

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 2 of 5

Prepared for:

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Prepared by:

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APPENDIX I

**Reach Cards/Site Cards/Fish Collection Forms and Photographs
(Sites 41 to 290)**

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.013 3749

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.013		ILP #: 3749		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.598947.5998027				Sample Type: Biased			
Length (km): 1.61		Coupling: Partially Couple		Magnitude: 4		BGC Zone: SBS			
Gradient (%): 20.4		Confinement: Confined		Order: 2		Open water: Absent			
US Elev (m): 1150		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 41		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2002/09/03	
Site Length (m): 300		GIS UTM 9.599992.5997540		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 4.35		3.5		5.1	
Stage: Low ☒				Wetted Width (m): 1.92		1.4		2.3	
Med ☐				Bankfull Depth (m): 0.80		0.7		0.9	
High ☐		Temp (C): 7		pH: 7.6		Conductivity: 40			
								Turbidity.: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 20.00				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: T		D		T		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: Coniferous		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)
41	EF	1	300	286 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.013 ILP # 3749 Site 41

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.013 ILP #: 3749 NID Map #: 093L.013 NID #: 20041 Reach #: 2.0 Site #: 41
Field UTM (Z.E.N): .. Method: Site Lg: 300 Method: MAP Access: FT
GIS UTM (Z.E.N): 9.599992.5997540 Ref. Name:
Date: 2002/09/03 Time: 08:20 Agency: C172 Crew: DT/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	4.20	3.80	3.50	4.60	5.10	4.90					4.35	Method I:	8.0	10.0	C	9.75
Wetted Width (m):	T	1.90	2.20	1.60	2.30	1.40	2.10					1.92	Method II:	12.0	9.0	C	
Pool Depth (m):	MS	0.40	0.50	0.30	0.40	0.30	0.50					0.40					

Wb Depth: .8 .7 .9 Avg: 0.80 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	D	T	T	T	S	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.6 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: High bedload Method: GE

MORPHOLOGY

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

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Present.
Spawning Habitat	Poor - large substrates, active stream bed.
Rearing Habitat	Moderate - subject to low flows and disturbances.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 5 F: 06 STD U			Upstream photo of LWD cascade.
R: 5 F: 07 STD D			Downstream photo of spanning LWD.

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.013	3749	41

COMMENTS	
Section	Comments
CHANNEL	Disturbed channel downstream.
CHANNEL	S3*

Morice North Planning Area

North Planning Area		Reach #	ILP Map #	ILP #
Watershed Code:	000-000000-00000-00000-0000-000-000-000-000-000-000	2.0	093L.013	3749

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.013					ILP #:		3749		Reach #:	2 -										
Project ID: 5270					Lake/Stream: S					Lake From Date:															
Fish Permit #:				145269		Date: 2002/09/03			To: 2002/09/03			Agency: C172		Crew: DT/JD		Resample: ☐									
SITE / METHOD																									
Site#		NID Map		NID #		UTM:Zone/East/North/Mthd			MTD/NO		Temp		Cond		Turbid		Comment								
41		093L.013		20041					GPU EF 1		7		40		C										
A. GEAR SETTINGS																									
Site#		MTD/NO		H/P		Date In		Time In		Date Out		Time Out		Comment											
41		EF		1		2002/09/03		08:20		2002/09/03		08:40													
C. ELECTROFISHER SPECIFICATIONS																									
Site#		MTD/NO		H/P		Encl		Sec		Length		Width		Voltage		Frequency		Pulse		Make		Model			
41		EF		1		1		O		286		300.0		1.8		700		60		6		SMITH ROOT		12B	
FISH SUMMARY																									
Site#		MTD/NO		H/P		Species		Stage		Age		Total #		Lgth (Min/Max)		FishAct		Comment							
41		EF		1		1		NFC				0													



Site #41, Upstream photo of LWD cascade.
Roll #5, Frame #06, Date: 2002/09/03



Site #41, Downstream photo of spanning LWD.
Roll #5, Frame #07, Date: 2002/09/03

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.013 ILP # 3749

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.013		ILP #: 3749			
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.600053.5997450				Sample Type: Biased					
Length (km): .54		Coupling: Partially Couple		Magnitude: 4		BGC Zone: SBS					
Gradient (%): 10.9		Confinement: Frequently Confin		Order: 2		Open water: Absent					
US Elev (m): 822		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 42		Field UTM 9.600107.5997226		Agency: C172		Crew: DT/JD		Date: 2002/09/03			
Site Length (m): 200		GIS UTM 9.600095.5997311		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 3.58		2.900		4.300		6	
Stage: Low ☒				Wetted Width (m): 1.57		1		2.3		6	
Med ☐				Bankfull Depth (m): 0.83		0.8		0.9		3	
High ☐		Temp (C): 7		pH: 7.6		Conductivity: 40					
								Turbidity.: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 35.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 20.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Decoupled				INDICATORS		☐		☒		☐	
Confinement: Occasionally Confin				C1		C2		C3		C4	
Morphology: CP Cascade Pool				C5		S1		S2		S3	
				S4		S5					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		D		S		S		T	
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: Coniferous		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: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.013 ILP # 3749 Site 42

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.013 ILP #: 3749 NID Map #: 093L.013 NID #: 20042 Reach #: 1.0 Site #: 42
Field UTM (Z.E.N): 9.600107.5997226 Method: GPU Site Lg: 200 Method: MAP Access: FT
GIS UTM (Z.E.N): 9.600095.5997311 Ref. Name:
Date: 2002/09/03 Time: 08:45 Agency: C172 Crew: DT/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	T	3.70	3.60	4.30	3.80	2.90	3.20					3.58	Method I:	5.0	6.0	5.75
Wetted Width (m):	T	1.60	1.80	2.30	1.40	1.30	1.00					1.57	Method II:	7.0	5.0	C
Pool Depth (m):	GE	0.30	0.40	0.30	0.50	0.20	0.30					0.33				

Wb Depth: .8 .9 .8 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	D	S	S	T	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F DIST: C

LB SHP: U

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Req #: Temp: 7 Method: T4 Cond.: 40 Method: S3
pH: 7.6 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Eroded banks Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 35.0 D (cm): 20.00 Morph: CP 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	Present.
Spawning Habitat	Poor - large substrates and an active stream channel.
Rearing Habitat	Moderate - subject to low flows and disturbances.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 5 F: 08	STD	U	Upstream towards deactivated road crossing.
R: 5 F: 09	STD	D	Downstream photo of channel.

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	3749	42

COMMENTS	
Section	Comments
CHANNEL	Disturbed channel downstream.
CHANNEL	S3*

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 # 3749

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 #: 3749		Reach #: 1 -			
Project ID: 5270						Lake/Stream: S			Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/03			To: 2002/09/03			Agency: C172		Crew: JD/DT		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
42	093L.013	20042				GPU EF 1	7	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
42	EF	1	2002/09/03	08:45	2002/09/03	09:06							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
42	EF	1	1	O	227	200.0	1.5	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
42	EF	1	1	NFC		0							



Site #42, Upstream towards deactivated road crossing.
Roll #5, Frame #08, Date: 2002/09/03



Site #42, Downstream photo of channel.
Roll #5, Frame #09, Date: 2002/09/03

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L013	3746

STREAM REFERENCING																																											
Gazetted Name:					Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.013		ILP #: 3746																																				
REACH																																											
Reach #: 2.0	UTM(Zone/East/North): 9.599847.5998630				Sample Type: Random																																						
Length (km): 1.24	Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS																																						
Gradient (%): 12.9	Confinement: Frequently Confin			Order: 2		Open water: Absent																																					
US Elev (m): 989		Islands: NONE		Riparian Vegetation: Mixed C/D																																							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																											
SITE																																											
Site #: 43		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2002/09/03																																			
Site Length (m): 200		GIS UTM 9.600259.5997634		Agency Name: Triton Environmental Consultants (Terrace)																																							
CHANNEL																																											
No Vis.Ch.: ☐	Intermittent: ☐																																										
Dewatered: ☐	Tribs.: ☐																																										
Stage: Low ☒ Med ☐ High ☐																																											
		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>Avg</td> <td>Min</td> <td>Max</td> <td>#</td> </tr> <tr> <td>Channel Width (m):</td> <td>2.82</td> <td>2.400</td> <td>3.5</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>1.50</td> <td>0.9</td> <td>2.1</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.73</td> <td>0.6</td> <td>0.8</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m):	2.82	2.400	3.5	6	Wetted Width (m):	1.50	0.9	2.1	6	Bankfull Depth (m):	0.73	0.6	0.8	3	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td></td> <td>Avg</td> <td>Min</td> <td>Max</td> <td>#</td> </tr> <tr> <td>Gradient %:</td> <td>12.75</td> <td>10</td> <td>16</td> <td>4</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.33</td> <td>0.300</td> <td>0.400</td> <td>6</td> </tr> </table>					Avg	Min	Max	#	Gradient %:	12.75	10	16	4	Pool Depth (m):	0.33	0.300	0.400	6
Avg	Min	Max	#																																								
Channel Width (m):	2.82	2.400	3.5	6																																							
Wetted Width (m):	1.50	0.9	2.1	6																																							
Bankfull Depth (m):	0.73	0.6	0.8	3																																							
	Avg	Min	Max	#																																							
Gradient %:	12.75	10	16	4																																							
Pool Depth (m):	0.33	0.300	0.400	6																																							
		Temp (C): 7 pH: 7.6 Conductivity: 40				Turbidity.: Turbid ☐ Low ☐ Moderate ☐ Clear ☒																																					
MORPHOLOGY																																											
Bed Material: Dominant: Cobble		D95 (cm): 35.00		Bars: Non ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																							
Subdominant: Boulders		D (cm): 15.00		Braid ☐																																							
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS <table style="display: inline-table; vertical-align: middle;"> <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																																					
☐	☐	☒	☐	☐	☐	☐																																					
Coupling: Partially Coupled				<table style="display: inline-table; vertical-align: middle;"> <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																																		
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																		
Confinement: Frequently Confined																																											
Morphology: CP Cascade Pool																																											
COVER																																											
Total Cover: Abundant		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <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>S</td> <td>D</td> <td>T</td> <td>T</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> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	S	D	T	T	T	N	Location: P/S/O:	☒	☐	☐	☒	☐	☐	☐										
Type:	SWD	LWD	B	U	DP	OV	IV																																				
Amount:	T	S	D	T	T	T	N																																				
Location: P/S/O:	☒	☐	☐	☒	☐	☐	☐																																				
LWD: Few																																											
LWD Dist: Clumped																																											
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☒		Cobble ☐		Boulder ☐																																			
Left Bank: Shape: Undercut		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 ☐				FSZ: ☐																																			
FISH																																											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																		
43	EF	1	200	262 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.013 ILP # 3746 Site 43

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.013 ILP #: 3746 NID Map #: 093L.013 NID #: 20043 Reach #: 2.0 Site #: 43
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: MAP Access: FT
GIS UTM (Z.E.N): 9.600259.5997634 Ref. Name:
Date: 2002/09/03 Time: 09:20 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	2.40	2.80	3.50	2.60	3.20	2.40					2.82	Method I:	10.0	13.0	C	12.75
Wetted Width (m):	T	1.50	1.40	1.80	2.10	0.90	1.30					1.50	Method II:	16.0	12.0	C	
Pool Depth (m):	MS	0.30	0.40	0.30	0.30	0.40	0.30					0.33					

Wb Depth: .6 .8 .8 Avg: 0.73 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	S	D	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: O

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.6 Method: P2 Method: GE
Flood Signs: Rafted debris Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 35.0 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 ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Not observed.
Spawning Habitat	Poor - large substrates and an active stream channel.
Rearing Habitat	Moderate - subject to low flows and disturbances.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 5 F: 10 STD		D	Downstream photo of deactivated road crossing.
R: 5 F: 11 STD		U	Upstream photo of cascade/pool habitat.
R: 5 F: 12 STD		D	Downstream photo of stream channel.

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.013	3746	43

COMMENTS	
Section	Comments
CHANNEL	Disturbed channel downstream.
CHANNEL	S3*

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.013	3746

Triton Environmental Consultants Ltd.



Site #43, Downstream photo of deactivated road crossing.
Roll #5, Frame #10, Date: 2002/09/03



Site #43, Upstream photo of cascade/pool habitat.
Roll #5, Frame #11, Date: 2002/09/03



Site #43, Downstream photo of stream channel.
Roll #5, Frame #12, Date: 2002/09/03

Morice North Planning Area

2.0 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 #: 2.0

UTM(Zone/East/North): 9.600283.5998934

Sample Type: Biased

Length (km): 1.01

Coupling: Partially Couple

Magnitude: 4

BGC Zone: SBS

Gradient (%): 17.1

Confinement: Confined

Order: 3

Open water: Absent

US Elev (m): 987

Islands: NONE

Riparian Vegetation: Mixed C/D

Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified

SITE

Site #: 44

Field UTM ..

Agency: C172

Crew: DT/JD

Date: 2002/09/03

Site Length (m): 100

GIS UTM 9.600571.5998205

Agency Name: Triton Environmental Consultants (Terrace)

CHANNEL

No Vis.Ch.: ☐ Intermittent: ☐

Dewatered: ☐ Tribs.: ☐

Stage: Low ☒ Med ☐ High ☐

Temp (C): 6

pH: 7.6

Conductivity: 40

Turbidity.: Turbid ☐ Low ☐ Moderate ☐ Clear ☒

Avg	Min	Max	#	
Channel Width (m):	2.85	2.5	3.400	6
Wetted Width (m):	1.60	1	2.3	6
Bankfull Depth (m):	0.87	0.7	1	3

Avg	Min	Max	#	
Gradient %:	7.50	6	10	4
Pool Depth (m):	0.68	0.5	1	6

MORPHOLOGY

Bed Material: Dominant: Cobble

D95 (cm): 30.00

Bars: Non ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Subdominant: Boulders

D (cm): 20.00

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

LWD: Few

LWD Dist: Clumped

Right Bank: Shape: Overhang 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 ☐

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

FSZ: ☐

FISH

Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
44	EF	1	100	216 sec	700	DV	8	65	175

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.013 ILP # 3742 Site 44

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.013 ILP #: 3742 NID Map #: 093L.013 NID #: 20044 Reach #: 2.0 Site #: 44
Field UTM (Z.E.N): ... Method: Site Lg: 100 Method: MAP Access: V4
GIS UTM (Z.E.N): 9.600571.5998205 Ref. Name:
Date: 2002/09/03 Time: 10:05 Agency: C172 Crew: DT/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg					
Channel Width (m):	MS	3.10	2.60	2.50	3.40	2.60	2.90					2.85	Method I:	6.0	8.0	C	7.50
Wetted Width (m):	MS	1.30	1.20	1.00	2.20	2.30	1.60					1.60	Method II:	10.0	6.0	C	
Pool Depth (m):	MS	0.60	0.80	1.00	0.60	0.50	0.60					0.68					

Wb Depth: 1.0 .9 .7 Avg: 0.87 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	D	S	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: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.6 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: 30.0 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 ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - large substrates and subject to channel disturbances.
Rearing Habitat	Moderate - deep pools and adequate perennial flows.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 5 F: 13 STD		D	Downstream photo of de-activated road crossing.
R: 5 F: 14 STD		U	Upstream photo of cascade pool habitat.
R: 5 F: 15 STD		D	Downstream photo of channel.

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.013	3742	44

COMMENTS	
Section	Comments
CHANNEL	DV captured.
CHANNEL	S3

FDIS Fish Card

Morice North Planning Area

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

Reach # 2.0 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																
Waterbody ID:				ILP Map #: 093L.013				ILP #: 3742		Reach #: 2 -						
Project ID: 5270				Lake/Stream: S				Lake From Date:								
Fish Permit #:		145269		Date: 2002/09/03		To: 2002/09/03		Agency: C172		Crew: JD/DT		Resample: ☐				
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment						
44	093L.013	20044				GPU EF 1	6	40	C							
A. GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
44	EF	1	1	2002/09/03	10:05	2002/09/03	10:31									
C. ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model					
44	EF	1	1	O	216	100.0	1.6	700	60	6	SMITH ROOT	12B				
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment						
44	EF	1	1	DV	A	2	125	175	R							
44	EF	1	1	DV	J	6	65	105	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#					
44	EF	1	1	DV	125		U	U						5	16	
44	EF	1	1	DV	105		U	U								
44	EF	1	1	DV	175		U	U								
44	EF	1	1	DV	65		U	U								
44	EF	1	1	DV	95		U	U								
44	EF	1	1	DV	86		U	U								
44	EF	1	1	DV	70		U	U								
44	EF	1	1	DV	80		U	U								



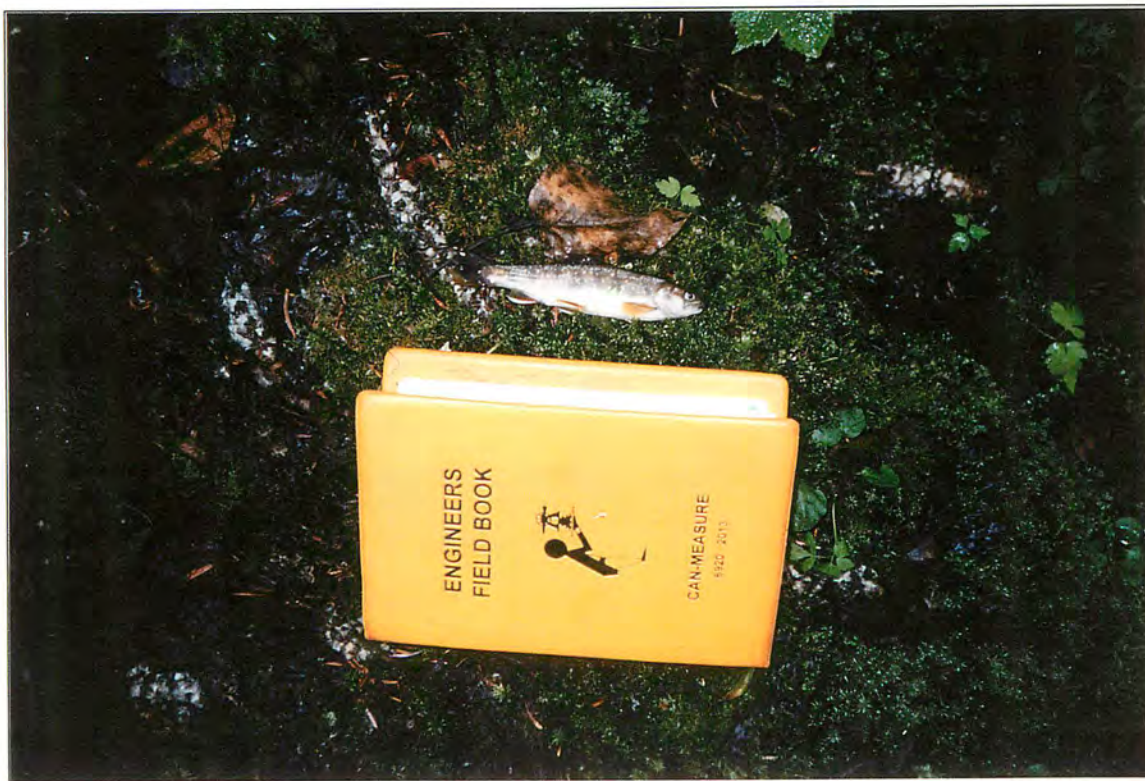
Site #44, Downstream photo of de-activated road crossing.
Roll #5, Frame #13, Date: 2002/09/03



Site #44, Upstream photo of cascade pool habitat.
Roll #5, Frame #14, Date: 2002/09/03



Site #44, Downstream photo of channel.
Roll #5, Frame #15, Date: 2002/09/03



Site #44, Fill in comment from fish form and reprint
Roll #5, Frame #16, 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.013 3740

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.013		ILP #: 3740			
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.601610.5999694				Sample Type: Biased					
Length (km): .68		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 10.7		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 889		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 45		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2002/09/03			
Site Length (m): 100		GIS UTM 9.601677.5999602		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.67		1.4		1.9		6	
Stage: Low ☒				Wetted Width (m): 0.00		0		0		0	
Med ☐				Bankfull Depth (m): 0.40		0.4		0.4		3	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity.: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Cobble		D (cm): 10.00								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: Abundant		Type: SWD LWD B U DP OV IV									
LWD: Few		Amount: T S N T N D T									
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☐		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest								Crown Closure 1-20%	
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	88028	CV	1.7	GE	20	GE	R: 5	F: 17	L: 1	#:	9.601741.5999
Comments:		Naturally embedded culvert.									

FDIS Site Card

Morice North Planning Area

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

Reach # 2.0 ILP Map # 093L.013 ILP # 3740 Site # 45

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

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000
ILP Map #: 093L.013 ILP #: 3740 NID Map #: 093L.013 NID #: 20045 Reach #: 2.0 Site #: 45
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.601677.5999602 Ref. Name:
Date: 2002/09/03 Time: 10:55 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):	MS	1.60	1.80	1.70	1.40	1.90	1.60					1.67	Method I:	2.0	3.0	C	3.00
Wetted Width (m):	MS											0.00	Method II:	4.0	3.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .4 .4 .4 Avg: 0.40 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	S	N	T	N	D	T
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Req #: Temp: Method: T4 Cond.: Method: S3
pH: 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: 15.0 D (cm): 10.00 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.013	88028	CV	1.7	GE	20	GE	R: 5 F: 17 L:	#:	9.601741.5999449	GIS
Comments: Naturally embedded culvert.										

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Spawning Habitat	Poor - ephemeral, large substrates, subject to low flows.
Rearing Habitat	Poor - ephemeral stream, no residual pools.

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
2.0	093L.013	3740	45

Triton Environmental Consultants Ltd.



Site #45, Naturally embedded culvert (1700 mm).
Roll #5, Frame #17, Date: 2002/09/03



Site #45, Upstream photo of channel.
Roll #5, Frame #18, Date: 2002/09/03



Site #45, Downstream photo of substrates.
Roll #5, Frame #19, Date: 2002/09/03

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.013	3737

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 # 2.0 ILP Map # 093L.013 ILP # 3737 Site 46

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.013 ILP #: 3737 NID Map #: 093L.013 NID #: 20046 Reach #: 2.0 Site #: 46
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.602365.5999570 Ref. Name:
Date: 2002/09/03 Time: 11:26 Agency: C172 Crew: DT/JD Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	1.40	1.30	1.60	1.50	1.20	1.40					1.40	Method I:	5.0	6.0	C	5.00
Wetted Width (m):	MS											0.00	Method II:	3.0	6.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .3 .4 .3 Avg: 0.33 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	N	S	N	D	T
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

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: G D95: 15.0 D (cm): 8.00 Morph: CP O1 B1 B2 B3 D1 D2 D3
Pattern: SI Islands: N Coupling: DC Confinement: OC FSZ: ☐ DISTURBANCE INDICATORS 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.013	88029	CV	1.6	GE	20	GE	R: 5 F: 20 L: #:		9.602402.5999465	GIS

Comments: Naturally embedded.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Spawning Habitat	Poor - shallow ephemeral stream.
Rearing Habitat	Poor - ephemeral stream, no residual pools.

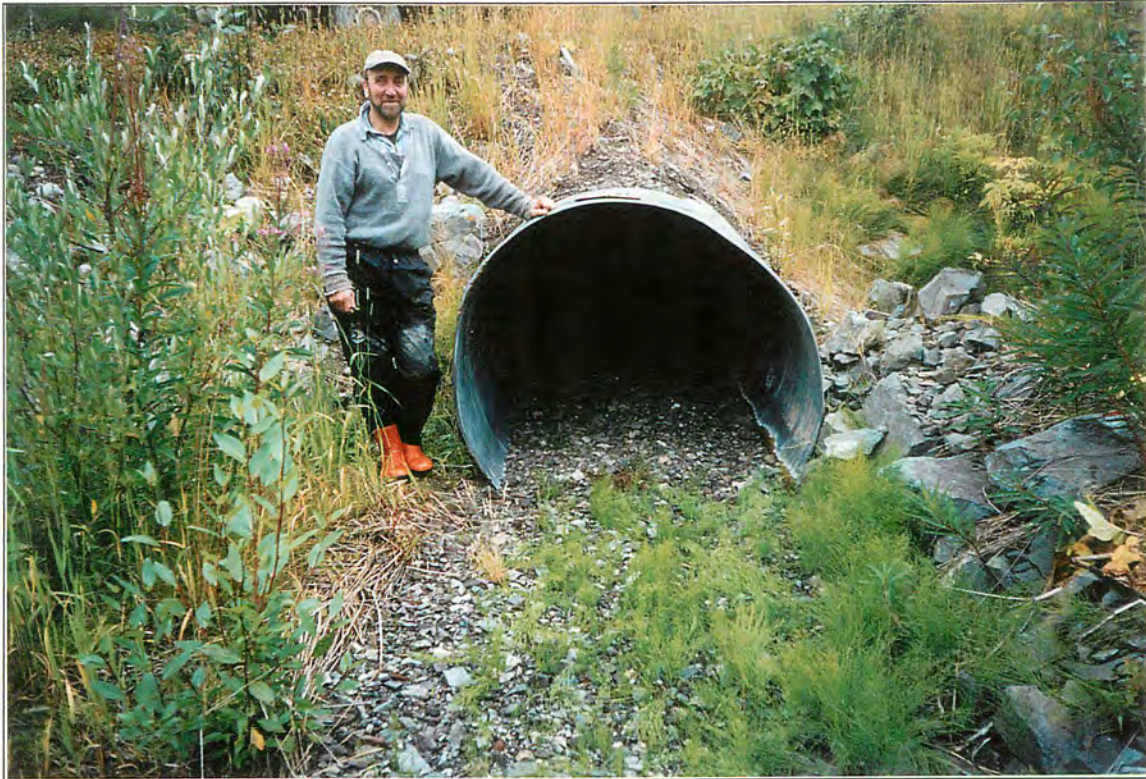
FDIS Site Card

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.013	3737	46

PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	5	F: 20	STD	U	Naturally embedded culvert (1600 mm).
R:	5	F: 21	STD	U	Upstream photo of dry channel.
R:	5	F: 22	STD	D	Downstream photo of dry channel.
COMMENTS					
Section		Comments			
CHANNEL		S4*			



Site #46, Naturally embedded culvert (1600 mm).
Roll #5, Frame #20, Date: 2002/09/03



Site #46, Upstream photo of dry channel.
Roll #5, Frame #21, Date: 2002/09/03



Site #46, Downstream photo of dry channel.
Roll #5, Frame #22, 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 #

5.0 093L.014 3792

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.014		ILP #: 3792		
REACH									
Reach #: 5.0		UTM(Zone/East/North): 9.603785.6000329				Sample Type: Biased			
Length (km): .46		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 16.1		Confinement: Frequently Confin		Order: 1		Open water: Absent			
US Elev (m): 926		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 47		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2002/09/03	
Site Length (m): 100		GIS UTM 9.603948.6000131		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.50		0.300		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: Fines		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 5.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Partially 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		N		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest							
				Instream Veg: None ☐		Algae ☐		Moss ☒	
								Vascular ☒	

FDIS Site Card

Morice North Planning Area

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

Reach # 5.0 ILP Map # 093L.014 ILP # 3792 Site 47

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.014 ILP #: 3792 NID Map #: 093L.013 NID #: 20047 Reach #: 5.0 Site #: 47
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.603948.6000131 Ref. Name:
Date: 2002/09/03 Time: 12:07 Agency: C172 Crew: DT/JD Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	0.60	0.40	0.50	0.60	0.30	0.60					0.50	Method I:	16.0	20.0	C	18.75
Wetted Width (m):	MS											0.00	Method II:	22.0	17.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .2 .3 .2 Avg: 0.23 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	N	S	N	S	D
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

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: G O1 B1 B2 B3 D1 D2 D3
D95: 15.0 D (cm): 5.00 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.
Spawning Habitat	None - no suitable substrates, high gradient.
Rearing Habitat	Poor - high gradient ephemeral stream with no residual pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 5 F: 23	STD	U	Upstream photo of small cascade.
R: 5 F: 24	STD	D	Downstream photo of 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
	5.0	093L.014	3792	47

COMMENTS	
Section	Comments
CHANNEL	High gradient section upstream of road crossing prevent upstream fish migration ~100 m upstream of confluence.
CHANNEL	S4*/S6



Site #47, Upstream photo of small cascade.
Roll #5, Frame #23, Date: 2002/09/03



Site #47, Downstream photo of substrates.
Roll #5, Frame #24, 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.014 3787

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.014		ILP #: 3787			
REACH											
Reach #: 3.0		UTM(Zone/East/North): 9.603344.6001779				Sample Type: Biased					
Length (km): 1.37		Coupling: Decoupled		Magnitude: 1		BGC Zone: ESSF					
Gradient (%): 11.5		Confinement: Frequently Confin		Order: 1		Open water: Absent					
US Elev (m): 1002		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 48		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2002/09/03			
Site Length (m): 100		GIS UTM 9.604291.6001764		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.35		1.200		1.600		6	
Stage: Low ☒				Wetted Width (m): 0.60		0.5		0.7		3	
Med ☐				Bankfull Depth (m): 0.33		0.3		0.4		3	
High ☐		Temp (C): 8		pH: 7.6		Conductivity: 50					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 25.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 5.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2	
Coupling: Decoupled										D1	
Confinement: Occasionally Confin										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		DP	
LWD: Few		Amount: T		S		N		T		N	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☐		☒		☐	
										FSZ: ☐	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Mature forest								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		UTM (Z/E/N)
093L.013	88030	CV	1.2	GE	20	GE	R: 6	F: 01A	L:	#:	9.604482.6001
Comments: Partial barrier.											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
48	EF	1	100	102 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 # 3.0 ILP Map # 093L.014 ILP # 3787 Site # 48

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.014 ILP #: 3787 NID Map #: 093L.013 NID #: 20048 Reach #: 3.0 Site #: 48
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.604291.6001764 Ref. Name:
Date: 2002/09/03 Time: 12:34 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):	MS	1.60	1.30	1.20	1.20	1.40	1.40					1.35	Method I:	6.0	5.0	C	4.50
Wetted Width (m):	MS	0.60				0.50	0.70					0.60	Method II:	3.0	4.0	C	
Pool Depth (m):	MS	0.10				0.20	0.10					0.13					

Wb Depth: .3 .4 .3 Avg: 0.33 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	S	N	T	N	D	T
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒

LWD: F DIST: C

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 50 Method: S3
pH: 7.6 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: 25.0 D (cm): 5.00 Morph: CP 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.013	88030	CV	1.2	GE	20	GE	R: 6 F: 01A L: #:		9.604482.6001809	GIS
Comments: Partial barrier.										

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Spawning Habitat	Poor - shallow stream with large substrates.
Rearing Habitat	Poor - rearing habitat - ephemeral stream, shallow pool, limited channel complexity.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
3.0	093L.014	3787	48

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	6	F: 01A	STD	U	Photo of culvert - gradient too high.
R:	6	F: 02A	STD	U	Photo of channel substrates.
R:	6	F: 03A	STD	D	Photo of LWD and Cover.
COMMENTS					
Section			Comments		
CHANNEL			Ephemeral stream.		
CHANNEL			S4		

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.014 ILP # 3787

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.014				ILP #: 3787		Reach #: 3 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/03			To: 2002/09/03			Agency: C172		Crew: DT/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
48	093L.013	20048				GPU EF 1	8	50	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
48	EF	1	2002/09/03	12:34	2002/09/03	12:55							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
48	EF	1	1	O	102	100.0	0.6	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
48	EF	1	1	NFC		0							



Site #48, Photo of culvert - gradient too high.
Roll #6, Frame #01A, Date: 2002/09/03



Site #48, Photo of channel substrates.
Roll #6, Frame #02A, Date: 2002/09/03



Site #48, Photo of LWD and Cover.
Roll #6, Frame #03A, Date: 2002/09/03

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.014 ILP # 3783

STREAM REFERENCING																																							
Gazetted Name:						Local Name:																																	
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.014		ILP #: 3783																															
REACH																																							
Reach #: 3.0		UTM(Zone/East/North): 9.603826.6003477				Sample Type: Random																																	
Length (km): 2.02		Coupling: Partially Couple		Magnitude: 4		BGC Zone: SBS																																	
Gradient (%): 4.3		Confinement: Occasionally Conf		Order: 2		Open water: Absent																																	
US Elev (m): 875		Islands: NONE		Riparian Vegetation: Coniferous																																			
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																							
SITE																																							
Site #: 49		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2002/09/03																															
Site Length (m): 300		GIS UTM 9.604785.6003243		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): 2.72</td> <td>2.1</td> <td>3.200</td> <td>6</td> </tr> <tr> <td>Wetted Width (m): 0.88</td> <td>0.600</td> <td>1.200</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m): 0.60</td> <td>0.6</td> <td>0.6</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m): 2.72	2.1	3.200	6	Wetted Width (m): 0.88	0.600	1.200	6	Bankfull Depth (m): 0.60	0.6	0.6	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 %: 3.75</td> <td>3</td> <td>5</td> <td>4</td> </tr> <tr> <td>Pool Depth (m): 0.42</td> <td>0.300</td> <td>0.5</td> <td>6</td> </tr> </table>				Avg	Min	Max	#	Gradient %: 3.75	3	5	4	Pool Depth (m): 0.42	0.300	0.5	6
Avg	Min	Max	#																																				
Channel Width (m): 2.72	2.1	3.200	6																																				
Wetted Width (m): 0.88	0.600	1.200	6																																				
Bankfull Depth (m): 0.60	0.6	0.6	3																																				
Avg	Min	Max	#																																				
Gradient %: 3.75	3	5	4																																				
Pool Depth (m): 0.42	0.300	0.5	6																																				
Dewatered: ☐		Tribes: ☐						Turbidity: Turbid ☐ Low ☐																															
Stage: Low ☒		Temp (C): 8		pH: 7.8		Conductivity: 40		Moderate ☐ Clear ☒																															
Med ☐																																							
High ☐																																							
MORPHOLOGY																																							
Bed Material: Dominant: Rock		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐																													
Subdominant: Cobble		D (cm): 10.00								Braid ☐																													
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2 B3 D1 D2 D3																													
Coupling: Coupled																																							
Confinement: Entrenched				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 D T T T S N																																					
LWD Dist: Evenly Distributed		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: Coniferous		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.014	88031	CV	1.2	GE	25	GE	R: 6	F: 04A	L:	#:	9.604826.6003																												
Comments: 2 x 1 m and 1 x 1.2 m culverts.																																							
FISH																																							
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																														
49	EF	1	300	329 sec	700	NFC	0																																
307	EF	1	700	546 sec	900	NFC	0																																

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.014 ILP # 3783 Site 49

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.014 ILP #: 3783 NID Map #: 093L.014 NID #: 20049 Reach #: 3.0 Site #: 49
Field UTM (Z.E.N): .. Method: Site Lg: 300 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.604785.6003243 Ref. Name:
Date: 2002/09/03 Time: 13:12 Agency: C172 Crew: DT/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	3.10	2.60	2.80	3.20	2.10	2.50					2.72	Method I:	5.0	4.0	C	3.75
Wetted Width (m):	T	1.20	0.60	1.20	0.60	0.90	0.80					0.88	Method II:	3.0	3.0	C	
Pool Depth (m):	MS	0.50	0.40	0.30	0.40	0.50	0.40					0.42					

Wb Depth: .6 .6 .6 Avg: 0.60 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	D	T	T	T	S	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F

DIST: E

LB SHP: U

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: R Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 10.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: EN
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.014	88031	CV	1.2	GE	25	GE	R: 6 F: 04A L:	#:	9.604826.6003245	GIS
Comments: 2 x 1 m and 1 x 1.2 m culverts.										

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Poor - shallow pools may offer overwintering.
Spawning Habitat	Poor - substrates not suitable for spawning.
Rearing Habitat	Poor - sections of bedrock throughout channel bed, limited flow.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
3.0	093L.014	3783	49

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	6	F:	04A	STD	U	Photo of 3 culverts at crossing.
R:	6	F:	05A	STD	U	Upstream photo of bedrock chute.
R:	6	F:	06A	STD	D	Downstream photo of bedrock chutes.
COMMENTS						
Section				Comments		
CHANNEL				Possible barrier downstream chutes may also prevent upstream migration 5 - 6 chutes. Barrier located downstream.		

FDIS Fish Card

Morice North Planning Area

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

Reach # 3.0 ILP Map # 093L.014 ILP # 3783

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.014				ILP #: 3783		Reach #: 3 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/03			To: 2002/09/03			Agency: C172		Crew: JD/DT		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
307	093L.014	20307				GPU EF 1	6	50	C				
49	093L.014	20049				GPU EF 1	8	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
49	EF 1	1	2002/09/03	13:12	2002/09/03	14:06							
307	EF 1	1	2002/09/03	14:00	2002/09/03	15:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
49	EF	1	1	O	329	300.0	1.0	700	60	6	SMITH ROOT	12B	
307	EF	1	1	O	546	700.0	1.0	900	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
49	EF	1	1	NFC		0							
307	EF	1	1	NFC		0							



Site #49, Photo of 3 culverts at crossing.
Roll #6, Frame #04A, Date: 2002/09/03



Site #49, Upstream photo of bedrock chute.
Roll #6, Frame #05A, Date: 2002/09/03



Site #49, Downstream photo of bedrock chutes.
Roll #6, Frame #06A, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 4.0 ILP Map # 093L.014 ILP # 3783

STREAM REFERENCING																																												
Gazetted Name:						Local Name:																																						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.014			ILP #: 3783																																			
REACH																																												
Reach #: 4.0		UTM(Zone/East/North): 9.603238.6004012				Sample Type: Biased																																						
Length (km): .86		Coupling: Decoupled		Magnitude: 1		BGC Zone: ESSF																																						
Gradient (%): 3.4		Confinement: Occasionally Conf				Order: 1		Open water: Absent																																				
US Elev (m): 904		Islands: NONE				Riparian Vegetation: Coniferous																																						
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 50		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2002/09/03																																				
Site Length (m): 100		GIS UTM 9.603387.6003783		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>1.08</td> <td>0.9</td> <td>1.200</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.58</td> <td>0.400</td> <td>0.9</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):	1.08	0.9	1.200	6	Wetted Width (m):	0.58	0.400	0.9	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>2.00</td> <td>1</td> <td>3</td> <td>4</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.30</td> <td>0.200</td> <td>0.400</td> <td>6</td> </tr> </table>				Avg	Min	Max	#	Gradient %:	2.00	1	3	4	Pool Depth (m):	0.30	0.200	0.400	6
Avg	Min	Max	#																																									
Channel Width (m):	1.08	0.9	1.200	6																																								
Wetted Width (m):	0.58	0.400	0.9	6																																								
Bankfull Depth (m):	0.40	0.3	0.5	3																																								
Avg	Min	Max	#																																									
Gradient %:	2.00	1	3	4																																								
Pool Depth (m):	0.30	0.200	0.400	6																																								
Dewatered: ☐		Tribes: ☐						Turbidity: Turbid ☐ Low ☐																																				
Stage: Low ☒		Temp (C): 8		pH: 7.6		Conductivity: 50		Moderate ☐ Clear ☒																																				
Med ☐																																												
High ☐																																												
MORPHOLOGY																																												
Bed Material: Dominant: Gravels		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐																																		
Subdominant: Cobble		D (cm): 5.00				Span ☐		Braid ☐																																				
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2																																		
Coupling: Decoupled						B3		D1		D2																																		
Confinement: Unconfined						D3																																						
Morphology: RP Riffle Pool						C1		C2		C3																																		
						C4		C5		S1																																		
						S2		S3		S4																																		
						S5																																						
COVER																																												
Total Cover: Abundant		Type: SWD		LWD		B		U		DP																																		
LWD: Few		Amount: S		S		N		T		N																																		
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☐		☒																																		
										FSZ: ☐																																		
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																		
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																		
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest								Crown Closure 1-20%																																		
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.013	88032	CV	1.0	GE	20	HC	R: 6	F: 07A	L:	#:	9.603445.6003																																	
Comments:																																												
FISH																																												
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																			
50	EF	1	100	216 sec	700	NFC	0																																					

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.014 ILP # 3783 Site 50

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
Local Name: ILP Map #: 093L.014 ILP #: 3783 NID Map #: 093L.013 NID #: 20050 Reach #: 4.0 Site #: 50
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.603387.6003783 Ref. Name:
Date: 2002/09/03 Time: 14:17 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):	MS	1.20	1.20	1.00	0.90	1.20	1.00					1.08	Method I:	2.0	3.0	C	2.00
Wetted Width (m):	MS	0.40	0.60	0.40	0.90	0.50	0.70					0.58	Method II:	2.0	1.0	C	
Pool Depth (m):	MS	0.40	0.30	0.20	0.20	0.30	0.40					0.30					

Wb Depth: .4 .3 .5 Avg: 0.40 Method: MS 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	T	N	D	T
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒

LWD: F DIST: C

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 50 Method: S3
pH: 7.6 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: 10.0 D (cm): 5.00 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 ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.013	88032	CV	1.0	GE	20	HC	R: 6 F: 07A L: #:		9.603445.6003645	GIS
Comments:										

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None.
Spawning Habitat	Poor - low flows, poor spawning substrates.
Rearing Habitat	Poor - shallow pool depths, low 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
4.0	093L.014	3783	50

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	6	F:	07A	STD	U	Photo of culvert.
R:	6	F:	08A	STD	U	Upstream photo of channel.
R:	6	F:	09A	STD	D	Downstream photo of substrates.
COMMENTS						
Section				Comments		
CHANNEL				Downstream barrier located prevents upstream migration.		
CHANNEL				S6		

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.014
ILP # 3783

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.014				ILP #: 3783		Reach #: 4 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/03			To: 2002/09/03			Agency: C172		Crew: JD/DT		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
50	093L.013	20050				GPU EF 1	8	50	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
50	EF 1	1	2002/09/03	14:17	2002/09/03	14:30								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
50	EF	1	1	O	216	100.0	0.6	700	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
50	EF	1	1	NFC		0								



Site #50, Photo of culvert.
Roll #6, Frame #07A, Date: 2002/09/03



Site #50, Upstream photo of channel.
Roll #6, Frame #08A, Date: 2002/09/03



Site #50, Downstream photo of substrates.
Roll #6, Frame #09A, Date: 2002/09/03

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.013	3731

Triton Environmental Consultants Ltd.

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.013 ILP # 3731 Site 51

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.013 ILP #: 3731 NID Map #: 093L.013 NID #: 20051 Reach #: 1.0 Site #: 51
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.603567.6003423 Ref. Name:
Date: 2002/09/03 Time: 14:50 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):	MS	1.00	0.90	1.30	1.20	1.10	1.30					1.13	Method I:	5.0	6.0	C	5.50
Wetted Width (m):	MS				1.00	0.60						0.80	Method II:	6.0	5.0	C	
Pool Depth (m):	MS				0.20	0.10						0.15					

Wb Depth: .3 .4 .4 Avg: 0.37 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	D	N	S	N	S	T
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 50 Method: S3
pH: 7.8 Method: P2 Method: GE
Flood Signs: Rafted debris Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: G Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 10.0 D (cm): 5.00 Morph: CP 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.
Spawning Habitat	Poor - low flows, gravels mixed with fines.
Rearing Habitat	Poor - ephemeral stream, low flows, shallow residual pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 6 F: 10A	STD	U	Upstream photo of channel.
R: 6 F: 11A	STD	D	Downstream photo of dry channel.

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	1.0	093L.013	3731	51

COMMENTS	
Section	Comments
CHANNEL	Barrier downstream on mainstem.
CHANNEL	S6

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 # 3731

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.013		ILP #: 3731		Reach #: 1 -			
Project ID: 5270						Lake/Stream: S			Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/03			To: 2002/09/03			Agency: C172		Crew: JD/DT		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
51	093L.013	20051				GPU EF 1	8	50	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
51	EF 1	1	2002/09/03	14:50	2002/09/03	15:10							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
51	EF	1	1	O	104	100.0	0.6	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
51	EF	1	1	NFC		0							



Site #51, Upstream photo of channel.
Roll #6, Frame #10A, Date: 2002/09/03



Site #51, Downstream photo of dry channel.
Roll #6, Frame #11A, Date: 2002/09/03

Morice North Planning Area

Reach #	ILP Map #	ILP #
5.0	093L.014	3783

Triton Environmental Consultants Ltd.

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
5.0	093L014	3783	52

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
5.0	093L.014	3783	52

COMMENTS	
Section	Comments
CHANNEL	Barrier to upstream fish migration downstream.
CHANNEL	S6.

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.014 ILP # 3783

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.014		ILP #: 3783		Reach #: 5 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/03		To:		2002/09/03		Agency: C172		Crew: JD/DT		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment							
52	093L.013	20052				GPU EF 1	8	50	C								
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
52	EF 1	1	2002/09/03	15:25	2002/09/03	15:40											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
52	EF	1	1	O	119	100.0	0.6	700	60	6	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
52	EF	1	1	NFC		0											



Site #52, Upstream photo of an isolated pool.
Roll #6, Frame #12A, Date: 2002/09/03



Site #52, Downstream photo of LWD.
Roll #6, Frame #13A, Date: 2002/09/03

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 #

2.0 093L.026 3679

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3679		
REACH									
Reach #: 2.0		UTM (Zone/East/North): 9.637216.6015133				Sample Type: Biased			
Length (km): 2.04		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 2.2		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 795		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 80		Field UTM 9.638420.6016197		Agency: C172		Crew: SG/JD		Date: 2002/09/22	
Site Length (m): 300		GIS UTM 9.638414.6016228		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.73		0.600		0.9	
Stage: Low ☒				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.27		0.2		0.3	
High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 5.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine				C1		C2		C3	
Morphology: RP Riffle Pool				C4		C5		S1	
				C6		S2		S3	
				S4		S5			
COVER									
Total Cover: Abundant		Type:		SWD		LWD		B	
LWD: Abundant		Amount:		T		N		N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☐		☐	
				☐		☐		☐	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous				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 # 2.0 ILP Map # 093L.026 ILP # 3679 Site # 80

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 #: 3679 NID Map #: 093L.026 NID #: 20080 Reach #: 2.0 Site #: 80
Field UTM (Z.E.N): 9.638420.6016197 Method: GPU Site Lg: 300 Method: GE Access: V4
GIS UTM (Z.E.N): 9.638414.6016228 Ref. Name:
Date: 2002/09/22 Time: 14:00 Agency: C172 Crew: SG/JD Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS	0.70	0.80	0.60	0.80	0.90	0.60					0.73	Method I:	2.0	3.0	C 3.00
Wetted Width (m):	MS											0.00	Method II:	4.0	3.0	C
Pool Depth (m):	MS											0.00				

Wb Depth: .3 .2 .3 Avg: 0.27 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	N	N	S	N	D	S
Loc: P/S/O:	☒	☐	☐	☒	☐	☒	☒

LWD: A DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: PS

WATER

EMS: Req #: Method: S3
Temp: Method: T4 Cond.: Method: GE
pH: Method: P2
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 10.0 D (cm): 5.00 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.
Spawning Habitat	None - fines abundant, ephemeral stream.
Rearing Habitat	Poor - ephemeral stream, no residual pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 7 F: 11	STD	U	Upstream photo of channel.
R: 7 F: 12	STD	D	Downstream photo of channel.

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	3679	80

COMMENTS	
Section	Comments
CHANNEL	No perennial habitat upstream.
CHANNEL	45% for over 100 m in Reach 1.
CHANNEL	S6



Site #80, Upstream photo of channel.
Roll #7, Frame #11A, Date: 2002/09/22



Site #80, Downstream photo of channel.
Roll #7, Frame #12A, Date: 2002/09/22

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 3701

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3701		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.637613.6014805				Sample Type: Biased			
Length (km): .90		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 4.0		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 813		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 81		Field UTM ..		Agency: C172		Crew: SG/JD		Date: 2002/09/27	
Site Length (m): 400		GIS UTM 9.638255.6015391		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		0.95		0.7	
Stage: Low ☒				Wetted Width (m):		0.52		0.300	
Med ☐				Bankfull Depth (m):		0.33		0.3	
High ☐						0.4		3	
Temp (C): 10		pH: 7.9		Conductivity: 60					
				Avg		Min		Max	
				Gradient %:		4.75		2	
				Pool Depth (m):		0.11		0.06	
						0.200		6	
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 5.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		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: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		T		N	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☐	
		☐		☐		☐		☐	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Mature forest				Rock ☐		Manmade ☐	
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)
81	EF	1	400	351 sec	800	NFC	0		

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 # 3701 Site # 81

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.026 ILP #: 3701 NID Map #: 093L.026 NID #: 20081 Reach #: 2.0 Site #: 81
Field UTM (Z.E.N): .. Method: Site Lg: 400 Method: MAP Access: V2
GIS UTM (Z.E.N): 9.638255.6015391 Ref. Name:
Date: 2002/09/27 Time: 15:00 Agency: C172 Crew: SG/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	1.10	1.20	0.80	0.70	0.90	1.00					0.95	Method I:	2.0	3.0	C	4.75
Wetted Width (m):	MS	0.50	0.30	0.60	0.50	0.60	0.60					0.52	Method II:	6.0	8.0	C	
Pool Depth (m):	MS	0.10	0.06	0.10	0.20	0.10	0.10					0.11					

Wb Depth: .3 .4 .3 Avg: 0.33 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	S	T	N	N	D	T
Loc: P/S/O:	☒	☒	☒	☐	☐	☒	☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: MF

WATER

EMS: Temp: 10 Method: T4 Req #: Cond.: 60 Method: S3
pH: 7.9 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: 10.0 D (cm): 5.00 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.
Spawning Habitat	None - limited by lack of good quality gravel and lack of spawning locations.
Rearing Habitat	Poor - limited by lack of pool and seasonal flow.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 7 F: 15	STD	U	Upstream photo of culvert outlet.
R: 7 F: 16	STD	D	Downstream photo of channel.

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.026	3701	81

COMMENTS	
Section	Comments
CHANNEL	Barrier (%) downstream in Reach 1. NFC upstream of %.
CHANNEL	S6

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.026	3701

Triton Environmental Consultants Ltd.



Site #81, Upstream photo of culvert outlet.
Roll #7, Frame #15A, Date: 2002/09/27



Site #81, Downstream photo of channel.
Roll #7, Frame #16A, Date: 2002/09/27

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.026	3702

STREAM REFERENCING																	
Gazetted Name:				Local Name:													
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000				ILP Map #: 093L.026				ILP #: 3702									
REACH																	
Reach #: 1.0		UTM(Zone/East/North): 9.638011.6014950						Sample Type: Biased									
Length (km): .78		Coupling: Decoupled			Magnitude: 1			BGC Zone: SBS									
Gradient (%): 6.0		Confinement: Occasionally Conf			Order: 1			Open water: Absent									
US Elev (m): 806		Islands: NONE			Riparian Vegetation: Not Specified												
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																	
SITE																	
Site #: 82		Field UTM ..		Agency: C172		Crew: SG/JD		Date: 2002/09/27									
Site Length (m): 100		GIS UTM 9.638466.6015192		Agency Name: Triton Environmental Consultants (Terrace)													
CHANNEL																	
No Vis.Ch.: ☒		Intermittent: ☐															
Dewatered: ☐		Tribs.: ☐															
Stage:	Low ☐			Avg		Min	Max	#			Avg	Min	Max	#			
	Med ☐			Channel Width (m):		0.00	0	0	0			Gradient %:		0.00	0	0	0
	High ☐			Wetted Width (m):		0.00	0	0	0			Pool Depth (m):		0.00	0	0	0
				Bankfull Depth (m):		0.00	0	0	0					Turbidity.: Turbid ☐		Low ☐	
Temp (C):		pH:		Conductivity:										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:						☐	☐	☐	☐	☐	☐	☐					
Confinement:						C1	C2	C3	C4	C5	S1	S2	S3	S4	S5		
Morphology:						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
COVER																	
Total Cover:		Type:		SWD	LWD	B	U	DP	OV	IV							
LWD:		Amount:															
LWD Dist:		Location: P/S/O:		☐ ☐ ☐	☐ ☐ ☐	☐ ☐ ☐	☐ ☐ ☐	☐ ☐ ☐	☐ ☐ ☐	☐ ☐ ☐	FSZ: ☐						
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 # 3702 Site 82

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 #: 3702		NID Map #: 093L.026			NID #: 20082		Reach #: 1.0		Site #: 82																																																																		
Field UTM (Z.E.N): ..					Method:					Site Lg: 100		Method: MAP		Access: V2																																																																
GIS UTM (Z.E.N): 9.638466.6015192					Ref. Name:																																																																									
Date: 2002/09/27			Time: 13:00		Agency: C172			Crew: SG/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>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	
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LWD: DIST:								INSTREAM VEG: N ☐ A ☐ M ☐ V ☐																																																																						
LB SHP:								RB SHP:																																																																						
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Bed Material:		Dominant:		Subdom:		O1 B1 B2 B3 D1 D2 D3																																																																								
D95:		D (cm):		Morph:		DISTURBANCE INDICATORS																																																																								
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Name					Comments																																																																									
Other					No fish habitat due to No Visible Channel.																																																																									
PHOTOS																																																																														
Photo		Foc Lg		Dir		Comments																																																																								
R:	7	F:	13	STD		U		Upslope photo of seepage.																																																																						
R:	7	F:	14	STD		D		Downslope photo of seepage.																																																																						
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
1.0	093L.026	3702	82

COMMENTS	
Section	Comments
CHANNEL	638852 / 6015555
CHANNEL	18-22% on mainstem prevents upstream fish migration - not FSZ.
CHANNEL	NVC



Site #82, Upslope photo of seepage.
Roll #7, Frame #13A, Date: 2002/09/27



Site #82, Downslope photo of seepage.
Roll #7, Frame #14A, Date: 2002/09/27

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.056 ILP # 2445

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.056		ILP #: 2445		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.637562.6041941				Sample Type: Biased			
Length (km): 1.16		Coupling: Decoupled		Magnitude: 57		BGC Zone: SBS			
Gradient (%): 3.6		Confinement: Occasionally Conf				Order: 3		Open water: Absent	
US Elev (m): 628		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 250		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03	
Site Length (m): 175		GIS UTM 9.638659.6041813		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 7.80		6.800		9.2	
Stage: Low ☒				Wetted Width (m): 6.00		4.900		8	
Med ☐				Bankfull Depth (m): 0.27		0.2		0.4	
High ☐		Temp (C): 8		pH: 7.0		Conductivity: 120			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 40.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Gravels		D (cm): 20.00						Mid-channel ☐	
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: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		D		T	
LWD Dist: Not Applicable		Location: P/S/O:		☐		☐		☒	
				☐		☐		☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Young forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Young forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
								Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.056	25250	X	1.2	MS	0	MS	R: 99	F: 01	L: #:
Comments: Log Falls - non permanent obstruction, 50 m u/s of Bridge									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
250	EF	1	150	359 sec	300	RB	4	70	95
250	EF	1	150	359 sec	300	DV	6	85	105
250	EF	1	150	359 sec	300	CO	5	70	87

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.056 ILP # 2445 Site # 250

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
Local Name: Edwards Creek
ILP Map #: 093L.056 ILP #: 2445 NID Map #: 093L.056 NID #: 20250 Reach #: 2.0 Site #: 250
Field UTM (Z.E.N): ... Method: Site Lg: 175 Method: HC Access: V2
GIS UTM (Z.E.N): 9.638659.6041813 Ref. Name:
Date: 2002/09/03 Time: 07:30 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	7.50	7.50	8.30	9.20	6.80	7.50					7.80	Method I:	2.0	2.5	C	2.38
Wetted Width (m):	MS	6.30	6.60	8.00	5.20	5.00	4.90					6.00	Method II:	3.0	2.0	C	
Pool Depth (m):	MS	0.30	0.30	0.80		0.60						0.50					

Wb Depth: .4 .2 .2 Avg: 0.27 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: N DIST: NA

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: YF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: YF

WATER

EMS: Temp: 8 Method: T3 Req #: Cond.: 120 Method: S3
pH: 7.0 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: UN
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.056	25250	X	1.2	MS	0	MS	R: 99 F: 01 L:	#:	9.638585.6041807	GIS

Comments: Log Falls - non permanent obstruction, 50 m u/s of Bridge

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - limited gravel substrate and riffle pool sequencing.
OverWinter Habitat	Poor - lack of good deep pools (only 1 in 150 m).
Rearing Habitat	Good - abundant boulder cover / shallow pool and deep runs.

FDIS Site Card

Morice North Planning Area

Reach #

ILP Map #

ILP #

Site

2.0

093L.056

2445

250

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

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	99	F: 01	STD	U	1.2 m Log Falls (non-permanent obstruction).
R:	99	F: 02	STD	D	Typical habitat.
R:	99	F: 03	STD	U	Typical habitat (Log Falls visible in background).
COMMENTS					
Section			Comments		
SITE CARD			Partial obstruction observed 50 m upstream of bridge, small channel (1.0 m wide) observed around Falls.		
SITE CARD			S2		

FDIS Fish Card

Morice North Planning Area

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

Reach # 2.0 ILP Map # 093L.056 ILP # 2445

WATERBODY															
Gazetted Name:										Local: Edwards 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.056				ILP #: 2445		Reach #: 2 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date: 2002/09/03		To: 2002/09/03		Agency: C172		Crew: SG/SH		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
250	093L.056	20250				GPU EF 1	7.5	120	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
250	EF 1	1	2002/09/03	07:30	2002/09/03	07:50									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
250	EF 1	1	O	359	150.0	7.5	300	60	6	SMITH ROOT	12B				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
250	EF 1	1	CO	J		5	70	87	R						
250	EF 1	1	DV	J		6	85	105	R						
250	EF 1	1	RB	J		4	70	95	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#				
250	EF	1	1	DV	105		U	IM							
250	EF	1	1	DV	85		U	IM							
250	EF	1	1	DV	95		U	IM							
250	EF	1	1	DV	90		U	IM							
250	EF	1	1	DV	100		U	IM							
250	EF	1	1	DV	102		U	IM							
250	EF	1	1	RB	95		U	IM							
250	EF	1	1	RB	70		U	IM							
250	EF	1	1	RB	72		U	IM							
250	EF	1	1	RB	79		U	IM							
250	EF	1	1	CO	85		U	IM							
250	EF	1	1	CO	70		U	IM							
250	EF	1	1	CO	87		U	IM							
250	EF	1	1	CO	71		U	IM							
250	EF	1	1	CO	75		U	IM							



Site #250, 1.2 m Log Falls (non-permanent obstruction).
Roll #99, Frame #01, Date: 2002/09/03



Site #250, Typical habitat.
Roll #99, Frame #02, Date: 2002/09/03



Site #250, Typical habitat (Log Falls visible in background).
Roll #99, Frame #03, 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 #
4.0 093L.046 3007

STREAM REFERENCING																																							
Gazetted Name:						Local Name:																																	
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 3007																														
REACH																																							
Reach #: 4.0		UTM(Zone/East/North): 9.638287.6041444				Sample Type: Biased																																	
Length (km): .81		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS																																	
Gradient (%): 6.9		Confinement: Occasionally Conf		Order: 1		Open water: Absent																																	
US Elev (m): 621		Islands: NONE		Riparian Vegetation: Deciduous																																			
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																							
SITE																																							
Site #: 251		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03																															
Site Length (m): 125		GIS UTM 9.638756.6041245		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): 0.66</td> <td>0.400</td> <td>0.800</td> <td>6</td> </tr> <tr> <td>Wetted Width (m): 0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bankfull Depth (m): 0.10</td> <td>0.1</td> <td>0.1</td> <td>3</td> </tr> </tbody> </table>				Avg	Min	Max	#	Channel Width (m): 0.66	0.400	0.800	6	Wetted Width (m): 0.00	0	0	0	Bankfull Depth (m): 0.10	0.1	0.1	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 %: 5.00</td> <td>4</td> <td>6</td> <td>4</td> </tr> <tr> <td>Pool Depth (m): 0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Avg	Min	Max	#	Gradient %: 5.00	4	6	4	Pool Depth (m): 0.00	0	0	0
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Dewatered: ☐		Tribes: ☐																																					
Stage: Low ☐								Turbidity: Turbid ☐ Low ☐																															
Med ☐								Moderate ☐ Clear ☐																															
High ☐		Temp (C):		pH:		Conductivity:																																	
MORPHOLOGY																																							
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐																													
Subdominant: Cobble		D (cm): 10.00								Braid ☐																													
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS																																			
Coupling: Decoupled				<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: Unconfined				<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: 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>T</td> <td>S</td> <td>T</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:	T	S	T	T	N	D	N	Location: P/S/O:	☒	☒	☒	☒	☐	☒	☐				
Type:	SWD	LWD	B	U	DP	OV	IV																																
Amount:	T	S	T	T	N	D	N																																
Location: P/S/O:	☒	☒	☒	☒	☐	☒	☐																																
LWD: Few		FSZ: ☐																																					
LWD Dist: Evenly Distributed																																							
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐																													
Left Bank: Shape: Sloping (g)		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.046	25251	CV	.5	MS	12	HC	R: 99	F: 06	L:	#:		9.638894.6041																											
Comments: Perched 0.2 m (partial barrier)																																							

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.056	2445	250

PHOTOS				
Photo		Foc Lg	Dir	Comments
R:	99 F: 01	STD	U	1.2 m Log Falls (non-permanent obstruction).
R:	99 F: 02	STD	D	Typical habitat.
R:	99 F: 03	STD	U	Typical habitat (Log Falls visible in background).
COMMENTS				
Section		Comments		
SITE CARD		Partial obstruction observed 50 m upstream of bridge, small channel (1.0 m wide) observed around Falls.		
SITE CARD		S2		

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.056 ILP # 2445 Site # 250

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: Edwards Creek
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.056 ILP #: 2445 NID Map #: 093L.056 NID #: 20250 Reach #: 2.0 Site #: 250
Field UTM (Z.E.N): .. Method: Site Lg: 175 Method: HC Access: V2
GIS UTM (Z.E.N): 9.638659.6041813 Ref. Name:
Date: 2002/09/03 Time: 07:30 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg	
Channel Width (m):	MS	7.50	7.50	8.30	9.20	6.80	7.50					7.80	Method I:	2.0	2.5	C	2.38	
Wetted Width (m):	MS	6.30	6.60	8.00	5.20	5.00	4.90					6.00		Method II:	3.0	2.0		C
Pool Depth (m):	MS	0.30	0.30	0.80		0.60						0.50						

Wb Depth: .4 .2 .2 Avg: 0.27 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: N DIST: NA

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: YF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: YF

WATER

EMS: Temp: 8 Method: T3 Req #: Cond.: 120 Method: S3
pH: 7.0 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: UN
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.056	25250	X	1.2	MS	0	MS	R: 99 F: 01 L:	#:	9.638585.6041807	GIS

Comments: Log Falls - non permanent obstruction, 50 m u/s of Bridge

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - limited gravel substrate and riffle pool sequencing.
OverWinter Habitat	Poor - lack of good deep pools (only 1 in 150 m).
Rearing Habitat	Good - abundant boulder cover / shallow pool and deep runs.

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.046 ILP # 3007 Site 251

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.046 ILP #: 3007 NID Map #: 093L.046 NID #: 20251 Reach #: 4.0 Site #: 251
Field UTM (Z.E.N): .. Method: Site Lg: 125 Method: HC Access: V2
GIS UTM (Z.E.N): 9.638756.6041245 Ref. Name:
Date: 2002/09/03 Time: 08:00 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	0.80	0.57	0.40	0.77	0.65	0.75					0.66	Method I:	6.0	5.0	C	5.00
Wetted Width (m):	MS											0.00	Method II:	4.0	5.0	C	
Pool Depth (m):	MS											0.00					

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

COVER Total: M

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

LWD: F DIST: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

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: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 20.0 D (cm): 10.00 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 ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.046	25251	CV	.5	MS	12	HC	R: 99 F: 06 L:	#:	9.638894.6041174	GIS

Comments: Perched 0.2 m (partial barrier)

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - due to seasonal stream flow, limited gravels and no riffle pool sequencing.
Overwinter Habitat	None - due to seasonal stream flow.
Rearing Habitat	Poor - due to seasonal stream flow and lack of 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
4.0	093L.046	3007	251

PHOTOS					
Photo				Foc Lg	Dir
					Comments
R:	99	F:	04	STD	D
Downstream photo of Dry Channel.					
R:	99	F:	05	STD	U
Upstream photo of sinuous Dry Channel.					
R:	99	F:	06	STD	U
Upstream photo of 0.2 m perched CV.					
COMMENTS					
Section				Comments	
CHANNEL				Inferred S4.	
CHANNEL				Channel braids out above CV crossing.	



Site #251, Downstream photo of Dry Channel.
Roll #99, Frame #04, Date: 2002/09/03



Site #251, Upstream photo of sinuous Dry Channel.
Roll #99, Frame #05, Date: 2002/09/03



Site #251, Upstream photo of 0.2 m perched CV.
Roll #99, Frame #06, Date: 2002/09/03

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.046 ILP # 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 #: 3.0		UTM(Zone/East/North): 9.639223.6039219				Sample Type: Biased																																	
Length (km): .92		Coupling: Decoupled		Magnitude: 3		BGC Zone: SBS																																	
Gradient (%): 4.9		Confinement: Occasionally Conf		Order: 2		Open water: Absent																																	
US Elev (m): 600		Islands: NONE		Riparian Vegetation: Mixed C/D																																			
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																							
SITE																																							
Site #: 252		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03																															
Site Length (m): 125		GIS UTM 9.639433.6039347		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): 0.98</td> <td>0.7</td> <td>1.200</td> <td>6</td> </tr> <tr> <td>Wetted Width (m): 0.78</td> <td>0.5</td> <td>1</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m): 0.17</td> <td>0.1</td> <td>0.2</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m): 0.98	0.7	1.200	6	Wetted Width (m): 0.78	0.5	1	6	Bankfull Depth (m): 0.17	0.1	0.2	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 %: 3.38</td> <td>2.5</td> <td>4</td> <td>4</td> </tr> <tr> <td>Pool Depth (m): 0.18</td> <td>0.050</td> <td>0.35</td> <td>6</td> </tr> </table>				Avg	Min	Max	#	Gradient %: 3.38	2.5	4	4	Pool Depth (m): 0.18	0.050	0.35	6
Avg	Min	Max	#																																				
Channel Width (m): 0.98	0.7	1.200	6																																				
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Bankfull Depth (m): 0.17	0.1	0.2	3																																				
Avg	Min	Max	#																																				
Gradient %: 3.38	2.5	4	4																																				
Pool Depth (m): 0.18	0.050	0.35	6																																				
Dewatered: ☐		Tribes.: ☐																																					
Stage: Low ☐																																							
Med ☒																																							
High ☐																																							
Temp (C): 10		pH: 7.0		Conductivity: 180																																			
								Turbidity.: Turbid ☐ Low ☐																															
								Moderate ☐ Clear ☒																															
MORPHOLOGY																																							
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐																													
Subdominant: Fines		D (cm): 7.00								Span ☐																													
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2																													
Coupling: Decoupled				INDICATORS		☐		☐		☐																													
Confinement: Unconfined						D1		D2		D3																													
Morphology: RP Riffle Pool						C1		C2		C3																													
						C4		C5		S1																													
						S2		S3		S4																													
						S5																																	
COVER																																							
Total Cover: Moderate		Type: SWD		LWD		B		U		DP																													
LWD: Few		Amount: T		T		T		S		N																													
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒		☒																													
				☐		☐		☐		☐																													
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																													
Left Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																													
Right Bank: Rip.Veg: Mixed C/D		Stage: Young forest								Crown Closure																													
Left Bank: Rip.Veg:		Stage: Young forest								1-20%																													
										Instream Veg: None ☒																													
										Algae ☐																													
										Moss ☐																													
										Vascular ☐																													
FEATURES																																							
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)																												
093L.046	25252	CV	.6	MS		HC	R: 99	F: 09	L:	#:	9.639719.6039																												
Comments: Perched 0.2 m culvert - partial barrier.																																							
FISH																																							
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																														
252	EF	1	200	293 sec	500	NFC	0																																

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.046 ILP # 2999 Site 252

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 #: 2999 NID Map #: 093L.046 NID #: 20252 Reach #: 3.0 Site #: 252
Field UTM (Z.E.N): .. Method: Site Lg: 125 Method: HC Access: V2
GIS UTM (Z.E.N): 9.639433.6039347 Ref. Name:
Date: 2002/09/03 Time: 09:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	1.10	1.20	0.80	0.95	1.10	0.70					0.98	Method I:	4.0	2.5	C	3.38
Wetted Width (m):	MS	1.00	0.90	0.60	0.80	0.90	0.50					0.78	Method II:	3.0	4.0	C	
Pool Depth (m):	MS	0.10	0.15	0.10	0.05	0.30	0.35					0.18					

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

COVER Total: M

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

LWD: F DIST: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

WATER

EMS: Temp: 10 Method: T4 Req #: Cond.: 180 Method: S3
pH: 7.0 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: 20.0 D (cm): 7.00 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 ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.046	25252	CV	.6	MS		HC	R: 99 F: 09 L:	#:	9.639719.6039417	GIS

Comments: Perched 0.2 m culvert - partial barrier.

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - limited by seasonal stream flow and suitable locations.
Overwinter Habitat	None - limited by lack of deep pools / seasonal stream flows.
Rearing Habitat	Poor - limited by lack of pools / shallow stream channel.

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.046	2999	252

PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	99	F: 07	STD	D	Downstream photo of typical habitat / gravel channel.
R:	99	F: 08	STD	U	Upstream photo of typical habitat within site.
R:	99	F: 09	STD	U	Upstream photo of 0.2 m perched culvert (partial barrier).
COMMENTS					
Section		Comments			
CHANNEL		CV partial barrier due to shallow water depths / perched.			
CHANNEL		Inferred S4.			
CHANNEL		Ephemeral.			

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.046	2999

Triton Environmental Consultants Ltd.



Site #252, Downstream photo of typical habitat / gravel channel.
Roll #99, Frame #07, Date: 2002/09/03



Site #252, Upstream photo of typical habitat within site.
Roll #99, Frame #08, Date: 2002/09/03



Site #252, Upstream photo of 0.2 m perched culvert (partial barrier).
Roll #99, Frame #09, Date: 2002/09/03

Morice North Planning Area

1.0	093L.046	2941
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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 # 2941 Site 253

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.046 NID #: 20253 Reach #: 1.0 Site #: 253
Field UTM (Z.E.N): .. Method: Site Lg: 150 Method: HC Access: V2
GIS UTM (Z.E.N): 9.640444.6037544 Ref. Name:
Date: 2002/09/03 Time: 09:45 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	20.20	22.50	14.60	16.70	12.90	16.30					17.20	Method I:	3.0	5.0	C	3.88
Wetted Width (m):	MS	13.50	14.10	13.80	14.90	11.70	14.90					13.82	Method II:	3.5	4.0	C	
Pool Depth (m):	MS	0.40	0.20		0.40		0.40					0.35					

Wb Depth: .5 .3 .2 Avg: 0.33 Method: MS Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

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

LWD: F DIST: C

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: D

STG: YF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: D

STG: YF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 40 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☒ C ☐ Method: GE
Flood Signs: Abandon overflow cha Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 65.0 D (cm): 25.00 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
Spawning Habitat	Poor - good substrate but poor spawning locations (extensive riffle) and holding habitats.
OverWinter Habitat	Poor - limited by lack of pool and extensive riffle areas.
Rearing Habitat	Poor - limited by lack of pool and overhead cover and high stream energy (extensive riffle).

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 99 F: 10 STD D			Downstream photo of typical habitat, extensive riffle area.
R: 99 F: 11 STD U			Upstream photo of typical habitat, eroding bank in centre of photo.

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
1.0	093L.046	2941	253

COMMENTS	
Section	Comments
SITE CARD	Sampled downstream of bridge.
CHANNEL	S2

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.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 #: 1 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date: 2002/09/03		To: 2002/09/03		Agency: C172		Crew: SG/SH		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
253	093L.046	20253				GPU EF 1	8	40	L						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
253	EF 1	1	2002/09/03	09:45	2002/09/03	10:30									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
253	EF 1	1	O	255	100.0	18.0	600	60	6	SMITH ROOT	12B				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
253	EF 1	1	DV	J		1	70 70	R							
253	EF 1	1	DV	F		1	40 40	R							
253	EF 1	1	RB	J		12	65 110	R							
253	EF 1	1	CO	J		10	60 72	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#				
253	EF	1	1	DV	40		U	IM							
253	EF	1	1	DV	70		U	IM							
253	EF	1	1	CO	65		U	IM							
253	EF	1	1	CO	71		U	IM							
253	EF	1	1	CO	68		U	IM							
253	EF	1	1	CO	68		U	IM							
253	EF	1	1	CO	70		U	IM							
253	EF	1	1	CO	60		U	IM							
253	EF	1	1	CO	62		U	IM							
253	EF	1	1	CO	70		U	IM							
253	EF	1	1	CO	72		U	IM							
253	EF	1	1	CO	65		U	IM							
253	EF	1	1	RB	65		U	IM							
253	EF	1	1	RB	82		U	IM							
253	EF	1	1	RB	110		U	IM							
253	EF	1	1	RB	75		U	IM							
253	EF	1	1	RB	70		U	IM							
253	EF	1	1	RB	85		U	IM							
253	EF	1	1	RB	90		U	IM							
253	EF	1	1	RB	75		U	IM							
253	EF	1	1	RB	95		U	IM							
253	EF	1	1	RB	80		U	IM							
253	EF	1	1	RB	78		U	IM							
253	EF	1	1	RB	85		U	IM							
COMMENTS															
Section				Comments											
WATERBODY				Shocked in side channel and stream margin habitats - all fish captured in side channel habitat - shocking in mainstem was unproductive.											



Site #253, Downstream photo of typical habitat, extensive riffle area.
Roll #99, Frame #10, Date: 2002/09/03



Site #253, Upstream photo of typical habitat, eroding bank in centre of photo.
Roll #99, Frame #11, Date: 2002/09/03

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.046 2937

STREAM REFERENCING													
Gazetted Name:						Local Name:							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 2937				
REACH													
Reach #: 1.0		UTM(Zone/East/North): 9.639953.6037033				Sample Type: Biased							
Length (km): .61		Coupling: Decoupled		Magnitude: 4		BGC Zone: SBS							
Gradient (%): 3.1		Confinement: Occasionally Conf		Order: 2		Open water: Absent							
US Elev (m): 580		Islands: NONE		Riparian Vegetation: Deciduous									
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified													
SITE													
Site #: 254		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03					
Site Length (m): 200		GIS UTM 9.640121.6037015		Agency Name: Triton Environmental Consultants (Terrace)									
CHANNEL													
No Vis.Ch.: ☒ Intermittent: ☐						Avg		Min		Max		#	
Dewatered: ☐ Tribs.: ☐						Avg		Min		Max		#	
Stage: Low ☐		Channel Width (m):				0.00		0		0		0	
Med ☐		Wetted Width (m):				0.00		0		0		0	
High ☐		Bankfull Depth (m):				0.00		0		0		0	
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	
COVER													
Total Cover:		Type:		SWD		LWD		B		U		DP	
LWD:		Amount:											
LWD Dist:		Location: P/S/O:		☐		☐		☐		☐		FSZ: ☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Young forest										Crown Closure	
Left Bank: Rip.Veg:		Stage: Young forest										Instream Veg: None ☐	
												Algae ☐	
												Moss ☐	
												Vascular ☐	
FEATURES													
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto			UTM (Z/E/N)
093L.046	25254	CV	.4	MS	12	HC	R: 99	F: 12	L:	#:			9.640211.6036
Comments: Upstream at outlet - newly installed CV.													

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 # 2937 Site 254

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 #: 2937 NID Map #: 093L.046 NID #: 20254 Reach #: 1.0 Site #: 254
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: HC Access: V2
GIS UTM (Z.E.N): 9.640121.6037015 Ref. Name:
Date: 2002/09/03 Time: 11:30 Agency: C172 Crew: SG/SH 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:	3.0	C	3.00
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 ☐ 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: D

STG: YF

RIP: D

STG: YF

WATER

EMS: Temp: pH: Flood Signs: Method: T4 Method: P2 Method: GE Req #: Cond.: Turb.: T ☐ M ☐ L ☐ C ☐ Method: S3 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	25254	CV	.4	MS	12	HC	R: 99 F: 12 L:	#:	9.640211.6036999	GIS

Comments: Upstream at outlet - newly installed CV.

HABITAT QUALITY

Name	Comments
Other	No Fish Habitat due to No Visible Channel.

PHOTOS

Photo	Foc Lg	Dir	Comments
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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
1.0	093L.046	2937	254

PHOTOS					
Photo		Foc Lg		Dir	Comments
R: 99	F: 12	STD		U	Upstream photo of newly installed culvert.
R: 99	F: 13	STD		D	Downstream photo of No Visible Channel.
R: 99	F: 14	STD		U	Upstream photo of No Visible Channel.
COMMENTS					
Section		Comments			
CHANNEL		NCD - No channel observed 100 m downstream and upstream of road crossing. No signs of alluvium or scour.			



Site #254, Upstream photo of newly installed culvert.
Roll #99, Frame #12, Date: 2002/09/03



Site #254, Downstream photo of No Visible Channel.
Roll #99, Frame #13, Date: 2002/09/03



Site #254, Upstream photo of No Visible Channel.
Roll #99, 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

Reach # 1.0 ILP Map # 093L.046 ILP # 2912

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2912		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.640053.6036673				Sample Type: Random			
Length (km): .56		Coupling: Decoupled		Magnitude: 26		BGC Zone: SBS			
Gradient (%): 3.8		Confinement: Occasionally Conf		Order: 4		Open water: Absent			
US Elev (m): 582		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 255		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03	
Site Length (m): 150		GIS UTM 9.640238.6036745		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 4.03		3.6		5	
Stage: Low ☐				Wetted Width (m): 2.25		1.8		2.6	
Med ☒				Bankfull Depth (m): 0.37		0.2		0.5	
High ☐		Temp (C): 9		pH: 6.8		Conductivity: 100			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 30.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Gravels		D (cm): 12.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						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: None		Amount: T		T		N		S	
LWD Dist: Not Applicable		Location: P/S/O: ☒		☒		☐		☒	
								FSZ: ☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: Sloping (g)		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)
255	EF	1	150	185 sec	300	RB	9	35	110
255	EF	1	150	185 sec	300	CO	6	75	87

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.046 ILP # 2912 Site 255

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.046 ILP #: 2912 NID Map #: 093L.046 NID #: 20255 Reach #: 1.0 Site #: 255
Field UTM (Z.E.N): .. Method: Site Lg: 150 Method: GE Access: V2
GIS UTM (Z.E.N): 9.640238.6036745 Ref. Name:
Date: 2002/09/03 Time: 11:45 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	4.10	5.00	4.10	3.80	3.60	3.60					4.03	Method I:	2.0	2.5	C	2.38
Wetted Width (m):	MS	2.20	1.80	2.10	2.60	2.60	2.20					2.25	Method II:	3.0	2.0	C	
Pool Depth (m):	MS	0.30	0.30	0.20	0.20							0.25					

Wb Depth: .2 .4 .5 Avg: 0.37 Method: MS 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	S	N	D	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: N DIST: NA

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: 9 Method: T4 Req #: Cond.: 100 Method: S3
pH: 6.8 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: 30.0 D (cm): 12.00 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
Spawning Habitat	Fair - good gravel with riffle / pool sequencing.
OverWinter Habitat	Poor - shallow pool depths.
Rearing Habitat	Moderate / Good - undercut bank cover and deeper run habitat.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 99 F: 15	STD	D	Downstream photo of typical habitat.
R: 99 F: 16	STD	U	Upstream photo of typical habitat with SWD.

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.046	2912	255

COMMENTS	
Section	Comments
SITE CARD	Abundant freshly emerged rainbow trout observed throughout site.
CHANNEL	S3

FDIS Fish Card

Morice North Planning Area

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

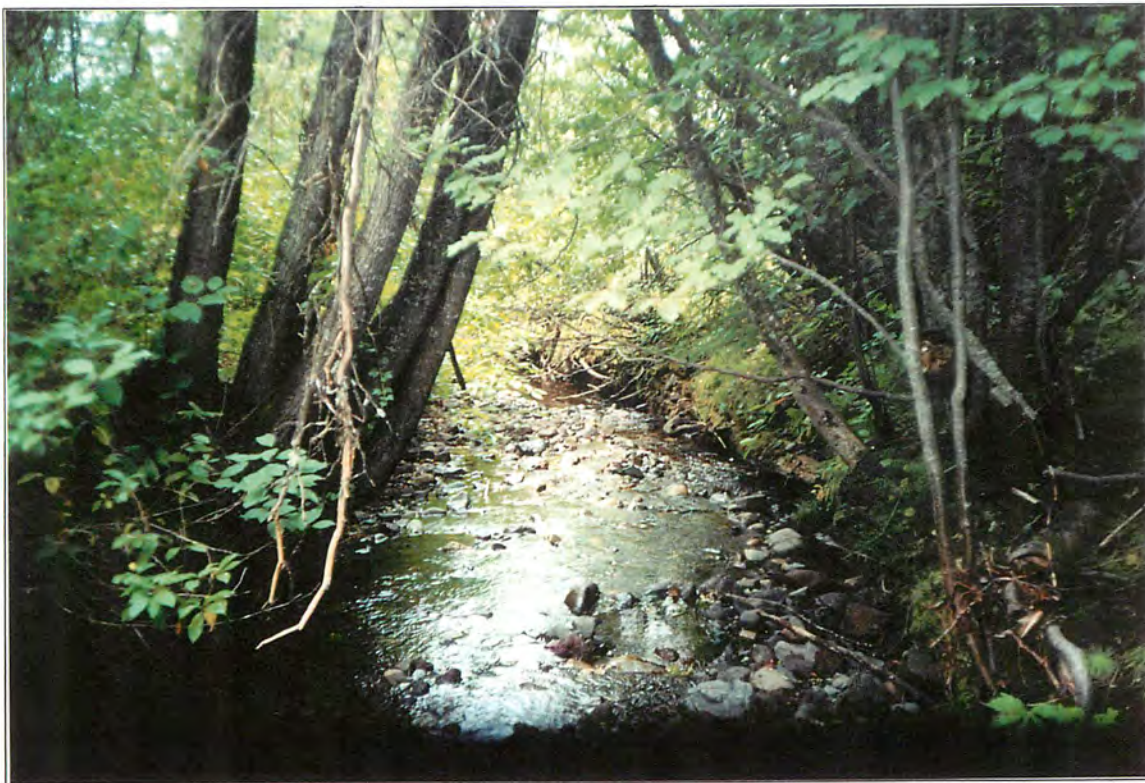
Reach # 1.0 ILP Map # 093L.046 ILP # 2912

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 #: 2912		Reach #: 1 -	
Project ID: 5270				Lake/Stream: S				Lake From Date:			
Fish Permit #: 145269		Date: 2002/09/03		To: 2002/09/03		Agency: C172		Crew: SG/SH		Resample: ☐	

SITE / METHOD											
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment	
255	093L.046	20255				GPU EF 1	9	100	C		
A. GEAR SETTINGS											
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
255	EF 1	1	2002/09/03	11:30	2002/09/03	11:45					
C. ELECTROFISHER SPECIFICATIONS											
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
255	EF	1	1	O	185	150.0	4.0	300	60	6	SMITH ROOT 12B

FISH SUMMARY											
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment	
255	EF	1	1	CO	J	6	75	87	R		
255	EF	1	1	RB	J	4	85	110	R		
255	EF	1	1	RB	F	5	35	45	R	~40 observed within site	

INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#	Age			Str/Smpl#				
255	EF	1	1	RB	35		U	IM							99	17	Photo of juvenile / buttoned up rainbow
255	EF	1	1	RB	40		U	IM									40 RB fry shocked and observed but only 5 were measured.
255	EF	1	1	RB	37		U	IM									
255	EF	1	1	RB	40		U	IM									
255	EF	1	1	RB	35		U	IM									
255	EF	1	1	RB	110		U	IM									
255	EF	1	1	RB	112		U	IM									
255	EF	1	1	RB	85		U	IM									
255	EF	1	1	RB	90		U	IM									
255	EF	1	1	CO	75		U	IM									
255	EF	1	1	CO	87		U	IM									
255	EF	1	1	CO	85		U	IM									
255	EF	1	1	CO	78		U	IM									
255	EF	1	1	CO	85		U	IM									
255	EF	1	1	CO	75		U	IM									



Site #255, Downstream photo of typical habitat.
Roll #99, Frame #15, Date: 2002/09/03



Site #255, Upstream photo of typical habitat with SWD.
Roll #99, Frame #16, Date: 2002/09/03



Site #255, Photo of juvenile / buttoned up rainbow trout.
Roll #99, 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

Reach # 1.0 ILP Map # 093L.046 ILP # 2910

STREAM REFERENCING																																														
Gazetted Name:						Local Name:																																								
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 2910																																					
REACH																																														
Reach #: 1.0		UTM(Zone/East/North): 9.640741.6035890				Sample Type: Random																																								
Length (km): .77		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS																																								
Gradient (%): 2.7		Confinement: Occasionally Conf		Order: 2		Open water: Absent																																								
US Elev (m): 582		Islands: NONE		Riparian Vegetation: Coniferous																																										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																														
SITE																																														
Site #: 256		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03																																						
Site Length (m): 100		GIS UTM 9.640685.6036309		Agency Name: Triton Environmental Consultants (Terrace)																																										
CHANNEL																																														
No Vis.Ch.: ☒ Intermittent: ☐		Dewatered: ☐ Tribs.: ☐		<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>4.50</td> <td>4</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 %:	4.50	4	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 %:	4.50	4	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:		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <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> </thead> <tbody> <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> </tbody> </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;"> <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:		Location: P/S/O: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																												
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: Coniferous		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	25256	CV	.4	MS	12	HC	R: 99	F: 19	L:	#:	9.640688.6036																																			
Comments: NCD downstream with book on CV																																														

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.046 ILP # 2910 Site 256

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 #: 2910 NID Map #: 093L.046 NID #: 20256 Reach #: 1.0 Site #: 256
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: GE Access: V2
GIS UTM (Z.E.N): 9.640685.6036309 Ref. Name:
Date: 2002/09/03 Time: 12:00 Agency: C172 Crew: SG/SH 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:	5.0	4.0	C	4.50
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:	☐	☐	☐	☐	☐	☐	☐

LWD: DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

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

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.046	25256	CV	.4	MS	12	HC	R: 99 F: 19 L: #:		9.640688.6036338	GIS

Comments: NCD downstream with book on CV

HABITAT QUALITY

Name Comments
Other No fish habitat due to NVC

PHOTOS

Photo	Foc Lg	Dir	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
	1.0	093L.046	2910	256

P H O T O S					
Photo		Foc Lg	Dir	Comments	
R:	99	F: 18	STD	U	Upstream photo of NVC with SH in photo (photo taken upstream of road crossing).
R:	99	F: 19	STD	U	Upstream photo of 0.4 x 12 m culvert (with book).
C O M M E N T S					
Section		Comments			
CHANNEL		NCD - no evidence of alluvium or scour observed for 50 m upstream of downstream culvert (newly installed).			



Site #256, Upstream photo of NVC with SH in photo (photo taken upstream of road crossing).
Roll #99, Frame #18, Date: 2002/09/03



Site #256, Upstream photo of 0.4 x 12 m culvert (with book).
Roll #99, 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 #

1.0 093L.046 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 #: 1.0

UTM(Zone/East/North): 9.641468.6035171

Sample Type: Biased

Length (km): 1.13

Coupling: Decoupled

Magnitude: 130

BGC Zone: SBS

Gradient (%): 1.4

Confinement: Occasionally Conf

Order: 4

Open water: Absent

US Elev (m): 581

Islands: NONE

Riparian Vegetation: Mixed C/D

Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified

SITE

Site #: 257

Field UTM ..

Agency: C172

Crew: SG/SH

Date: 2002/09/03

Site Length (m): 175

GIS UTM 9.641741.6035459

Agency Name: Triton Environmental Consultants (Terrace)

CHANNEL

No Vis.Ch.: ☐

Intermittent: ☐

Dewatered: ☐

Tribs.: ☐

Stage: Low ☐

Med ☒

High ☐

Temp (C): 8

pH: 6.8

Conductivity: 50

	Avg	Min	Max	#
Channel Width (m):	8.23	6.400	9.9	6
Wetted Width (m):	6.02	5.6	6.5	6
Bankfull Depth (m):	0.67	0.5	1	3

	Avg	Min	Max	#
Gradient %:	2.63	2	3.5	4
Pool Depth (m):	0.48	0.100	1.600	5

Turbidity.: Turbid ☐ Low ☐
Moderate ☐ Clear ☒

MORPHOLOGY

Bed Material: Dominant: Cobble

D95 (cm): 30.00

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	D1	D2	D3
☐	☒	☒	☐	☐	☐	☐

Coupling: Decoupled

Confinement: Unconfined

Morphology: RP Riffle Pool

C1	C2	C3	C4	C5	S1	S2	S3	S4	S5
☐	☐	☐	☒	☐	☐	☐	☐	☐	☐

COVER

Total Cover: Moderate

LWD: Few

LWD Dist: Evenly Distributed

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

FSZ: ☐

Right Bank: Shape: Sloping (g

Texture: Fines ☐

Gravel ☒

Cobble ☐

Boulder ☐

Rock ☐

Manmade ☐

Crown Closure

Left Bank: Shape: Sloping (g

Texture: Fines ☐

Gravel ☒

Cobble ☐

Boulder ☐

Rock ☐

Manmade ☐

1-20%

Right Bank: Rip.Veg: Mixed C/D

Stage: Young forest

Left Bank: Rip.Veg:

Stage: Young 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)
257	EF	1	175	350 sec	400	RB	7	70	95
257	EF	1	175	350 sec	400	DV	1	50	50
257	EF	1	175	350 sec	400	CO	5	65	85

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 # 2868 Site 257

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.046 NID #: 20257 Reach #: 1.0 Site #: 257
Field UTM (Z.E.N): .. Method: Site Lg: 175 Method: HC Access: V2
GIS UTM (Z.E.N): 9.641741.6035459 Ref. Name:
Date: 2002/09/03 Time: 13:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	6.40	7.90	9.40	9.90	7.60	8.20					8.23	Method I:	3.0	2.0	C	2.63
Wetted Width (m):	MS	5.60	6.50	6.30	6.00	5.60	6.10					6.02	Method II:	3.5	2.0	C	
Pool Depth (m):	MS	0.20	1.60	0.30	0.20	0.10						0.48					

Wb Depth: 1.0 .5 .5 Avg: 0.67 Method: MS Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

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

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 50 Method: S3
pH: 6.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Abandon channels Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 30.0 D (cm): 15.00 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
Spawning Habitat	Good - due to abundant gravel and spawning locations in deep run tailouts.
OverWinter Habitat	Fair - occasional deep pool with perennial stream flows.
Rearing Habitat	Fair - due to abundant side channel habitat, deep runs limited by poor overhead cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 99 F: 20	STD	U	Upstream photo of typical habitat with braided channel.
R: 99 F: 21	STD	D	Downstream photo of typical 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
1.0	093L.046	2868	257

COMMENTS	
Section	Comments
CHANNEL	S2

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.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 #: 1 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date: 2002/09/03		To: 2002/09/03		Agency: C172		Crew: SG/SH		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
257	093L.046	20257				GPU EF 1	8	50	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
257	EF	1	2002/09/03	13:00	2002/09/03	13:25									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
257	EF	1	1	O	350	175.0	8.0	400	60	6	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
257	EF	1	1	DV	F	1	50 50	R							
257	EF	1	1	CO	J	5	65 85	R							
257	EF	1	1	RB	J	7	70 95	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#				
257	EF	1	1	RB	95		U	IM							
257	EF	1	1	RB	80		U	IM							
257	EF	1	1	RB	92		U	IM							
257	EF	1	1	RB	70		U	IM							
257	EF	1	1	RB	78		U	IM							
257	EF	1	1	RB	84		U	IM							
257	EF	1	1	RB	88		U	IM							
257	EF	1	1	CO	65		U	IM							
257	EF	1	1	CO	70		U	IM							
257	EF	1	1	CO	75		U	IM							
257	EF	1	1	CO	85		U	IM							
257	EF	1	1	CO	65		U	IM							
257	EF	1	1	DV	50		U	IM							



Site #257, Upstream photo of typical habitat with braided channel.
Roll #99, Frame #20, Date: 2002/09/03



Site #257, Downstream photo of typical habitat.
Roll #99, Frame #21, Date: 2002/09/03

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.046 2857

STREAM REFERENCING													
Gazetted Name:						Local Name:							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 2857				
REACH													
Reach #: 1.0		UTM(Zone/East/North): 9.642188.6033334				Sample Type: Biased							
Length (km): .45		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS							
Gradient (%): 9.3		Confinement: Frequently Confin		Order: 1		Open water: Absent							
US Elev (m): 621		Islands: NONE		Riparian Vegetation: Mixed C/D									
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified													
SITE													
Site #: 258		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03					
Site Length (m): 100		GIS UTM 9.642270.6033433		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:							
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	
COVER													
Total Cover:		Type:		SWD		LWD		B		U		DP	
LWD:		Amount:											
LWD Dist:		Location: P/S/O:		☐		☐		☐		☐		☐	
				☐		☐		☐		☐		FSZ: ☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐	
Right Bank: Rip.Veg: Mixed C/D		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.046	25258	CV	.4	MS	12	GE	R:	99	F:	24	L:	#:	9.642262.6033
Comments: Culvert													

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
1.0	093L046	2857	258

Triton Environmental Consultants Ltd

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	1.0	093L.046	2857	258

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	99	F:	22	STD	D	Downstream photo of scoured channel (Dry).
R:	99	F:	23	STD	U	Upstream photo of scoured channel (Dry).
R:	99	F:	24	STD	X	Photo of culvert.
COMMENTS						
Section				Comments		
SITE CARD				NCD <100 m of channel (channel widths of 0.3, 0.25, 0.4 within 20 m below road crossing).		
CHANNEL				Scour and alluvium visible only for 20 m below road crossing. No channel observed in rangeland upstream.		



Site #258, Downstream photo of scoured channel (Dry).
Roll #99, Frame #22, Date: 2002/09/03



Site #258, Upstream photo of scoured channel (Dry).
Roll #99, Frame #23, Date: 2002/09/03



Site #258, Photo of culvert.
Roll #99, Frame #24, Date: 2002/09/03

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.047	3028

STREAM REFERENCING											
Gazetted Name:				Local Name:							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000				ILP Map #: 093L.047				ILP #: 3028			
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.642252.6032742						Sample Type: Biased			
Length (km): .98		Coupling: Partially Couple			Magnitude: 10			BGC Zone: SBS			
Gradient (%): 2.6		Confinement: Occasionally Conf			Order: 3			Open water: Absent			
US Elev (m): 608		Islands: NONE			Riparian Vegetation: Mixed C/D						
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 259		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03			
Site Length (m): 210		GIS UTM 9.642587.6033332		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐									
Dewatered: ☒		Tribs.: ☐									
Stage: Low ☒											
Med ☐											
High ☐											
Temp (C):		pH:		Conductivity:		Turbidity.: Turbid ☐		Low ☐			
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Boulders		D (cm): 20.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1 ☐		B1 ☐		D3 ☐	
Coupling: Partially Coupled						B2 ☐		B3 ☐		D1 ☐	
Confinement: Occasionally Confine						D2 ☐		S1 ☐		S2 ☐	
Morphology: RP Riffle Pool						S3 ☐		S4 ☐		S5 ☐	
						C1 ☐		C2 ☐		C3 ☐	
						C4 ☐		C5 ☐		C6 ☐	
						C7 ☐		C8 ☐		C9 ☐	
						C10 ☐		C11 ☐		C12 ☐	
						C13 ☐		C14 ☐		C15 ☐	
						C16 ☐		C17 ☐		C18 ☐	
						C19 ☐		C20 ☐		C21 ☐	
						C22 ☐		C23 ☐		C24 ☐	
						C25 ☐		C26 ☐		C27 ☐	
						C28 ☐		C29 ☐		C30 ☐	
						C31 ☐		C32 ☐		C33 ☐	
						C34 ☐		C35 ☐		C36 ☐	
						C37 ☐		C38 ☐		C39 ☐	
						C40 ☐		C41 ☐		C42 ☐	
						C43 ☐		C44 ☐		C45 ☐	
						C46 ☐		C47 ☐		C48 ☐	
						C49 ☐		C50 ☐		C51 ☐	
						C52 ☐		C53 ☐		C54 ☐	
						C55 ☐		C56 ☐		C57 ☐	
						C58 ☐		C59 ☐		C60 ☐	
						C61 ☐		C62 ☐		C63 ☐	
						C64 ☐		C65 ☐		C66 ☐	
						C67 ☐		C68 ☐		C69 ☐	
						C70 ☐		C71 ☐		C	

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.047 ILP # 3028 Site # 259

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.047 ILP #: 3028 NID Map #: 093L.046 NID #: 20259 Reach #: 2.0 Site #: 259
Field UTM (Z.E.N): .. Method: Site Lg: 210 Method: HC Access: V2
GIS UTM (Z.E.N): 9.642587.6033332 Ref. Name:
Date: 2002/09/03 Time: 14:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	2.70	2.50	2.20	2.10	2.50	2.30					2.38	Method I:	4.0	5.0	C	4.00
Wetted Width (m):	MS											0.00	Method II:	3.0	4.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .3 .4 .3 Avg: 0.33 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☒ Tribs.: ☐

COVER Total: M

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

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F DIST: C

LB SHP: S

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: C

STG: MF

RB SHP: S

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: Rafted Debris Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: B 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: 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.046	25259	CV	1.2	MS	20	GE	R: 98 F: 01 L:	#:	9.642545.6033157	GIS

Comments: Perched / Dry 0.25 m with dirty water (partial barrier).

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - due to limited gravels and seasonal stream
OverWinter Habitat	None - due to dry channel.
Rearing Habitat	Poor - due to dry channel.

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.047	3028	259

PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	98	F: 01	STD	U	Upstream photo of 0.25 m perched CV.
R:	98	F: 03	STD	D	Downstream photo of dry channel.
R:	98	F: 04	STD	U	Upstream photo of dry channel with SWD jam.
COMMENTS					
Section		Comments			
WATER		All fish were captured in CV outlet pool (~0.8 m deep), substantial damage to stream bank by cattle.			
CHANNEL		S3			

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.047	3028

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.047					ILP #:		3028		Reach #:		2 -		
Project ID: 5270					Lake/Stream: S					Lake From Date:								
Fish Permit #:			145269			Date: 2002/09/03			To: 2002/09/03			Agency: C172			Crew: SG/SH		Resample: ☐	
SITE / METHOD																		
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO		Temp	Cond	Turbid	Comment						
259	093L.046	20259				GPU	EF	1			T							
A. GEAR SETTINGS																		
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment											
259	EF	1	1	2002/09/03	14:10	2002/09/03	14:25											
C. ELECTROFISHER SPECIFICATIONS																		
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
259	EF	1	1	O	75	30.0	4.0	400	60	6	SMITH ROOT	12B						
FISH SUMMARY																		
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment							
259	EF	1	1	RB	J		4	80	95	R								
259	EF	1	1	CO	J		3	105	115	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#						
259	EF	1	1	CO	110		U	IM						98	02	Photo of CO captured in culvert outlet.		
259	EF	1	1	CO	115		U	IM										
259	EF	1	1	RB	80		U	IM										
259	EF	1	1	RB	95		U	IM										
259	EF	1	1	RB	85		U	IM										
259	EF	1	1	RB	92		U	IM										
COMMENTS																		
Section			Comments															
WATERBODY			All fish were captured in the outlet pool. Stream was dewatered ~30m downstream of culvert.															



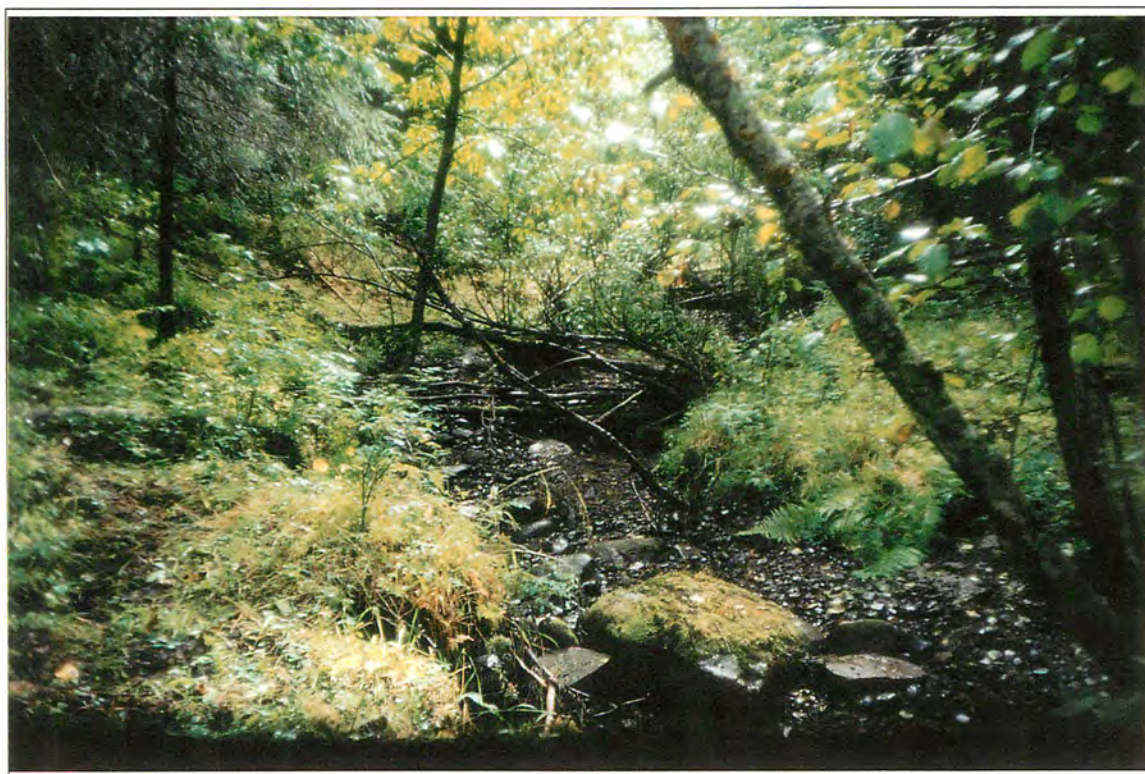
Site #259, Upstream photo of 0.25 m perched CV.
Roll #98, Frame #01, Date: 2002/09/03



Site #259, Photo of CO captured in CV outlet.
Roll #98, Frame #02, Date: 2002/09/03



Site #259, Downstream photo of dry channel.
Roll #98, Frame #03, Date: 2002/09/03



Site #259, Upstream photo of dry channel with SWD jam.
Roll #98, Frame #04, Date: 2002/09/03

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 # 2937 Site 260

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 #: 2937 NID Map #: 093L.046 NID #: 20260 Reach #: 2.0 Site #: 260
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: GE Access: V4
GIS UTM (Z.E.N): 9.639365.6037311 Ref. Name:
Date: 2002/09/03 Time: 14:45 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	0.80	0.50	0.60	0.50	0.70	0.60					0.62	Method I:	3.0	1.5	C	1.63
Wetted Width (m):	MS	0.30	0.40	0.40	0.30	0.40	0.30					0.35	Method II:	1.0	1.0	C	
Pool Depth (m):	MS	0.10	0.10	0.10	0.10							0.10					

Wb Depth: .2 .1 .1 Avg: 0.13 Method: MS Stage: L ☒ M ☐ H ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: N DIST: NA

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: SHR

WATER

EMS: Temp: 9 Method: T4 Req #: Cond.: 120 Method: S3
pH: 7.0 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: 0.01 D (cm): 0.01 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
Spawning Habitat	None - due to no suitable gravels.
OverWinter Habitat	None - due to lack of pools.
Rearing Habitat	Poor - due to seasonal stream flow and shallow water depths and lack of pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 98 F: 05	STD	D	Downstream photo of typical habitat with grass and shrub vegetation.
R: 98 F: 06	STD	U	Upstream photo of typical 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
2.0	093L.046	2937	260

COMMENTS	
Section	Comments
CHANNEL	Stream channel becomes NCD ~150 m downstream of the site, no potential for access.
CHANNEL	S6 - NFC

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.046	2937

Triton Environmental Consultants Ltd.



Site #260, Downstream photo of typical habitat with grass and shrub vegetation.
Roll #98, Frame #05, Date: 2002/09/03



Site #260, Upstream photo of typical habitat.
Roll #98, Frame #06, Date: 2002/09/03

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #

3.0 093L.046 2910

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 2910		
REACH											
Reach #: 3.0		UTM(Zone/East/North): 9.639915.6035494				Sample Type: Biased					
Length (km): .73		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 8.9		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 665		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 261		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/03			
Site Length (m): 100		GIS UTM 9.640248.6035401		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒									
Dewatered: ☐		Tribes.: ☐									
Stage: Low ☐				Avg		Min		Max		#	
Med ☐				Channel Width (m):		0.56		0.400		0.65	
High ☐				Wetted Width (m):		0.00		0		0	
Temp (C):		pH:		Conductivity:							
				Bankfull Depth (m):		0.27		0.2		0.3	
				Gradient %:		14.75		14		15	
				Pool Depth (m):		0.00		0		0	
				Turbidity: Turbid ☐		Low ☐					
				Moderate ☐		Clear ☐					
MORPHOLOGY											
Bed Material: Dominant: Fines		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 5.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐	
Confinement: Confined				C1		C2		C3		C4	
Morphology: CP Cascade Pool				C5		S1		S2		S3	
				S4		S5					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		T		T		S		N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒		☒	
				☐		☐		☐		☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest								Crown Closure	
Left Bank: Rip.Veg:		Stage: Mature forest								1-20%	
				Instream Veg: None ☐		Algae ☐		Moss ☒		Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.046	25261	CV	.8	MS	10	HC	R: 98	F: 07	L:	#:	UTM (Z/E/N)
Comments: Passable culvert with orange ribbon.											

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.046 ILP # 2910 Site # 261

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.046 ILP #: 2910 NID Map #: 093L.046 NID #: 20261 Reach #: 3.0 Site #: 261
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V4
GIS UTM (Z.E.N): 9.640248.6035401 Ref. Name:
Date: 2002/09/03 Time: 15:30 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	0.60	0.65	0.50	0.40	0.60	0.60					0.56	Method I:	15.0	15.0	C	14.75
Wetted Width (m):	MS											0.00	Method II:	14.0	15.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .3 .2 .3 Avg: 0.27 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	T	S	N	D	N
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

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: F Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 15.0 D (cm): 5.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: CO
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	25261	CV	.8	MS	10	HC	R: 98 F: 07 L:	#:	9.640266.6035398	GIS

Comments: Passable culvert with orange ribbon.

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - no gravels present.
OverWinter Habitat	None - due to lack of pools and seasonal stream flows.
Rearing Habitat	Poor - seasonal stream flows and lack of 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
3.0	093L.046	2910	261

PHOTOS				
Photo			Foc Lg	Dir
R:	98	F:	07	STD
R:	98	F:	08	STD
R:	98	F:	09	STD
COMMENTS				
Section			Comments	
CHANNEL			S6 due to NVC downstream.	



Site #261, Upstream photo of passable 0.8 x 10 m culvert.
Roll #98, Frame #07, Date: 2002/09/03



Site #261, Downstream photo of dry channel with book in view.
Roll #98, Frame #08, Date: 2002/09/03



Site #261, Upstream photo of dry channel.
Roll #98, 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

Reach # ILP Map # ILP #

1.0 093L.046 2913

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2913			
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.639466.6035102				Sample Type: Biased					
Length (km): 1.34		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 7.1		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 699		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 262		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04			
Site Length (m): 100		GIS UTM 9.639322.6035274		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 ☐ Mid-channel ☐ Span ☐							
Subdominant:		D (cm):		Braid ☐							
Channel Pattern:		Islands:		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3					
Coupling:											
Confinement:						C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology:											
COVER											
Total Cover:		Type: SWD LWD B U DP OV IV									
LWD:		Amount:									
LWD Dist:		Location: P/S/O:		FSZ: ☐							
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: 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	25262	CV	.5	MS	12	HC	R: 98	F: 12	L:	#:	9.639396.6035
Comments: Dry channel, CV (fully passable with water).											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
262	EF	1	10	50 sec	400	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.046 ILP # 2913 Site 262

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.046 ILP #: 2913 NID Map #: 093L.046 NID #: 20262 Reach #: 1.0 Site #: 262
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V4
GIS UTM (Z.E.N): 9.639322.6035274 Ref. Name:
Date: 2002/09/04 Time: 07:30 Agency: C172 Crew: SG/SH 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:	3.0	C	3.00
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 ☐ 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: M

RIP: M

STG: MF

STG: MF

WATER

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

MORPHOLOGY

Bed Material: Dominant: Subdom: Morph: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Pattern: 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	25262	CV	.5	MS	12	HC	R: 98 F: 12 L: #:		9.639396.6035237	GIS

Comments: Dry channel, CV (fully passable with water).

HABITAT QUALITY

Name	Comments
Other	No fish habitat due to NCD.

PHOTOS

Photo	Foc Lg	Dir	Comments
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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.046	2913	262

PHOTOS					
Photo				Foc Lg	Dir
R:	98	F:	10	STD	D
Downstream view with SH in photo.					
R:	98	F:	11	STD	U
Upstream photo of NCD channel with alder and mature forest vegetation.					
R:	98	F:	12	STD	U
Upstream photo of Culvert, fully passable.					
R:	98	F:	13	STD	U
Upstream photo of CV inlet pond.					
COMMENTS					
Section				Comments	
SITE CARD				Electrofished in a small isolated pond at CV inlet (10x4 m).	
SITE CARD				NCD - no alluvium or scour observed for >100 m downstream.	

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.046	2913

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.046				ILP #:		2913		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: SG/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
262	093L.046	20262				GPU EF 1	8	10	L				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
262	EF 1	1	2002/09/04	07:30	2002/09/04	07:45							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
262	EF	1	1	O	50	10.0	4.0	400	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
262	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			Electrofished in small isolated pond at CV inlet. Stream is NCD (NVC) upstream and downstream on pond.										



Site #262, Downstream view with SH in photo.
Roll #98, Frame #10, Date: 2002/09/04



Site #262, Upstream photo of NCD channel with alder and mature forest vegetation.
Roll #98, Frame #11, Date: 2002/09/04



Site #262, Upstream photo of dry culvert outlet.
Roll #98, Frame #12, Date: 2002/09/04



Site #262, Upstream photo of CV inlet pond.
Roll #98, Frame #13, 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 #
3.0 093L.046 2915

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2915		
REACH									
Reach #: 3.0		UTM(Zone/East/North): 9.639000.6034334				Sample Type: Biased			
Length (km): .79		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS			
Gradient (%): 3.2		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 742		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 263		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04	
Site Length (m): 150		GIS UTM 9.638910.6034819		Agency Name: Trilon Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐ Intermittent: ☐						Avg		Avg	
Dewatered: ☐ Tribes.: ☐						Min		Min	
Stage: Low ☒						Max		Max	
Med ☐						#		#	
High ☐									
Temp (C): 8		pH: 7.0		Conductivity: 80		Gradient %: 2.75		2	
						Pool Depth (m): 0.20		0.100	
						Turbidity.: Turbid ☐ Low ☐			
						Moderate ☐ Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 15.00		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐			
Subdominant: Cobble		D (cm): 5.00				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: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T T N S T D N							
LWD Dist: Evenly Distributed		Location: P/S/O: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐						FSZ: ☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						1-20%	
Right Bank: Rip.Veg: Coniferous		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)
263	EF	1	175	253 sec	400	NFC	0		

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.046 ILP # 2915 Site # 263

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.046 ILP #: 2915 NID Map #: 093L.046 NID #: 20263 Reach #: 3.0 Site #: 263
Field UTM (Z.E.N): .. Method: Site Lg: 150 Method: HC Access: V4
GIS UTM (Z.E.N): 9.638910.6034819 Ref. Name:
Date: 2002/09/04 Time: 08:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	1.40	1.45	1.30	1.70	1.60	1.70					1.53	Method I:	3.0	3.0	C	2.75
Wetted Width (m):	MS	1.10	1.30	1.10	1.10	0.50	0.30					0.90	Method II:	2.0	3.0	C	
Pool Depth (m):	MS			0.10	0.20	0.40	0.10					0.20					

Wb Depth: .3 .3 .4 Avg: 0.33 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	N	S	T	D	N
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 80 Method: S3
pH: 7.0 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: 15.0 D (cm): 5.00 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
Spawning Habitat	Poor - due to ephemeral stream flow and lack of suitable spawning locations.
OverWinter Habitat	None - due to ephemeral stream flow and no suitable pools.
Rearing Habitat	Poor - due to seasonal stream flow and limited deep pool habitat.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 98 F: 14 STD		D	Downstream photo of dry channel.
R: 98 F: 15 STD		U	Upstream photo of site with isolated pool in background.

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.046	2915	263

C O M M E N T S	
Section	Comments
CHANNEL	Ephemeral - habitat consists of isolated pool and deep runs with dry sections of riffle.
CHANNEL	Inferred S3

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.046	2915

Triton Environmental Consultants Ltd.



Site #263, Downstream photo of dry channel.
Roll #98, Frame #14, Date: 2002/09/04



Site #263, Upstream photo of site with isolated pool in background.
Roll #98, Frame #15, Date: 2002/09/04

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L046	2917

Triton Environmental Consultants Ltd.

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.046 ILP # 2917 Site 264

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 #: 2917 NID Map #: 093L.046 NID #: 20264 Reach #: 1.0 Site #: 264
Field UTM (Z.E.N): 9.638790.6035014 Method: GPU Site Lg: 125 Method: HC Access: V4
GIS UTM (Z.E.N): 9.638714.6034999 Ref. Name:
Date: 2002/09/04 Time: 08:45 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg	
Channel Width (m):	MS	0.70	0.80	0.50	0.80	0.90	0.70					0.73	Method I:	7.0	5.0	C	4.75	
Wetted Width (m):	MS	0.00	0.00	0.00	0.00	0.00	0.00					0.00		Method II:	4.0	3.0		C
Pool Depth (m):	MS	0.00	0.00	0.00	0.00	0.00	0.00					0.00						

Wb Depth: .2 .3 .2 Avg: 0.23 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	N	S	N	D	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: F DIST: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: S

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: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 10.0 D (cm): 5.00 Morph: RP DISTURBANCE INDICATORS
Pattern: ST 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
Spawning Habitat	None - due to seasonal flow and poor spawning locations.
OverWinter Habitat	None - due to ephemeral stream flows.
Rearing Habitat	Poor - due to ephemeral stream flows and limited pool/run depth.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 98 F: 16	STD	D	Downstream photo of site.
R: 98 F: 17	STD	U	Upstream photo of 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
1.0	093L.046	2917	264

COMMENTS	
Section	Comments
CHANNEL	Ephemeral - sections of scoured gravel cobble channel with areas of overland flow.
CHANNEL	Inferred S4



Site #264, Downstream photo of site.
Roll #98, Frame #16, Date: 2002/09/04



Site #264, Upstream photo of site.
Roll #98, Frame #17, 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 # 1.0 ILP Map # 093L.046 ILP # 2934

STREAM REFERENCING																																														
Gazetted Name:						Local Name:																																								
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 2934																																					
REACH																																														
Reach #: 1.0		UTM(Zone/East/North): 9.634026.6036155				Sample Type: Biased																																								
Length (km): .52		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS																																								
Gradient (%): 5.2		Confinement: Occasionally Conf		Order: 1		Open water: Absent																																								
US Elev (m): 1000		Islands: NONE		Riparian Vegetation: Coniferous																																										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																														
SITE																																														
Site #: 265		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04																																						
Site Length (m): 100		GIS UTM 9.634089.6036078		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>1.53</td> <td>1.200</td> <td>1.8</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>1.30</td> <td>0.9</td> <td>1.600</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.23</td> <td>0.2</td> <td>0.3</td> <td>3</td> </tr> </table>					Avg	Min	Max	#	Channel Width (m):	1.53	1.200	1.8	6	Wetted Width (m):	1.30	0.9	1.600	6	Bankfull Depth (m):	0.23	0.2	0.3	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>2.50</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.29</td> <td>0.200</td> <td>0.35</td> <td>4</td> </tr> </table>					Avg	Min	Max	#	Gradient %:	2.50	2	3	4	Pool Depth (m):	0.29	0.200	0.35	4
	Avg	Min	Max	#																																										
Channel Width (m):	1.53	1.200	1.8	6																																										
Wetted Width (m):	1.30	0.9	1.600	6																																										
Bankfull Depth (m):	0.23	0.2	0.3	3																																										
	Avg	Min	Max	#																																										
Gradient %:	2.50	2	3	4																																										
Pool Depth (m):	0.29	0.200	0.35	4																																										
Dewatered: ☐		Tribes.: ☐						Turbidity.: Turbid ☐ Low ☐																																						
Stage: Low ☐								Moderate ☐ Clear ☒																																						
Med ☒																																														
High ☐		Temp (C): 9		pH: 6.8		Conductivity: 120																																								
MORPHOLOGY																																														
Bed Material: Dominant: Gravels		D95 (cm): 25.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐																																				
Subdominant: Cobble		D (cm): 12.00								Braid ☐																																				
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2 B3 D1 D2 D3																																				
Coupling: Partially Coupled																																														
Confinement: Occasionally Confine				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 S N D N																																												
LWD Dist: Evenly Distributed		Location: P/S/O: ☒ ☐ ☐ ☒ ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐										FSZ: ☐																																		
Right Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure																																				
Left Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								21-40%																																				
Right Bank: Rip.Veg: Coniferous		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	25265	CV	.6	MS	12	HC	R: 98	F: 18	L:	#:	9.634083.6036																																			
Comments: Photo of culvert with axe.																																														
FISH																																														
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																																					
265	EF	1	100	245 sec	300	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.046 ILP # 2934 Site 265

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 #: 2934 NID Map #: 093L.046 NID #: 20265 Reach #: 1.0 Site #: 265
Field UTM (Z.E.N): ... Method: Site Lg: 100 Method: HC Access: V4
GIS UTM (Z.E.N): 9.634089.6036078 Ref. Name:
Date: 2002/09/04 Time: 09:45 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	1.40	1.70	1.50	1.80	1.60	1.20					1.53	Method I:	3.0	2.0	C	2.50
Wetted Width (m):	MS	1.10	1.30	1.50	1.60	1.40	0.90					1.30	Method II:	3.0	2.0	C	
Pool Depth (m):	MS	0.20	0.30	0.30	0.35							0.29					

Wb Depth: .2 .2 .3 Avg: 0.23 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	S	T	S	N	D	N
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 9 Method: T4 Req #: Cond.: 120 Method: S3
pH: 6.8 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: 25.0 D (cm): 12.00 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.046	25265	CV	.6	MS	12	HC	R: 98 F: 18 L:	#:	9.634083.6036075	GIS

Comments: Photo of culvert with axe.

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - due to abundant gravel substrate and cover and spawning location (tailouts of deep runs).
OverWinter Habitat	Poor - due to lack of suitable pool depths.
Rearing Habitat	Good - due to perennial stream flows, abundant overhead cover.

FDIS Site Card

Morice North Planning Area

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

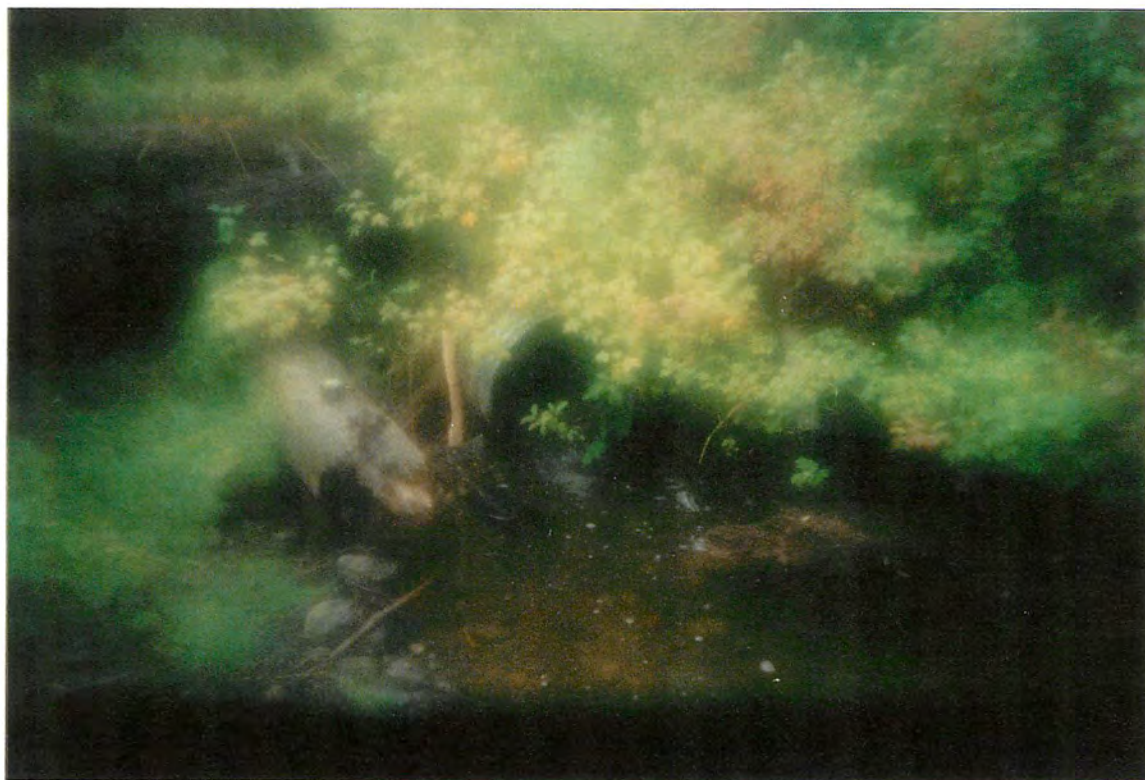
Reach #	ILP Map #	ILP #	Site
1.0	093L.046	2934	265

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	98	F: 18	STD	U	Upstream photo of culvert perched 0.10 m.
R:	98	F: 19	STD	D	Downstream photo of typical habitat.
R:	98	F: 20	STD	U	Upstream photo of typical habitat.
WILDLIFE					
Group		Observations			
MAM		4 Grizzly bears (1 sow, 2 last year and 1 this year's cubs). Very healthy.			
COMMENTS					
Section		Comments			
SITE CARD		CV is passable under higher flows, perched 0.10 m ~7% slope, potential velocity barrier.			
CHANNEL		S6			

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.046	2934

Triton Environmental Consultants Ltd.



Site #265, Upstream photo of culvert perched 0.10 m.
Roll #98, Frame #18, Date: 2002/09/04



Site #265, Downstream photo of typical habitat.
Roll #98, Frame #19, Date: 2002/09/04



Site #265, Upstream photo of typical habitat.
Roll #98, Frame #20, 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 # 5.0 ILP Map # 093L.046 ILP # 2912

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2912			
REACH											
Reach #: 5.0		UTM (Zone/East/North): 9.633698.6035001				Sample Type: Biased					
Length (km): 1.23		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS					
Gradient (%): 5.1		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 1042		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 266		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04			
Site Length (m): 225		GIS UTM 9.634242.6035454		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.63		1.4		2.1 6	
Stage: Low ☐				Wetted Width (m):		1.20		0.800		2 6	
Med ☒				Bankfull Depth (m):		0.20		0.1		0.3 3	
High ☐		Temp (C): 8		pH: 7.0		Conductivity: 100					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 30.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Cobble		D (cm): 12.00								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: Abundant		Type: SWD		LWD		B		U		DP OV IV	
LWD: Few		Amount: T		D		T		S		N T N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest								Crown Closure 1-20%	
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	25266	CV	.9	MS	13	HC	R:	F:	L:	#:	9.634236.6035
Comments: Fully passable (photo not taken).											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
266	EF	1	225	365 sec	400	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.046 ILP # 2912 Site 266

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 #: 2912 NID Map #: 093L.046 NID #: 20266 Reach #: 5.0 Site #: 266
Field UTM (Z.E.N): .. Method: Site Lg: 225 Method: HC Access: V4
GIS UTM (Z.E.N): 9.634242.6035454 Ref. Name:
Date: 2002/09/04 Time: 10:25 Agency: C172 Crew: SG/SH 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	1.40	1.60	2.10	1.70	1.40					1.63	Method I:	5.0	3.0	C	3.25
Wetted Width (m):	MS	1.10	0.80	1.00	2.00	1.20	1.10					1.20	Method II:	3.0	2.0	C	
Pool Depth (m):	MS	0.20	0.30	0.30	0.25							0.26					

Wb Depth: .2 .1 .3 Avg: 0.20 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	D	T	S	N	T	N
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 100 Method: S3
pH: 7.0 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): 12.00 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.046	25266	CV	.9	MS	13	HC	R: F: L: #:		9.634236.6035451	GIS

Comments: Fully passable (photo not taken).

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - due to abundant gravel.
OverWinter Habitat	Poor - due to limited pool depths.
Rearing Habitat	Good - due to abundant LWD and undercut bank cover, and deeper runs.

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
5.0	093L.046	2912	266

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	98	F:	21	STD	D	Downstream photo of typical habitat with LWD.
R:	98	F:	22	STD	U	Upstream photo of typical habitat with axe.
R:	98	F:	23	STD	D	Downstream photo of typical habitat.
COMMENTS						
Section			Comments			
SITE CARD			CV is fully passable under all flow conditions.			
CHANNEL			S6			

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.046 ILP # 2912

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 #: 2912		Reach #: 5 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #:		145269		Date: 2002/09/04		To: 2002/09/04		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
266	093L.046	20266				GPU EF 1	8	100	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
266	EF 1	1	2002/09/04	10:25	2002/09/04	10:45							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
266	EF 1	1	O	365	225.0	1.6	400	60	6	SMITH ROOT	12B		
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
266	EF 1	1	NFC			0							
COMMENTS													
Section			Comments										
WATERBODY			Electrofishing conducted downstream of road crossing.										



Site #266, Downstream photo of typical habitat with LWD.
Roll #98, Frame #21, Date: 2002/09/04



Site #266, Upstream photo of typical habitat with axe.
Roll #98, Frame #22, Date: 2002/09/04



Site #266, Downstream photo of typical habitat.
Roll #98, Frame #23, Date: 2002/09/04

Morice North Planning Area

Reach #	ILP Map #	ILP #
6.0	093L 046	2868

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 # 6.0 ILP Map # 093L.046 ILP # 2868 Site 267

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.046 NID #: 20267 Reach #: 6.0 Site #: 267
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: GE Access: FT
GIS UTM (Z.E.N): 9.635830.6031395 Ref. Name:
Date: 2002/09/04 Time: 12:15 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	HC	10.10	14.30	9.80	7.30	6.50	7.90					9.32	Method I:	4.0	6.0	C	4.75
Wetted Width (m):	HC	7.30	6.20	6.90	6.10	5.80	6.50					6.47	Method II:	3.0	6.0	C	
Pool Depth (m):	MS	0.80	0.50	0.60	0.40							0.58					

Wb Depth: 1.2 .6 .8 Avg: 0.87 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	S	T	T	T	D	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: A DIST: C

LB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 50 Method: S3
pH: 6.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris 0.6 m Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 17.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: F
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☒

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel and suitable locations (deep run and pool tailouts).
OverWinter Habitat	Good - deep runs and pool with perennial habitat.
Rearing Habitat	Good - due to abundant LWD cover and deeper pool up to 0.8 m residual depth.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 98 F: 24 STD U			Upstream photo of typical habitat with LWD jams.
R: 98 F: 25 STD D			Downstream photo of typical habitat riffle.

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

267

COMMENTS	
Section	Comments
CHANNEL	S2 (NFC)

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000-000 Reach # 6.0 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 #: 6 -		
Project ID: 5270				Lake/Stream: S				Lake From Date:				
Fish Permit #:		145269		Date: 2002/09/04		To: 2002/09/04		Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
267	093L.046	20267				GPU EF 1	8	50	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
267	EF 1	1	2002/09/04	12:15	2002/09/04	13:15						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
267	EF 1	1	O	737	225.0	8.0	600	60	6	SMITH ROOT	12B	
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
267	EF 1	1	NFC			0						
COMMENTS												
Section			Comments									
WATERBODY			Electrofishing was concentrated in side channel habitats, mainchannel sampling would have been unproductive due to high current.									



Site #267, Upstream photo of typical habitat with LWD jams.
Roll #98, Frame #24, Date: 2002/09/04



Site #267, Downstream photo of typical habitat riffle.
Roll #98, Frame #25, 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.046 2885

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046			ILP #: 2885		
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.637659.6032429				Sample Type: Biased					
Length (km): .40		Coupling: Partially Couple		Magnitude: 3		BGC Zone: SBS					
Gradient (%): 5.5		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 841		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 268		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04			
Site Length (m): 250		GIS UTM 9.637772.6032263		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.23		0.800		1.8 6	
Stage: Low ☐				Wetted Width (m):		0.90		0.5		1.600 6	
Med ☒				Bankfull Depth (m):		0.33		0.2		0.4 3	
High ☐		Temp (C): 8		pH: 6.6		Conductivity: 90					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Cobble		D (cm): 8.00								Braid ☐	
Channel Pattern: Straight		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐	
Confinement: 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: T		T		T		S		T D N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest								Crown Closure	
Left Bank: Rip.Veg:		Stage: Young forest								1-20%	
				Instream Veg: None ☒		Algae ☐		Moss ☐		Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.046	25268	CV	.9	MS	15	MS	R: 97	F: 01	L:	#:	UTM (Z/E/N)
Comments: Perched 0.5 m with out pool.											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
268	EF	1	185	257 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 # 2.0 ILP Map # 093L.046 ILP # 2885 Site # 268

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 #: 2885 NID Map #: 093L.046 NID #: 20268 Reach #: 2.0 Site #: 268
Field UTM (Z.E.N): .. Method: Site Lg: 250 Method: GE Access: V4
GIS UTM (Z.E.N): 9.637772.6032263 Ref. Name:
Date: 2002/09/04 Time: 13:15 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	1.20	0.80	1.10	1.80	1.20	1.30					1.23	Method I:	8.0	8.0	C	9.75
Wetted Width (m):	MS	0.70	0.50	1.10	1.60	0.80	0.70					0.90	Method II:	13.0	10.0	C	
Pool Depth (m):	MS	0.20		0.30	0.30		0.30					0.28					

Wb Depth: .2 .4 .4 Avg: 0.33 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	T	S	T	D	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: YF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 90 Method: S3
pH: 6.6 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: 15.0 D (cm): 8.00 Morph: CP DISTURBANCE INDICATORS
Pattern: ST C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: CO
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	25268	CV	.9	MS	15	MS	R: 97 F: 01 L:	#:	9.637777.6032312	GIS

Comments: Perched 0.5 m with out pool.

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - due to lack of adequate sized gravels and spawning locations.
OverWinter Habitat	Poor - due to insufficient residual pool depth to provide overwintering habitat.
Rearing Habitat	Good - due to abundant overhead cover and deeper pools (0.3 to 0.4 m) associated with LWD and boulders.

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.046	2885	268

PHOTOS				
Photo		Foc Lg	Dir	Comments
R: 97	F: 01	STD	U	Upstream photo of 0.5 m perched culvert.
R: 97	F: 02	STD	D	Downstream photo of typical habitat with hat.
R: 97	F: 03	STD	U	Upstream photo of typical habitat, bouldery section of channel.
R: 97	F: 04	STD	U	Upstream photo of steep section (15%) of boulder/gravel.
COMMENTS				
Section		Comments		
CHANNEL		Intermittent stream flow. Stream channel changes ~200 m downstream of road crossing - channel becomes boulder/gravel with 15% gradient and wide. Additional channel widths (1.8, 1.7, 1.8, 2.2, 1.8, 1.10, 2.0, 1.9)		
CHANNEL		CV is a full barrier to fish.		
CHANNEL		Inferred S4		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000-000 Reach # 2.0 ILP Map # 093L.046 ILP # 2885

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 #: 2885		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: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
268	093L.046	20268				GPU EF 1	8	90	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
268	EF	1	1	2002/09/04	13:15	2002/09/04	14:00						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
268	EF	1	1	O	257	185.0	1.7	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
268	EF	1	1	NFC		0							



Site #268, Upstream photo of 0.5 m perched culvert.
Roll #97, Frame #01, Date: 2002/09/04



Site #268, Downstream photo of typical habitat with hat.
Roll #97, Frame #02, Date: 2002/09/04



Site #268, Upstream photo of typical habitat, bouldery section of channel.
Roll #97, Frame #03, Date: 2002/09/04



Site #268, Upstream photo of steep section (15%) of boulder/gravel.
Roll #97, Frame #04, 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 # 1.0 ILP Map # 093L.046 ILP # 2874

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2874			
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.637161.6032980				Sample Type: Random					
Length (km): .50		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 3.8		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 881		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 269		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04			
Site Length (m): 175		GIS UTM 9.637476.6033046		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒				Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐				Channel Width (m):		0.55		0.400	
Stage: Low ☐						Wetted Width (m):		0.00		0	
Med ☐						Bankfull Depth (m):		0.20		0.2	
High ☐								0.2		3	
						Avg		Min		Max	
						Gradient %:		7.50		6	
						Pool Depth (m):		0.00		0	
								0		0	
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Fines		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 1.00								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: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		T		N		S		N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☐		☒	
				☐		☐		☐		☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Coniferous		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		UTM (Z/E/N)
093L.046	25269	CV	.6	MS	11	MS	R: 97	F: 07	L:	#:	9.637443.6033
Comments: Passable											

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.046 ILP # 2874 Site # 269

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.046 ILP #: 2874 NID Map #: 093L.046 NID #: 20269 Reach #: 1.0 Site #: 269
Field UTM (Z.E.N): .. Method: Site Lg: 175 Method: HC Access: V4
GIS UTM (Z.E.N): 9.637476.6033046 Ref. Name:
Date: 2002/09/04 Time: 14:30 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	0.40	0.60	0.60	0.50	0.40	0.80					0.55	Method I:	8.0	6.0	C	7.50
Wetted Width (m):	MS											0.00	Method II:	8.0	8.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .2 .2 .2 Avg: 0.20 Method: MS Stage: L ☐ M ☐ H ☐ Dw: ☐ Tribs.: ☐

COVER

Total: A

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

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F

DIST: E

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

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: F Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 15.0 D (cm): 1.00 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.046	25269	CV	.6	MS	11	MS	R: 97 F: 07 L:	#:	9.637443.6033027	GIS
Comments: Passable										

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - due to lack of gravel and seasonal stream flow.
OverWinter Habitat	None - due to seasonal stream flow.
Rearing Habitat	Poor - due to seasonal stream flow and lack of pool.

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	2874	269

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	97	F:	05	STD	D	Downstream photo of riparian vegetation.
R:	97	F:	06	STD	U	Upstream photo of stream channel.
R:	97	F:	07	STD	U	Upstream photo of passable CV.
COMMENTS						
Section			Comments			
CHANNEL			Inferred S4 (potential barrier downstream).			



Site #269, Downstream photo of riparian vegetation.
Roll #97, Frame #05, Date: 2002/09/04



Site #269, Upstream photo of stream channel.
Roll #97, Frame #06, Date: 2002/09/04



Site #269, Upstream photo of passable CV.
Roll #97, Frame #07, 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.046 2929

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046		ILP #:		2929	
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.635196.6034525				Sample Type: Biased					
Length (km): .95		Coupling: Coupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 7.2		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 1003		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 270		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04			
Site Length (m): 100		GIS UTM 9.635609.6034621		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 ☐		Mid-channel ☐ Span ☐	
Subdominant:		D (cm):								Braid ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1 B1 B2 B3 D1 D2 D3					
Coupling:				INDICATORS		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐					
Confinement:				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐					
Morphology:											
COVER											
Total Cover:		Type:		SWD		LWD		B		U DP OV IV	
LWD:		Amount:									
LWD Dist:		Location: P/S/O:		☐ ☐ ☐		☐ ☐ ☐		☐ ☐ ☐		☐ ☐ ☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Shrub/herb stage								Crown Closure	
Left Bank: Rip.Veg:		Stage: Shrub/herb 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 # 2929 Site 270

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.046 ILP #: 2929 NID Map #: 093L.046 NID #: 20270 Reach #: 2.0 Site #: 270
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V4
GIS UTM (Z.E.N): 9.635609.6034621 Ref. Name:
Date: 2002/09/04 Time: 15:00 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg					
Channel Width (m):												0.00	Method I:	1.0	0.5	C	0.75
Wetted Width (m):												0.00	Method II:				
Pool Depth (m):												0.00					

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

RIP: M

STG: SHR

STG: SHR

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
Other No fish habitat due to No Visible Channel.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 97 F: 08 STD D			Downstream photo of No Visible Channel - Mud.
R: 97 F: 09 STD U			Upstream photo of No Visible Channel - Mud.

COMMENTS

Section Comments

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 #2929

Site270

COMMENTS	
Section	Comments
SITE CARD	NCD - No Channel (alluvium/scour) observed upstream. Short 8 m section of mud below road (see photos).



Site #270, Downstream photo of No Visible Channel - Mud.
Roll #97, Frame #08, Date: 2002/09/04



Site #270, Upstream photo of No Visible Channel - Mud.
Roll #97, Frame #09, 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 #

1.0 093L.046 2876

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2876		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.636743.6034313				Sample Type: Biased			
Length (km): .23		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 2.6		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 931		Islands: NONE		Riparian Vegetation: Not Specified					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 271		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/04	
Site Length (m): 100		GIS UTM 9.636825.6034263		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		0.00		0	
Stage: Low ☐				Wetted Width (m):		0.00		0	
Med ☐				Bankfull Depth (m):		0.00		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:						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: Mixed C/D		Stage: Pole-sapling stage		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage		Instream Veg: None ☐		Algae ☐		Moss ☐	
								Vascular ☐	

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
1.0	093L.046	2876	271

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
1.0	093L.046	2876	271

COMMENTS	
Section	Comments
CHANNEL	NCD - no evidence of scour or alluvium. Channel could not be located by following GPS, hipchain and compass or following mainstem (ILP 2873 Reach 3).



Site #271, Photo of NCD Channel.
Roll #97, Frame #10, Date: 2002/09/04



Site #272, Upstream photo of perched 0.2 m CV (passable under high flows).
Roll #97, Frame #11, Date: 2002/09/04

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
2.0	093L.046	2873	272

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
2.0	093L.046	2873	272

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	97	F: 11	STD	U	Upstream photo of perched 0.2 m CV (passable under high flows).
R:	97	F: 12	STD	D	Downstream photo of typical habitat - dry channel.
R:	97	F: 13	STD	U	Upstream photo of typical habitat - dry channel.
R:	97	F: 14	STD	U	Upstream photo of isolated pond 10 m below CV.
COMMENTS					
Section			Comments		
CHANNEL			Inferred S3.		

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.046 ILP # 2873

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 #: 2873		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: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mhd			MTD/NO		Temp	Cond	Turbid	Comment		
272	093L.046	20272				GPU	EF 1	10	120	L			
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
272	EF	1	2002/09/04	16:00	2002/09/04	16:30							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
272	EF	1	1	O	109	20.0	1.8	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
272	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			Electrofishing was conducted in 2 isolated pools below the culvert outlet (Roll 98 # 13).										



Site #272, Downstream photo of typical habitat - dry channel.
Roll #97, Frame #12, Date: 2002/09/04



Site #272, Upstream photo of typical habitat - dry channel.
Roll #97, Frame #13, Date: 2002/09/04



Site #272, Upstream photo of isolated pond 10 m below CV.
Roll #97, Frame #14, 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 # 3.0 ILP Map # 093L.056 ILP # 2450

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.056		ILP #: 2450		
REACH									
Reach #: 3.0		UTM(Zone/East/North): 9.635450.6043068				Sample Type: Biased			
Length (km): 1.10		Coupling: Partially Couple		Magnitude: 8		BGC Zone: SBS			
Gradient (%): 4.4		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 799		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 273		Field UTM 9.635954.6042864		Agency: C172		Crew: SG/SH		Date: 2002/09/05	
Site Length (m): 120		GIS UTM 9.636035.6042839		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐	Intermittent: ☐								
Dewatered: ☐	Tribs.: ☐								
Stage: Low ☒		Avg		Min		Max		#	
Med ☐		Channel Width (m): 2.00		1.4		2.6		6	
High ☐		Wetted Width (m): 1.16		0.600		1.55		6	
Temp (C): 4		Bankfull Depth (m): 0.20		0.2		0.2		3	
pH: 6.8									
Conductivity: 110									
Turbidity: Turbid ☐								Low ☐	
Moderate ☐								Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 25.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 12.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Frequently Confined						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: Abundant		Amount: S		S		T		S	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒	
		☒		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Young forest							
Left Bank: Rip.Veg:		Stage: Young forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
								Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.056	25273	C	1.5	MS	2	HC	R: 96	F: 01A	L: #:
Comments: Cascade over bedrock.									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.056	26273	CV	.9	MS	20	HC	R: 97	F: 15	L: #:
Comments: Perched 0.25 m (partial barrier), 0.45 m deep pool at CV outlet.									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
273	EF	1	120	340 sec	700	NFC	0		
2732	EF	1	80	270 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 # 3.0 ILP Map # 093L.056 ILP # 2450 Site # 273

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.056 ILP #: 2450 NID Map #: 093L.056 NID #: 20273 Reach #: 3.0 Site #: 273
Field UTM (Z.E.N): 9.635954.6042864 Method: GPU Site Lg: 120 Method: HC Access: V2
GIS UTM (Z.E.N): 9.636035.6042839 Ref. Name:
Date: 2002/09/05 Time: 07:49 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	2.20	2.60	1.80	1.80	1.40	2.20					2.00	Method I:	2.0	3.0	C	2.33
Wetted Width (m):	MS	1.30	1.40	0.60	1.50	0.60	1.55					1.16	Method II:	2.0		C	
Pool Depth (m):	MS	0.15	0.20	0.15	0.25	0.20	0.15					0.18					

Wb Depth: .2 .2 .2 Avg: 0.20 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: A DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

WATER

EMS: Temp: 4 Method: T4 Req #: Cond.: 110 Method: S3
pH: 6.8 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: 25.0 D (cm): 12.00 Morph: RP 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.056	25273	C	1.5	MS	2	HC	R: 96 F: 01A L:	#:	9.636278.6042606	GIS
Comments: Cascade over bedrock.										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.056	26273	CV	.9	MS	20	HC	R: 97 F: 15 L:	#:	9.635959.6042882	GIS
Comments: Perched 0.25 m (partial barrier), 0.45 m deep pool at CV outlet.										

HABITAT QUALITY

Name	Comments
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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.056	2450	273

HABITAT QUALITY				
Name		Comments		
Spawning Habitat		Poor - due to limited gravels.		
Rearing Habitat		Good - due to abundant overhanging vegetation and LWD cover.		
OverWinter Habitat		Poor - due to shallow pools.		
PHOTOS				
Photo		Foc Lg	Dir	Comments
R: 96	F: 01A	STD	U	Upstream photo of Cascade over bedrock.
R: 97	F: 15	STD	U	Upstream photo of 0.25 m perched CV (partial barrier).
R: 97	F: 16	STD	D	Downstream photo of habitat typical of site.
R: 97	F: 17	STD	U	Upstream photo of habitat typical of site.
COMMENTS				
Section		Comments		
CHANNEL		S6		
SITE CARD		NFC with 2 electroshocking sites conducted upstream and downstream of road crossing. Cascade located ~335 m downstream of road crossing.		

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 3.0 ILP Map # 093L.056 ILP # 2450

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.056				ILP #: 2450		Reach #: 3 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/05			To: 2002/09/05			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
2732	093L.056	22732				GPU EF 1	6	110	C				
273	093L.056	20273				GPU EF 1	4	110	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
273	EF 1	1	2002/09/05	07:49	2002/09/05	08:45							
2732	EF 1	1	2002/09/05	12:00	2002/09/05	12:30							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
273	EF	1	1	O	340	120.0	2.0	700	60	6	SMITH ROOT	12B	
2732	EF	1	1	O	270	80.0	2.0	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
273	EF	1	1	NFC		0							
2732	EF	1	1	NFC		0							



Site #273, Upstream photo of Cascade over bedrock.
Roll #96, Frame #01A, Date: 2002/09/05



Site #273, Upstream photo of 0.25 m perched CV (partial barrier).
Roll #97, Frame #15, Date: 2002/09/05



Site #273, Downstream photo of habitat typical of site.
Roll #97, Frame #16, Date: 2002/09/05



Site #273, Upstream photo of habitat typical of site.
Roll #97, Frame #17, 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.056 ILP # 2453

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.056		ILP #: 2453			
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.635874.6042256				Sample Type: Biased					
Length (km): .59		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 9.8		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 807		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 274		Field UTM 9.636020.6042451		Agency: C172		Crew: SG/SH		Date: 2002/09/05			
Site Length (m): 209		GIS UTM 9.636024.6042426		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.97		0.7		1.200		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: Fines		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Cobble		D (cm): 5.00								Braid ☐	
Channel Pattern: Sinuous		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: Abundant		Type: SWD LWD B U DP OV IV									
LWD: Few		Amount: S T S T N D N									
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒		FSZ: ☐	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: Overhang		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 ☐	

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.056 ILP # 2453 Site 274

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.056 ILP #: 2453 NID Map #: 093L.056 NID #: 20274 Reach #: 1.0 Site #: 274
Field UTM (Z.E.N): 9.636020.6042451 Method: GPU Site Lg: 209 Method: HC Access: V2
GIS UTM (Z.E.N): 9.636024.6042426 Ref. Name:
Date: 2002/09/05 Time: 09:20 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	1.10	0.80	0.70	1.20	0.90	1.10					0.97	Method I:	11.0	8.0	C	9.33
Wetted Width (m):	MS											0.00	Method II:	9.0		C	
Pool Depth (m):	MS											0.00					

Wb Depth: .3 .2 .2 Avg: 0.23 Method: MS Stage: L ☐ M ☐ H ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

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

MORPHOLOGY

Bed Material: Dominant: F Subdom: C D95: 20.0 D (cm): 5.00 Morph: RP O1 B1 B2 B3 D1 D2 D3
Pattern: SI Islands: N Coupling: DC Confinement: UN 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	None - no pools, dry channel.
Rearing Habitat	None - no pools and dry channel.
Spawning Habitat	None - no suitable substrates, dry channel.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 97 F: 18 STD U			Upstream photo of site (crew member in picture), typical cobble and fines.
R: 97 F: 19 STD D			Downstream photo of site - typical fine substrates within channel.
R: 97 F: 20 STD U			Upstream photo taken upstream of road crossing (fines).

FDIS Site 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.056

ILP #2453

Site274

COMMENTS	
Section	Comments
CHANNEL	Stream Dry at time of survey.
CHANNEL	S4*
CHANNEL	Stream flows over road (no culvert), surveyed 209 m downstream of road.



Site #274, Upstream photo of site (crew member in picture), typical cobble and fines.
Roll #97, Frame #18, Date: 2002/09/05



Site #274, Downstream photo of site - typical fine substrates within channel.
Roll #97, Frame #19, Date: 2002/09/05



Site #274, Upstream photo taken upstream of road crossing (fines).
Roll #97, Frame #20, 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.056 2450

STREAM REFERENCING																																												
Gazetted Name:					Local Name:																																							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.056		ILP #: 2450																																					
REACH																																												
Reach #: 2.0		UTM(Zone/East/North): 9.636349.6042582				Sample Type: Random																																						
Length (km): 1.00		Coupling: Partially Couple		Magnitude: 10		BGC Zone: SBS																																						
Gradient (%): 6.9		Confinement: Confined		Order: 2		Open water: Absent																																						
US Elev (m): 751		Islands: NONE		Riparian Vegetation: Mixed C/D																																								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																												
SITE																																												
Site #: 275		Field UTM 9.636779.6042349		Agency: C172		Crew: SG/SH		Date: 2002/09/05																																				
Site Length (m): 270		GIS UTM 9.636802.6042358		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>3.00</td> <td>2.3</td> <td>3.8</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.79</td> <td>0.600</td> <td>1.100</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.27</td> <td>0.2</td> <td>0.3</td> <td>3</td> </tr> </tbody> </table>					Avg	Min	Max	#	Channel Width (m):	3.00	2.3	3.8	6	Wetted Width (m):	0.79	0.600	1.100	6	Bankfull Depth (m):	0.27	0.2	0.3	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>3.33</td> <td>3</td> <td>4</td> <td>3</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.17</td> <td>0.100</td> <td>0.25</td> <td>6</td> </tr> </tbody> </table>					Avg	Min	Max	#	Gradient %:	3.33	3	4	3	Pool Depth (m):	0.17	0.100	0.25	6
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Stage: Low ☒																																												
Med ☐																																												
High ☐																																												
Temp (C): 5		pH: 6.6		Conductivity: 60		Turbidity: Turbid ☐ Low ☐																																						
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MORPHOLOGY																																												
Bed Material: Dominant: Cobble		D95 (cm): 30.00		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																						
Subdominant: Gravels		D (cm): 10.00				Braid ☐																																						
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS																																								
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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																																			
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Morphology: RP Riffle Pool																																												
COVER																																												
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Type:	SWD	LWD	B	U	DP	OV	IV																																					
Amount:	S	S	T	T	T	D	N																																					
LWD: Abundant																																												
LWD Dist: Evenly Distributed		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Location: P/S/O:</td> <td>☒</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td><td>☐</td><td>☐</td> </tr> </table>								Location: P/S/O:	☒	☒	☒	☒	☒	☒	☐	☐																										
Location: P/S/O:	☒	☒	☒	☒	☒	☒	☐	☐																																				
Right Bank: Shape: Sloping (g)		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: Pole-sapling stage																																										
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)																																			
275	EF	1	100	135 sec	600	RB	9	30	85																																			

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.056 ILP # 2450 Site 275

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.056 ILP #: 2450 NID Map #: 093L.056 NID #: 20275 Reach #: 2.0 Site #: 275
Field UTM (Z.E.N): 9.636779.6042349 Method: GPU Site Lg: 270 Method: HC Access: FT
GIS UTM (Z.E.N): 9.636802.6042358 Ref. Name:
Date: 2002/09/05 Time: 11:00 Agency: C172 Crew: SG/SH 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	2.30	3.80	3.20	3.40	2.80					3.00	Method I:	4.0	3.0	C	3.33
Wetted Width (m):	MS	0.80	0.80	0.70	0.60	1.10	0.75					0.79	Method II:	3.0		C	
Pool Depth (m):	MS	0.15	0.15	0.20	0.10	0.25	0.15					0.17					

Wb Depth: .3 .3 .2 Avg: 0.27 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: A DIST: E

LB SHP: V

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: PS

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 60 Method: S3
pH: 6.6 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: 30.0 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: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Fair - due to adequate substrate and clean gravel patches.
Overwinter Habitat	Poor - pools lack sufficient depth.
Rearing Habitat	Good - lots of cover in shallow pools and runs.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 97 F: 21	STD	X	Picture of RB fry.
R: 97 F: 21A	STD	U	Upstream photo of site (functioning LWD).
R: 97 F: 22A	STD	D	Downstream photo of site (small pool where RB fry captured).

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.056	2450	275

COMMENTS	
Section	Comments
SITE CARD	Surveyed upstream looking for potential barrier to upstream Reach. No barriers to fish migration were observed in surveyed section. Barrier identified in Site 273.
CHANNEL	S3
CHANNEL	RB fry captured (35 and 30 cm) newly emergent.

FDIS Fish Card

Morice North Planning Area

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

Reach # 2.0 ILP Map # 093L.056 ILP # 2450

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.056				ILP #: 2450		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: SG/SH		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
275	093L.056	20275				GPU	EF 1	5	60	C					
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
275	EF 1	1	2002/09/05	11:00	2002/09/05	11:45									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
275	EF 1	1	O	135	100.0	3.0	600	60	6	SMITH ROOT	12B				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
275	EF 1	1	RB	J		5	70 85	R	upstream of road crossing.						
275	EF 1	1	RB	F		4	30 35	R	downstream of road crossing.						
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
275	EF	1	1	RB	35		U	IM							
275	EF	1	1	RB	30		U	IM							
275	EF	1	1	RB	30		U	IM							
275	EF	1	1	RB	35		U	IM							
275	EF	1	1	RB	85		U	IM							
275	EF	1	1	RB	70		U	IM							
275	EF	1	1	RB	75		U	IM							
275	EF	1	1	RB	75		U	IM							
275	EF	1	1	RB	80		U	IM							



Site #275, Picture of RB fry.
Roll #97, Frame #21, Date: 2002/09/05



Site #275, Upstream photo of site (functioning LWD).
Roll #97, Frame #21A, Date: 2002/09/05



Site #275, Downstream photo of site (small pool where RB fry captured).
Roll #97, Frame #22A, Date: 2002/09/05

Morice North Planning Area

Reach #	ILP Map #	ILP #
6.0	093L.056	2450

STREAM REFERENCING															
Gazetted Name:				Local Name:											
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.056		ILP #: 2450							
REACH															
Reach #: 6.0	UTM(Zone/East/North): 9.633437.6043105					Sample Type: Random									
Length (km): 1.10	Coupling: Partially Couple			Magnitude: 3			BGC Zone: SBS								
Gradient (%): 8.3	Confinement: Frequently Confin				Order: 2			Open water: Absent							
US Elev (m): 942		Islands: NONE			Riparian Vegetation: Mixed C/D										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified															
SITE															
Site #: 276		Field UTM: 9.633946.6042966			Agency: C172		Crew: SG/SH		Date: 2002/09/05						
Site Length (m): 100		GIS UTM: 9.633876.6043030			Agency Name: Triton Environmental Consultants (Terrace)										
CHANNEL															
No Vis.Ch.: ☐	Intermittent: ☒				Avg	Min	Max	#							
Dewatered: ☐	Tribes.: ☐								Avg	Min	Max	#			
Stage: Low ☒ Med ☐ High ☐			Channel Width (m):		0.94	0.78	1.200	6	Gradient %: 4.00 3 5 3						
			Wetted Width (m):		0.55	0.400	0.7	2	Pool Depth (m): 0.10 0.090 0.100 2						
			Bankfull Depth (m):		0.10	0.1	0.1	3	Turbidity.: Turbid ☐ Low ☐ Moderate ☐ Clear ☒						
			Temp (C): 7		pH: 6.4		Conductivity: 50								
MORPHOLOGY															
Bed Material: Dominant: Cobble		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐					
Subdominant: Gravels		D (cm): 4.00								Braid ☐					
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3			
Coupling: Partially Coupled						☐	☐	☐	☐	☐	☐	☐			
Confinement: Occasionally Confine						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:	S	S	T	T	T	D	T						
LWD Dist: Evenly Distributed		Location: P/S/O:	☒	☐	☒	☐	☒	☐	☒	☐	FSZ: ☐				
Right Bank:	Shape: Sloping (g)	Texture: Fines ☒	Gravel ☐	Cobble ☐	Boulder ☐	Rock ☐	Manmade ☐	Crown Closure							
Left Bank:	Shape: Sloping (g)	Texture: Fines ☒	Gravel ☐	Cobble ☐	Boulder ☐	Rock ☐	Manmade ☐	1-20%							
Right Bank:	Rip.Veg: Mixed C/D	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.056	25276	CV	.5	MS	10	HC	R: 96	F: 02A	L:	:	9.633945.6042				
Comments: Perched 2.0 m at outlet															
FISH															
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)						
276	EF	1	100	123 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 # 6.0 ILP Map # 093L.056 ILP # 2450 Site 276

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.056 ILP #: 2450 NID Map #: 093L.056 NID #: 20276 Reach #: 6.0 Site #: 276
Field UTM (Z.E.N): 9.633946.6042966 Method: GPU Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.633876.6043030 Ref. Name:
Date: 2002/09/05 Time: 13:15 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	1.00	0.80	0.85	0.78	1.00	1.20					0.94	Method I:	4.0	3.0	C	4.00
Wetted Width (m):	MS	0.40				0.70						0.55	Method II:	5.0		C	
Pool Depth (m):	MS	0.09				0.10						0.10					

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

COVER Total: A

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

LWD: F DIST: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: PS

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: PS

WATER

EMS: Temp: 7 Method: T4 Req #: Cond.: 50 Method: S3
pH: 6.4 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Small sections of ra Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 20.0 D (cm): 4.00 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.056	25276	CV	.5	MS	10	HC	R: 96 F: 02A L: #:		9.633945.6042961	GIS

Comments: Perched 2.0 m at outlet

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Poor - due to limited pools with no depth (ephemeral).
Spawning Habitat	Poor - due to lack of clean patches of gravel (ephemeral).
Rearing Habitat	Poor - due to lack of depth - Dry/Int channel (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
6.0	093L.056	2450	276

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	96	F: 02A	STD	U	Upstream photo of culvert perched ~2.0 m.
R:	96	F: 03A	STD	U	Upstream photo of site with water (isolated wetted section of channel) (tape measure in view).
R:	96	F: 04A	STD	D	Downstream photo of site.
R:	96	F: 05A	STD	D	Downstream photo of culvert inlet (disturbed section) ponded area due to perched inlet.
R:	96	F: 06A	STD	U	Upstream photo of culvert outlet perched ~2.0 m.
COMMENTS					
Section			Comments		
CHANNEL			S6		
CHANNEL			Inlet and outlet of culvert was perched.		
CHANNEL			Electroshocking was conducted in small isolated pockets of water resulting in NFC.		

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.056	2450

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.056	ILP #:	2450	Reach #:	6 -
Project ID: 5270	Lake/Stream: S	Lake From Date:			

Fish Permit #: 145269 Date: 2002/09/05 To: 2002/09/05 Agency: C172 Crew: SG/SH Resample: ☐

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment
276	093L.056	20276				GPU	EF 1	7	50	C	

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment	
276	EF	1	1	2002/09/05	13:15	2002/09/05	13:45	

Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
276	EF	1	1	O	123	100.0	0.8	700	60	6	SMITH ROOT	12B

Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
276	EF	1	1	NFC			0				



Site #276, Upstream photo of culvert perched ~2.0 m.
Roll #96, Frame #02A, Date: 2002/09/05



Site #276, Upstream photo of site with water (isolated wetted section of channel) (tape measure in view).
Roll #96, Frame #03A, Date: 2002/09/05



Site #276, Downstream photo of site.
Roll #96, Frame #04A, Date: 2002/09/05



Site #276, Downstream photo of culvert inlet (disturbed section) ponded area due to perched inlet.
Roll #96, Frame #05A, Date: 2002/09/05



Site #276, Upstream photo of culvert outlet perched ~2.0 m.
Roll #96, Frame #06A, 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.056 2448

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.056		ILP #: 2448		
REACH									
Reach #: 2.0		UTM (Zone/East/North): 9.636495.6040703				Sample Type: Biased			
Length (km): 1.28		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 8.1		Confinement: Frequently Confin		Order: 1		Open water: Absent			
US Elev (m): 809		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 277		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/05	
Site Length (m): 100		GIS UTM 9.637225.6041400		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.00		0.800	
Stage: Low ☐				Wetted Width (m):		0.00		0	
Med ☐				Bankfull Depth (m):		0.30		0.3	
High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		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: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		S		T	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Pole-sapling stage		Stage: Pole-sapling stage		Instream Veg: None ☒		Algae ☐	
Left Bank: Rip.Veg:						Moss ☐		Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.056	25277	CV	.3	MS	10	MS	R: 96 F: 07A L:	#:	9.637236.6041
Comments: Perched 0.20 m.									

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.056 ILP # 2448 Site 277

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.056 ILP #: 2448 NID Map #: 093L.056 NID #: 20277 Reach #: 2.0 Site #: 277
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.637225.6041400 Ref. Name:
Date: 2002/09/05 Time: 15:36 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg				
Channel Width (m):	MS	1.00	1.10	0.90	0.80	1.00	1.20					1.00	Gadient %		Mtd	Avg
Wetted Width (m):	MS											0.00	Method I:	7.0	5.0	6.00
Pool Depth (m):	MS											0.00	Method II:		C	

Wb Depth: .3 .3 .3 Avg: 0.30 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	T	N	D	N
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐

LWD: F DIST: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: PS

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: PS

WATER

EMS:
Temp:
pH:
Flood Signs: None

Method: T4
Method: P2
Method: GE

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

MORPHOLOGY

Bed Material: Dominant: F Subdom: B
D95: 20.0 D (cm): 2.00 Morph: RP
Pattern: SI
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐

O1 B1 B2 B3 D1 D2 D3
DISTURBANCE INDICATORS
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.056	25277	CV	.3	MS	10	MS	R: 96 F: 07A L:	#:	9.637236.6041426	GIS

Comments: Perched 0.20 m.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	None - due to dry channel and no deep pools.
Rearing Habitat	Poor - due to no deep pools and dry channel.
Spawning Habitat	Poor - due to limited amount of gravel and dry channel.

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.056	2448	277

PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	96	F: 07A	STD	U	Upstream photo of 0.20 m perched culvert.
R:	96	F: 08A	STD	U	Upstream photo of site (with boulders).
R:	96	F: 09A	STD	D	Downstream photo of site (lots of leaf litter).
COMMENTS					
Section		Comments			
CHANNEL		S4*			
CHANNEL		Dry Channel			



Site #277, Upstream photo of 0.20 m perched culvert.
Roll #96, Frame #07A, Date: 2002/09/05



Site #277, Upstream photo of site (with boulders).
Roll #96, Frame #08A, Date: 2002/09/05



Site #277, Downstream photo of site (lots of leaf litter).
Roll #96, Frame #09A, 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.046 ILP # 2877

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2877			
REACH											
Reach #: 1.0		UTM (Zone/East/North): 9.638225.6031466				Sample Type: Biased					
Length (km): 1.57		Coupling: Coupled		Magnitude: 8		BGC Zone: SBS					
Gradient (%): 4.7		Confinement: Frequently Confin		Order: 3		Open water: Absent					
US Elev (m): 823		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 278		Field UTM 9.638750.6032644		Agency: C172		Crew: SG/SH		Date: 2002/09/06			
Site Length (m): 230		GIS UTM 9.638756.6032665		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 3.23		2.8		3.700		6	
Stage: Low ☒				Wetted Width (m): 0.77		0.600		1		3	
Med ☐				Bankfull Depth (m): 0.50		0.4		0.6		3	
High ☐		Temp (C): 5		pH: 6.8		Conductivity: 60					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Boulders		D (cm): 17.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Coupled				INDICATORS		☐		☐		☐	
Confinement: Confined						C1		C2		C3	
Morphology: RP Riffle Pool						☐		☐		☐	
						C4		C5		S1	
						☐		☐		☐	
						S2		S3		S4	
						☐		☐		☐	
						S5					
						☐					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		S		D		T		N	
LWD Dist: Evenly Distributed		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: Coniferous		Stage: Mature forest								Crown Closure	
Left Bank: Rip.Veg:		Stage: Mature forest								1-20%	
								Instream Veg: None ☒		Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto		UTM (Z/E/N)	
093L.046	25278	XW	1.0	MS		HC	R: 96 F: 12A L:	#:		9.638756.6032	
Comments: Non-permanent obstruction located ~50 m upstream of confluence with 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)		
278	EF	1	240	149 sec	600	NFC	0				

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.046 ILP # 2877 Site 278

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: Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000-0000
ILP Map #: 093L.046 ILP #: 2877 NID Map #: 093L.046 NID #: 20278 Reach #: 1.0 Site #: 278
Field UTM (Z.E.N): 9.638750.6032644 Method: GPU Site Lg: 230 Method: HC Access: FT
GIS UTM (Z.E.N): 9.638756.6032665 Ref. Name:
Date: 2002/09/06 Time: 08:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS	3.40	3.20	3.20	3.70	2.80	3.10					3.23	Method I:	4.0	3.0	C 3.50
Wetted Width (m):	MS		0.60			0.70	1.00					0.77	Method II:			C
Pool Depth (m):	MS		0.10			0.15	0.20					0.15				

Wb Depth: .5 .6 .4 Avg: 0.50 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	S	D	T	N	S	N
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☐

LWD: F DIST: E

LB SHP: V

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 60 Method: S3
pH: 6.8 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: 40.0 D (cm): 17.00 Morph: RP 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 ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.046	25278	XW	1.0	MS		HC	R: 96 F: 12A L: #:		9.638756.6032750	GIS

Comments: Non-permanent obstruction located ~50 m upstream of confluence with Emerson Creek.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Poor - pools lack sufficient depths.
Rearing Habitat	Poor - Intermittent channel and few deep pools.
Spawning Habitat	Poor - due to substrate composition (mainly cobbles).

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
1.0	093L.046	2877	278

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	96	F: 10A	STD	D	Downstream photo showing cobble/boulder substrates.
R:	96	F: 11A	STD	U	Upstream photo with LWD.
R:	96	F: 12A	STD	U	Upstream view of sediment jam (non-permanent obstruction) ~50 m upstream of confluence with Emerson Creek.

COMMENTS	
Section	Comments
CHANNEL	Non-permanent obstruction observed ~50 m upstream of confluence with Emerson Creek.
CHANNEL	S3* NFC
CHANNEL	230m of stream surveyed.

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.046 ILP # 2877

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.046			ILP #:		2877		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: SG/SH		Resample: ☐		
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
278	093L.046	20278				GPU EF 1	4.5	60	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
278	EF 1	1	2002/09/06	08:00	2002/09/06	08:45						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
278	EF	1	1	O	149	240.0	3.2	600	60	6	SMITH ROOT	12B
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
278	EF	1	1	NFC		0						
COMMENTS												
Section			Comments									
WATERBODY			Electroshocked all pockets of water and some runs. One small load was socked in a pool.									



Site #278, Downstream photo showing cobble/boulder substrates.
Roll #96, Frame #10A, Date: 2002/09/06



Site #278, Upstream photo with LWD.
Roll #96, Frame #11A, Date: 2002/09/06



Site #278, Upstream view of sediment jam (non-permanent obstruction) ~50 m upstream of confluence with Emerson Creek.
Roll #96, Frame #12A, Date: 2002/09/06

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L046	2873

Triton Environmental Consultants Ltd.

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.046 ILP # 2873 Site 279

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 #: 2873 NID Map #: 093L.046 NID #: 20279 Reach #: 1.0 Site #: 279
Field UTM (Z.E.N): .. Method: Site Lg: 250 Method: HC Access: FT
GIS UTM (Z.E.N): 9.638619.6032901 Ref. Name:
Date: 2002/09/06 Time: 09:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	2.60	2.15	1.60	2.57	2.10	1.40	2.00				2.06	Method I:	7.0	11.0	C	10.33
Wetted Width (m):	MS							0.80				0.80	Method II:	13.0		C	
Pool Depth (m):	MS							0.10				0.10					

Wb Depth: .3 .3 .2 Avg: 0.27 Method: MS Stage: L ☒ M ☐ H ☐

COVER Total: A

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

LWD: F DIST: E

LB SHP: V

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 60 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 15.00 Morph: RP 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 ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.046	25279	X	.9	MS		HC	R: 96 F: 13A L: #:		9.638698.6032898	GIS

Comments: Partial obstruction (wedge), representative of other 3 partial obstructions that were observed upstream.

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Poor - no deep pools, no perennial habitat.
Spawning Habitat	Poor - dry channel.
Rearing Habitat	Poor - dry channel.

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.046	2873	279

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	96	F: 13A	STD	U	Upstream photo showing non-permanent obstruction.
R:	96	F: 14A	STD	D	Downstream photo showing substrates (cobble, boulder, gravel).
R:	96	F: 15A	STD	U	Upstream photo of typical section of channel.
COMMENTS					
Section			Comments		
SITE CARD			Stream becomes completely dry ~50 m upstream of confluence with Emerson Creek.		
SITE CARD			Non-permanent barriers observed within surveyed section. One partial obstruction observed ~80 m from confluence with Emerson Creek, with an additional 3 partial obstructions (sediment accumulation caused by LWD) observed in upper 150 m of survey.		
CHANNEL			638728, 6032840		
CHANNEL			S3*		

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.046
ILP # 2873

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.046				ILP #: 2873		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: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
279	093L.046	20279				GPU EF 1	4.5	60	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
279	EF 1	1	2002/09/06	09:00	2002/09/06	09:15							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
279	EF	1	1	O	39	50.0	2.2	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
279	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			Shocked small isolated pools from confluence with Emerson Creek to ~50 m upstream. Upstream of that point channel was completely dry.										



Site #279, Upstream photo showing non-permanent obstruction.
Roll #96, Frame #13A, Date: 2002/09/06



Site #279, Downstream photo showing substrates (cobble, boulder, gravel).
Roll #96, Frame #14A, Date: 2002/09/06



Site #279, Upstream photo of typical section of channel.
Roll #96, Frame #15A, 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 # 5.0 ILP Map # 093L.046 ILP # 2868

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2868		
REACH									
Reach #: 5.0		UTM(Zone/East/North): 9.636346.6031271				Sample Type: Random			
Length (km): 4.28		Coupling: Coupled		Magnitude: 128		BGC Zone: SBS			
Gradient (%): 2.7		Confinement: Confined		Order: 4		Open water: Absent			
US Elev (m): 850		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 280		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/06	
Site Length (m): 150		GIS UTM 9.638931.6032988		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		#					
Stage: Low ☐		Channel Width (m): 6.60		5.800		7.6		6	
Med ☒		Wetted Width (m): 5.83		5.2		6.5		6	
High ☐		Bankfull Depth (m): 0.80		0.6		1		3	
Temp (C): 6		pH: 8.0		Conductivity: 60					
				Avg		Min		Max	
				#					
				Gradient %: 13.25		12		15	
				Pool Depth (m): 1.05		0.5		1.5	
				Turbidity.: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 80.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 40.00				Mid-channel ☐		Span ☐	
Channel Pattern: Straight		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Entrenched						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		S		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: Coniferous		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Mature forest		Vascular ☐					

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.046 ILP # 2868 Site 280

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 #: 2868 NID Map #: 093L.046 NID #: 20280 Reach #: 5.0 Site #: 280
 Field UTM (Z.E.N): .. Method: Site Lg: 150 Method: HC Access: FT
 GIS UTM (Z.E.N): 9.638931.6032988 Ref. Name:
 Date: 2002/09/06 Time: 09:50 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	6.00	7.60	6.50	5.80	7.20	6.50					6.60	Method I:	12.0	15.0	C	13.25
Wetted Width (m):	MS	5.60	5.20	6.00	5.50	6.50	6.20					5.83	Method II:	12.0	14.0	C	
Pool Depth (m):	MS	1.50	1.20	1.00	0.50							1.05					

Wb Depth: 1.0 .8 .6 Avg: 0.80 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	S	S	N	D	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F DIST: E

LB SHP: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: C

STG: MF

RB SHP: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 60 Method: S3
 pH: 8.0 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: 80.0 D (cm): 40.00 Morph: RP DISTURBANCE INDICATORS
 Pattern: ST C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 Islands: N
 Coupling: CO
 Confinement: EN
 FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - due to limited patches of appropriate sized gravels.
Rearing Habitat	Good - due to deep pools and boulder cover.
OverWinter Habitat	Good - due to deep pools and perennial flows.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 96 F: 16A	STD	U	Upstream photo of cascade/fall section.
R: 96 F: 17A	STD	U	Upstream photo of cascade/fall section.
R: 96 F: 18A	STD	U	Upstream photo of cascade/fall section (vertical view).

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
5.0	093L.046	2868	280

PHOTOS						
Photo		Foc Lg		Dir	Comments	
R:	96	F:	19A	STD	D	Downstream photo of cascade/fall section.
R:	96	F:	20A	STD	U	Upstream photo of crew member (SG) electroshocking cascade section.
COMMENTS						
Section		Comments				
SITE CARD		Pools below cascade are ~1.2, 1.5, 0.5 meters deep and are filled with large boulders. Gradient is 3% below cascade/fall section and stream is more RP.				
CHANNEL		S2				
CHANNEL		638862,6032882				

Morice North Planning Area

Reach #	ILP Map #	ILP #
5.0	093L.046	2868

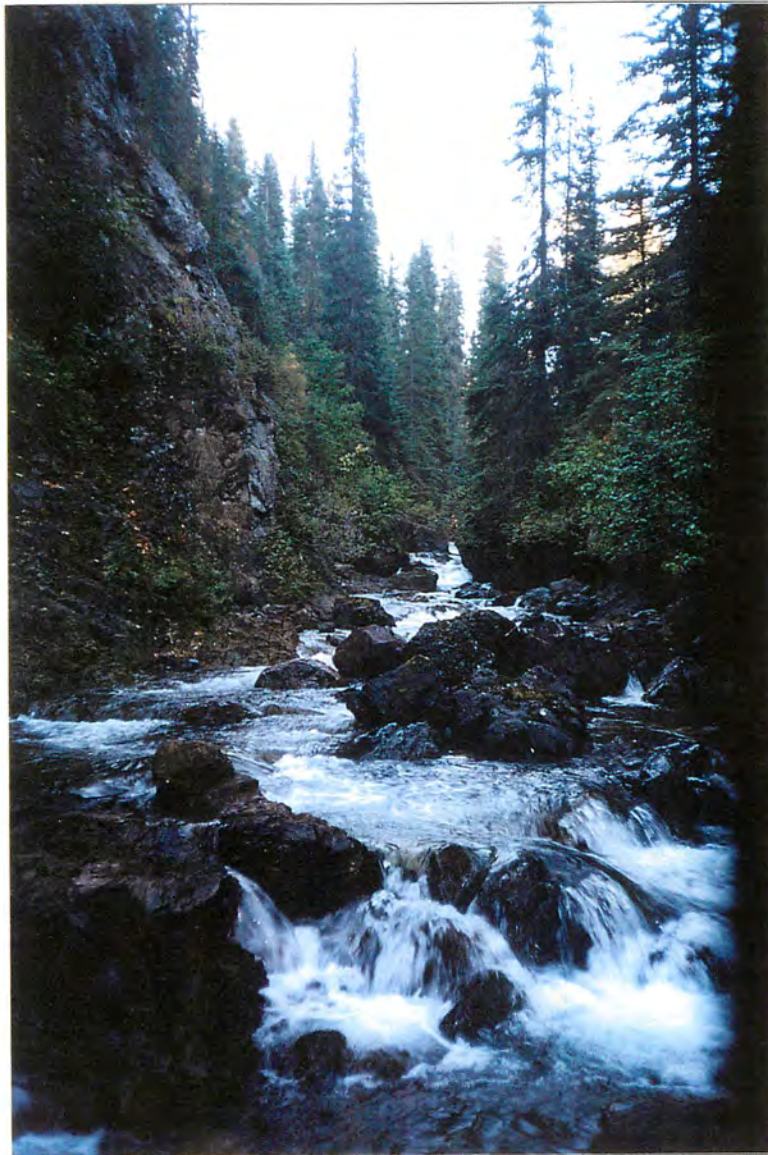
WATERBODY													
Gazetted Name:										Local: Emerson Creek			
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.046				ILP #:		2868		Reach #: 5 -	
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #:		145269		Date: 2002/09/06		To: 2002/09/06		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
281	093L.046	20281				GPU	EF 1	6	80	C			
280	093L.046	20280				GPU	EF 1	6	60	C			
A. GEAR SETTINGS													
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment					
280	EF	1	1	2002/09/06	09:45	2002/09/06	10:45						
281	EF	1	1	2002/09/06	09:15	2002/09/06	09:45						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
280	EF	1	1	O	200	150.0	6.0	600	60	6	SMITH ROOT	12B	
281	EF	1	1	O	358	200.0	10.0	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
280	EF	1	1	NFC			0						
281	EF	1	1	NFC			0						
COMMENTS													
Section			Comments										
WATERBODY			Site 281 comment: Electrofishing was conducted from confluence with ILP 2873 Reach 1 down to cascade section (site 280).										



Site #280, Upstream photo of cascade/fall section.
Roll #96, Frame #16A, Date: 2002/09/06



Site #280, Upstream photo of cascade/fall section.
Roll #96, Frame #17A, Date: 2002/09/06



Site #280, Upstream photo of cascade/fall section (vertical view).
Roll #96, Frame #18A, Date: 2002/09/06



Site #280, Downstream photo of cascade/fall section.
Roll #96, Frame #19A, Date: 2002/09/06



Site #280, Upstream photo of crew member (SG) electroshocking cascade section.
Roll #96, Frame #20A, 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 # 5.0 ILP Map # 093L.046 ILP # 2868

SITE															
Site #: 281		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/06							
Site Length (m): 200		GIS UTM 9.638867.6032888		Agency Name: Triton Environmental Consultants (Terrace)											
CHANNEL															
No Vis.Ch.: ☐		Intermittent: ☐				Avg		Min		Max		#			
Dewatered: ☐		Tribes.: ☐				Channel Width (m):		11.17		10.2		13.2		6	
Stage: Low ☐						Wetted Width (m):		10.07		9.300		11.30		6	
Med ☒						Bankfull Depth (m):		0.33		0.3		0.4		3	
High ☐															
Temp (C): 6				pH: 6.8				Conductivity: 80							
								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): 15.00										Braid ☐			
Channel Pattern: Regular Meanders		Islands: None		DISTURBANCE		O1		B1		B2		B3		D1	
Coupling: Coupled				INDICATORS		☐		☐		☒		☐		☐	
Confinement: Occasionally Confine						C1		C2		C3		C4		C5	
Morphology: RP Riffle Pool						☐		☐		☐		☐		☐	
						☐		☐		☐		☐		☐	
COVER															
Total Cover: Moderate		Type:		SWD		LWD		B		U		DP		OV	
LWD: Few		Amount:		T		T		D		T		S		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒		☒		☒		☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐		1-20%	
Right Bank: Rip.Veg: Coniferous		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)						
280	EF	1	150	200 sec	600	NFC	0								
281	EF	1	200	358 sec	600	NFC	0								

FDIS Site Card

Morice North Planning Area

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

Reach # 5.0 ILP Map # 093L.046 ILP # 2868 Site 281

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: Local Name: Emerson Creek
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2868 NID Map #: 093L.046 NID #: 20281 Reach #: 5.0 Site #: 281
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: MAP Access: FT
GIS UTM (Z.E.N): 9.638867.6032888 Ref. Name:
Date: 2002/09/06 Time: 09:15 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	10.20	10.60	11.30	13.20	11.40	10.30					11.17	Method I:	4.0	5.0	C	3.75
Wetted Width (m):	MS	9.30	9.60	10.50	11.30	10.20	9.50					10.07	Method II:	2.0	4.0	C	
Pool Depth (m):	MS	0.40		0.60	0.30	0.20						0.38					

Wb Depth: .3 .4 .3 Avg: 0.33 Method: MS Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

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

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: C

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: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 15.00 Morph: RP DISTURBANCE INDICATORS
Pattern: ME C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: OC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel and small cobbles.
OverWinter Habitat	Good - abundant deep pool habitat in perennial flows.
Rearing Habitat	Good - due to abundant deep pool and boulder cover in deep runs.
COMMENTS	
Section	Comments
CHANNEL	S2, NFC
SITE CARD	No Photos Taken

Morice North Planning Area

Reach #	ILP Map #	ILP #
5.0	093L.046	2868

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 #: 5 -
Project ID:	5270		Lake/Stream:	S	Lake From Date:

Fish Permit #: 145269 Date: 2002/09/06 To: 2002/09/06 Agency: C172 Crew: SG/SH Resample: ☐

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment
281	093L.046	20281			GPU	EF	1	6	80	C	
280	093L.046	20280			GPU	EF	1	6	60	C	

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment	
280	EF	1	1	2002/09/06	09:45	2002/09/06	10:45	
281	EF	1	1	2002/09/06	09:15	2002/09/06	09:45	

Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
280	EF	1	1	O	200	150.0	6.0	600	60	6	SMITH ROOT	12B
281	EF	1	1	O	358	200.0	10.0	600	60	6	SMITH ROOT	12B

Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
280	EF	1	1	NFC			0				
281	EF	1	1	NFC			0				

Section	Comments
WATERBODY	Site 281 comment: Electrofishing was conducted from confluence with ILP 2873 Reach 1 down to cascade section (site 280).

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.046 2868

STREAM REFERENCING

Gazetted Name:

Local Name:

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

ILP Map #: 093L.046

ILP #: 2868

REACH

Reach #: 4.0

UTM(Zone/East/North): 9.638953.6033191

Sample Type: Biased

Length (km): 1.50

Coupling: Coupled

Magnitude: 129

BGC Zone: SBS

Gradient (%): 6.1

Confinement: Confined

Order: 4

Open water: Absent

US Elev (m): 736

Islands: NONE

Riparian Vegetation: NONE

Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified

SITE

Site #: 282

Field UTM ..

Agency: C172

Crew: SG/SH

Date: 2002/09/06

Site Length (m): 100

GIS UTM 9.639174.6033454

Agency Name: Triton Environmental Consultants (Terrace)

CHANNEL

No Vis.Ch.: ☐

Intermittent: ☐

Dewatered: ☐

Tribs.: ☐

Stage: Low ☐

Med ☒

High ☐

Temp (C): 6

pH: 6.8

Conductivity: 60

	Avg	Min	Max	#
Channel Width (m):	5.43	4.5	7.1	6
Wetted Width (m):	5.43	4.5	7.1	6
Bankfull Depth (m):	0.70	0.5	1	3

	Avg	Min	Max	#
Gradient %:	13.00	11	15	4
Pool Depth (m):	1.20	0.800	1.5	4

Turbidity: Turbid ☐ Low ☐
Moderate ☐ Clear ☒

MORPHOLOGY

Bed Material: Dominant: Boulders

D95 (cm): 90.00

Bars: Non ☒

Side ☐

Diagonal ☐

Mid-channel ☐

Span ☐

Subdominant: Rock

D (cm): 55.00

Braid ☐

Channel Pattern: Straight

Islands: None

DISTURBANCE

O1 B1 B2 B3 D1 D2 D3

Coupling: Coupled

INDICATORS

☐ ☐ ☐ ☐ ☐ ☐ ☐

Confinement: Entrenched

C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Morphology: SP Step Pool

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

COVER

Total Cover: Moderate

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

FSZ: ☐

LWD: None

LWD Dist: Not Applicable

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 ☐

0%

Right Bank: Rip.Veg: None

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	25282	F	2.7	MS	1	MS	R: 96 F: 21A L: #:		9.639338.6033

Comments: Bedrock Falls 1.5 m 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)
282	EF	1	540	696 sec	700	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)
945	EF	1	150	562 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 # 4.0 ILP Map # 093L.046 ILP # 2868 Site 282

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.046 ILP #: 2868 NID Map #: 093L.046 NID #: 20282 Reach #: 4.0 Site #: 282
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: GE Access: FT
GIS UTM (Z.E.N): 9.639174.6033454 Ref. Name:
Date: 2002/09/06 Time: 11:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	5.20	6.00	7.10	4.50	5.00	4.80					5.43	Method I:	14.0	12.0	C	13.00
Wetted Width (m):	MS	5.20	6.00	7.10	4.50	5.00	4.80					5.43	Method II:	15.0	11.0	C	
Pool Depth (m):	GE	1.00	1.50	0.80	1.50							1.20					

Wb Depth: 1.0 .5 .6 Avg: 0.70 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	S	T	D	N	N
Loc: P/S/O:	☐	☐	☒	☒	☒	☐	☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: N

STG:

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: N

STG:

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 60 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: R O1 B1 B2 B3 D1 D2 D3
D95: 90.0 D (cm): 55.00 Morph: SP DISTURBANCE INDICATORS
Pattern: ST C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: EN
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	25282	F	2.7	MS	1	MS	R: 96 F: 21A L:	#:	9.639338.6033443	GIS

Comments: Bedrock Falls 1.5 m plunge pool.

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - no gravel or small cobble.
OverWinter Habitat	Good - abundant deep pool and perennial stream flow.
Rearing Habitat	Good - abundant deep pool and boulder 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
4.0	093L.046	2868	282

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	96	F: 21A	STD	X	Bedrock Falls.
R:	96	F: 22A	STD	D	Looking downstream over falls.
R:	96	F: 23A	STD	U	Looking upstream through cascades above falls.
R:	96	F: 24A	STD	U	Typical habitat above cascade/fall section.
R:	96	F: 25A	STD	D	Typical habitat observed above canyon.
COMMENTS					
Section			Comments		
CHANNEL			No riparian vegetation, banks were vertical bedrock >100 m in height.		
CHANNEL			S2		

Morice North Planning Area

000-000000-00000-00000-0000-0000-000-000-000-000-000-000-000

4.0

093L.046

2868

Triton Environmental Consultants Ltd.



Site #282, Bedrock Falls.
Roll #96, Frame #21A, Date: 2002/09/06



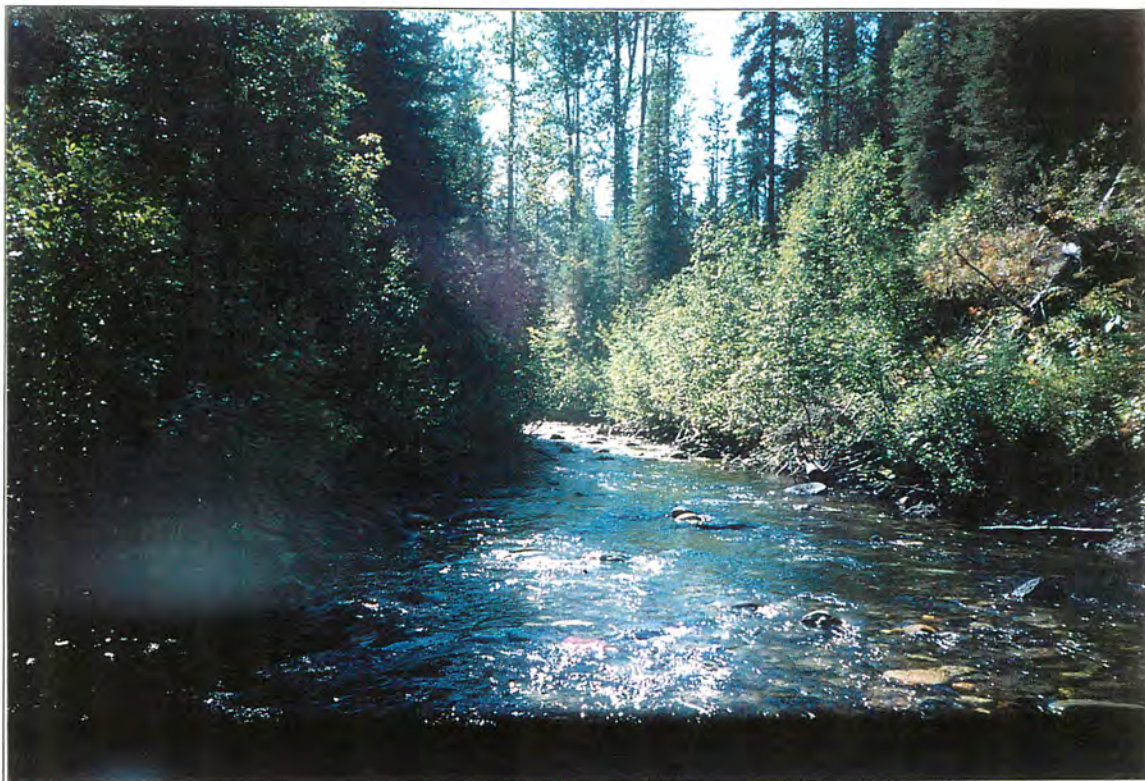
Site #282, Looking downstream over falls.
Roll #96, Frame #22A, Date: 2002/09/06



Site #282, Looking upstream through cascades above falls.
Roll #96, Frame #23A, Date: 2002/09/06



Site #282, Typical habitat above cascade/fall section.
Roll #96, Frame #24A, Date: 2002/09/06



Site #282, Typical habitat observed above canyon.
Roll #96, Frame #25A, 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 #
4.0 093L.046 2877

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2877		
REACH									
Reach #: 4.0		UTM(Zone/East/North): 9.638474.6029259				Sample Type: Biased			
Length (km): .91		Coupling: Decoupled		Magnitude: 5		BGC Zone: SBS			
Gradient (%): 4.5		Confinement: Occasionally Conf		Order: 2		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 #: 283		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/06	
Site Length (m): 100		GIS UTM 9.638203.6029905		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.13		0.800		1.5	
Stage: Low ☒				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.10		0.1		0.1	
High ☐		Temp (C): 6		pH: 7.7		Conductivity: 50			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☒		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 2.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						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: S		S		T		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest						Crown Closure	
Left Bank: Rip.Veg:		Stage: Mature forest						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)
283	EF	1	10	34 sec	700	NFC	0		

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.046 ILP # 2877 Site 283

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 #: 2877 NID Map #: 093L.036 NID #: 20283 Reach #: 4.0 Site #: 283
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.638203.6029905 Ref. Name:
Date: 2002/09/06 Time: 13:45 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	1.00	1.40	1.20	0.90	1.50	0.80					1.13	Method I:	2.0	3.0	C	2.50
Wetted Width (m):	MS											0.00	Method II:			C	
Pool Depth (m):	MS											0.00					

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

COVER Total: M

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

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F DIST: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 50 Method: S3
pH: 7.7 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: 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: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - due to no patches of suitable gravels and seasonal flows.
Rearing Habitat	Poor - due to no pools, seasonal stream flows.
OverWinter Habitat	None - no residual pools (seasonal flow).

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 95 F: 01	STD	U	Upstream photo of site with moss on channel bed.
R: 95 F: 02	STD	D	Photo of downstream section of stream.
R: 95 F: 03	STD	U	Upstream photo of culvert (50 cm by 8 m)

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.046

ILP #2877

Site283

COMMENTS	
Section	Comments
CHANNEL	S4*

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.046 ILP # 2877

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.046				ILP #: 2877		Reach #: 4 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/06			To: 2002/09/06			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
283	093L.046	20283				GPU EF 1	6	50	M				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
283	EF	1	2002/09/06	13:45	2002/09/06	14:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
283	EF	1	1	O	34	10.0	1.0	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
283	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			Electrofished small isolated pool above CV.										



Site #283, Upstream photo of site with moss on channel bed.
Roll #95, Frame #01, Date: 2002/09/06



Site #283, Photo of downstream section of stream.
Roll #95, Frame #02, Date: 2002/09/06



Site #283, Upstream photo of culvert (50 cm by 8 m)
Roll #95, Frame #03, Date: 2002/09/06

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 # 2879 Site 284

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 #: 2879 NID Map #: 093L.046 NID #: 20284 Reach #: 1.0 Site #: 284
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.638423.6030480 Ref. Name:
Date: 2002/09/06 Time: 14:30 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	0.80	1.10	0.50	0.70	1.00	0.60					0.78	Method I:	6.0	4.0	C	4.50
Wetted Width (m):	MS											0.00	Method II:	4.0	4.0	C	
Pool Depth (m):	MS											0.00					

Wb Depth: .3 .1 .1 Avg: 0.17 Method: MS Stage: L ☒ M ☐ H ☐ 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: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

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: G O1 B1 B2 B3 D1 D2 D3
D95: 5.00 D (cm): 0.10 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 ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.046	25284	CV	.6	MS	8	HC	R: 95 F: 04 L:	#:	9.638396.6030480	GIS

Comments: Perched 0.8 m.

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - due to lack of gravels and seasonal stream flows.
OverWinter Habitat	None - due to lack of deep pools and seasonal stream flows.
Rearing Habitat	Poor - due to seasonal stream flows.

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
1.0	093L.046	2879	284

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	95	F:	04	STD	U	Upstream photo of 0.8 m perched culvert.
R:	95	F:	05	STD	U	Upstream photo of typical habitat - dry channel with fine substrate.
R:	95	F:	06	STD	D	Downstream photo of typical habitat.

COMMENTS	
Section	Comments
CHANNEL	Channel is poorly defined and sections of overland flows and discontinuous channel was observed <10 m long.
SITE CARD	CV is a full barrier to fish.
CHANNEL	S4*



Site #284, Upstream photo of 0.8 m perched culvert.
Roll #95, Frame #04, Date: 2002/09/06



Site #284, Upstream photo of typical habitat - dry channel with fine substrate.
Roll #95, Frame #05, Date: 2002/09/06



Site #284, Downstream photo of typical habitat.
Roll #95, Frame #06, 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 # 2.0 ILP Map # 093L.046 ILP # 2877

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2877		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.638124.6030784				Sample Type: Biased			
Length (km): .78		Coupling: Partially Couple		Magnitude: 8		BGC Zone: SBS			
Gradient (%): 2.0		Confinement: Occasionally Conf		Order: 3		Open water: Absent			
US Elev (m): 839		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 285		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/06	
Site Length (m): 100		GIS UTM 9.638079.6030924		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 3.68		3.200		4.1	
Stage: Low ☒				Wetted Width (m): 0.87		0.5		1.5	
Med ☐				Bankfull Depth (m): 0.13		0.1		0.2	
High ☐		Temp (C): 10		pH: 7.2		Conductivity: 80			
						Turbidity: Turbid ☐		Low ☒	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 3.00				Mid-channel ☐		Span ☐	
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: Few		Amount: S		S		T		T	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: Sloping (g)		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)
285	EF	1	185	471 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 # 2877 Site 285

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 #: 2877 NID Map #: 093L.046 NID #: 20285 Reach #: 2.0 Site #: 285
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.638079.6030924 Ref. Name:
Date: 2002/09/06 Time: 15:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	3.50	4.10	3.20	3.80	4.00	3.50					3.68	Method I:	4.0	5.0	C	4.00
Wetted Width (m):	MS			1.50	0.50		0.60					0.87	Method II:	3.0		C	
Pool Depth (m):	MS			0.20	0.10		0.15					0.15					

Wb Depth: .1 .1 .2 Avg: 0.13 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☒ Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: F DIST: E

LB SHP: S

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

RB SHP: S

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 10 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: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 20.0 D (cm): 3.00 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	Poor - no deep pools within site but perennial habitat is available in upstream wetland/lake.
Rearing Habitat	Good - lots of cover but limited by Dry/Int channel.
Spawning Habitat	Good - areas of clean gravel patches but limited by Dry/Int channel.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 95 F: 07	STD	U	Upstream photo of habitat typical of site.
R: 95 F: 08	STD	D	Downstream photo of functioning LWD.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	2.0	093L.046	2877	285

W I L D L I F E	
Group	Observations
MAM	Wolf observed on road just before site.
C O M M E N T S	
Section	Comments
SITE CARD	Electroshocked isolated pools within site as well as the edge of the wetland/lake which resulted in NFC. Potential downstream barrier in Emerson Creek may limit upstream fish access to this Reach. Site was d/s of bridge crossing.
CHANNEL	S3*

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.046	2877

Triton Environmental Consultants Ltd.



Site #285, Upstream photo of habitat typical of site.
Roll #95, Frame #07, Date: 2002/09/06



Site #285, Downstream photo of functioning LWD.
Roll #95, Frame #08, 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 # 6.0 ILP Map # 093L.047 ILP # 3028

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.047		ILP #: 3028		
REACH									
Reach #: 6.0		UTM(Zone/East/North): 9.640024.6031794				Sample Type: Biased			
Length (km): .69		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 13.0		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 842		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 286		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/06	
Site Length (m): 100		GIS UTM 9.640357.6032104		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒				Avg		Min	
Dewatered: ☐		Tribes.: ☐				Max		#	
Stage: Low ☒				Channel Width (m):		1.22		0.800	
Med ☐				Wetted Width (m):		0.00		0	
High ☐				Bankfull Depth (m):		0.40		0.3	
Temp (C):		pH:		Conductivity:		Avg		Min	
						Max		#	
						Gradient %:		5.75	
						Pool Depth (m):		0.00	
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 0.50				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						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	
LWD: Abundant		Amount:		T		S		N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☐		☐		☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage		None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		None ☐		Algae ☐		Moss ☒	
				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.047 ILP # 3028 Site 286

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: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.047 ILP #: 3028 NID Map #: 093L.046 NID #: 20286 Reach #: 6.0 Site #: 286
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.640357.6032104 Ref. Name:
Date: 2002/09/06 Time: 15:50 Agency: C172 Crew: SG/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS	1.10	0.80	1.50	1.60	1.00	1.30					1.22	Method I:	5.0	6.0	C 5.75
Wetted Width (m):	MS											0.00	Method II:	5.0	7.0	C
Pool Depth (m):	MS											0.00				

Wb Depth: .5 .3 .4 Avg: 0.40 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	S	N	T	N	D	N
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☐

LWD: A DIST: E

LB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: S

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

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

MORPHOLOGY

Bed Material: Dominant: F Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 15.0 D (cm): 0.50 Morph: CP 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
Spawning Habitat	None - due to lack of gravel.
OverWinter Habitat	None - due to lack of pools with sufficient depth and seasonal flows.
Rearing Habitat	Poor - due to lack of pool and seasonal flows.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 95 F: 09 STD		D	Downstream photo of cobble/fine channel (brushy).
R: 95 F: 10 STD		U	Upstream photo of dry brushy channel (typical habitat).

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.047	3028	286

COMMENTS	
Section	Comments
CHANNEL	Ephemeral stream, Dry at time of survey.
CHANNEL	S4*



Site #286, Downstream photo of cobble/fine channel (brushy).
Roll #95, Frame #09, Date: 2002/09/06



Site #286, Upstream photo of dry brushy channel (typical habitat).
Roll #95, 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 # 3.0 ILP Map # 093L.045 ILP # 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 #: 3.0		UTM (Zone/East/North): 9.626759.6037070				Sample Type: Random					
Length (km): 1.09		Coupling: Partially Couple		Magnitude: 19		BGC Zone: ESSF					
Gradient (%): 5.3		Confinement: Frequently Confin		Order: 3		Open water: Absent					
US Elev (m): 1404		Islands: NONE		Riparian Vegetation: Shrubs							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 287		Field UTM 9.627190.6037187		Agency: C172		Crew: SG/SH		Date: 2002/09/07			
Site Length (m): 400		GIS UTM 9.627107.6036986		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		3.28		2.700		3.8 6	
Stage: Low ☐				Wetted Width (m):		2.77		2.5		3.200 6	
Med ☒				Bankfull Depth (m):		0.27		0.2		0.3 3	
High ☐		Temp (C): 5		pH: 7.0		Conductivity: 40					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 25.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Gravels		D (cm): 8.00								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: Moderate		Type: SWD		LWD		B		U		DP OV IV	
LWD: Few		Amount: T		T		S		T		N D N	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐ Manmade ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage								Crown Closure 1-20%	
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.045	26287	F	40.0	GE	10	AE	R: 95	F: 20	L: #:		9.627797.6036
Comments: Falls, barrier to upstream fish migration (Reach 2).											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.045	25287	C	100.0	GE	400	AE	R: 95	F: 19	L: #:		9.627996.6036
Comments: Long cascade section (Reach 2).											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
287	EF	1	350	518 sec	1000	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.045 ILP # 2593 Site 287

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.045 ILP #: 2593 NID Map #: 093L.045 NID #: 20287 Reach #: 3.0 Site #: 287
Field UTM (Z.E.N): 9.627190.6037187 Method: GPU Site Lg: 400 Method: HC Access: H
GIS UTM (Z.E.N): 9.627107.6036986 Ref. Name:
Date: 2002/09/07 Time: 12:00 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg					
Channel Width (m):	MS	3.30	2.70	3.10	3.20	3.80	3.60					3.28	Method I:	4.0	4.0	C	4.00
Wetted Width (m):	MS	3.20	2.50	2.70	3.00	2.50	2.70					2.77	Method II:	4.0		C	
Pool Depth (m):	MS	0.20	0.10	0.40	0.30							0.25					

Wb Depth: .3 .2 .3 Avg: 0.27 Method: MS Stage: L ☐ M ☒ H ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

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

LWD: F DIST: C

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.0 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: 25.0 D (cm): 8.00 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.045	26287	F	40.0	GE	10	AE	R: 95 F: 20 L:	#:	9.627797.6036491	GIS
Comments: Falls, barrier to upstream fish migration (Reach 2).										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.045	25287	C	100.0	GE	400	AE	R: 95 F: 19 L:	#:	9.627996.6036309	GIS
Comments: Long cascade section (Reach 2).										

HABITAT QUALITY

Name	Comments
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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	3.0	093L.045	2593	287

HABITAT QUALITY					
Name			Comments		
Spawning Habitat			Poor - due to limiting gravel and spawning location (extensive riffle areas).		
OverWinter Habitat			Fair - due to limited deep pool habitat with perennial flows.		
Rearing Habitat			Good - due to abundant overstream vegetation and boulder cover with riffles and deep runs.		
PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	95	F: 17	STD	D	Downstream photo of typical habitat in alpine meadow.
R:	95	F: 18	STD	U	Upstream photo of typical habitat in alpine meadow.
R:	95	F: 19	STD	U	Aerial photo of 100 m by 400 m cascade in Reach 2.
R:	95	F: 20	STD	U	Aerial photo of 40 m Falls in Reach 2.
COMMENTS					
Section		Comments			
CHANNEL		S5, barrier downstream in Reach 2.			

FDIS Fish Card

Morice North Planning Area

Watershed Code:	000-000000-00000-00000-0000-000-000-000-000-000-000	Reach #	ILP Map #	ILP #
		3.0	093L.045	2593

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.045				ILP #: 2593		Reach #: 3 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/07			To: 2002/09/07			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
287	093L.045	20287				GPU EF 1	5	60	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
287	EF	1	2002/09/07	12:00	2002/09/07	12:45							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
287	EF	1	1	O	518	350.0	3.0	1000	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
287	EF	1	1	NFC		0							



Site #287, Downstream photo of typical habitat in alpine meadow.
Roll #95, Frame #17, Date: 2002/09/07



Site #287, Upstream photo of typical habitat in alpine meadow.
Roll #95, Frame #18, Date: 2002/09/07



Site #287, Aerial photo of 100 m by 400 m cascade in Reach 2.
Roll #95, Frame #19, Date: 2002/09/07



Site #287, Aerial photo of 40 m Falls in Reach 2.
Roll #95, Frame #20, 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 # 1.0 ILP Map # 093L.045 ILP # 2610

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.045		ILP #: 2610		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.625494.6036790				Sample Type: Biased			
Length (km): .45		Coupling: Coupled		Magnitude: 1		BGC Zone: AT			
Gradient (%): 12.2		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 1736		Islands: NONE		Riparian Vegetation: Grass					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 288		Field UTM 9.625344.6037151		Agency: C172		Crew: SG/SH		Date: 2002/09/07	
Site Length (m): 100		GIS UTM 9.625358.6036970		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.28		1.100	
Stage: Low ☐				Wetted Width (m):		1.07		1	
Med ☒				Bankfull Depth (m):		0.20		0.2	
High ☐		Temp (C): 4		pH: 7.1		Conductivity: 40		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 7.00				Mid-channel ☐		Span ☐	
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	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Trace		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		D		N	
LWD Dist: Not Applicable		Location: P/S/O:		☐		☐		☒	
Right Bank: Shape: Overhang		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Grass		Stage: Non-vegetated or initi		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi		Vascular ☐					
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
288	EF	1	100	105 sec	1000	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.045 ILP # 2610 Site 288

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.045 ILP #: 2610 NID Map #: 093L.045 NID #: 20288 Reach #: 1.0 Site #: 288
Field UTM (Z.E.N): 9.625344.6037151 Method: GPU Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N): 9.625358.6036970 Ref. Name:
Date: 2002/09/07 Time: 13:20 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS	1.10	1.30	1.20	1.10	1.60	1.40					1.28	Method I:	12.0	12.0	C 13.25
Wetted Width (m):	MS	1.10	1.10	1.00	1.00	1.00	1.20					1.07	Method II:	14.0	15.0	C
Pool Depth (m):	MS	0.10	0.20	0.10	0.20							0.15				

Wb Depth: .2 .2 .2 Avg: 0.20 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	N	D	N	N	N	N
Loc: P/S/O:	☐	☐	☒	☐	☐	☐	☐

LWD: N

DIST: NA

LB SHP: O

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: G

STG: INIT

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: O

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: G

STG: INIT

WATER

EMS: Temp: 4 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.1 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: 15.0 D (cm): 7.00 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
Spawning Habitat	None - no gravel.
OverWinter Habitat	None - no pools.
Rearing Habitat	Poor - no pools and limited cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 95 F: 21 STD D			Downstream photo towards Lake.
R: 95 F: 22 STD U			Upstream photo towards mountain.

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	2610	288

COMMENTS	
Section	Comments
CHANNEL	S6 - NFC, Falls barrier downstream.

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.045	2610

Triton Environmental Consultants Ltd.



Site #288, Downstream photo towards Lake.
Roll #95, Frame #21, Date: 2002/09/07



Site #288, Upstream photo towards mountain.
Roll #95, Frame #22, 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 # 6.0 ILP Map # 093L.045 ILP # 2593

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000						ILP Map #: 093L.045		ILP #: 2593			
REACH											
Reach #: 6.0		UTM(Zone/East/North): 9.624359.6037324				Sample Type: Biased					
Length (km): 1.18		Coupling: Coupled		Magnitude: 2		BGC Zone: AT					
Gradient (%): 15.5		Confinement: Frequently Confin		Order: 2		Open water: Absent					
US Elev (m): 1868		Islands: NONE		Riparian Vegetation: Grass							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 289		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/07			
Site Length (m): 125		GIS UTM 9.624916.6037256		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		3.43		2.8		4.2	
Stage: Low ☐				Wetted Width (m):		2.95		2.3		3.5	
Med ☒				Bankfull Depth (m):		0.20		0.2		0.2	
High ☐		Temp (C): 4		pH: 7.2		Conductivity: 40					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Boulders		D (cm): 8.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Coupled				INDICATORS		☐		☐		☐	
Confinement: Frequently Confined				C1		C2		C3		C4	
Morphology: RP Riffle Pool				☐		☐		☐		☐	
				C5		S1		S2		S3	
				☐		☐		☐		☐	
				S4		S5		☐		☐	
				☐		☐		☐		☐	
COVER											
Total Cover: Trace		Type: SWD		LWD		B		U		DP	
LWD: None		Amount: N		N		D		S		N	
LWD Dist: Not Applicable		Location: P/S/O:		☐		☐		☒		☐	
				☐		☐		☐		☐	
Right Bank: Shape: Overhang		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐	
Left Bank: Shape: Overhang		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Grass		Stage: Non-vegetated or initi								Crown Closure	
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi								0%	
								Instream Veg: None ☒		Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.045	25289	C	80.0	GE	125	AE	R: 95	F: 25	L:	#:	9.625630.6037
Comments: Cascades at Lake outlet											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
289	EF	1	125	179 sec	1000	NFC	0				

FDIS Site Card

Morice North Planning Area

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

Reach # 6.0 ILP Map # 093L.045 ILP # 2593 Site 289

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

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map #: 093L.045 ILP #: 2593 NID Map #: 093L.045 NID #: 20289 Reach #: 6.0 Site #: 289
Field UTM (Z.E.N): .. Method: Site Lg: 125 Method: HC Access: H
GIS UTM (Z.E.N): 9.624916.6037256 Ref. Name:
Date: 2002/09/07 Time: 13:45 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	3.40	4.20	2.80	3.20	4.10	2.90					3.43	Method I:	6.0	8.0	C	9.75
Wetted Width (m):	MS	2.30	3.50	2.80	3.00	3.20	2.90					2.95	Method II:	10.0	15.0	C	
Pool Depth (m):	MS	0.20	0.20	0.10	0.20	0.40	0.40					0.25					

Wb Depth: .2 .2 .2 Avg: 0.20 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	N	D	S	N	N	N
Loc: P/S/O:	☐	☐	☒	☒	☐	☐	☐

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: N DIST: NA

LB SHP: O

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: G

STG: INIT

RB SHP: O

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: G

STG: INIT

WATER

EMS: Temp: 4 Method: T4 Req #: Cond.: 40 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: B O1 B1 B2 B3 D1 D2 D3
D95: 20.0 D (cm): 8.00 Morph: RP 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	25289	C	80.0	GE	125	AE	R: 95 F: 25 L:	#:	9.625630.6037177	GIS

Comments: Cascades at Lake outlet

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - no gravel.
OverWinter Habitat	None - no pool.
Rearing Habitat	Poor - no pool and limited cover.

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
6.0	093L.045	2593	289

Triton Environmental Consultants Ltd.

Morice North Planning Area

North Planning Area		Reach #	ILP Map #	ILP #
Watershed Code:	000-000000-00000-00000-0000-000-000-000-000-000-000	6.0	093L.045	2593

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.045				ILP #:		2593		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: SG/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
289	093L.045	20289				GPU EF 1	4	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
289	EF	1	1	2002/09/07	13:45	2002/09/07	14:00						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
289	EF	1	1	O	179	125.0	1.5	1000	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
289	EF	1	1	NFC		0							



Site #289, Downstream photo of typical habitat with SH in photo
Roll #95, Frame #23, Date: 2002/09/07



Site #289, Upstream photo of typical habitat.
Roll #95, Frame #24, Date: 2002/09/07



Site #289, View of Cascades
Roll #95, Frame #25, 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 #

8.0 093L.046 2868

STREAM REFERENCING																																	
Gazetted Name:					Local Name:																												
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2868																										
REACH																																	
Reach #: 8.0		UTM(Zone/East/North): 9.627494.6033425				Sample Type: Biased																											
Length (km): 3.41		Coupling: Coupled		Magnitude: 88		BGC Zone: SBS																											
Gradient (%): 2.5		Confinement: Frequently Confin		Order: 4		Open water: Absent																											
US Elev (m): 1172		Islands: NONE		Riparian Vegetation: Coniferous																													
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																	
SITE																																	
Site #: 290		Field UTM 9.630002.6033074		Agency: C172		Crew: SG/SH		Date: 2002/09/07																									
Site Length (m): 220		GIS UTM 9.630014.6033001		Agency Name: Triton Environmental Consultants (Terrace)																													
CHANNEL																																	
No Vis.Ch.: ☐	Intermittent: ☐	Avg Min Max #				Avg Min Max #																											
Dewatered: ☐	Tribs.: ☐	Channel Width (m): 10.53 7.6 13.80 6				Gradient %: 4.33 4 5 3																											
Stage: Low ☐		Wetted Width (m): 6.50 4.2 8.5 6				Pool Depth (m): 0.45 0.300 0.800 6																											
Med ☒		Bankfull Depth (m): 0.37 0.3 0.5 3				Turbidity: Turbid ☐ Low ☐																											
High ☐		Temp (C): 5 pH: 6.8 Conductivity: 80				Moderate ☐ Clear ☒																											
MORPHOLOGY																																	
Bed Material: Dominant: Cobble		D95 (cm): 35.00		Bars: Non ☐		Side ☐		Diagonal ☐																									
Subdominant: Gravels		D (cm): 12.00				Mid-channel ☐		Span ☐																									
Channel Pattern: Regular Meanders		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: Moderate		<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>S</td> <td>T</td> <td>T</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> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	S	T	T	T	N	Location: P/S/O:	☒	☒	☒	☒	☒	☒	☐
Type:	SWD	LWD	B	U	DP	OV	IV																										
Amount:	T	D	S	T	T	T	N																										
Location: P/S/O:	☒	☒	☒	☒	☒	☒	☐																										
LWD: Abundant		FSZ: ☐																															
LWD Dist: Clumped																																	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐																									
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐																									
Right Bank: Rip.Veg: Coniferous		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)																								
290	EF	1	250	632 sec	700	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)																								
458	EF	1	200	690 sec	600	NFC	0																										

FDIS Site 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 Site 290

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: Local Name: Emerson Creek
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map#: 093L.046 ILP #: 2868 NID Map #: 093L.046 NID #: 20290 Reach #: 8.0 Site #: 290
Field UTM (Z.E.N): 9.630002.6033074 Method: GPU Site Lg: 220 Method: MAP Access: H
GIS UTM (Z.E.N): 9.630014.6033001 Ref. Name:
Date: 2002/09/07 Time: 14:15 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	9.70	12.10	7.60	10.50	13.80	9.50					10.53	Method I:	4.0	4.0	C	4.33
Wetted Width (m):	MS	4.20	5.50	5.20	7.10	8.50	8.50					6.50	Method II:	5.0		C	
Pool Depth (m):	MS	0.40	0.40	0.30	0.80	0.30	0.50					0.45					

Wb Depth: .3 .5 .3 Avg: 0.37 Method: MS Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: M

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

LWD: A DIST: C

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 80 Method: S3
pH: 6.8 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: 35.0 D (cm): 12.00 Morph: RP DISTURBANCE INDICATORS
Pattern: ME 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
Spawning Habitat	Good - abundant gravel in pool margins and side channels.
OverWinter Habitat	Good - perennial flows with abundant pool habitat in mainstem and off channel areas.
Rearing Habitat	Good - excellent off channel and side channel areas, abundant cover and deep pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 94 F: 01	STD	D	Downstream photo of typical habitat with LWD.
R: 94 F: 02	STD	U	Upstream photo of typical habitat with LWD (SH).
R: 94 F: 03	STD	U	Upstream photo of typical habitat through braided 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
8.0	093L.046	2868	290

COMMENTS	
Section	Comments
CHANNEL	S5, NFC, Barrier downstream.

Morice North Planning Area

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

Triton Environmental Consultants Ltd.



Site #290, Downstream photo of typical habitat with LWD.
Roll #94, Frame #01, Date: 2002/09/07



Site #290, Upstream photo of typical habitat with LWD (SH).
Roll #94, Frame #02, Date: 2002/09/07



Site #290, Upstream photo of typical habitat through braided section.
Roll #94, Frame #03, Date: 2002/09/07