
Channel Pattern: SI		Mass Movement: L	Exposed/Eroded: NS						
		Riparian Veg.: NS	Landuse: NS						

MAPS		
Map Type	Map #	Year
TRIM	093L.026	

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.026	3698

Triton Environmental Consultants Ltd.

FDIS Reach/Site Summary

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.026 3698

STREAM REFERENCING																																														
Gazetted Name:						Local Name:																																								
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.026		ILP #: 3698																																						
REACH																																														
Reach #: 1.0		UTM(Zone/East/North): 9.631638.6014964				Sample Type: Biased																																								
Length (km): .64		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS																																								
Gradient (%): 5.5		Confinement: Occasionally Conf		Order: 2		Open water: Absent																																								
US Elev (m): 777		Islands: NONE		Riparian Vegetation: Not Specified																																										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																														
SITE																																														
Site #: 565		Field UTM ..		Agency: C172		Crew: JH/SG		Date: 2002/09/10																																						
Site Length (m): 120		GIS UTM 9.631635.6015053		Agency Name: Triton Environmental Consultants (Terrace)																																										
CHANNEL																																														
No Vis.Ch.: ☒ Intermittent: ☐		Dewatered: ☐ Tribes.: ☐		<table border="1"><thead><tr><th></th><th>Avg</th><th>Min</th><th>Max</th><th>#</th></tr></thead><tbody><tr><td>Channel Width (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Wetted Width (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Bankfull Depth (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr></tbody></table>					Avg	Min	Max	#	Channel Width (m):	0.00	0	0	0	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.00	0	0	0	<table border="1"><thead><tr><th></th><th>Avg</th><th>Min</th><th>Max</th><th>#</th></tr></thead><tbody><tr><td>Gradient %:</td><td>5.00</td><td>5</td><td>5</td><td>2</td></tr><tr><td>Pool Depth (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr></tbody></table>					Avg	Min	Max	#	Gradient %:	5.00	5	5	2	Pool Depth (m):	0.00	0	0	0
	Avg	Min	Max	#																																										
Channel Width (m):	0.00	0	0	0																																										
Wetted Width (m):	0.00	0	0	0																																										
Bankfull Depth (m):	0.00	0	0	0																																										
	Avg	Min	Max	#																																										
Gradient %:	5.00	5	5	2																																										
Pool Depth (m):	0.00	0	0	0																																										
Stage: Low ☐ Med ☐ High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐ Moderate ☐ Clear ☐																																						
MORPHOLOGY																																														
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																										
Subdominant:		D (cm):		Braid ☐																																										
Channel Pattern:		Islands:		DISTURBANCE INDICATORS		<table border="1"><thead><tr><th>O1</th><th>B1</th><th>B2</th><th>B3</th><th>D1</th><th>D2</th><th>D3</th></tr></thead><tbody><tr><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr></tbody></table>						O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐																					
O1	B1	B2	B3	D1	D2	D3																																								
☐	☐	☐	☐	☐	☐	☐																																								
Coupling:				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		<table border="1"><tbody><tr><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr></tbody></table>						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																								
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																				
Confinement:																																														
Morphology:																																														
COVER																																														
Total Cover:		<table border="1"><thead><tr><th>Type:</th><th>SWD</th><th>LWD</th><th>B</th><th>U</th><th>DP</th><th>OV</th><th>IV</th></tr></thead><tbody><tr><td>Amount:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:																												
Type:	SWD	LWD	B	U	DP	OV	IV																																							
Amount:																																														
LWD:										FSZ: ☐																																				
LWD Dist:		Location: P/S/O: <table border="1"><tbody><tr><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr></tbody></table>								☐	☐	☐	☐	☐	☐	☐	☐																													
☐	☐	☐	☐	☐	☐	☐	☐																																							
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure																																						
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐																																												
Right Bank: Rip.Veg:		Stage:																																												
Left Bank: Rip.Veg:		Stage:		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐																																										

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.026 ILP # 3698 Site 565

PROJECT																																		
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																								
Stream Name (gaz.): BULKLEY RIVER																																		
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																		
WATERSHED																																		
Gazetted Name:										Local Name:																								
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																		
ILP Map#: 093L.026		ILP #: 3698		NID Map #: 093L.026		NID #: 50565		Reach #: 1.0		Site #: 565																								
Field UTM (Z.E.N): ..				Method:		Site Lg: 120		Method: MAP		Access: V2																								
GIS UTM (Z.E.N): 9.631635.6015053						Ref. Name:																												
Date: 2002/09/10			Time: 16:00		Agency: C172		Crew: JH/SG		Fish Crd?: ☐		Incomplete: ☐																							
CHANNEL																																		
										<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Gradient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>5.0</td> <td>5.0</td> <td></td> <td>C</td> <td>5.00</td> </tr> <tr> <td>Method II:</td> <td></td> <td></td> <td></td> <td>C</td> <td></td> </tr> </tbody> </table>							Gradient %		Mtd	Avg	Method I:	5.0	5.0		C	5.00	Method II:				C			
		Gradient %		Mtd	Avg																													
Method I:	5.0	5.0		C	5.00																													
Method II:				C																														
Channel Width (m):		Mtd	width	width	width	width	width	width	width	width	width	width	Avg																					
Wetted Width (m):		MS											0.00																					
Pool Depth (m):		MS											0.00																					
Wb Depth:					Avg: 0.00		Method: MS		Stage: L ☐ M ☐ H ☐		No Vis.Ch.: ☒ Intermittent: ☐ Dw: ☐ Tribs.: ☐																							
COVER Total:																																		
Type:		SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE																									
Amount:																																		
Loc: P/S/O:		☐	☐	☐	☐	☐	☐	☐	INSTREAM VEG: N ☐ A ☐ M ☐ V ☐																									
LWD:		DIST:																																
LB SHP:		RB SHP:																																
Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐		Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐																																
RIP:		RIP:																																
STG:		STG:																																
WATER																																		
EMS:					Method: T4					Req #:																								
Temp:					Method: P2					Cond.:																								
pH:					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☐																								
Flood Signs:										Method: S3																								
										Method: GE																								
MORPHOLOGY																																		
Bed Material:		Dominant:		Subdom:		Morph:		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th><th>B1</th><th>B2</th><th>B3</th><th>D1</th><th>D2</th><th>D3</th> </tr> </thead> <tbody> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </tbody> </table>							O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐						
O1	B1	B2	B3	D1	D2	D3																												
☐	☐	☐	☐	☐	☐	☐																												
D95:		D (cm):						<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th><th>C2</th><th>C3</th><th>C4</th><th>C5</th><th>S1</th><th>S2</th><th>S3</th><th>S4</th><th>S5</th> </tr> </thead> <tbody> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </tbody> </table>							C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																									
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																									
Pattern:		DISTURBANCE INDICATORS																																
Islands:																																		
Coupling:																																		
Confinement:																																		
FSZ: ☐		Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																
HABITAT QUALITY																																		
Name		Comments																																
OverWinter Habitat		None.																																
Rearing Habitat		None.																																
Spawning Habitat		None.																																
PHOTOS																																		
Photo		Foc Lg		Dir		Comments																												
R:	57	F:	22	STD		U		Upslope photo of NCD characteristics.																										
R:	57	F:	23	STD		D		Downslope photo of NCD characteristics.																										

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.026	3698	565

COMMENTS	
Section	Comments
CHANNEL	S6
CHANNEL	NCD like characteristics. Overland flow over moss with no scour to mineral alluvium areas.



Site #565, Upslope photo of NCD characteristics.
Roll #57, Frame #22, Date: 2002/09/10



Site #565, Downslope photo of NCD characteristics.
Roll #57, Frame #23, Date: 2002/09/10