

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 3 of 5

Prepared for:

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

Prepared by:

TRITON 
ENVIRONMENTAL CONSULTANTS LTD.

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



APPENDIX I

Reach Cards/Site Cards/Fish Collection Forms and Photographs (Sites 291 to 452)

FDIS Reach Card

Morice North Planning Area

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

Reach # 7.0 ILP Map # 093L.046 ILP # 2868

PROJECT									
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)					Project Code: 5270				
Stream Name (gaz.): BULKLEY RIVER									
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000									
ILP Map #: 093L.046		ILP #: 2868		Reach #: 7.0		NID Map #: 093L.046		NID #: 10831	
Air Photos			Names			UTM(Zone/East/North/Method)			
LINE: BCC98341_			Gaz.:			9.630576.6032941 GIS			
#: 0			Local:			Sample Type: R Wetland: ☐			
SURVEY INFO									
Date: 2002/08/27				Agency: C172			Crew: SG/SH		
ATTRIBUTES									
Length (km): 3.79		Gradient: 3.8		Setting: VW		DISTURBANCE INDICATORS			
DS Elev.: 943		Order: 4		Open water: A		O1 B1 B2 B3 D1 D2 D3			
US Elev: 1087		Magnitude: 90		Confinement: FC		C1 C2 C3 C4 C5 S1 S2 S3 S4 S5			
		BGC Zone: SBS		Coupling: PC		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Valley Flat: N		C/D:		Islands: N					
Active Floodplain Visible: ☐		Est. Width:		Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR					
Channel Pattern: SI				Mass Movement: M		Exposed/Eroded: NS			
				Riparian Veg.: NS		Landuse: NS			

MAPS		
Map Type	Map #	Year
TRIM	093L.046	

Morice North Planning Area

Reach #	ILP Map #	ILP #
7.0	093L.046	2868

Triton Environmental Consultants Ltd.



Site #291, Side channel that was electrofished.
Roll #94, Frame #06, 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 # 1.0 ILP Map # 093L.046 ILP # 2906

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.046		ILP #: 2906			
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.629806.6032906				Sample Type: Biased					
Length (km): .19		Coupling: Partially Couple		Magnitude: 4		BGC Zone: SBS					
Gradient (%): 17.4		Confinement: Frequently Confin		Order: 2		Open water: Absent					
US Elev (m): 1128		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 292		Field UTM 9.629881.6033035		Agency: C172		Crew: SG/SH		Date: 2002/09/07			
Site Length (m): 100		GIS UTM 9.629895.6032946		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 2.73		2.200		3.1		6	
Stage: Low ☒				Wetted Width (m): 0.00		0		0		0	
Med ☐				Bankfull Depth (m): 0.37		0.3		0.4		3	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 18.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Cobble		D (cm): 9.00								Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Coupled				INDICATORS		☐		☐		☒	
Confinement: Occasionally Confine				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: Abundant		Amount: T		D		T		S		N	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒		☒	
										FSZ: ☐	
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 21-40%	
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.046 ILP # 2906 Site # 292

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 #: 2906 NID Map #: 093L.046 NID #: 20292 Reach #: 1.0 Site #: 292
Field UTM (Z.E.N): 9.629881.6033035 Method: GPU Site Lg: 100 Method: GE Access: H
GIS UTM (Z.E.N): 9.629895.6032946 Ref. Name:
Date: 2002/09/07 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	2.20	3.10	2.60	3.00	2.80	2.70					2.73	Method I:	18.0	9.0	C	12.25
Wetted Width (m):	MS											0.00	Method II:	10.0	12.0	C	
Pool Depth (m):	MS											0.00					

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

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: A

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

MORPHOLOGY

Bed Material: Dominant: G Subdom: C D95: 18.0 D (cm): 9.00 Morph: CP O1 B1 B2 B3 D1 D2 D3
Pattern: SI Islands: N Coupling: CO Confinement: OC FSZ: ☐ DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - limited gravel and locations to spawn.
OverWinter Habitat	None - due to seasonal stream flows and no pool habitat.
Rearing Habitat	Poor - due to lack of pool habitat and seasonal flows.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 94 F: 04 STD D			Downstream photo of typical habitat - dry channel.
R: 94 F: 05 STD U			Upstream photo of typical habitat - 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
1.0	093L.046	2906	292

COMMENTS	
Section	Comments
CHANNEL	S6 (Barrier on Emerson).



Site #292, Downstream photo of typical habitat - dry channel.
Roll #94, Frame #04, Date: 2002/09/07



Site #292, Upstream photo of typical habitat - dry channel.
Roll #94, Frame #05, Date: 2002/09/07

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.046 ILP # 2925

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.046		ILP #: 2925		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.635899.6035541				Sample Type: Biased			
Length (km): .34		Coupling: Coupled		Magnitude: 2		BGC Zone: SBS			
Gradient (%): 15.3		Confinement: Frequently Confin		Order: 2		Open water: Absent			
US Elev (m): 922		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 293		Field UTM 9.635852.6035709		Agency: C172		Crew: SG/SH		Date: 2002/09/07	
Site Length (m): 150		GIS UTM 9.635851.6035644		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒							
Dewatered: ☐		Tribes.: ☐							
Stage: Low ☒									
Med ☐									
High ☐									
Temp (C): 6		pH: 7.1		Conductivity: 80					
						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: Coupled				INDICATORS		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Morphology: RP Riffle Pool									
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T S N T N D N							
LWD Dist: Evenly Distributed		Location: P/S/O: ☒ ☒ ☐ ☐ ☒ ☐ ☐ ☐						FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☐ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☐ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐						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)
293	EF	1	50	97 sec	1000	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.046 ILP # 2925 Site 293

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 #: 2925 NID Map #: 093L.046 NID #: 20293 Reach #: 1.0 Site #: 293
Field UTM (Z.E.N): 9.635852.6035709 Method: GPU Site Lg: 150 Method: HC Access: H
GIS UTM (Z.E.N): 9.635851.6035644 Ref. Name:
Date: 2002/09/07 Time: 16:00 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	1.50	1.10	1.20	1.70	1.50	1.20					1.37	Method I:	18.0	16.0	C	12.25
Wetted Width (m):	MS	0.00	0.00	0.00	0.00	0.50	0.70					0.20	Method II:	10.0	5.0	C	
Pool Depth (m):	MS	0.00	0.00	0.00	0.00	0.10	0.10					0.03					

Wb Depth: .2 .1 .2 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: 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: 6 Method: T4 Req #: Cond.: 80 Method: S3
pH: 7.1 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris 0.3 m 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: CO
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - due to seasonal flows.
OverWinter Habitat	Poor - due to limited pool depths and seasonal flow in the upper reaches.
Rearing Habitat	Fair - isolated pools with abundant cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 94 F: 08 STD		D	Downstream photo of typical habitat within site.
R: 94 F: 09 STD		U	Upstream photo of typical habitat within site.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000	1.0	093L.046	2925	293

COMMENTS	
Section	Comments
SITE CARD	Site is located from the confluence for 150 m upstream.
CHANNEL	S6, Barrier downstream.

FDIS Fish Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000-000 Reach # 1.0 ILP Map # 093L.046 ILP # 2925

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 #: 2925		Reach #: 1 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/07			To: 2002/09/07			Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
293	093L.046	20293				GPU EF 1	6	80	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
293	EF	1	2002/09/07	16:00	2002/09/07	16:25								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
293	EF	1	1	O	97	50.0	0.5	1000	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
293	EF	1	1	NFC		0								
COMMENTS														
Section			Comments											
WATERBODY			Electroshocked in small isolated pools from the confluence for 50 m.											



Site #293, Downstream photo of typical habitat within site.
Roll #94, Frame #08, Date: 2002/09/07



Site #293, Upstream photo of typical habitat within site.
Roll #94, Frame #09, 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 # 3.0 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 #: 3.0		UTM(Zone/East/North): 9.635666.6035858				Sample Type: Biased			
Length (km): 4.66		Coupling: Coupled		Magnitude: 13		BGC Zone: SBS			
Gradient (%): 5.7		Confinement: Confined		Order: 3		Open water: Absent			
US Elev (m): 883		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 294		Field UTM 9.635842.6035970		Agency: C172		Crew: SG/SH		Date: 2002/09/07	
Site Length (m): 175		GIS UTM 9.635856.6035962		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐	Intermittent: ☐								
Dewatered: ☐	Tribs.: ☐								
Stage: Low ☒		Avg		Min		Max		#	
Med ☐		Channel Width (m): 4.63		3.900		4.900		6	
High ☐		Wetted Width (m): 3.05		2.1		3.900		6	
		Bankfull Depth (m): 0.30		0.2		0.4		3	
						Avg		Min	
						Gradient %: 3.75		3	
						Pool Depth (m): 0.28		0.200	
						Max		4	
						#		5	
						Turbidity: Turbid ☐ Low ☐			
						Moderate ☐ Clear ☒			
Temp (C): 7		pH: 6.9		Conductivity: 100					
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 5.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: 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: T		D		T		T	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒	
		☒		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest						Manmade ☐	
Left Bank: Rip.Veg:		Stage: Mature forest						Crown Closure 1-20%	
				Instream Veg: None ☒		Algae ☐		Moss ☐	
								Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.046	25294	F	4.0	GE	1	AE	R: 94	F: 07	L: #:
Comments: Bedrock Falls		UTM (Z/E/N) 9.637491.6036							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
294	EF	1	250	596 sec	1000	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 3.0 ILP Map # 093L.046 ILP # 2912 Site 294

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 #: 2912 NID Map #: 093L.046 NID #: 20294 Reach #: 3.0 Site #: 294
Field UTM (Z.E.N): 9.635842.6035970 Method: GPU Site Lg: 175 Method: HC Access: H
GIS UTM (Z.E.N): 9.635856.6035962 Ref. Name:
Date: 2002/09/07 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	4.80	4.80	4.60	4.90	3.90	4.80					4.63	Method I:	4.0	4.0	C	3.75
Wetted Width (m):	MS	2.10	3.90	2.50	3.70	3.60	2.50					3.05	Method II:	3.0	4.0	C	
Pool Depth (m):	MS	0.40	0.40	0.20	0.20	0.20						0.28					

Wb Depth: .3 .4 .2 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	D	T	T	T	S	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: A 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: 7 Method: T4 Req #: Cond.: 100 Method: S3
pH: 6.9 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): 5.00 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	25294	F	4.0	GE	1	AE	R: 94 F: 07 L:	#:	9.637491.6036602	GIS
Comments: Bedrock Falls										

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel in pool margins.
OverWinter Habitat	Good - due to deeper pools 0.4 m and perennial flows.
Rearing Habitat	Good - in deeper pool (0.4 m) with abundant LWD cover.

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.046	2912	294

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	94	F:	07	STD	U	4 m bedrock falls.
R:	94	F:	10	STD	U	Downstream photo of typical habitat with LWD.
R:	94	F:	11	STD	U	Upstream photo of typical habitat with LWD.
COMMENTS						
Section			Comments			
CHANNEL			S5, NFC, Barrier downstream.			

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L046	2912

Triton Environmental Consultants Ltd.



Site #294, 4 m bedrock falls.
Roll #94, Frame #07, Date: 2002/09/07



Site #294, Downstream photo of typical habitat with LWD.
Roll #94, Frame #10, Date: 2002/09/07



Site #294, Upstream photo of typical habitat with LWD.
Roll #94, Frame #11, Date: 2002/09/07

Morice North Planning Area

Reach #	ILP Map #	ILP #
4.0	093L.046	2912

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 # 4.0 ILP Map # 093L.046 ILP # 2912 Site 295

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 #: 2912 NID Map #: 093L.046 NID #: 20295 Reach #: 4.0 Site #: 295
Field UTM (Z.E.N): 9.635597.6035867 Method: GPU Site Lg: 137 Method: HC Access: H
GIS UTM (Z.E.N): 9.635502.6035856 Ref. Name:
Date: 2002/09/07 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	4.10	3.30	2.90	3.10	2.80	2.70					3.15	Method I:	7.0	8.0	C	6.25
Wetted Width (m):	MS	3.60	0.00	1.80	1.60	1.60	1.10					1.62	Method II:	4.0	6.0	C	
Pool Depth (m):	MS	0.20		0.30	0.30	0.20						0.25					

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

LWD: A 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: 7 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: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 17.0 D (cm): 5.00 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 ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - due to abundant gravel in margins of shallow pools.
OverWinter Habitat	Poor - due to limited pool depths.
Rearing Habitat	Good - due to abundant cover, perennial flows and deeper runs (0.2 m).

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 94 F: 12	STD	D	Downstream photo of typical habitat with Hat.
R: 94 F: 13	STD	U	Upstream photo of typical habitat.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
4.0	093L.046	2912	295

COMMENTS	
Section	Comments
CHANNEL	S5 (NFC, Barrier downstream).

Morice North Planning Area

Reach #	ILP Map #	ILP #
4.0	093L.046	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 #: 4 -	
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			
295	093L.046	20295				GPU EF 1	7	100	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
295	EF 1	1	2002/09/07	14:45	2002/09/07	17:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
295	EF	1	1	O	167	100.0	2.0	1000	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
295	EF	1	1	NFC		0							



Site #295, Downstream photo of typical habitat with Hat.
Roll #94, Frame #12, Date: 2002/09/07



Site #295, Upstream photo of typical habitat.
Roll #94, Frame #13, Date: 2002/09/07

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L036	3406

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 # 3.0 ILP Map # 093L.036 ILP # 3406 Site 296

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.036 ILP #: 3406 NID Map #: 093L.036 NID #: 20296 Reach #: 3.0 Site #: 296
Field UTM (Z.E.N): 9.638576.6026203 Method: GPU Site Lg: 350 Method: MAP Access: H
GIS UTM (Z.E.N): 9.638543.6026236 Ref. Name:
Date: 2002/09/09 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	13.30	10.60	11.40	9.30	10.40	12.90					11.32	Method I:	2.5	3.0	C	2.63
Wetted Width (m):	MS	9.40	9.40	10.10	8.70	6.30	7.10					8.50	Method II:	3.0	2.0	C	
Pool Depth (m):	MS	0.40		1.20	0.80	1.20						0.90					

Wb Depth: 1.6 .5 .5 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:	N	N	D	N	S	T	N
Loc: P/S/O:	☐	☐	☒	☐	☒	☒	☐

LWD: N DIST: NA

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: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: D

STG: SHR

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 70 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: B O1 B1 B2 B3 D1 D2 D3
D95: 50.0 D (cm): 17.00 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	Poor - limited gravel suitable for spawning.
OverWinter Habitat	Good - abundant deep pool habitat.
Rearing Habitat	Good - abundant deep pools with boulder cover, although limited by lack of off channel areas.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 93 F: 01	STD	D	Downstream photo of typical habitat.
R: 93 F: 02	STD	U	Upstream photo of typical habitat with bedrock.

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
3.0	093L.036	3406	296

COMMENTS	
Section	Comments
CHANNEL	S2 (BT and RB).

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.036	3406

Gazetted Name:		Local:	Gold 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.036	ILP #
Project ID:	5270	Lake/Stream:	S

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

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd		MTD/NO		Temp	Cond	Turbid	Comment	
296	093L.036	20296			GPU	EF	1	5.5	70	C	

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment	
296	EF	1	1	2002/09/09	09:00	2002/09/09	09:30	

Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
296	EF	1	1	O	987	375.0	12.0	900	60	6	SMITH ROOT	12B

Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
296	EF	1	1	RB	A		2	175	210	R	
296	EF	1	1	RB	F		1	35	35	R	
296	EF	1	1	BT	A		1	450	450	R	
296	EF	1	1	BT	J		1	53	53	R	
296	EF	1	1	RB	J		2	72	80	R	

[illegible]



Site #296, Downstream photo of typical habitat.
Roll #93, Frame #01, Date: 2002/09/09



Site #296, Upstream photo of typical habitat with bedrock.
Roll #93, Frame #02, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.036 ILP # 3412

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3412		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.638568.6026671				Sample Type: Biased			
Length (km): .46		Coupling: Coupled		Magnitude: 9		BGC Zone: SBS			
Gradient (%): 16.3		Confinement: Confined		Order: 3		Open water: Absent			
US Elev (m): 758		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 297		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/09	
Site Length (m): 212		GIS UTM 9.638633.6026331		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		5.75		4.7	
Stage: Low ☒				Wetted Width (m):		2.48		1.700	
Med ☐				Bankfull Depth (m):		0.50		0.4	
High ☐		Temp (C): 6		pH: 6.9		Conductivity: 150			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 30.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Boulders		D (cm): 18.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		☐		☐	
Confinement: Confined						☒		☐	
Morphology: CP		Cascade Pool				D1		D2	
						☐		☐	
						D3		☐	
						☐		☐	
						C1		C2	
						☐		☐	
						C3		C4	
						☒		☐	
						C5		S1	
						☐		☐	
						S2		S3	
						☐		☐	
						S4		S5	
						☐		☒	
						☐		☐	
COVER									
Total Cover: Trace		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		D		N	
LWD Dist: Clumped		Location: P/S/O:		☒		☐		☐	
				☐		☐		☐	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☒	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Rock ☒		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		Instream Veg: None ☒		Algae ☐		Moss ☐	
				Vascular ☐				1-20%	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
297	EF	1	100	152 sec	600	RB	4	33	295

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.036 ILP # 3412 Site 297

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
Local Name: ILP Map #: 093L.036 ILP #: 3412 NID Map #: 093L.036 NID #: 20297 Reach #: 1.0 Site #: 297
Field UTM (Z.E.N): .. Method: Site Lg: 212 Method: HC Access: H
GIS UTM (Z.E.N): 9.638633.6026331 Ref. Name:
Date: 2002/09/09 Time: 09:30 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	4.70	5.90	7.10	6.80	4.90	5.10					5.75	Method I:	14.0	12.0	C	11.75
Wetted Width (m):	MS	3.20	2.50	2.20	1.70	2.20	3.10					2.48	Method II:	10.0	11.0	C	
Pool Depth (m):	MS	0.20	0.20	0.30	0.30							0.25					

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

COVER Total: T

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

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: D

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 150 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted Debris Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 30.0 D (cm): 18.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - very limited sections of gravels.
OverWinter Habitat	Poor - no pool of suitable depth observed.
Rearing Habitat	Moderate - limited by lack of cover, pools up to 0.3 m were observed.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 93 F: 03	STD	D	Downstream photo of typical habitat.
R: 93 F: 04	STD	U	Upstream photo of typical habitat.
R: 93 F: 05	STD	D	Downstream photo of erosion finger.

FDIS Fish Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.036 ILP # 3412

WATERBODY													
Gazetted Name:										Local:			
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3412		Reach #: 1 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/09		To:		2002/09/09		Agency: C172	
								Crew: SG/SH		Resample:		☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
297	093L.036	20297				GPU EF 1	6	150	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
297	EF	1	2002/09/09	09:45	2002/09/09	10:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
297	EF	1	1	O	152	100.0	2.0	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
297	EF	1	1	RB	F	3	33 42	R					
297	EF	1	1	RB	A	1	295 295	R					
INDIVIDUAL FISH DATA													
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Roll #	Frame#	Comment
								Str/Smpl#		Str/Smpl#			
297	EF	1	1	RB	295		U	M					
297	EF	1	1	RB	33		U	U					
297	EF	1	1	RB	42		U	U					
297	EF	1	1	RB	38		U	U					



Site #297, Downstream photo of typical habitat.
Roll #93, Frame #03, Date: 2002/09/09



Site #297, Upstream photo of typical habitat.
Roll #93, Frame #04, Date: 2002/09/09



Site #297, Downstream photo of erosion finger.
Roll #93, Frame #05, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 6.0 ILP Map # 093L.036 ILP # 3406

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3406		
REACH									
Reach #: 6.0		UTM (Zone/East/North): 9.633464.6027100				Sample Type: Biased			
Length (km): 1.10		Coupling: Partially Couple		Magnitude: 144		BGC Zone: SBS			
Gradient (%): 4.8		Confinement: Occasionally Conf		Order: 5		Open water: Absent			
US Elev (m): 855		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 298		Field UTM 9.633626.6027122		Agency: C172		Crew: SG/SH		Date: 2002/09/09	
Site Length (m): 300		GIS UTM 9.633640.6027037		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐ Intermittent: ☐									
Dewatered: ☐ Tribes.: ☐									
Stage: Low ☒		Avg		Min		Max		#	
Med ☐		Channel Width (m): 12.93		10.7		15.80		6	
High ☐		Wetted Width (m): 9.12		7.300		11.10		6	
Temp (C): 7		Bankfull Depth (m): 0.40		0.4		0.4		3	
pH: 7.5									
Conductivity: 50									
Turbidity: Turbid ☐								Low ☒	
Moderate ☐								Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 50.00		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 18.00						Mid-channel ☐	
Channel Pattern: Regular Meanders		Islands: None		Disturbance		O1		B1	
Coupling: 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: Abundant		Amount: T		S		D		T	
LWD Dist: Clumped		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: Deciduous		Stage: Shrub/herb stage		Rock ☒		Manmade ☐		Crown Closure	
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.036	25298	F	6.5	MS	5	HC	R: 93	F: 07	L: #:
Comments: Falls (Photos 7 and 8, picture 9 is downstream).		UTM (Z/E/N) 9.633754.6027							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
298	EF	1	300	549 sec	600	BT	2	130	280

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.036 ILP # 3406 Site 298

PROJECT																																																																														
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																																																																				
Stream Name (gaz.): BULKLEY RIVER																																																																														
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name:																																																																				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
ILP Map#: 093L.036		ILP #: 3406		NID Map #: 093L.036		NID #: 20298		Reach #: 6.0		Site #: 298																																																																				
Field UTM (Z.E.N): 9.633626.6027122				Method: GPU		Site Lg: 300				Method: MAP		Access: H																																																																		
GIS UTM (Z.E.N): 9.633640.6027037						Ref. Name:																																																																								
Date: 2002/09/09			Time: 12:00		Agency: C172		Crew: SG/SH		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>12.20</td> <td>10.70</td> <td>15.80</td> <td>12.70</td> <td>11.30</td> <td>14.90</td> <td></td> <td></td> <td></td> <td></td> <td>12.93</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>7.30</td> <td>7.30</td> <td>10.90</td> <td>11.10</td> <td>7.60</td> <td>10.50</td> <td></td> <td></td> <td></td> <td></td> <td>9.12</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.40</td> <td>0.40</td> <td>0.80</td> <td>0.60</td> <td>0.60</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.56</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	12.20	10.70	15.80	12.70	11.30	14.90					12.93	Wetted Width (m):	MS	7.30	7.30	10.90	11.10	7.60	10.50					9.12	Pool Depth (m):	MS	0.40	0.40	0.80	0.60	0.60						0.56	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>5.0</td> <td>4.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>4.0</td> <td>4.0</td> <td>C</td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	5.0	4.0	C	Method II:	4.0	4.0	C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	MS	12.20	10.70	15.80	12.70	11.30	14.90					12.93																																																																		
Wetted Width (m):	MS	7.30	7.30	10.90	11.10	7.60	10.50					9.12																																																																		
Pool Depth (m):	MS	0.40	0.40	0.80	0.60	0.60						0.56																																																																		
	Gadient %	Mtd	Avg																																																																											
Method I:	5.0	4.0	C																																																																											
Method II:	4.0	4.0	C																																																																											
Wb Depth:		.4	.4	.4	Avg: 0.40		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																																			
COVER Total: A																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>S</td> <td>D</td> <td>T</td> <td>S</td> <td>T</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	S	D	T	S	T	N	Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐	CROWN CLOSURE 1 1-20%																																														
Type:	SWD	LWD	B	U	DP	OV	IV																																																																							
Amount:	T	S	D	T	S	T	N																																																																							
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐																																																																							
LWD: A DIST: C LB SHP: S Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐ RIP: C STG: MF								RB SHP: V Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐ RIP: D STG: SHR																																																																						
INSTREAM VEG: N ☒ A ☐ M ☐ V ☐																																																																														
WATER																																																																														
EMS:					Method: T4					Req #:																																																																				
Temp: 7					Method: P2					Cond.: 50																																																																				
pH: 7.5					Method: GE					Turb.: T ☐ M ☐ L ☒ C ☐																																																																				
Flood Signs: Rafted debris 0.6 m										Method: S3																																																																				
										Method: GE																																																																				
MORPHOLOGY																																																																														
Bed Material:		Dominant: B		Subdom: C		O1		B1		B2		B3		D1		D2		D3																																																												
D95: 50.0		D (cm): 18.00		Morph: CP		DISTURBANCE INDICATORS		☐		☐		☐		☐		☐		☐																																																												
Pattern: ME								C1		C2		C3		C4		C5		S1																																																												
Islands: N								☐		☐		☐		☐		☐		☐																																																												
Coupling: CO								☐		☐		☐		☐		☐		☐																																																												
Confinement: FC								☐		☐		☐		☐		☐		☐																																																												
FSZ: ☐								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												
								☐		☐		☐		☐		☐		☐																																																												

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.036	3406	298

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	93	F: 07	STD	U	Photo of 6.5 m Falls.
R:	93	F: 08	STD	U	Photo of 6.5 m Falls.
R:	93	F: 09	STD	U	Photo downstream of 6.5 m Falls.
R:	93	F: 10	STD	D	Downstream photo of typical habitat.
R:	93	F: 11	STD	U	Upstream photo of typical habitat with LWD.
COMMENTS					
Section			Comments		
CHANNEL			S2 (BT).		

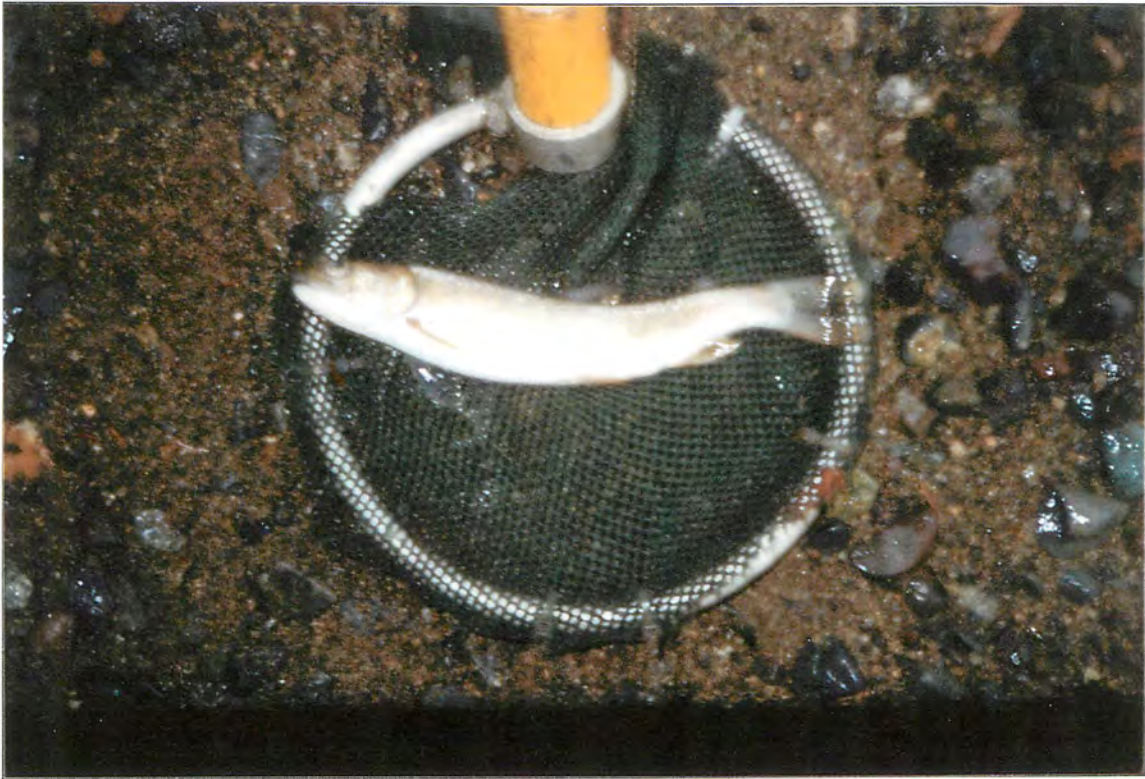
FDIS Fish Card

Morice North Planning Area

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

Reach # 6.0 ILP Map # 093L.036 ILP # 3406

WATERBODY																	
Gazetted Name:										Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0																	
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																	
Waterbody ID:										ILP Map #: 093L.036		ILP #: 3406		Reach #: 6 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/09		To:		2002/09/09		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment							
298	093L.036	20298				GPU EF 1	6.5	50	L								
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
298	EF	1	2002/09/09	12:00	2002/09/09	12:30											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
298	EF	1	1	O	549	300.0	10.0	600	60	6	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
298	EF	1	1	BT	J	1	130 130	R									
298	EF	1	1	BT	A	1	280 280	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#						
298	EF	1	1	BT	280		U	M				93	06	Photo of bull trout on anode.			
298	EF	1	1	BT	130		U	U									



Site #298, Photo of BT on anode.
Roll #93, Frame #06, Date: 2002/09/09



Site #298, Photo of 6.5 m Falls.
Roll #93, Frame #07, Date: 2002/09/09



Site #298, Photo of 6.5 m Falls.
Roll #93, Frame #08, Date: 2002/09/09



Site #298, Photo downstream of 6.5 m Falls.
Roll #93, Frame #09, Date: 2002/09/09



Site #298, Downstream photo of typical habitat.
Roll #93, Frame #10, Date: 2002/09/09



Site #298, Upstream photo of typical habitat with LWD.
Roll #93, Frame #11, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.036 ILP # 3477

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3477		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.632519.6026761				Sample Type: Biased			
Length (km): 1.05		Coupling: Partially Couple		Magnitude: 76		BGC Zone: SBS			
Gradient (%): 6.1		Confinement: Frequently Confin		Order: 4		Open water: Absent			
US Elev (m): 909		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 299		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/09	
Site Length (m): 175		GIS UTM 9.633373.6027083		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐							
Dewatered: ☐		Tribs.: ☐							
Stage: Low ☐									
Med ☒									
High ☐									
Temp (C): 7		pH: 6.8		Conductivity: 80		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): 18.00						Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1 B2 B3 D1 D2 D3	
Coupling: Partially Coupled				INDICATORS		☐		☐ ☒ ☐ ☐ ☐ ☐ ☐	
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐ ☐ ☐ ☐ ☐ ☐ ☐	
Morphology: CP Cascade Pool						☐		☐ ☐ ☐ ☐ ☐ ☐ ☐	
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T T D N S T N							
LWD Dist: Clumped		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: 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)
299	EF	1	120	169 sec	600	BT	1	110	110

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.036 ILP # 3477 Site 299

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3477 NID Map #: 093L.036 NID #: 20299 Reach #: 1.0 Site #: 299
Field UTM (Z.E.N): .. Method: Site Lg: 175 Method: HC Access: H
GIS UTM (Z.E.N): 9.633373.6027083 Ref. Name:
Date: 2002/09/09 Time: 14:33 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	9.60	8.70	9.60	7.30	6.90	7.90					8.33	Method I:	7.0	4.0	C	5.00
Wetted Width (m):	MS	8.90	5.20	6.30	4.40	5.10	6.10					6.00	Method II:	5.0	4.0	C	
Pool Depth (m):	MS	0.40	0.80	0.50	0.60							0.58					

Wb Depth:

.5

.5

.4

Avg: 0.47

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	D	N	S	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

LWD: F DIST: C

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: 7 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: B O1 B1 B2 B3 D1 D2 D3
D95: 35.0 D (cm): 18.00 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	Moderate - limited gravel deposits.
OverWinter Habitat	Good - deep pool habitat (up to 0.8 m) and perennial flows.
Rearing Habitat	Good - abundant deep pool and cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 93 F: 12	STD	U	Upstream photo of typical habitat.
R: 93 F: 13	STD	D	Downstream photo toward eroding bank.

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.036	3477	299

COMMENTS	
Section	Comments
CHANNEL	S2 (BT caught).

FDIS Fish Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.036 ILP # 3477

WATERBODY															
Gazetted Name:										Local:					
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:										ILP Map #: 093L.036		ILP #: 3477		Reach #: 1 -	
Project ID: 5270										Lake/Stream: S		Lake From Date:			
Fish Permit #: 145269		Date: 2002/09/09		To: 2002/09/09		Agency: C172		Crew: SG/SH		Resample: ☐					
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
299	093L.036	20299				GPU EF 1	7	80	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
299	EF	1	2002/09/09	14:33	2002/09/09	14:45									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
299	EF	1	1	O	169	120.0	6.0	600	60	6	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
299	EF	1	1	BT	J	1	110	110	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#				
299	EF	1	1	BT	110		U	U							



Site #299, Upstream photo of typical habitat.
Roll #93, Frame #12, Date: 2002/09/09



Site #299, Downstream photo toward eroding bank.
Roll #93, Frame #13, Date: 2002/09/09

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #
6.0 093L.036 3528

STREAM REFERENCING																																				
Gazetted Name:					Local Name:																															
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3528																													
REACH																																				
Reach #: 6.0		UTM(Zone/East/North): 9.635321.6021491				Sample Type: Biased																														
Length (km): 1.11		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS																														
Gradient (%): 5.0		Confinement: Occasionally Conf		Order: 2		Open water: Absent																														
US Elev (m): 881		Islands: NONE		Riparian Vegetation: Not Specified																																
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																				
SITE																																				
Site #: 300		Field UTM 9.636088.6021435		Agency: C172		Crew: SG/SH		Date: 2002/09/09																												
Site Length (m): 100		GIS UTM 9.636053.6021405		Agency Name: Triton Environmental Consultants (Terrace)																																
CHANNEL																																				
No Vis.Ch.: ☒ Intermittent: ☐																																				
Dewatered: ☐ Tribs.: ☐																																				
Stage: Low ☐		Avg		Min		Max		#																												
Med ☐		Channel Width (m): 0.00		0		0		0																												
High ☐		Wetted Width (m): 0.00		0		0		0																												
Temp (C):		Bankfull Depth (m): 0.00		0		0		0																												
pH:																																				
Conductivity:																																				
Turbidity: Turbid ☐								Low ☐																												
Moderate ☐								Clear ☐																												
MORPHOLOGY																																				
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐																												
Subdominant:		D (cm):						Mid-channel ☐																												
Channel Pattern:		Islands:						Span ☐																												
Coupling:								Braid ☐																												
Confinement:																																				
Morphology:																																				
<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> </tr> <tr> <td>C6</td> <td>C7</td> <td>C8</td> <td>C9</td> <td>C10</td> <td>S5</td> <td>S6</td> <td>S7</td> <td>S8</td> </tr> </tbody> </table>										DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3	C1	C2	C3	C4	C5	S1	S2	S3	S4	C6	C7	C8	C9	C10	S5	S6	S7	S8
DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3																												
C1	C2	C3	C4	C5	S1	S2	S3	S4																												
C6	C7	C8	C9	C10	S5	S6	S7	S8																												
COVER																																				
Total Cover:		Type:		SWD	LWD	B	U	DP	OV																											
LWD:		Amount:																																		
LWD Dist:		Location: P/S/O:		☐	☐	☐	☐	☐	☐																											
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐	Cobble ☐	Boulder ☐	Rock ☐	Manmade ☐	Crown Closure																											
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐	Cobble ☐	Boulder ☐	Rock ☐	Manmade ☐																												
Right Bank: Rip.Veg: 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 # 6.0 ILP Map # 093L.036 ILP # 3528 Site 300

PROJECT

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

WATERSHED

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3528 NID Map #: 093L.036 NID #: 20300 Reach #: 6.0 Site #: 300
Field UTM (Z.E.N): 9.636088.6021435 Method: GPU Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N): 9.636053.6021405 Ref. Name:
Date: 2002/09/09 Time: 13:30 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):												0.00	Method I:	1.0	C	1.00
Wetted Width (m):												0.00	Method II:			
Pool Depth (m):												0.00				

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

COVER Total:

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

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

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: Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐
Confinement: FSZ: ☐

HABITAT QUALITY

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

COMMENTS

Section Comments
CHANNEL No alluvium or scour observed for 100 m upstream or downstream.
SITE CARD No Photos Taken.

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.014	3776

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 # 1.0 ILP Map # 093L.014 ILP # 3776 Site 301

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:			
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000													
ILP Map#: 093L.014		ILP #: 3776		NID Map #: 093L.014		NID #: 20301		Reach #: 1.0		Site #: 301			
Field UTM (Z.E.N): 9.606726.6006170				Method: GPU		Site Lg: 135		Method: MAP		Access: V2			
GIS UTM (Z.E.N): 9.606662.6006134						Ref. Name:							
Date: 2002/09/11		Time: 12:30		Agency: C172		Crew: SG/JH		Fish Crd?: ☒		Incomplete: ☐			
CHANNEL													
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg	
Channel Width (m):	MS	1.80	2.10	2.00	1.70	2.10	1.80					1.92	
Wetted Width (m):	MS	1.70	1.90	2.00	1.70	1.80	1.80					1.82	
Pool Depth (m):	MS	0.20	0.20	0.20	0.20							0.20	
Wb Depth:		.2	.3	.2	Avg: 0.23		Method: MS		Stage: L ☒ M ☐ H ☐				
COVER		Total: A											
Type:	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE					
Amount:	T	N	N	S	N	D	N	1 1-20%					
Loc: P/S/O:	☒	☐	☐	☒	☐	☒	☐	INSTREAM VEG: N ☐ A ☐ M ☒ V ☐					
LWD: N		DIST: NA											
LB SHP: S		RB SHP: S											
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: 7		Method: T4		Req #:		Cond.: 50		Method: S3			
pH: 8.2				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	
D95: 7.00		D (cm): 2.00		Morph: RP		D1		D2		D3			
Pattern: SI						C1		C2		C3		C4	
Islands: N						C5		S1		S2		S3	
Coupling: DC						S4		S5					
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.014	28300	CV	1.4	MS	24	HC	R: 93	F: 19	L:	#:	9.606614.6006102		GIS
Comments: Culver (no barrier)													
HABITAT QUALITY													
Name		Comments											
Spawning Habitat		Good - due to abundant gravel (may be limited by seasonal flow).											
OverWinter Habitat		None - due to limited pool depth and seasonal stream flows.											
Rearing Habitat		Good - due to abundant cover and deeper run habitat.											

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.014	3776	301

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	93	F:	19	STD	U	Upstream view of culvert.
R:	93	F:	20	STD	D	Downstream photo of typical habitat.
R:	93	F:	21	STD	U	Upstream photo of typical habitat.
COMMENTS						
Section			Comments			
CHANNEL			Shallow seasonal stream (intermittent). Substrate dominated by fines and cobbles at downstream end of site.			
CHANNEL			S3 (DV).			

Morice North Planning Area

Reach #	ILP Map #	ILP #
10	093L014	3776

Triton Environmental Consultants Ltd.



Site #301, Upstream view of culvert.
Roll #93, Frame #19, Date: 2002/09/11



Site #301, Downstream photo of typical habitat.
Roll #93, Frame #20, Date: 2002/09/11



Site #301, Upstream photo of typical habitat.
Roll #93, Frame #21, Date: 2002/09/11

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.014 3776

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.014		ILP #:		3776	
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.605501.6006555				Sample Type: Biased					
Length (km): 1.56		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 2.2		Confinement: Occasionally Conf		Order: 1		Open water: Absent					
US Elev (m): 783		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 302		Field UTM 9.606094.6005889		Agency: C172		Crew: SG/SH		Date: 2002/09/11			
Site Length (m): 150		GIS UTM 9.605799.6006547		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☒		Intermittent: ☐				Avg		Min		Max	
Dewatered: ☐		Tribes: ☐									
Stage: Low ☐				Channel Width (m):		0.00		0		0	
Med ☐				Wetted Width (m):		0.00		0		0	
High ☐				Bankfull Depth (m):		0.00		0		0	
						Avg		Min		Max	
						Gradient %:		21.50		6	
						Pool Depth (m):		0.00		0	
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant:		D (cm):								Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1		B2	
Coupling:				INDICATORS		☐		☐		☐	
Confinement:				C1		C2		C3		C4	
Morphology:				S1		S2		S3		S4	
				☐		☐		☐		☐	
COVER											
Total Cover:		Type:		SWD		LWD		B		U	
LWD:		Amount:									
LWD Dist:		Location: P/S/O:		☐		☐		☐		☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: 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: 000-000000-00000-00000-0000-0000-000-000-000-000

Reach # 2.0 ILP Map # 093L.014 ILP # 3776 Site 302

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.014 ILP #: 3776 NID Map #: 093L.014 NID #: 20302 Reach #: 2.0 Site #: 302
Field UTM (Z.E.N): 9.606094.6005889 Method: GPU Site Lg: 150 Method: HC Access: V2
GIS UTM (Z.E.N): 9.605799.6006547 Ref. Name:
Date: 2002/09/11 Time: 12:45 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):												0.00	Method I:	6.0	37.0	C	21.50
Wetted Width (m):												0.00	Method II:				
Pool Depth (m):												0.00					

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

COVER

Total:

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

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

RIP: C

STG: MF

STG: MF

WATER

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

MORPHOLOGY

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

HABITAT QUALITY

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

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 93 F: 22 STD D			Downstream photo of No Visible Channel.
R: 93 F: 23 STD U			Upstream photo of No Visible Channel.

COMMENTS

Section Comments

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	2.0	093L.014	3776	302

COMMENTS	
Section	Comments
SITE CARD	No sign of alluvium or scour for 100 m upstream and 50 m upstream of UTM. NCD.



Site #302, Downstream photo of No Visible Channel.
Roll #93, Frame #22, Date: 2002/09/11



Site #302, Upstream photo of No Visible Channel.
Roll #93, Frame #23, Date: 2002/09/11

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.014 ILP # 3777

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.014		ILP #: 3777		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.605522.6005681				Sample Type: Random			
Length (km): 1.01		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS			
Gradient (%): 3.9		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 788		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 303		Field UTM ..		Agency: C172		Crew: SG/JH		Date: 2002/09/11	
Site Length (m): 130		GIS UTM 9.605879.6005462		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐	Intermittent: ☐								
Dewatered: ☐	Tribs.: ☐								
Stage: Low ☒		Avg		Min		Max		#	
Med ☐		Channel Width (m): 1.67		1.3		2.200		6	
High ☐		Wetted Width (m): 0.47		0		1.100		6	
		Bankfull Depth (m): 0.23		0.2		0.3		3	
		Temp (C): 7		pH: 7.9		Conductivity: 30			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 9.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 4.00				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: T		T		N		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: 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
093L.014	28301	CV	1.0	MS	14	HC	R: 93	F: 24	L: #:
Comments: Culvert (no barrier)		UTM (Z/E/N) 9.605881.6005							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
303	EF	1	130	205 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 # 1.0 ILP Map # 093L.014 ILP # 3777 Site 303

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.014 ILP #: 3777 NID Map #: 093L.014 NID #: 20303 Reach #: 1.0 Site #: 303
Field UTM (Z.E.N): .. Method: Site Lg: 130 Method: GIS Access: V2
GIS UTM (Z.E.N): 9.605879.6005462 Ref. Name:
Date: 2002/09/11 Time: 13:00 Agency: C172 Crew: SG/JH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	1.30	1.50	2.20	1.40	1.80	1.80					1.67	Method I:	2.0	2.0	C	2.00
Wetted Width (m):	MS	0.60	1.10	0.80	0.00	0.30	0.00					0.47	Method II:	2.0		C	
Pool Depth (m):	MS	0.20	0.25	0.40	0.00	0.10	0.00					0.16					

Wb Depth: .3 .2 .2 Avg: 0.23 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:	☒	☒	☐	☒	☐	☒	☐

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: 7
pH: 7.9
Flood Signs: None

Method: T4
Method: P2
Method: GE

Req #: Cond.: 30 Method: S3
Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: F
D95: 9.00 D (cm): 4.00 Morph: RP
Pattern: SI
Islands: N
Coupling: DC
Confinement: UN
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.014	28301	CV	1.0	MS	14	HC	R: 93 F: 24 L:	#:	9.605881.6005461	GIS

Comments: Culvert (no barrier)

HABITAT QUALITY

Name	Comments
Spawning Habitat	Moderate - abundant gravel and spawning locations limited by seasonal stream flows.
OverWinter Habitat	None - due to limited pool depths and seasonal stream flows.
Rearing Habitat	Good - abundant cover in deeper pools (0.2 to 0.4 m).

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.014	3777	303

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	92	F: 01	STD	D	Downstream photo of typical habitat.
R:	92	F: 02	STD	U	Upstream photo of typical habitat.
R:	93	F: 24	STD	U	Upstream photo of 1.0 x 14 m culvert (not a barrier).
R:	93	F: 25	STD	D	Downstream photo of typical habitat.
COMMENTS					
Section			Comments		
CHANNEL			Inferred S3* (NFC).		
CHANNEL			Intermittent, stream dry below UTM 9 605974 6005475.		

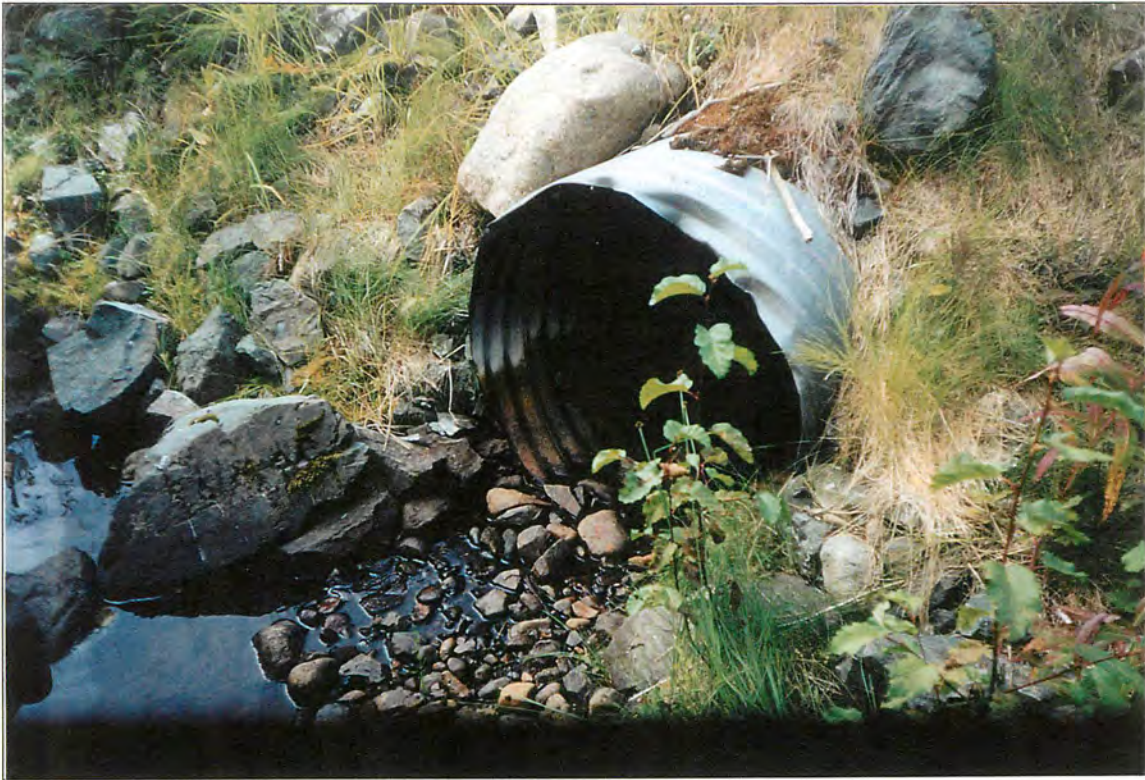
FDIS Fish Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.014 ILP # 3777

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 #: 3777		Reach #: 1 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/11			To: 2002/09/11			Agency: C172		Crew: SG/JH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
303	093L.014	20303				GPU EF 1	6.5	30	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
303	EF 1	1	2002/09/11	13:00	2002/09/11	13:30								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
303	EF	1	1	O	205	130.0	1.5	900	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
303	EF	1	1	NFC		0								



Site #303, Upstream photo of 1.0 x 14 m culvert (not a barrier).
Roll #93, Frame #24, Date: 2002/09/11



Site #303, Downstream photo of typical habitat.
Roll #93, Frame #25, Date: 2002/09/11



Site #303, Downstream photo of typical habitat.
Roll #92, Frame #01, Date: 2002/09/11



Site #303, Upstream photo of typical habitat.
Roll #92, Frame #02, Date: 2002/09/11

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.014	3781

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 # 3.0 ILP Map # 093L.014 ILP # 3781 Site 304

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 #: 3781		NID Map #: 093L.014		NID #: 21304		Reach #: 3.0		Site #: 304							
Field UTM (Z.E.N): 9.605019.6003900				Method: GPU		Site Lg: 125		Method: HC		Access: V2									
GIS UTM (Z.E.N): 9.604974.6003887				Ref. Name:															
Date: 2002/09/11				Time: 14:00		Agency: C172		Crew: SG/JH		Fish Crd?: ☒		Incomplete: ☐							
CHANNEL																			
												Gradient %		Mtd		Avg			
Channel Width (m):												Method I:				0.00			
Wetted Width (m):												Method II:							
Pool Depth (m):																			
Wb Depth:												Avg: 0.00		Method: MS		Stage: L ☐ M ☐ H ☐			
No Vis.Ch.: ☒ Intermittent: ☐																			
Dw: ☐ Tribs.: ☐																			
COVER																			
Total:																			
Type:		SWD		LWD		B		U		DP		OV		IV					
Amount:																			
Loc: P/S/O:		☐ ☐ ☐		☐ ☐ ☐		☐ ☐ ☐		☐ ☐ ☐		☐ ☐ ☐		☐ ☐ ☐		☐ ☐ ☐					
CROWN CLOSURE																			
INSTREAM VEG: N ☐ A ☐ M ☐ V ☐																			
LWD: DIST:																			
LB SHP: RB SHP:																			
Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐																			
RIP: C																			
STG: MF																			
WATER																			
EMS:																			
Temp: Method:																			
pH: Method:																			
Flood Signs: Method:																			
Req #: Cond.: Method:																			
Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE																			
MORPHOLOGY																			
Bed Material:		Dominant:		Subdom:		O1		B1		B2		B3		D1		D2		D3	
D95:		D (cm):		Morph:															
Pattern:						DISTURBANCE		C1		C2		C3		C4		C5		S1	
Islands:						INDICATORS													
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: 92		F: 03		STD		D		Downstream photo of NCD.											
R: 92		F: 04		STD		U		Upstream photo of NCD.											
COMMENTS																			
Section																			
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

3.0

093L.014

3781

304

COMMENTS

Section	Comments
SITE CARD	No Visible Channel for 50 m upstream and 75 m downstream. NCD - upstream S6.

Morice North Planning Area

Reach #	ILP Map #	ILP #
3.0	093L.014	3781

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 #:		3781		Reach #: 3 -	
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #:		145269		Date: 2002/09/11		To: 2002/09/11		Agency: C172		Crew: SG/JH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
304	093L.014	21304				GPU EF 1	7	70	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
304	EF 1	1	2002/09/11	14:00	2002/09/11	14:30							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
304	EF 1		1	O	50	2.0	1.0	900	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
304	EF 1		1	NFC			0						
COMMENTS													
Section			Comments										
WATERBODY			Electrofished in small isolated pool at CV outlet - No Visible Channel (NCD downstream and upstream).										



Site #304, Downstream photo of NCD.
Roll #92, Frame #03, Date: 2002/09/11



Site #304, Upstream photo of NCD.
Roll #92, Frame #04, Date: 2002/09/11

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.014 ILP # 3784

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.014		ILP #: 3784		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.605119.6002897				Sample Type: Biased			
Length (km): .51		Coupling: Coupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 10.0		Confinement: Frequently Confin		Order: 1		Open water: Absent			
US Elev (m): 827		Islands: NONE		Riparian Vegetation: Not Specified					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 305		Field UTM 9.605567.6003035		Agency: C172		Crew: SG/SH		Date: 2002/09/11	
Site Length (m): 50		GIS UTM 9.605529.6002969		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.72		0.5		0.9	
Stage: Low ☐				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.10		0.1		0.1	
High ☐		Temp (C):		pH:		Conductivity:			
								Turbidity.: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Rock		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 5.00				Mid-channel ☐		Span ☐	
Channel Pattern: Straight		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Entrenched				C1		C2		C3	
Morphology: SP Step Pool				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Trace		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		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: Not Specified		Stage: Not Applicable		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Not Applicable						Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
306	EF	1	100	112 sec	900	NFC	0		

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
1.0	093L014	3784	305

Triton Environmental Consultants Ltd.

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.014 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 #: 2.0		UTM(Zone/East/North): 9.605586.6003021				Sample Type: Biased					
Length (km): .32		Coupling: Coupled		Magnitude: 5		BGC Zone: SBS					
Gradient (%): 11.3		Confinement: Frequently Confin		Order: 2		Open water: Absent					
US Elev (m): 788		Islands: NONE		Riparian Vegetation: Deciduous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 306		Field UTM ..		Agency: C172		Crew: SG/JH		Date: 2002/09/11			
Site Length (m): 750		GIS UTM 9.605646.6003028		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		2.97		2.200		4.5 6	
Stage: Low ☒				Wetted Width (m):		0.52		0		0.800 6	
Med ☐				Bankfull Depth (m):		0.13		0.1		0.2 3	
High ☐		Temp (C): 6		pH: 7.2		Conductivity: 50		Turbidity.: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Cobble		D (cm): 9.00								Braid ☐	
Channel Pattern: Sinuous		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	
LWD: Few		Amount: T		D		T		N		N S N	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☐		☐	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☒ Manmade ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☒ Manmade ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Shrub/herb stage		Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☐		Moss ☒ Vascular ☐	
Left Bank: Rip.Veg:											
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.014	28303	C	10.0	GE	50	HC	R: 92	F: 06	L:	#:	9.605715.6003
Comments: Cascade											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.014	28302	F	3.0	GE	2	HC	R: 92	F: 05	L:	#:	9.605368.6003
Comments: Bedrock Falls											

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.014 ILP # 3783 Site 306

PROJECT																																																																														
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																																																																				
Stream Name (gaz.): BULKLEY RIVER																																																																														
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name:																																																																				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
ILP Map#: 093L.014		ILP #: 3783		NID Map #: 093L.014		NID #: 20306		Reach #: 2.0		Site #: 306																																																																				
Field UTM (Z.E.N): ..				Method:		Site Lg: 750		Method: GIS		Access: FT																																																																				
GIS UTM (Z.E.N): 9.605646.6003028						Ref. Name:																																																																								
Date: 2002/09/11			Time: 15:30		Agency: C172		Crew: SG/JH		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>2.50</td> <td>4.10</td> <td>2.30</td> <td>2.20</td> <td>4.50</td> <td>2.20</td> <td></td> <td></td> <td></td> <td></td> <td>2.97</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>0.80</td> <td>0.50</td> <td>0.00</td> <td>0.60</td> <td>0.70</td> <td>0.50</td> <td></td> <td></td> <td></td> <td></td> <td>0.52</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.10</td> <td></td> <td></td> <td>0.20</td> <td>0.40</td> <td>0.20</td> <td></td> <td></td> <td></td> <td></td> <td>0.23</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	2.50	4.10	2.30	2.20	4.50	2.20					2.97	Wetted Width (m):	MS	0.80	0.50	0.00	0.60	0.70	0.50					0.52	Pool Depth (m):	MS	0.10			0.20	0.40	0.20					0.23	<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>15.0 22.0</td> <td>C</td> <td>15.75</td> </tr> <tr> <td>Method II:</td> <td>14.0 12.0</td> <td>C</td> <td></td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	15.0 22.0	C	15.75	Method II:	14.0 12.0	C	
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	MS	2.50	4.10	2.30	2.20	4.50	2.20					2.97																																																																		
Wetted Width (m):	MS	0.80	0.50	0.00	0.60	0.70	0.50					0.52																																																																		
Pool Depth (m):	MS	0.10			0.20	0.40	0.20					0.23																																																																		
	Gadient %	Mtd	Avg																																																																											
Method I:	15.0 22.0	C	15.75																																																																											
Method II:	14.0 12.0	C																																																																												
Wb Depth: .1 .1 .2		Avg: 0.13		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐		Dw: ☐ Tribs.: ☐																																																																				
COVER Total: M																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>D</td> <td>T</td> <td>N</td> <td>N</td> <td>S</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	T	N	N	S	N	Loc: P/S/O:	☒	☒	☒	☐	☐	☒	☐	CROWN CLOSURE 1 1-20%																																														
Type:	SWD	LWD	B	U	DP	OV	IV																																																																							
Amount:	T	D	T	N	N	S	N																																																																							
Loc: P/S/O:	☒	☒	☒	☐	☐	☒	☐																																																																							
LWD: F DIST: E								INSTREAM VEG: N ☐ A ☐ M ☒ V ☐																																																																						
LB SHP: V								RB SHP: V																																																																						
Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐								Texture: F ☐ G ☐ C ☐ B ☐ R ☒ A ☐																																																																						
RIP: D								RIP: D																																																																						
STG: SHR								STG: SHR																																																																						
WATER																																																																														
EMS:					Method: T4					Req #:																																																																				
Temp: 6					Method: P2					Cond.: 50																																																																				
pH: 7.2					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☒																																																																				
Flood Signs: None										Method: S3																																																																				
										Method: GE																																																																				
MORPHOLOGY																																																																														
Bed Material:		Dominant: G		Subdom: C		O1 B1 B2 B3 D1 D2 D3																																																																								
D95: 20.0		D (cm): 9.00		Morph: SP		DISTURBANCE INDICATORS		C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																						
Pattern: SI																																																																														
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	28303	C	10.0	GE	50	HC	R: 92	F: 06	L:	#:	9.605715.6003065		GIS																																																																	
Comments: Cascade																																																																														
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)		Method																																																																	
093L.014	28302	F	3.0	GE	2	HC	R: 92	F: 05	L:	#:	9.605368.6003020		GIS																																																																	
Comments: Bedrock Falls																																																																														
HABITAT QUALITY																																																																														
Name					Comments																																																																									

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
2.0	093L.014	3783	306

HABITAT QUALITY						
Name				Comments		
Spawning Habitat				None - no suitable gravel or spawning locations.		
OverWinter Habitat				None - no suitable pool.		
Rearing Habitat				Poor - limited cover and pool depths.		
PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	92	F:	05	STD	U	Photo of 3 x 1.5 m Bedrock Falls.
R:	92	F:	06	STD	U	Photo of 10 x 50 m Cascade.
R:	92	F:	07	STD	D	Downstream photo of typical habitat.
R:	92	F:	08	STD	U	Upstream photo of typical habitat.
R:	92	F:	09	STD	U	Upstream photo of typical habitat.
COMMENTS						
Section				Comments		
SITE CARD				From Fall UTM to cascade UTM - stream flows over bedrock (sheet run) at 10-23% gradient (mean gradient of 14%).		
CHANNEL				S6		

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.014	3784

Triton Environmental Consultants Ltd.

Site #306, Photo of 3 x 1.5 m Bedrock Falls.
Roll #92, Frame #05, Date: 2002/09/11





Site #306, Photo of 10 x 50 m Cascade.
Roll #92, Frame #06, Date: 2002/09/11



Site #306, Downstream photo of typical habitat.
Roll #92, Frame #07, Date: 2002/09/11



Site #306, Upstream photo of typical habitat.
Roll #92, Frame #08, Date: 2002/09/11



Site #306, Upstream photo of typical habitat.
Roll #92, Frame #09, Date: 2002/09/11

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.014 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 #: 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: ☒									
Dewatered: ☐		Tribes: ☐									
Stage: Low ☒											
Med ☐											
High ☐											
Temp (C): 8		pH: 7.8		Conductivity: 40		Turbidity: Turbid ☐		Low ☐			
						Moderate ☐		Clear ☒			
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		O1 B1 B2 B3 D1 D2 D3					
Coupling: Coupled				INDICATORS		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐					
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 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: 460-000000-00000-00000-0000-0000-000-000-000-000-0															
WS Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000															
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	2002/09/03	13:12	2002/09/03	14:06									
307	EF	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									

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.014 ILP # 3791

STREAM REFERENCING												
Gazetted Name:						Local Name:						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.014			ILP #: 3791			
REACH												
Reach #: 1.0		UTM(Zone/East/North): 9.604244.6001244				Sample Type: Biased						
Length (km): 1.02		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS						
Gradient (%): 8.1		Confinement: Occasionally Conf		Order: 1		Open water: Absent						
US Elev (m): 876		Islands: NONE		Riparian Vegetation: Mixed C/D								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified												
SITE												
Site #: 308		Field UTM 9.604438.6001357		Agency: C172		Crew: SG/JH		Date: 2002/09/11				
Site Length (m): 175		GIS UTM 9.604477.6001380		Agency Name: Triton Environmental Consultants (Terrace)								
CHANNEL												
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#		
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.87		0.400		1.200		6		
Stage: Low ☒				Wetted Width (m): 0.13		0		0.300		6		
Med ☐				Bankfull Depth (m): 0.10		0.1		0.1		3		
High ☐		Temp (C): 7		pH: 7.5		Conductivity: 70						
										Turbidity: Turbid ☐ Low ☐		
										Moderate ☐ Clear ☒		
MORPHOLOGY												
Bed Material: Dominant: Gravels		D95 (cm): 8.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐		
Subdominant: Cobble		D (cm): 2.00								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: RP Riffle Pool						☐		☐		☐		
COVER												
Total Cover: Abundant		Type: SWD LWD B U DP OV IV										
LWD: Few		Amount: T S N T N D N										
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: 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.013	28304	CV	1.2	GE	10	HC	R: 92	F: 12	L:	#:		9.604487.6001
Comments: Perched 10 cm.												

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.014 ILP # 3791 Site 308

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.014 ILP #: 3791 NID Map #: 093L.013 NID #: 20308 Reach #: 1.0 Site #: 308
Field UTM (Z.E.N): 9.604438.6001357 Method: GPU Site Lg: 175 Method: GIS Access: V2
GIS UTM (Z.E.N): 9.604477.6001380 Ref. Name:
Date: 2002/09/11 Time: 16:45 Agency: C172 Crew: SG/JH 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	0.80	1.20	1.00	0.40					0.87	Method I:	14.0	8.0	C	11.33
Wetted Width (m):	MS	0.20	0.30	0.00	0.00	0.20	0.10					0.13	Method II:	12.0		C	
Pool Depth (m):	MS	0.10	0.10	0.10	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:	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: 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: 7 Method: T4 Req #: Cond.: 70 Method: S3
pH: 7.5 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: 8.00 D (cm): 2.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: 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.013	28304	CV	1.2	GE	10	HC	R: 92 F: 12 L:	#:	9.604487.6001385	GIS

Comments: Perched 10 cm.

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - abundant gravels but seasonal stream limits potential.
OverWinter Habitat	None - due to seasonal streamflow and no pools.
Rearing Habitat	Poor - abundant cover but a shallow and seasonal stream 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.014	3791	308

PHOTOS					
Photo			Foc Lg	Dir	Comments
R:	92	F: 10	STD	D	Downstream photo of typical habitat with ferns.
R:	92	F: 11	STD	U	Upstream photo of typical habitat with ferns.
R:	92	F: 12	STD	U	Upstream photo of perched 0.10 m culvert.
COMMENTS					
Section			Comments		
SITE CARD			Culvert is partial barrier (perched and shallow average and high flow mark).		
CHANNEL			Inferred S4.		



Site #308, Downstream photo of typical habitat with ferns.
Roll #92, Frame #10, Date: 2002/09/11



Site #308, Upstream photo of typical habitat with ferns.
Roll #92, Frame #11, Date: 2002/09/11



Site #308, Upstream photo of perched 0.10 m culvert.
Roll #92, Frame #12, Date: 2002/09/11

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.013 ILP # 3736

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.013			ILP #: 3736		
REACH											
Reach #: 3.0		UTM(Zone/East/North): 9.602048.5999583				Sample Type: Biased					
Length (km): .48		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS					
Gradient (%): 6.3		Confinement: Occasionally Conf		Order: 1		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 #: 309		Field UTM 9.602049.5999582		Agency: C172		Crew: SG/JH		Date: 2002/09/11			
Site Length (m): 150		GIS UTM 9.602085.5999562		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.70		0.9		2.5		6	
Stage: Low ☒				Wetted Width (m): 0.00		0		0		0	
Med ☐				Bankfull Depth (m): 0.33		0.2		0.4		3	
High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 4.00				Span ☐				Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Occasionally Confine				C1		C2		C3		C4	
Morphology: RP Riffle Pool				☐		☐		☐		☐	
				C5		S1		S2		S3	
				☐		☐		☐		☐	
				S4		S5		☐		☐	
				☐		☐		☐		☐	
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		S		T		T		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								41-70%	
										Instream Veg: None ☒	
										Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.013	21309	CV	1.2	MS	10	HC	R: 92	F: 13	L:	#:	UTM (Z/E/N)
Comments: Good (passable culverts).											

FDIS Site Card

Morice North Planning Area

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

Reach # 3.0 ILP Map # 093L.013 ILP # 3736 Site 309

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 #: 3736 NID Map #: 093L.013 NID #: 20309 Reach #: 3.0 Site #: 309
Field UTM (Z.E.N): 9.602049.5999562 Method: GPU Site Lg: 150 Method: GIS Access: V2
GIS UTM (Z.E.N): 9.602085.5999562 Ref. Name:
Date: 2002/09/11 Time: 17:15 Agency: C172 Crew: SG/JH 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	1.80	0.90	2.50	1.50	1.30					1.70	Method I:	14.0	10.0	C	10.00
Wetted Width (m):	MS											0.00	Method II:	10.0	6.0	C	
Pool Depth (m):	MS											0.00					

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	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: C

STG: MF

CROWN CLOSURE

3 41-70%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

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: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 10.0 D (cm): 4.00 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	21309	CV	1.2	MS	10	HC	R: 92 F: 13 L:	#:	9.602101.5999554	GIS

Comments: Good (passable culverts).

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - abundant gravel but seasonal streamflows.
OverWinter Habitat	None - due to lack of suitable pools.
Rearing Habitat	Poor - due to seasonal stream flows.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000	3.0	093L.013	3736	309

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	92	F:	13	STD	U	Upstream photo of good passable culverts.
R:	92	F:	14	STD	D	Downstream photo of typical habitat - dry channel.
R:	92	F:	15	STD	U	Upstream photo of typical habitat - dry channel.
COMMENTS						
Section				Comments		
CHANNEL				S3*/S6 (Barrier), Gradient 27%.		



Site #309, Upstream photo of good passable culverts.
Roll #92, Frame #13, Date: 2002/09/11



Site #309, Downstream photo of typical habitat - dry channel.
Roll #92, Frame #14, Date: 2002/09/11



Site #309, Upstream photo of typical habitat - dry channel.
Roll #92, Frame #15, Date: 2002/09/11

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 3739

STREAM REFERENCING												
Gazetted Name:						Local Name:						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.013		ILP #: 3739				
REACH												
Reach #: 2.0		UTM(Zone/East/North): 9.601286.5999313				Sample Type: Biased						
Length (km): .62		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS						
Gradient (%): 8.6		Confinement: Occasionally Conf		Order: 1		Open water: Absent						
US Elev (m): 866		Islands: NONE		Riparian Vegetation: Shrubs								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified												
SITE												
Site #: 310		Field UTM 9.601499.5999268		Agency: C172		Crew: SG/JH		Date: 2002/09/11				
Site Length (m): 150		GIS UTM 9.601513.5999285		Agency Name: Triton Environmental Consultants (Terrace)								
CHANNEL												
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#		
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.15		0.800		1.3		6		
Stage: Low ☒				Wetted Width (m): 0.23		0		0.5		6		
Med ☐				Bankfull Depth (m): 0.33		0.2		0.4		3		
High ☐		Temp (C): 8		pH: 7.5		Conductivity: 70						
								Turbidity.: Turbid ☐		Low ☐		
								Moderate ☐		Clear ☒		
MORPHOLOGY												
Bed Material: Dominant: Gravels		D95 (cm): 12.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐		
Subdominant: Cobble		D (cm): 4.00								Braid ☐		
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3		
Coupling: Decoupled				INDICATORS		☐		☐		☐		
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐		
Morphology: RP Riffle Pool						☐		☐		☐		
COVER												
Total Cover: Moderate		Type: SWD LWD B U DP OV IV										
LWD: Abundant		Amount: T D N N N S 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: Shrubs		Stage: Shrub/herb stage										
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐								
FEATURES												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto		UTM (Z/E/N)
093L.013	28305	CV	1.2	MS	10	GE	R: 92	F: 16	L:	#:		9.601503.5999
Comments: Culvert												

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 # 3739 Site 310

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 #: 3739 NID Map #: 093L.013 NID #: 20310 Reach #: 2.0 Site #: 310
Field UTM (Z.E.N): 9.601499.5999268 Method: GPU Site Lg: 150 Method: HC Access: V4
GIS UTM (Z.E.N): 9.601513.5999285 Ref. Name:
Date: 2002/09/11 Time: 17:45 Agency: C172 Crew: SG/JH 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	0.80	1.20	1.30					1.15	Method I:	10.0	4.0	C	6.00
Wetted Width (m):	MS	0.30	0.40	0.00	0.00	0.20	0.50					0.23	Method II:	6.0	4.0	C	
Pool Depth (m):	MS	0.10	0.10	0.10	0.10							0.10					

Wb Depth:

.2

.4

.4

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	D	N	N	N	S	N
Loc: P/S/O:	☒	☒	☐	☐	☐	☒	☐

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: A DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

RB SHP: S

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 70 Method: S3
pH: 7.5 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: 12.0 D (cm): 4.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.013	28305	CV	1.2	MS	10	GE	R: 92 F: 16 L:	#:	9.601503.5999285	GIS

Comments: Culvert

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - limited gravels and seasonal streamflows.
OverWinter Habitat	None - no habitat.
Rearing Habitat	Poor - due to seasonal stream flows and no pools.

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	3739	310

PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	92	F: 16	STD	U	Upstream photo of 1.2 x 10 m culvert.
R:	92	F: 17	STD	D	Downstream photo of typical habitat (logged dry channel).
R:	92	F: 18	STD	U	Upstream photo of typical habitat (logged dry channel).
COMMENTS					
Section		Comments			
CHANNEL		Culvert barrier (perched 10 cm and shallow water depth). Gradient barrier 20% UTM 9 601343 5999313 increasing to over 25% upstream.			



Site #310, Upstream photo of 1.2 x 10 m culvert.
Roll #92, Frame #16, Date: 2002/09/11



Site #310, Downstream photo of typical habitat (logged dry channel).
Roll #92, Frame #17, Date: 2002/09/11



Site #310, Upstream photo of typical habitat (logged dry channel).
Roll #92, Frame #18, Date: 2002/09/11

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.024 ILP # 3580

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.024		ILP #: 3580		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.616545.6018148				Sample Type: Biased			
Length (km): .50		Coupling: Decoupled		Magnitude: 1		BGC Zone: ESSF			
Gradient (%): 7.2		Confinement: Occasionally Conf		Order: 1		Open water: Present			
US Elev (m): 1226		Islands: NONE		Riparian Vegetation: Grass					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 311		Field UTM 9.616750.6017797		Agency: C172		Crew: SG/SH		Date: 2002/09/14	
Site Length (m): 180		GIS UTM 9.616761.6017797		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.02		0.800	
Stage: Low ☒				Wetted Width (m):		0.83		0.7	
Med ☐				Bankfull Depth (m):		0.57		0.5	
High ☐		Temp (C): 8		pH: 7.9		Conductivity: 20		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 0.05		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 0.05				Mid-channel ☐		Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		☐		☐	
Confinement: Unconfined				C1		C2		C3	
Morphology: RP Riffle Pool				C4		C5		S1	
				C6		S2		S3	
				S4		S5			
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: None		Amount: S		N		N		D	
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: Shrub/herb stage		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage				Vascular ☐			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
311	EF	1	180	276 sec	600	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.024 ILP # 3580 Site 311

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-00000-000-000-000-000-000-000
ILP Map#: 093L.024 ILP #: 3580 NID Map #: 093L.024 NID #: 20311 Reach #: 1.0 Site #: 311
Field UTM (Z.E.N): 9.616750.6017797 Method: GPU Site Lg: 180 Method: GIS Access: H
GIS UTM (Z.E.N): 9.616761.6017797 Ref. Name:
Date: 2002/09/14 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	1.10	1.00	0.80	1.10	1.20	0.90					1.02	Method I:	1.0	1.5	C	1.50	
Wetted Width (m):	MS	0.80	1.00	0.80	1.00	0.70	0.70					0.83	Method II:	2.0		C		
Pool Depth (m):	MS	0.10	0.20	0.20	0.20	0.25						0.19						

Wb Depth: .5 .6 .6 Avg: 0.57 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	N	N	D	N	T	N
Loc: P/S/O:	☒	☐	☐	☒	☐	☒	☐

LWD: N DIST: NA

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: G

STG: SHR

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: G

STG: SHR

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 20 Method: S3
pH: 7.9 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: 0.05 D (cm): 0.05 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	None - no gravel.
OverWinter Habitat	None - due to seasonal stream flows and lack of pools.
Rearing Habitat	Poor - due to limited cover and shallow depths and lack of pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 92 F: 19	STD	D	Downstream photo of typical habitat, shrub riparian.
R: 92 F: 20	STD	U	Upstream photo of typical habitat, shrub riparian.

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.024	3580	311

COMMENTS	
Section	Comments
CHANNEL	Inferred S4 (NFC). Potential barrier downstream.

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.024	3580

Triton Environmental Consultants Ltd.



Site #311, Downstream photo of typical habitat, shrub riparian.
Roll #92, Frame #19, Date: 2002/09/14



Site #311, Upstream photo of typical habitat, shrub riparian.
Roll #92, Frame #20, Date: 2002/09/14

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.025 3617

STREAM REFERENCING																																										
Gazetted Name:					Local Name:																																					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000					ILP Map #: 093L.025		ILP #: 3617																																			
REACH																																										
Reach #: 4.0		UTM(Zone/East/North): 9.616810.6017719				Sample Type: Biased																																				
Length (km): .90		Coupling: Decoupled		Magnitude: 4		BGC Zone: ESSF																																				
Gradient (%): 0.8		Confinement: Occasionally Conf		Order: 2		Open water: Absent																																				
US Elev (m): 1192		Islands: NONE		Riparian Vegetation: Grass																																						
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																										
SITE																																										
Site #: 312		Field UTM 9.616971.6017700		Agency: C172		Crew: SG/SH		Date: 2002/09/14																																		
Site Length (m): 220		GIS UTM 9.616918.6017667		Agency Name: Triton Environmental Consultants (Terrace)																																						
CHANNEL																																										
No Vis.Ch.: ☐	Intermittent: ☐	<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>3.05</td> <td>2.200</td> <td>3.900</td> <td>6</td> </tr> <tr> <td>Wetted Width (m):</td> <td>3.05</td> <td>2.200</td> <td>3.900</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.93</td> <td>0.8</td> <td>1</td> <td>3</td> </tr> </tbody> </table>				Avg	Min	Max	#	Channel Width (m):	3.05	2.200	3.900	6	Wetted Width (m):	3.05	2.200	3.900	6	Bankfull Depth (m):	0.93	0.8	1	3	<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Gradient %:</td> <td>0.00</td> <td>0</td> <td>0</td> <td>4</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.95</td> <td>0.800</td> <td>1</td> <td>4</td> </tr> </tbody> </table>				Avg	Min	Max	#	Gradient %:	0.00	0	0	4	Pool Depth (m):	0.95	0.800	1	4
Avg	Min	Max	#																																							
Channel Width (m):	3.05	2.200	3.900	6																																						
Wetted Width (m):	3.05	2.200	3.900	6																																						
Bankfull Depth (m):	0.93	0.8	1	3																																						
Avg	Min	Max	#																																							
Gradient %:	0.00	0	0	4																																						
Pool Depth (m):	0.95	0.800	1	4																																						
Dewatered: ☐	Tribs.: ☐					Turbidity: Turbid ☐ Low ☐																																				
Stage: Low ☐						Moderate ☐ Clear ☒																																				
Med ☐																																										
High ☒	Temp (C): 8	pH: 7.8		Conductivity: 40																																						
MORPHOLOGY																																										
Bed Material: Dominant: Fines		D95 (cm): 0.05		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																				
Subdominant: Not Applicable		D (cm): 0.05				Braid ☐																																				
Channel Pattern: Irregular, Wandering		Islands: None		<table border="1" style="display: inline-table; 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: Decoupled																																										
Confinement: Unconfined																																										
Morphology: LC Large Channel																																										
COVER																																										
Total Cover: Abundant		<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>D</td> <td>N</td> <td>S</td> </tr> </tbody> </table>							Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	N	N	N	S	D	N	S																		
Type:	SWD	LWD	B	U	DP	OV	IV																																			
Amount:	N	N	N	S	D	N	S																																			
LWD: None		Location: P/S/O: ☐ ☐ ☐ ☒ ☐ ☒ ☐ ☒							FSZ: ☐																																	
LWD Dist: Not Applicable																																										
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐		Crown Closure																												
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐		0%																												
Right Bank: Rip.Veg: Grass														Stage: Non-vegetated or initi																												
Left Bank: Rip.Veg:														Stage: Non-vegetated or initi																												
														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)																																	
312	EF	1	220	365 sec	800	NFC	0																																			

FDIS Site Card

Morice North Planning Area

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

Reach # 4.0 ILP Map # 093L.025 ILP # 3617 Site 312

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.025 ILP #: 3617 NID Map #: 093L.024 NID #: 20312 Reach #: 4.0 Site #: 312
Field UTM (Z.E.N): 9.616971.6017700 Method: GPU Site Lg: 220 Method: GIS Access: H
GIS UTM (Z.E.N): 9.616918.6017667 Ref. Name:
Date: 2002/09/14 Time: 09:40 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	3.20	2.80	3.70	3.90	2.50					3.05	Method I:	0.0	0.0	C	0.00
Wetted Width (m):	MS	2.20	3.20	2.80	3.70	3.90	2.50					3.05	Method II:	0.0	0.0	C	
Pool Depth (m):	MS	1.00	0.80	1.00	1.00							0.95					

Wb Depth: 1.0 1.0 .8 Avg: 0.93 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	N	S	D	N	S
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: 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: F Subdom: NA O1 B1 B2 B3 D1 D2 D3
D95: 0.05 D (cm): 0.05 Morph: LC 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	None - no gravel.
OverWinter Habitat	Good - abundant deep pool habitat.
Rearing Habitat	Good - abundant cover and pools >1.0 m deep.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 92 F: 21 STD D			Downstream photo of typical habitat.
R: 92 F: 22 STD U			Upstream photo of typical habitat.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
4.0	093L.025	3617	312

COMMENTS	
Section	Comments
CHANNEL	Flooded - beaver dams ~1.0 m high at end of wetland and potentially below site.
CHANNEL	Inferred S3* (NFC).

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.025 ILP # 3617

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:						ILP Map #: 093L.025			ILP #: 3617		Reach #: 4 -		
Project ID: 5270						Lake/Stream: S			Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/14			To: 2002/09/14			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
312	093L.024	20312	9	616971	6017700	GPU EF 1	7.5	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
312	EF	1	1	2002/09/14	09:40	2002/09/14	10:00						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
312	EF	1	1	O	365	220.0	2.5	800	60	6	SMITH ROOT 12B		
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
312	EF	1	1	NFC		0							



Site #312, Downstream photo of typical habitat.
Roll #92, Frame #21, Date: 2002/09/14



Site #312, Upstream photo of typical habitat.
Roll #92, Frame #22, Date: 2002/09/14

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.025 3623

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.025		ILP #: 3623		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.618631.6016157				Sample Type: Biased			
Length (km): 1.13		Coupling: Decoupled		Magnitude: 1		BGC Zone: ESSF			
Gradient (%): 0.4		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 1120		Islands: NONE		Riparian Vegetation: Grass					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 313		Field UTM 9.618104.6015364		Agency: C172		Crew: SG/SH		Date: 2002/09/14	
Site Length (m): 190		GIS UTM 9.618129.6015390		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 2.27		1.8		3.200	
Stage: Low ☐				Wetted Width (m): 2.27		1.8		3.200	
Med ☐				Bankfull Depth (m): 0.97		0.8		1.1	
High ☒		Temp (C): 8		pH: 8.2		Conductivity: 10			
								Turbidity: Turbid ☐ Low ☒	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 0.05		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Not Applicable		D (cm): 0.05				Mid-channel ☐		Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Decoupled						B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: LC Large Channel						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		N		T	
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		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi		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)
313	EF	1	200	186 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)
901	MT	3		3975 min		NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.025 ILP # 3623 Site 313

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.025 ILP #: 3623 NID Map #: 093L.025 NID #: 20313 Reach #: 1.0 Site #: 313
Field UTM (Z.E.N): 9.618104.6015364 Method: GPU Site Lg: 190 Method: GIS Access: H
GIS UTM (Z.E.N): 9.618129.6015390 Ref. Name:
Date: 2002/09/14 Time: 11:35 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	2.10	1.80	3.20	1.90	2.10	2.50					2.27	Method I:	0.0	0.5	C	0.17
Wetted Width (m):	MS	2.10	1.80	3.20	1.90	2.10	2.50					2.27	Method II:	0.0		C	
Pool Depth (m):	MS	1.10	0.80	1.00	1.00							0.98					

Wb Depth: 1.1 .8 1.0 Avg: 0.97 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	N	T	S	N	D
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: 8 Method: T4 Req #: Cond.: 10 Method: S3
pH: 8.2 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: 0.05 D (cm): 0.05 Morph: LC 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	None - no gravel.
OverWinter Habitat	Good - abundant deep pools.
Rearing Habitat	Good - abundant deep pools and cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 92 F: 23	STD	D	Downstream photo of typical habitat, large channel morphology.
R: 92 F: 24	STD	U	Upstream photo of typical habitat, large channel morphology.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
1.0	093L.025	3623	313

COMMENTS	
Section	Comments
CHANNEL	Flooded wetland (channelized).
CHANNEL	Inferred S3 (NFC).

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.025	3623

Triton Environmental Consultants Ltd.



Site #313, Downstream photo of typical habitat, large channel morphology.
Roll #92, Frame #23, Date: 2002/09/14



Site #313, Upstream photo of typical habitat, large channel morphology.
Roll #92, Frame #24, Date: 2002/09/14

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.025 ILP # 3618

STREAM REFERENCING										
Gazetted Name:					Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.025		ILP #: 3618			
REACH										
Reach #: 5.0		UTM(Zone/East/North): 9.618145.6015283				Sample Type: Biased				
Length (km): .49		Coupling: Decoupled		Magnitude: 3		BGC Zone: ESSF				
Gradient (%): 2.6		Confinement: Occasionally Conf		Order: 2		Open water: Absent				
US Elev (m): 1113		Islands: NONE		Riparian Vegetation: Deciduous						
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified										
SITE										
Site #: 314		Field UTM 9.618242.6015129		Agency: C172		Crew: SG/SH		Date: 2002/09/14		
Site Length (m): 220		GIS UTM 9.618224.6015218		Agency Name: Triton Environmental Consultants (Terrace)						
CHANNEL										
No Vis.Ch.: ☐		Intermittent: ☐								
Dewatered: ☐		Tribes.: ☐								
Stage: Low ☐										
Med ☒										
High ☐										
Temp (C): 8		pH: 8.0		Conductivity: 10		Turbidity.: Turbid ☐		Low ☒		
						Moderate ☐		Clear ☐		
MORPHOLOGY										
Bed Material: Dominant: Gravels		D95 (cm): 5.00		Bars: Non ☒		Side ☐		Diagonal ☐		
Subdominant: Cobble		D (cm): 2.00						Mid-channel ☐		
								Span ☐		
								Braid ☐		
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3				
Coupling: Decoupled										
Confinement: Unconfined										
Morphology: RP Riffle Pool										
COVER										
Total Cover: Abundant		Type: SWD LWD B U DP OV IV								
LWD: None		Amount: T N T S N D T								
LWD Dist: Not Applicable		Location: P/S/O: ☒ ☐ ☐ ☐ ☒ ☐ ☐ ☐ ☒ ☐ ☐ ☐								FSZ: ☐
Right Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure		
Left Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						1-20%		
Right Bank: Rip.Veg: Deciduous		Stage: Shrub/herb stage								
Left Bank: Rip.Veg:		Stage: Shrub/herb stage								
				Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☒						
FISH										
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)	
314	EF	1	220	312 sec	800	NFC	0			

FDIS Site Card

Morice North Planning Area

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

Reach # 5.0 ILP Map # 093L.025 ILP # 3618 Site 314

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.025 ILP #: 3618 NID Map #: 093L.025 NID #: 20314 Reach #: 5.0 Site #: 314
Field UTM (Z.E.N): 9.618242.6015129 Method: GPU Site Lg: 220 Method: GIS Access: H
GIS UTM (Z.E.N): 9.618224.6015218 Ref. Name:
Date: 2002/09/14 Time: 12:05 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	2.10	1.10	1.90	1.50	1.10	1.80					1.58	Method I:	0.5	1.5	C	1.25
Wetted Width (m):	MS	1.20	0.90	1.90	1.30	0.90	1.60					1.30	Method II:	2.0	1.0	C	
Pool Depth (m):	MS	0.30	0.20	0.30	0.10	0.10	0.10					0.18					

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	T	S	N	D	T
Loc: P/S/O:	☒	☐	☒	☒	☐	☒	☒

LWD: N DIST: NA

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: SHR

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: SHR

WATER

EMS: Req #: Temp: 8 Method: T4 Cond.: 10 Method: S3
pH: 8.0 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: 5.00 D (cm): 2.00 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	Moderate - abundant gravel in limited patches but seasonal stream flows.
OverWinter Habitat	None - due to shallow stream channel.
Rearing Habitat	Moderate - due to abundant shallow pool with abundant overvegetation, undercut banks and SWD cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 01 STD D			Downstream photo of typical habitat.
R: 91 F: 02 STD U			Upstream photo of typical habitat with cobble and SWD.

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
5.0	093L.025	3618	314

COMMENTS	
Section	Comments
CHANNEL	No barrier observed in overflight to Reach 3.
CHANNEL	Inferred S3 (NFC)

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.025 ILP # 3618

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.025				ILP #: 3618		Reach #: 5 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/14			To: 2002/09/14			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
314	093L.025	20314	9	618242	6015129	GPU EF 1	8	10	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
314	EF 1	1	2002/09/14	12:05	2002/09/14	12:20							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
314	EF 1	1	O	312	220.0	1.3	800	60	6	SMITH ROOT	12B		
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
314	EF 1	1	NFC			0							



Site #314, Downstream photo of typical habitat.
Roll #91, Frame #01, Date: 2002/09/14



Site #314, Upstream photo of typical habitat with cobble and SWD.
Roll #91, Frame #02, Date: 2002/09/14

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.025 3622

STREAM REFERENCING													
Gazetted Name:						Local Name:							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.025		ILP #: 3622					
REACH													
Reach #: 1.0		UTM(Zone/East/North): 9.617399.6015607				Sample Type: Biased							
Length (km): 1.07		Coupling: Decoupled		Magnitude: 1		BGC Zone: ESSF							
Gradient (%): 6.5		Confinement: Frequently Confin		Order: 1		Open water: Absent							
US Elev (m): 1177		Islands: NONE		Riparian Vegetation: Grass									
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified													
SITE													
Site #: 315		Field UTM 9.618228.6015111		Agency: C172		Crew: SG/SH		Date: 2002/09/14					
Site Length (m): 100		GIS UTM 9.618166.6015157		Agency Name: Triton Environmental Consultants (Terrace)									
CHANNEL													
No Vis.Ch.: ☒ Intermittent: ☐						Avg		Min		Max		#	
Dewatered: ☐ Tribes.: ☐						Channel Width (m): 0.00		0		0		0	
Stage: Low ☐						Wetted Width (m): 0.00		0		0		0	
Med ☐						Bankfull Depth (m): 0.00		0		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 ☐										Crown Closure	
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐											
Right Bank: Rip.Veg: Grass		Stage: Non-vegetated or initi											
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi										Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐	

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.025 ILP # 3622 Site 315

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.025 ILP #: 3622 NID Map #: 093L.025 NID #: 20315 Reach #: 1.0 Site #: 315
Field UTM (Z.E.N): 9.618228.6015111 Method: GPU Site Lg: 100 Method: GIS Access: H
GIS UTM (Z.E.N): 9.618166.6015157 Ref. Name:
Date: 2002/09/14 Time: 12:25 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):												0.00	Method I:	0.0	C	0.00
Wetted Width (m):												0.00	Method II:			
Pool Depth (m):												0.00				

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

COVER Total:

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

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: G

RIP: G

STG: INIT

STG: INIT

WATER

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

MORPHOLOGY

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

HABITAT QUALITY

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

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 03	STD	U	Upstream photo of No Visible Channel.

COMMENTS

Section	Comments
CHANNEL	No Channel observed for 100 m upstream on UTM.



Site #315, Upstream photo of No Visible Channel.
Roll #91, Frame #03, Date: 2002/09/14

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 4.0 ILP Map # 093L.025 ILP # 3618

STREAM REFERENCING																																	
Gazetted Name:					Local Name:																												
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.025		ILP #: 3618																										
REACH																																	
Reach #: 4.0		UTM(Zone/East/North): 9.618464.6014984				Sample Type: Biased																											
Length (km): 2.04		Coupling: Decoupled		Magnitude: 5		BGC Zone: ESSF																											
Gradient (%): 5.0		Confinement: Occasionally Conf		Order: 2		Open water: Present																											
US Elev (m): 1100		Islands: NONE		Riparian Vegetation: Grass																													
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																	
SITE																																	
Site #: 316		Field UTM 9.620010.6014731		Agency: C172		Crew: SG/SH		Date: 2002/09/14																									
Site Length (m): 290		GIS UTM 9.620001.6014790		Agency Name: Triton Environmental Consultants (Terrace)																													
CHANNEL																																	
No Vis.Ch.: ☐	Intermittent: ☐																																
Dewatered: ☐	Tribs.: ☐																																
Stage: Low ☐																																	
Med ☒																																	
High ☐																																	
Temp (C): 8		pH: 7.9		Conductivity: 20		Turbidity: Turbid ☐ Low ☐																											
						Moderate ☐ Clear ☒																											
MORPHOLOGY																																	
Bed Material: Dominant: Fines		D95 (cm): 0.05		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐		Braid ☐																									
Subdominant: Not Applicable		D (cm): 0.05																															
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS																													
Coupling: Decoupled				O1 B1 B2 B3 D1 D2 D3																													
Confinement: Unconfined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																													
Morphology: LC Large Channel																																	
COVER																																	
Total Cover: Abundant		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Type:</td> <td>SWD</td> <td>LWD</td> <td>B</td> <td>U</td> <td>DP</td> <td>OV</td> <td>IV</td> </tr> <tr> <td>Amount:</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>D</td> <td>T</td> <td>S</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:	N	N	N	S	D	T	S	Location: P/S/O:	☐	☐	☐	☒	☒	☒	☒
Type:	SWD	LWD	B	U	DP	OV	IV																										
Amount:	N	N	N	S	D	T	S																										
Location: P/S/O:	☐	☐	☐	☒	☒	☒	☒																										
LWD: None		FSZ: ☐																															
LWD Dist: Not Applicable																																	
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: Grass		Stage: Non-vegetated or initi		Crown Closure 1-20%																													
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi		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)																								
316	EF	1	290	280 sec	800	NFC	0																										

FDIS Site Card

Morice North Planning Area

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

Reach # 4.0 ILP Map # 093L.025 ILP # 3618 Site 316

PROJECT

Project Name: RFFHI within the Morice Forest District (Iribs 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:
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map #: 093L.025 ILP #: 3618 NID Map #: 093L.025 NID #: 20316 Reach #: 4.0 Site #: 316
Field UTM (Z.E.N): 9.620010.6014731 Method: GPU Site Lg: 290 Method: GIS Access: H
GIS UTM (Z.E.N): 9.620001.6014790 Ref. Name:
Date: 2002/09/14 Time: 12:47 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	1.10	0.80	0.80	1.30	1.20	1.50					1.12
Wetted Width (m):	MS	1.10	0.80	0.80	1.30	1.20	1.50					1.12
Pool Depth (m):	MS	0.60	0.80	0.60	0.60							0.65

	Gadient %		Mtd	Avg
Method I:	0.0	0.0	C	0.17
Method II:	0.5		C	

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

LWD: N DIST: NA

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: G

STG: INIT

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: G

STG: INIT

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 20 Method: S3
pH: 7.9 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: 0.05 D (cm): 0.05 Morph: LC 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	None - no gravels.
OverWinter Habitat	Good - due to deep pool habitat up to 0.8 m deep.
Rearing Habitat	Good - due to abundant deep pool and undercut bank morphology.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 04	STD	D	Downstream photo of typical habitat (LC morphology).
R: 91 F: 05	STD	U	Upstream photo of typical habitat (LC morphology).

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000	4.0	093L.025	3618	316

COMMENTS	
Section	Comments
SITE CARD	Sections of dispersed and discontinuous channel observed ~175 m upstream of confluence (poor access). No barriers observed from Reach 5 to Reach 3.
CHANNEL	Inferred S4 (NFC).

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.025 ILP # 3618

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.025				ILP #: 3618		Reach #: 4 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/14			To: 2002/09/14			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
316	093L.025	20316	9	620010	6014731	GPU	EF 1	8	20	C			
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
316	EF 1	1	2002/09/14	12:47	2002/09/14	13:05							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
316	EF	1	1	O	280	290.0	1.1	800	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
316	EF	1	1	NFC		0							



Site #316, Downstream photo of typical habitat (LC morphology).
Roll #91, Frame #04, Date: 2002/09/14



Site #316, Upstream photo of typical habitat (LC morphology).
Roll #91, Frame #05, Date: 2002/09/14

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.025	3620

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 # 1.0 ILP Map # 093L.025 ILP # 3620 Site 317

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.025 ILP #: 3620 NID Map #: 093L.025 NID #: 20317 Reach #: 1.0 Site #: 317
Field UTM (Z.E.N): .. Method: Site Lg: 175 Method: HC Access: H
GIS UTM (Z.E.N): 9.620108.6014697 Ref. Name:
Date: 2002/09/14 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	6.00	5.50	6.00	8.00	6.00	7.00					6.42	Method I:	0.0	0.0	C	0.17
Wetted Width (m):	MS	6.00	5.50	6.00	8.00	6.00	7.00					6.42	Method II:	0.5		C	
Pool Depth (m):	MS	1.50	2.00	1.70								1.73					

Wb Depth: 1.2 2.0 1.8 Avg: 1.67 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	N	T	D	T	S
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: 8 Method: T4 Req #: Cond.: 20 Method: S3
pH: 8.0 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: 0.05 D (cm): 0.05 Morph: LC 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	None - no gravel.
OverWinter Habitat	Good - abundant deep pools.
Rearing Habitat	Good - abundant deep pools with instream vegetation and undercut bank cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 06	STD	D	Downstream photo of flooded area with beaver dam.
R: 91 F: 07	STD	U	Upstream photo of flooded LC morphology.

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.025

ILP #3620

Site317

COMMENTS	
Section	Comments
CHANNEL	Area is ponded by beavers.
CHANNEL	Inferred (S2) NFC.

FDIS Fish Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.025 ILP # 3620

WATERBODY														
Gazetted Name:										Local:				
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0														
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000														
Waterbody ID:				ILP Map #: 093L.025				ILP #: 3620		Reach #: 1 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #:		145269		Date:		2002/09/14		To: 2002/09/14		Agency: C172		Crew: SG/SH Resample: ☐		
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment			
317	093L.025	20317				GPU	EF 1	7.5	20	L				
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
317	EF	1	1	2002/09/14	13:15	2002/09/14	13:45							
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
317	EF	1	1	O	259	175.0	2.0	800	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
317	EF	1	1	NFC		0								



Site #317, Downstream photo of flooded area with beaver dam.
Roll #91, Frame #06, Date: 2002/09/14



Site #317, Upstream photo of flooded LC morphology.
Roll #91, Frame #07, Date: 2002/09/14

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #
6.0 093L.025 3618

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.025		ILP #: 3618			
REACH											
Reach #: 6.0		UTM(Zone/East/North): 9.617502.6015808				Sample Type: Random					
Length (km): .86		Coupling: Decoupled		Magnitude: 2		BGC Zone: ESSF					
Gradient (%): 8.3		Confinement: Frequently Confin		Order: 2		Open water: Absent					
US Elev (m): 1184		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 318		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/14			
Site Length (m): 100		GIS UTM 9.618044.6015316		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☒		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes: ☐		Channel Width (m):		0.00		0		0	
Stage: Low ☐				Wetted Width (m):		0.00		0		0	
Med ☐				Bankfull Depth (m):		0.00		0		0	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity: Turbid ☐ Low ☐			
								Moderate ☐ Clear ☐			
MORPHOLOGY											
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant:		D (cm):								Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1		B2	
Coupling:				INDICATORS		☐		☐		☐	
Confinement:				C1		C2		C3		C4	
Morphology:				S1		S2		S3		S4	
				☐		☐		☐		☐	
COVER											
Total Cover:		Type:		SWD		LWD		B		U	
LWD:		Amount:									
LWD Dist:		Location: P/S/O:		☐		☐		☐		☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest									
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi						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.025 ILP # 3618 Site 318

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.025 ILP #: 3618 NID Map #: 093L.025 NID #: 20318 Reach #: 6.0 Site #: 318
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N): 9.618044.6015316 Ref. Name:
Date: 2002/09/14 Time: 12:35 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):												0.00	Method I:	0.0	1.0	C	0.50
Wetted Width (m):												0.00	Method II:				
Pool Depth (m):												0.00					

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

COVER

Total:

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

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: G

RIP: C

STG: INIT

STG: MF

WATER

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

MORPHOLOGY

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

HABITAT QUALITY

Name	Comments
Other	No fish habitat due to No Visible Channel.
COMMENTS	
Section	Comments
SITE CARD	No photos taken.
CHANNEL	No Visible Channel observed upstream of the confluence of 3618 and 3623 for 65 m.

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.034 3042

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.034		ILP #: 3042		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.616109.6023471				Sample Type: Biased			
Length (km): .61		Coupling: Coupled		Magnitude: 3		BGC Zone: ESSF			
Gradient (%): 11.0		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 1635		Islands: NONE		Riparian Vegetation: NONE					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 319		Field UTM 9.616224.6023158		Agency: C172		Crew: SG/SH		Date: 2002/09/14	
Site Length (m): 155		GIS UTM 9.616290.6023097		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐ Intermittent: ☐						Avg		Min	
Dewatered: ☐ Tribs.: ☐						Max		#	
Stage: Low ☒		Channel Width (m): 1.42				1		1.8	
Med ☐		Wetted Width (m): 1.33				1		1.8	
High ☐		Bankfull Depth (m): 0.20				0.2		0.2	
Temp (C): 9		pH: 7.6		Conductivity: 20		Avg		Min	
						Max		#	
						Gradient %: 14.00		11	
						Pool Depth (m): 0.19		0.100	
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 17.00		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐		Braid ☐	
Subdominant: Gravels		D (cm): 11.00							
Channel Pattern: Sinuous		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: Trace		Type: SWD LWD B U DP OV IV							
LWD: None		Amount: N N D S N N N							
LWD Dist: Not Applicable		Location: P/S/O: ☐ ☐ ☒ ☐ ☒ ☐ ☐ ☐ ☐						FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						0%	
Right Bank: Rip.Veg: None		Stage:							
Left Bank: Rip.Veg:		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)
319	EF	1	155	135 sec	1000	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.034 ILP # 3042 Site 319

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.034 ILP #: 3042 NID Map #: 093L.034 NID #: 20319 Reach #: 2.0 Site #: 319
Field UTM (Z.E.N): 9.616224.6023158 Method: GPU Site Lg: 155 Method: MAP Access: H
GIS UTM (Z.E.N): 9.616290.6023097 Ref. Name:
Date: 2002/09/14 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	1.50	1.30	1.80	1.00	1.40	1.50					1.42	Method I:	11.0	15.0	C	14.00
Wetted Width (m):	MS	1.40	1.10	1.80	1.00	1.30	1.40					1.33	Method II:	18.0	12.0	C	
Pool Depth (m):	MS	0.20	0.25	0.20	0.10							0.19					

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:	☐	☐	☒	☒	☐	☐	☐

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: 9 Method: T4 Req #: Cond.: 20 Method: S3
pH: 7.6 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: 17.0 D (cm): 11.00 Morph: SP 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 ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - no suitable gravel or locations.
OverWinter Habitat	None - no pools >0.2 m deep.
Rearing Habitat	Poor - due to limited pool habitat and depth (continuous riffle/run).

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 10 STD D			Downstream photo of typical habitat.
R: 91 F: 11 STD U			Upstream photo of typical habitat.
R: 91 F: 12 STD U			Upstream photo of lower gradient.

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.034	3042	319

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	91	F:	13	STD	X	Landscape photo.
COMMENTS						
Section			Comments			
CHANNEL			S6, barrier downstream.			

FDIS Fish Card

Morice North Planning Area

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

Reach # 2.0 ILP Map # 093L.034 ILP # 3042

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.034				ILP #: 3042		Reach #: 2 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/14			To: 2002/09/14			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
319	093L.035	20319	9	616224	6023158	GPU EF 1	9	20	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
319	EF	1	2002/09/14	14:00	2002/09/14	14:20							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
319	EF	1	1	O	135	155.0	1.4	1000	60	6	SMITH ROOT 12B		
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
319	EF	1	1	NFC		0							



Site #319, Downstream photo of typical habitat.
Roll #91, Frame #10, Date: 2002/09/14



Site #319, Upstream photo of typical habitat.
Roll #91, Frame #11, Date: 2002/09/14



Site #319, Upstream photo of lower gradient.
Roll #91, Frame #12, Date: 2002/09/14



Site #319, Landscape photo.
Roll #91, Frame #13, Date: 2002/09/14

Morice North Planning Area

Reach #	ILP Map #	ILP #
4.0	093L.035	3259

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 # 4.0 ILP Map # 093L.035 ILP # 3259 Site 320

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.035 ILP #: 3259 NID Map #: 093L.034 NID #: 20320 Reach #: 4.0 Site #: 320
Field UTM (Z.E.N): ... Method: Site Lg: 190 Method: GIS Access: H
GIS UTM (Z.E.N): 9.616438.6022859 Ref. Name:
Date: 2002/09/14 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	1.30	2.00	1.10	1.50	0.90	0.80					1.27	Method I:	23.0	29.0	C	25.00
Wetted Width (m):	MS	0.90	0.60	0.90	0.90	0.80	0.80					0.82	Method II:	26.0	22.0	C	
Pool Depth (m):	MS	0.20	0.30	0.20	0.10	0.10	0.10					0.17					

Wb Depth: .0 .1 .1 Avg: 0.07 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: 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: 9 Method: T4 Req #: Cond.: 20 Method: S3
pH: 7.6 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 27.0 D (cm): 10.00 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 ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - no suitable gravels.
OverWinter Habitat	None - no pools.
Rearing Habitat	None - high gradient stream with no pools or refuge habitat.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 08 STD D			Downstream photo through cascades.
R: 91 F: 09 STD U			Upstream photo through cascades.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
4.0	093L.035	3259	320

COMMENTS	
Section	Comments
CHANNEL	Potential Barrier downstream.
CHANNEL	Inferred S4 (NFC).

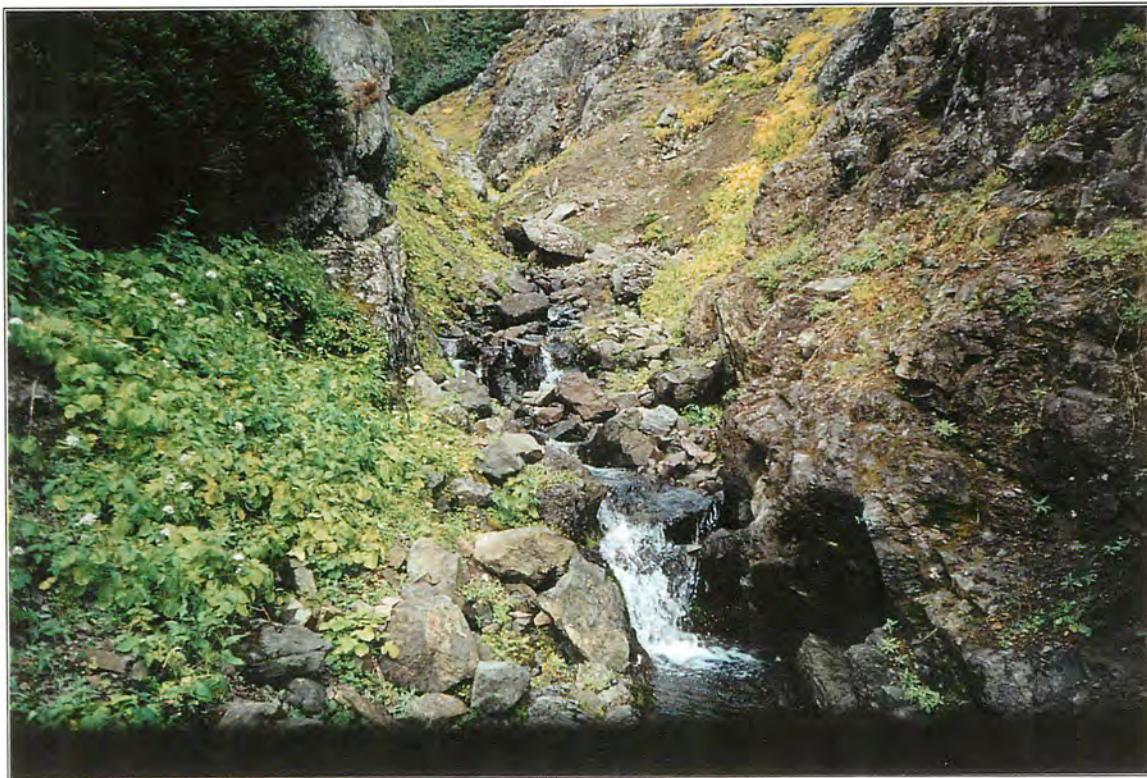
Morice North Planning Area

Reach #	ILP Map #	ILP #
4.0	093L.035	3259

Triton Environmental Consultants Ltd.



Site #320, Downstream photo through cascades.
Roll #91, Frame #08, Date: 2002/09/14



Site #320, Upstream photo through cascades.
Roll #91, Frame #09, Date: 2002/09/14

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.035 3315

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3315		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.618748.6025646				Sample Type: Random			
Length (km): 1.16		Coupling: Partially Couple		Magnitude: 6		BGC Zone: ESSF			
Gradient (%): 2.1		Confinement: Occasionally Conf		Order: 3		Open water: Absent			
US Elev (m): 1163		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 321		Field UTM 9.618920.6025070		Agency: C172		Crew: SG/SH		Date: 2002/09/14	
Site Length (m): 110		GIS UTM 9.618941.6025007		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.28		1.200	
Stage: Low ☐				Wetted Width (m):		1.18		1.100	
Med ☒				Bankfull Depth (m):		0.20		0.2	
High ☐		Temp (C): 8		pH: 7.6		Conductivity: 60			
								Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 16.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 12.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Partially Coupled						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: Moderate		Type: SWD		LWD		B		U	
LWD: None		Amount: T		N		S		T	
LWD Dist: Not Applicable		Location: P/S/O: ☒		☐		☒		☒	
								FSZ: ☐	
Right Bank: Shape: Sloping (g		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Young forest		Rock ☐		Manmade ☐		Crown Closure	
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)
321	EF	1	110	152 sec	800	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 2.0 ILP Map # 093L.035 ILP # 3315 Site 321

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.035 ILP #: 3315 NID Map #: 093L.035 NID #: 20321 Reach #: 2.0 Site #: 321
Field UTM (Z.E.N): 9.618920.6025070 Method: GPU Site Lg: 110 Method: GIS Access: H
GIS UTM (Z.E.N): 9.618941.6025007 Ref. Name:
Date: 2002/09/14 Time: 15:30 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	1.40	1.20	1.40	1.30	1.20	1.20					1.28
Wetted Width (m):	MS	1.30	1.20	1.10	1.20	1.20	1.10					1.18
Pool Depth (m):	MS	0.20	0.15	0.20	0.10							0.16

	Gadient %		Mtd	Avg
Method I:	2.0	2.0	C	2.00
Method II:	2.0		C	

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

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: N DIST: NA

LB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: YF

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: YF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 60 Method: S3
pH: 7.6 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: 16.0 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 ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - limited gravels.
OverWinter Habitat	None - due to lack of pool habitat and seasonal stream flows.
Rearing Habitat	Poor - limited by lack of pool and run depths.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 14	STD	D	Downstream photo of typical habitat.
R: 91 F: 15	STD	U	Upstream photo of typical habitat.

FDIS Site Card

Morice North Planning Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000	2.0	093L.035	3315	321

COMMENTS	
Section	Comments
CHANNEL	Inferred S4 (NFC).

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.035
ILP # 3315

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.035				ILP #: 3315		Reach #: 2 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #:		145269		Date:		2002/09/14		To:		2002/09/14		Agency: C172		
								Crew: SG/SH				Resample: ☐		
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
321	093L.035	20321	9	618920	6025070	GPU	EF	1	8	60	C			
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
321	EF	1	1	2002/09/14	15:30	2002/09/14	16:00							
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
321	EF	1	1	O	152	110.0	1.1	800	60	6	SMITH	12B		
											ROOT			
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
321	EF	1	1	NFC		0								



Site #321, Downstream photo of typical habitat.
Roll #91, Frame #14, Date: 2002/09/14



Site #321, Upstream photo of typical habitat.
Roll #91, Frame #15, Date: 2002/09/14

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3315

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3315		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.619000.6024585				Sample Type: Random			
Length (km): .88		Coupling: Partially Couple		Magnitude: 11		BGC Zone: ESSF			
Gradient (%): 6.6		Confinement: Frequently Confin		Order: 4		Open water: Absent			
US Elev (m): 1139		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 322		Field UTM 9.619130.6024109		Agency: C172		Crew: SG/SH		Date: 2002/09/14	
Site Length (m): 600		GIS UTM 9.619132.6024107		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		2.47		1.9	
Stage: Low ☐				Wetted Width (m):		1.52		0.800	
Med ☒				Bankfull Depth (m):		0.43		0.3	
High ☐		Temp (C): 8		pH: 7.6		Conductivity: 60			
								Turbidity.: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 17.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 6.00				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: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		S		T	
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: Coniferous		Stage: Young forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Young 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)
322	EF	1	450	495 sec	800	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3315 Site 322

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.035 ILP #: 3315 NID Map #: 093L.035 NID #: 20322 Reach #: 1.0 Site #: 322
Field UTM (Z.E.N): 9.619130.6024109 Method: GPU Site Lg: 600 Method: MAP Access: H
GIS UTM (Z.E.N): 9.619132.6024107 Ref. Name:
Date: 2002/09/14 Time: 16:00 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	1.90	2.20	2.50	2.80	2.60	2.80					2.47	Method I:	10.0	9.0	C	9.67
Wetted Width (m):	MS	1.20	0.80	1.10	2.00	2.10	1.90					1.52	Method II:	10.0		C	
Pool Depth (m):	MS	0.20	0.30		0.10	0.20	0.30					0.22					

Wb Depth: .3 .4 .6 Avg: 0.43 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	S	T	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: YF

RB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: YF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 60 Method: S3
pH: 7.6 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 17.0 D (cm): 6.00 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	None - no gravel.
OverWinter Habitat	None - no pools suitable for overwintering fish were observed.
Rearing Habitat	Moderate - due to abundant boulder cover in shallow runs and pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 16	STD	D	Downstream photo of typical habitat.
R: 91 F: 17	STD	U	Upstream photo of typical habitat.

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.035	3315	322

COMMENTS	
Section	Comments
CHANNEL	Inferred S3 (NFC).

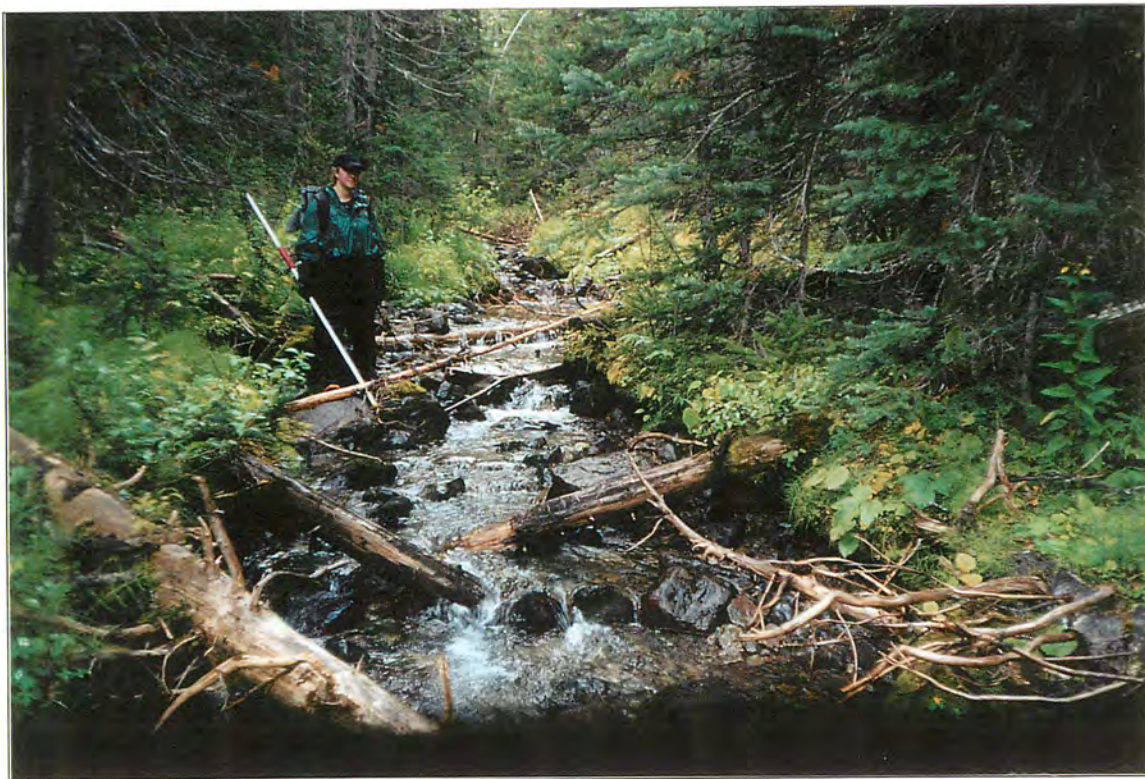
Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.035	3315

Triton Environmental Consultants Ltd.



Site #322, Downstream photo of typical habitat.
Roll #91, Frame #16, Date: 2002/09/14



Site #322, Upstream photo of typical habitat.
Roll #91, Frame #17, Date: 2002/09/14

Morice North Planning Area

1.0	093L.026	3723
-----	----------	------

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 # 1.0 ILP Map # 093L.026 ILP # 3723 Site 323

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.026 ILP #: 3723 NID Map #: 093L.026 NID #: 20323 Reach #: 1.0 Site #: 323
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: GIS Access: H
GIS UTM (Z.E.N): 9.630429.6011343 Ref. Name:
Date: 2002/09/17 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	0.80	0.60	1.20	0.80	0.60	0.80					0.80	Method I:	0.0	0.0	C	0.17
Wetted Width (m):	MS	0.80	0.60	1.20	0.80	0.60	0.80					0.80	Method II:	0.5		C	
Pool Depth (m):	MS	0.05	0.05	0.10	0.15							0.09					

Wb Depth: .1 .2 .1 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	N	N	N	N	D	N
Loc: P/S/O:	☒	☐	☐	☐	☐	☒	☐

LWD: N DIST: NA

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

3 41-70%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 7 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: F Subdom: NA O1 B1 B2 B3 D1 D2 D3
D95: 0.05 D (cm): 0.05 Morph: LC 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- no gravels.
OverWinter Habitat	None - no pools.
Rearing Habitat	Poor - limited pool depths and very shallow (5 cm mean) depths.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 90 F: 01	STD	D	Downstream photo of site.
R: 90 F: 02	STD	U	Upstream photo of site.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
1.0	093L.026	3723	323

COMMENTS	
Section	Comments
CHANNEL	Inferred S4 (NFC).
CHANNEL	Stream becomes NCD UTM 9 630503 6011179.

FDIS Fish Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.026 ILP # 3723

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.026			ILP #: 3723		Reach #: 1 -				
Project ID: 5270			Lake/Stream: S			Lake From Date:						
Fish Permit #: 145269		Date: 2002/09/17		To: 2002/09/17		Agency: C172		Crew: SG/SH		Resample: ☐		
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
323	093L.026	20323				GPU EF 1	7	50	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
323	EF 1	1	2002/09/17	09:45	2002/09/17	09:59						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
323	EF 1	1	O	112	160.0	0.8	700	60	6	SMITH ROOT	12B	
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
323	EF 1	1	NFC			0						



Site #323, Downstream photo of site.
Roll #90, Frame #01, Date: 2002/09/17



Site #323, Upstream photo of site.
Roll #90, Frame #02, Date: 2002/09/17

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #
2.0 093L.036 3559

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3559		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.630177.6019449				Sample Type: Biased			
Length (km): .45		Coupling: Partially Couple		Magnitude: 1		BGC Zone: ESSF			
Gradient (%): 5.8		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 971		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 324		Field UTM 9.629852.6020456		Agency: C172		Crew: SG/SH		Date: 2002/09/17	
Site Length (m): 218		GIS UTM 9.629861.6020533		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.68		0.200		1.100	
Stage: Low ☐				Wetted Width (m): 0.63		0.200		1	
Med ☒				Bankfull Depth (m): 0.10		0.1		0.1	
High ☐									
Temp (C): 6		pH: 8.5		Conductivity: 70					
				Avg		Min		Max	
				Gradient %: 4.25		4		5	
				Pool Depth (m): 0.25		0.200		0.300	
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 6.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 0.05				Mid-channel ☐		Span ☐	
Channel Pattern: Straight		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: SP Step Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		N		D	
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: Coniferous		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)
324	EF	1	200	218 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 # 2.0 ILP Map # 093L.036 ILP # 3559 Site 324

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
Local Name: ILP Map #: 093L.036 ILP #: 3559 NID Map #: 093L.035 NID #: 20324 Reach #: 2.0 Site #: 324
Field UTM (Z.E.N): 9.629852.6020456 Method: GPU Site Lg: 218 Method: GIS Access: H
GIS UTM (Z.E.N): 9.629861.6020533 Ref. Name:
Date: 2002/09/17 Time: 10:00 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	0.40	1.00	0.20	0.80	0.60					0.68	Method I:	4.0	4.0	C 4.25
Wetted Width (m):	MS	0.80	0.40	1.00	0.20	0.80	0.60					0.63	Method II:	5.0	4.0	C
Pool Depth (m):	MS	0.25	0.30	0.20	0.25							0.25				

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	N	D	N	T	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: 6 Method: T4 Req #: Cond.: 70 Method: S3
pH: 8.5 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 6.00 D (cm): 0.05 Morph: SP DISTURBANCE INDICATORS
Pattern: ST 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
Spawning Habitat	None - no gravels.
OverWinter Habitat	None - no pools.
Rearing Habitat	Poor - due to shallow water depth and limited cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 90 F: 03	STD	D	Downstream photo of typical habitat upstream of barrier.
R: 90 F: 04	STD	U	Upstream photo of typical habitat upstream of barrier.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	2.0	093L.036	3559	324

COMMENTS	
Section	Comments
CHANNEL	Gradient barrier UTM 9 629985, 6020308, 23 to 26% for 132 m.
CHANNEL	S4*/S6

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.036 ILP # 3559

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3559		Reach #: 2 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/17			To: 2002/09/17			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
324	093L.035	20324				GPU EF 1	6	70	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
324	EF	1	2002/09/17	10:00	2002/09/17	10:30							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
324	EF	1	1	O	218	200.0	0.8	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
324	EF	1	1	NFC		0							



Site #324, Downstream photo of typical habitat upstream of barrier.
Roll #90, Frame #03, Date: 2002/09/17



Site #324, Upstream photo of typical habitat upstream of barrier.
Roll #90, Frame #04, Date: 2002/09/17

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 7.0 ILP Map # 093L.026 ILP # 3695

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3695		
REACH									
Reach #: 7.0		UTM(Zone/East/North): 9.630611.6021311				Sample Type: Biased			
Length (km): .29		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 4.1		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 1204		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 325		Field UTM 9.630562.6021026		Agency: C172		Crew: SG/SH		Date: 2002/09/17	
Site Length (m): 180		GIS UTM 9.630603.6021130		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐	Intermittent: ☐								
Dewatered: ☐	Tribs.: ☐								
Stage: Low ☒		Avg		Min		Max		#	
Med ☐		Channel Width (m): 0.88		0.600		1.200		6	
High ☐		Wetted Width (m): 0.63		0.400		1.200		6	
Temp (C): 7		Bankfull Depth (m): 0.20		0.2		0.2		3	
pH: 8.6									
Conductivity: 50									
Turbidity: Turbid ☐								Low ☐	
Moderate ☐								Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 1.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		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: 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		T		N		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: Coniferous		Stage: Mature forest						Manmade ☐	
Left Bank: Rip.Veg:		Stage: Mature forest						Crown Closure 1-20%	
								Instream Veg: None ☐	
								Algae ☐	
								Moss ☒	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
325	EF	1	180	420 sec	600	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 7.0 ILP Map # 093L.026 ILP # 3695 Site 325

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000
ILP Map #: 093L.026 ILP #: 3695 NID Map #: 093L.036 NID #: 20325 Reach #: 7.0 Site #: 325
Field UTM (Z.E.N): 9.630562.6021026 Method: GPU Site Lg: 180 Method: GIS Access: H
GIS UTM (Z.E.N): 9.630603.6021130 Ref. Name:
Date: 2002/09/17 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	1.10	1.20	1.00	0.60	0.80	0.60					0.88	Method I:	6.0	4.5	C	4.50
Wetted Width (m):	MS	0.80	1.20	0.60	0.40	0.40	0.40					0.63	Method II:	3.0		C	
Pool Depth (m):	MS	0.15	0.25	0.15	0.10							0.16					

Wb Depth: .2 .2 .2 Avg: 0.20 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	N	T	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: Temp: 7 Method: T4 Req #: Cond.: 50 Method: S3
pH: 8.6 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: 1.00 D (cm): 0.50 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 - very limited gravels under fine material substrate.
Overwinter Habitat	None - no pools greater than 0.25 m deep.
Rearing Habitat	Moderate - abundant undercut banks and SWD cover in shallow pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 90 F: 05 STD		D	Downstream photo of typical habitat with book.
R: 90 F: 06 STD		U	Upstream photo of typical habitat.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
7.0	093L.026	3695	325

C O M M E N T S	
Section	Comments
CHANNEL	Gradient barrier - UTM 9 630584 6020747 top of 22% gradient section for 32 m (in Reach 5).
CHANNEL	S6 (NFC).

Morice North Planning Area

Watershed Code:		Reach #	ILP Map #	ILP #
000-000000-00000-00000-0000-000-000-000-000-000-000		7.0	093L-026	3695

Triton Environmental Consultants Ltd.



Site #325, Downstream photo of typical habitat with book.
Roll #90, Frame #05, Date: 2002/09/17



Site #325, Upstream photo of typical habitat.
Roll #90, Frame #06, Date: 2002/09/17

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.036 ILP # 3561

STREAM REFERENCING																																														
Gazetted Name:						Local Name:																																								
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.036		ILP #:		3561																																				
REACH																																														
Reach #: 1.0		UTM(Zone/East/North): 9.630264.6021374				Sample Type: Blased																																								
Length (km): .63		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS																																								
Gradient (%): 10.3		Confinement: Occasionally Conf		Order: 1		Open water: Absent																																								
US Elev (m): 1255		Islands: NONE		Riparian Vegetation: Grass																																										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																														
SITE																																														
Site #: 326		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/17																																						
Site Length (m): 100		GIS UTM 9.630529.6021071		Agency Name: Triton Environmental Consultants (Terrace)																																										
CHANNEL																																														
No Vis.Ch.: ☒		Intermittent: ☐		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Wetted Width (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Bankfull Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Avg	Min	Max	#	Channel Width (m):	0.00	0	0	0	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.00	0	0	0	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Avg</th> <th>Min</th> <th>Max</th> <th>#</th> </tr> </thead> <tbody> <tr> <td>Gradient %:</td> <td>0.50</td> <td>0.5</td> <td>0.5</td> <td>1</td> </tr> <tr> <td>Pool Depth (m):</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>					Avg	Min	Max	#	Gradient %:	0.50	0.5	0.5	1	Pool Depth (m):	0.00	0	0	0
	Avg	Min	Max	#																																										
Channel Width (m):	0.00	0	0	0																																										
Wetted Width (m):	0.00	0	0	0																																										
Bankfull Depth (m):	0.00	0	0	0																																										
	Avg	Min	Max	#																																										
Gradient %:	0.50	0.5	0.5	1																																										
Pool Depth (m):	0.00	0	0	0																																										
Dewatered: ☐		Tribes: ☐						Turbidity: Turbid ☐ Low ☐ Moderate ☐ Clear ☐																																						
Stage: Low ☐		Temp (C):		pH:		Conductivity:																																								
Med ☐																																														
High ☐																																														
MORPHOLOGY																																														
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐		Mid-channel ☐																																				
Subdominant:		D (cm):								Span ☐																																				
Channel Pattern:		Islands:		DISTURBANCE INDICATORS <table style="width:100%; text-align: center;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>								O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐																					
O1	B1	B2	B3	D1	D2	D3																																								
☐	☐	☐	☐	☐	☐	☐																																								
Coupling:				<table style="width:100%; text-align: center;"> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td><td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>								C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐															
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																					
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																					
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:																												
Type:	SWD	LWD	B	U	DP	OV	IV																																							
Amount:																																														
LWD:		Location: P/S/O: ☐ ☐ ☐								FSZ: ☐																																				
LWD Dist:																																														
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																				
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐																																				
Right Bank: Rip.Veg: Grass		Stage: Non-vegetated or initi																																												
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi		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.036 ILP # 3561 Site 326

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3561 NID Map #: 093L.036 NID #: 20326 Reach #: 1.0 Site #: 326
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N): 9.630529.6021071 Ref. Name:
Date: 2002/09/17 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):												0.00	Method I:	0.5	C	0.50
Wetted Width (m):												0.00	Method II:			
Pool Depth (m):												0.00				

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

COVER

Total:

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

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: G

RIP: G

STG: INIT

STG: INIT

WATER

EMS: Req #: Method: Method:
Temp: Cond.: Method:
pH: 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 ☐

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 90 F: 07 STD U			Upstream photo of wetland with No Visible Channel.
R: 90 F: 08 STD D			Downstream photo of wetland type habitat - No Visible Channel.

COMMENTS

Section	Comments
CHANNEL	No Visible channel observed for 100m upstream of potential confluence with 3695.



Site #326, Upstream photo of wetland with No Visible Channel.
Roll #90, Frame #07, Date: 2002/09/17



Site #326, Downstream photo of wetland type habitat - No Visible Channel.
Roll #90, Frame #08, Date: 2002/09/17

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #
6.0 093L.036 3477

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3477		
REACH									
Reach #: 6.0		UTM (Zone/East/North): 9.625837.6026418				Sample Type: Biased			
Length (km): .37		Coupling: Partially Couple		Magnitude: 7		BGC Zone: AT			
Gradient (%): 4.6		Confinement: Unconfined		Order: 2		Open water: Absent			
US Elev (m): 1584		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 327		Field UTM 9.625894.6026434		Agency: C172		Crew: SG/SH		Date: 2002/09/17	
Site Length (m): 270		GIS UTM 9.625916.6026421		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 3.33		2.3		4.1	
Stage: Low ☒				Wetted Width (m): 2.77		1.5		3.400	
Med ☐				Bankfull Depth (m): 0.47		0.2		0.7	
High ☐		Temp (C): 6		pH: 8.3		Conductivity: 20		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 10.00		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 4.00						Mid-channel ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		☐		☐	
Confinement: Unconfined				C1		C2		C3	
Morphology: RP Riffle Pool				☐		☐		☐	
				C4		C5		S1	
				☐		☐		☐	
				S2		S3		S4	
				☐		☐		☐	
				S5		☐		☐	
				☐		☐		☐	
COVER									
Total Cover: Trace		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		D		S	
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)
327	EF	1	270	546 sec	1000	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.036 ILP # 3477 Site 327

PROJECT																																					
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																											
Stream Name (gaz.): BULKLEY RIVER																																					
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																					
WATERSHED																																					
Gazetted Name:										Local Name:																											
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																					
ILP Map #: 093L.036		ILP #: 3477		NID Map #: 093L.035		NID #: 20327		Reach #: 6.0		Site #: 327																											
Field UTM (Z.E.N): 9.625894.6026434				Method: GPU		Site Lg: 270		Method: HC		Access: H																											
GIS UTM (Z.E.N): 9.625916.6026421						Ref. Name:																															
Date: 2002/09/17		Time: 12:30		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	2.30	3.70	4.10	3.40	3.20	3.30					3.33																									
Wetted Width (m):	MS	1.50	2.20	3.40	3.40	3.10	3.00					2.77																									
Pool Depth (m):	MS	0.25	0.15	0.20	0.10							0.18																									
													<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>3.0</td> <td>4.0</td> <td>C</td> <td>3.13</td> </tr> <tr> <td>Method II:</td> <td>2.5</td> <td>3.0</td> <td>C</td> <td></td> </tr> </tbody> </table>			Gadient %	Mtd	Avg	Method I:	3.0	4.0	C	3.13	Method II:	2.5	3.0	C										
		Gadient %	Mtd	Avg																																	
Method I:	3.0	4.0	C	3.13																																	
Method II:	2.5	3.0	C																																		
Wb Depth:		.2	.7	.5	Avg: 0.47		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																										
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>N</td> <td>N</td> <td>D</td> <td>S</td> <td>N</td> <td>T</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table> 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														Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	N	N	D	S	N	T	N	Loc: P/S/O:	☐	☐	☒	☒	☐	☒	☐
Type:	SWD	LWD	B	U	DP	OV	IV																														
Amount:	N	N	D	S	N	T	N																														
Loc: P/S/O:	☐	☐	☒	☒	☐	☒	☐																														
WATER																																					
EMS:				Method: T4				Req #:				Method: S3																									
Temp: 6				Method: P2				Cond.: 20				Method: GE																									
pH: 8.3				Method: GE				Turb.: T ☐ M ☐ L ☐ C ☒																													
Flood Signs: None																																					
MORPHOLOGY																																					
Bed Material:		Dominant: C		Subdom: G		O1		B1		B2		B3																									
D95: 10.0		D (cm): 4.00		Morph: RP		☐		☐		☒		☐																									
Pattern: IR						C1		C2		C3		C4																									
Islands: N						☐		☐		☐		☐																									
Coupling: DC						C5		S1		S2		S3																									
Confinement: UN						☐		☐		☐		☐																									
FSZ: ☐						S4		S5																													
						☐		☐		☐		☐																									
Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☒																																					
HABITAT QUALITY																																					
Name		Comments																																			
Spawning Habitat		None - no gravel.																																			
OverWinter Habitat		None - no pools.																																			
Rearing Habitat		Moderate in small shallow pools behind boulders.																																			
PHOTOS																																					
Photo		Foc Lg		Dir		Comments																															
R: 90	F: 09	STD		D		Downstream photo of typical alpine habitat.																															
R: 90	F: 10	STD		U		Upstream photo of typical alpine habitat.																															
R: 90	F: 11	STD		D		Downstream photo of alpine stream with eroded bank.																															

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.036	3477	327

PHOTOS				
Photo		Foc Lg	Dir	Comments
R:	90	F:	12	STD U Upstream photo through riffle pool section.
COMMENTS				
Section		Comments		
CHANNEL		Wide and lamina flow. Braided channel.		
CHANNEL		S5 (NFC barriers downstream).		

FDIS Fish Card

Morice North Planning Area

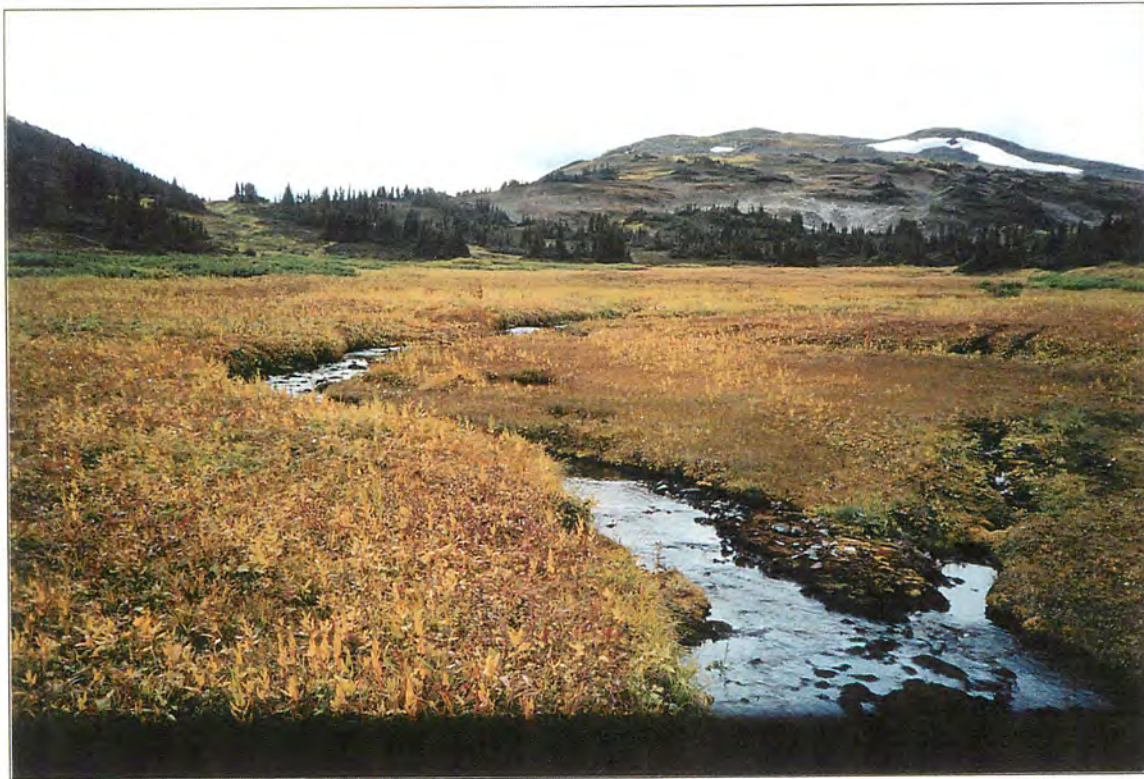
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 6.0 ILP Map # 093L.036 ILP # 3477

WATERBODY														
Gazetted Name:						Local:								
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0														
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000														
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3477		Reach #: 6 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/17			To: 2002/09/17			Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
327	093L.035	20327				GPU EF 1	5.5	20	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
327	EF 1	1	2002/09/17	12:30	2002/09/17	12:50								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
327	EF	1	1	O	546	270.0	3.0	1000	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
327	EF	1	1	NFC		0								



Site #327, Downstream photo of typical alpine habitat.
Roll #90, Frame #09, Date: 2002/09/17



Site #327, Upstream photo of typical alpine habitat.
Roll #90, Frame #10, Date: 2002/09/17



Site #327, Downstream photo of alpine stream with eroded bank.
Roll #90, Frame #11, Date: 2002/09/17



Site #327, Upstream photo through riffle pool section.
Roll #90, Frame #12, Date: 2002/09/17

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3122

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3122		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.625948.6026952				Sample Type: Biased			
Length (km): .41		Coupling: Coupled		Magnitude: 3		BGC Zone: AT			
Gradient (%): 25.6		Confinement: Frequently Confin		Order: 2		Open water: Absent			
US Elev (m): 1626		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 328		Field UTM 9.626255.6026935		Agency: C172		Crew: SG/SH		Date: 2002/09/17	
Site Length (m): 175		GIS UTM 9.626225.6026893		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.62		1.3		1.8	
Stage: Low ☐				Wetted Width (m): 1.62		1.3		1.8	
Med ☒				Bankfull Depth (m): 0.20		0.2		0.2	
High ☐		Temp (C): 5		pH: 8.1		Conductivity: 20			
						Turbidity.: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 19.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 6.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: 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: Trace		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		D		S	
LWD Dist: Not Applicable		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: Shrubs				Stage: Non-vegetated or initi		Rock ☐		Manmade ☐	
Left Bank: Rip.Veg:				Stage: Non-vegetated or initi		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)
328	EF	1	175	287 sec	1000	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3122 Site 328

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-00000-00000-000-000-000-000-000-000
ILP Map#: 093L.035 ILP #: 3122 NID Map #: 093L.035 NID #: 20238 Reach #: 1.0 Site #: 328
Field UTM (Z.E.N): 9.626255.6026935 Method: GPU Site Lg: 175 Method: GIS Access: H
GIS UTM (Z.E.N): 9.626225.6026893 Ref. Name:
Date: 2002/09/17 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	1.60	1.60	1.80	1.70	1.70	1.30					1.62	Method I:	10.0	10.0	C	11.00
Wetted Width (m):	MS	1.60	1.60	1.80	1.70	1.70	1.30					1.62	Method II:	13.0		C	
Pool Depth (m):	MS	0.15	0.10	0.15	0.15							0.14					

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:	☐	☐	☒	☒	☐	☐	☐

LWD: N

DIST: NA

LB SHP: S

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: G

STG: INIT

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: S

STG: INIT

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 20 Method: S3
pH: 8.1 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 19.0 D (cm): 6.00 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 - due to limited cover and shallow water depths.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 90 F: 13 STD		D	Downstream photo of typical habitat.
R: 90 F: 14 STD		U	Upstream photo of typical habitat.
R: 90 F: 15 STD		U	Upstream photo at confluence, 38% cascade 9 x 12 m.

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.035	3122	328

COMMENTS	
Section	Comments
CHANNEL	S6 (NFC), Barrier downstream.

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.035 ILP # 3122

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.035		ILP #: 3122		Reach #: 1 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/17		To:		2002/09/17		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO	Temp	Cond	Turbid	Comment						
328	093L.035	20328					GPU EF 1	5	20	C							
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
328	EF	1	2002/09/17	13:15	2002/09/17	13:35											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
328	EF	1	1	O	287	175.0	1.7	1000	60	6	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
328	EF	1	1	NFC		0											



Site #328, Downstream photo of typical habitat.
Roll #90, Frame #13, Date: 2002/09/17



Site #328, Upstream photo of typical habitat.
Roll #90, Frame #14, Date: 2002/09/17



Site #328, Upstream photo at confluence, 38% cascade 9 x 12 m.
Roll #90, Frame #15, Date: 2002/09/17

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 5.0 ILP Map # 093L.036 ILP # 3477

STREAM REFERENCING																																	
Gazetted Name:					Local Name:																												
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.036		ILP #: 3477																										
REACH																																	
Reach #: 5.0		UTM(Zone/East/North): 9.626049.6026672				Sample Type: Biased																											
Length (km): 1.07		Coupling: Coupled		Magnitude: 13		BGC Zone: AT																											
Gradient (%): 6.0		Confinement: Occasionally Conf		Order: 4		Open water: Absent																											
US Elev (m): 1567		Islands: NONE		Riparian Vegetation: NONE																													
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																	
SITE																																	
Site #: 329		Field UTM 9.626499.6027000		Agency: C172		Crew: SG/SH		Date: 2002/09/17																									
Site Length (m): 275		GIS UTM 9.626453.6026989		Agency Name: Triton Environmental Consultants (Terrace)																													
CHANNEL																																	
No Vis.Ch.: ☐ Intermittent: ☐		Avg Min Max #				Avg Min Max #																											
Dewatered: ☐ Tribes.: ☐		Channel Width (m): 3.58 2.8 4.300 6				Gradient %: 5.67 5 6 3																											
Stage: Low ☐		Wetted Width (m): 3.22 2 4.1 6				Pool Depth (m): 0.23 0.150 0.300 6																											
Med ☒		Bankfull Depth (m): 0.27 0.2 0.3 3				Turbidity: Turbid ☐ Low ☐																											
High ☐		Temp (C): 6		pH: 8.4		Conductivity: 20		Moderate ☐ Clear ☒																									
MORPHOLOGY																																	
Bed Material: Dominant: Cobble		D95 (cm): 33.00		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐		Braid ☐																									
Subdominant: Boulders		D (cm): 14.00																															
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS																													
Coupling: Coupled				O1 B1 B2 B3 D1 D2 D3																													
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>N</td> <td>N</td> <td>D</td> <td>N</td> <td>N</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:	N	N	D	N	N	T	N	Location: P/S/O:	☐	☐	☒	☐	☐	☒	☐
Type:	SWD	LWD	B	U	DP	OV	IV																										
Amount:	N	N	D	N	N	T	N																										
Location: P/S/O:	☐	☐	☒	☐	☐	☒	☐																										
LWD: None		FSZ: ☐																															
LWD Dist: Not Applicable																																	
Right Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☒ Rock ☐ Manmade ☐		Crown Closure																													
Left Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☒ Rock ☐ Manmade ☐		0%																													
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest																															
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi		Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐																													
FEATURES																																	
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto	UTM (Z/E/N)																							
093L.035	27329	F	6.0	GE	2	HC	R:	F:	L:	9.628913.6025																							
Comments: Falls in Reach 2. (No photos taken)																																	
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto	UTM (Z/E/N)																							
093L.035	26329	F	25.0	GE	25	GE	R: 90	F: 22	L:	9.627428.6026																							
Comments: Falls in Reach 4. (Photos 22 and 23)																																	
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto	UTM (Z/E/N)																							
093L.035	25329	F	12.0	GE	12	GE	R: 90	F: 21	L:	9.626344.6026																							
Comments: Falls																																	
FISH																																	
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																								
329	EF	1	325	626 sec	1000	NFC	0																										

FDIS Site 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.036 ILP # 3477 Site 329

PROJECT

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

Project Code: 5270

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000
ILP Map#: 093L.036 ILP #: 3477 NID Map #: 093L.035 NID #: 20329 Reach #: 5.0 Site #: 329
Field UTM (Z.E.N): 9.626499.6027000 Method: GPU Site Lg: 275 Method: HC Access: H
GIS UTM (Z.E.N): 9.626453.6026989 Ref. Name:
Date: 2002/09/17 Time: 13:40 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	3.60	4.30	2.80	3.40	3.90	3.50					3.58	Method I:	6.0	6.0	C	5.67
Wetted Width (m):	MS	3.20	4.10	2.00	2.90	3.60	3.50					3.22	Method II:	5.0		C	
Pool Depth (m):	MS	0.30	0.20	0.15	0.20	0.30	0.20					0.23					

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

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

COVER Total: M

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

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: N DIST: NA

LB SHP: S

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: G

STG: INIT

RB SHP: V

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 20 Method: S3
pH: 8.4 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: 33.0 D (cm): 14.00 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.035	27329	F	6.0	GE	2	HC	R: F: L: #:		9.628913.6025618	GIS
Comments: Falls in Reach 2. (No photos taken)										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.035	26329	F	25.0	GE	25	GE	R: 90 F: 22 L: #:		9.627428.6026533	GIS
Comments: Falls in Reach 4. (Photos 22 and 23)										

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
5.0	093L.036	3477	329

FEATURES													
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto		UTM (Z/E/N)	Method
093L.035	25329	F	12.0	GE	12	GE	R:	90	F:	21	L:		GIS
Comments:		Falls											
HABITAT QUALITY													
Name		Comments											
Spawning Habitat		Poor - limited gravel substrates.											
OverWinter Habitat		None - no pools >0.3 m deep.											
Rearing Habitat		Moderate - due to abundant boulder cover but limited pool depths.											
PHOTOS													
Photo				Foc Lg		Dir		Comments					
R:	90	F:	18	STD		D		Downstream photo of typical habitat.					
R:	90	F:	19	STD		U		Upstream photo of typical habitat.					
R:	90	F:	20	STD		U		Upstream photo of cascade with base of falls.					
R:	90	F:	21	STD		U		View of 12 m Falls.					
R:	90	F:	22	STD		U		View of 25 m Falls in Reach 4.					
R:	90	F:	23	STD		U		View of 25 m Falls in Reach 4.					
COMMENTS													
Section		Comments											
CHANNEL		NFC (S5), Falls barrier in Reach 4. Falls also observed in Reach 2 near confluence of 3084 (6 m x 2 m) no photo.											

FDIS Fish Card

Morice North Planning Area

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

Reach # 5.0 ILP Map # 093L.036 ILP # 3477

WATERBODY														
Gazetted Name:						Local:								
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0														
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000														
Waterbody ID:				ILP Map #: 093L.036				ILP #: 3477		Reach #: 5 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/17			To: 2002/09/17			Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
329	093L.035	20329				GPU EF 1	5.5	20	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
329	EF	1	2002/09/17	13:40	2002/09/17	14:00								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
329	EF	1	1	O	626	325.0	4.0	1000	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
329	EF	1	1	NFC		0								



Site #329, Downstream photo of typical habitat.
Roll #90, Frame #18, Date: 2002/09/17



Site #329, Upstream photo of typical habitat.
Roll #90, Frame #19, Date: 2002/09/17



Site #329, Upstream photo of cascade with base of falls.
Roll #90, Frame #20, Date: 2002/09/17



Site #329, View of 12 m Falls.
Roll #90, Frame #21, Date: 2002/09/17



Site #329, View of 25 m Falls in Reach 4.
Roll #90, Frame #22, Date: 2002/09/17



Site #329, View of 25 m Falls in Reach 4.
Roll #90, Frame #23, Date: 2002/09/17

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.035 ILP # 3112

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3112		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.626583.6027212				Sample Type: Random			
Length (km): .28		Coupling: Partially Couple		Magnitude: 7		BGC Zone: AT			
Gradient (%): 16.4		Confinement: Frequently Confin		Order: 3		Open water: Absent			
US Elev (m): 1547		Islands: NONE		Riparian Vegetation: Grass					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 330		Field UTM 9.626544.6027062		Agency: C172		Crew: SG/SH		Date: 2002/09/17	
Site Length (m): 170		GIS UTM 9.626575.6027040		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐							
Dewatered: ☐		Tribes.: ☐							
Stage: Low ☐									
Med ☒									
High ☐									
Temp (C): 5		pH: 8.3		Conductivity: 20		Turbidity.: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 22.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 12.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Partially Coupled						B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: CP Cascade Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Trace		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		D		S	
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: Grass		Stage: Non-vegetated or initi						Rock ☐	
Left Bank: Rip.Veg:		Stage: Non-vegetated or initi						Manmade ☐	
						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)
330	EF	1	170	256 sec	1000	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3112 Site # 330

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.035 ILP #: 3112 NID Map #: 093L.035 NID #: 20330 Reach #: 1.0 Site #: 330
Field UTM (Z.E.N): 9.626544.6027062 Method: GPU Site Lg: 170 Method: GIS Access: H
GIS UTM (Z.E.N): 9.626575.6027040 Ref. Name:
Date: 2002/09/17 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	1.80	2.20	1.30	1.70	2.10	1.50					1.77	Method I:	7.0	7.0	C 7.00
Wetted Width (m):	MS	1.80	2.20	1.30	1.70	2.10	1.50					1.77	Method II:	7.0		C
Pool Depth (m):	MS	0.20	0.15	0.25		0.30	0.15					0.21				

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:	☐	☐	☒	☒	☐	☐	☐

LWD: N DIST: NA

LB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: G

STG: INIT

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: G

STG: INIT

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 20 Method: S3
pH: 8.3 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: 22.0 D (cm): 12.0 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - no gravel.
OverWinter Habitat	None - no pools >0.3 m deep.
Rearing Habitat	Moderate - abundant shallow pool and run habitat with good boulder cover.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 90 F: 16 STD D			Downstream photo of steep gradient habitat with boulders and hat.
R: 90 F: 17 STD U			Upstream photo of steep gradient habitat with boulders.

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.035	3112	330

COMMENTS	
Section	Comments
CHANNEL	NFC, S6 (Falls barrier downstream).

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.035 ILP # 3112

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.035		ILP #: 3112		Reach #: 1 -		
Project ID: 5270						Lake/Stream: S		Lake From Date:				
Fish Permit #:		145269		Date: 2002/09/17		To: 2002/09/17		Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
330	093L.035	20330				GPU EF 1	5	20	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
330	EF	1	2002/09/17	13:45	2002/09/17	14:00						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
330	EF	1	1	O	256	170.0	1.6	1000	60	6	SMITH ROOT 12B	
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
330	EF	1	1	NFC		0						



Site #330, Downstream photo of steep gradient habitat with boulders and hat.
Roll #90, Frame #16, Date: 2002/09/17



Site #330, Upstream photo of steep gradient habitat with boulders.
Roll #90, Frame #17, Date: 2002/09/17

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.025 ILP # 3599 Site 331

PROJECT																																																																														
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																																																																				
Stream Name (gaz.): BULKLEY RIVER																																																																														
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name:																																																																				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
ILP Map#: 093L.025		ILP #: 3599		NID Map #: 093L.035		NID #: 20331		Reach #: 4.0		Site #: 331																																																																				
Field UTM (Z.E.N): 9.628337.6024806				Method: GPU		Site Lg: 125		Method: GIS		Access: H																																																																				
GIS UTM (Z.E.N): 9.628337.6024770						Ref. Name:																																																																								
Date: 2002/09/17			Time: 14:45		Agency: C172		Crew: SG/SH		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>1.40</td> <td>1.90</td> <td>0.90</td> <td>1.70</td> <td>1.70</td> <td>1.60</td> <td></td> <td></td> <td></td> <td></td> <td>1.53</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>0.80</td> <td>0.90</td> <td>0.90</td> <td>1.70</td> <td>1.70</td> <td>1.60</td> <td></td> <td></td> <td></td> <td></td> <td>1.27</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.20</td> <td>0.20</td> <td>0.35</td> <td>0.50</td> <td>0.40</td> <td>0.60</td> <td></td> <td></td> <td></td> <td></td> <td>0.38</td> </tr> </tbody> </table>											Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	1.40	1.90	0.90	1.70	1.70	1.60					1.53	Wetted Width (m):	MS	0.80	0.90	0.90	1.70	1.70	1.60					1.27	Pool Depth (m):	MS	0.20	0.20	0.35	0.50	0.40	0.60					0.38	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gradient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>0.0</td> <td>1.0</td> <td>C 0.88</td> </tr> <tr> <td>Method II:</td> <td>1.5</td> <td>1.0</td> <td>C</td> </tr> </tbody> </table>						Gradient %	Mtd	Avg	Method I:	0.0	1.0	C 0.88	Method II:	1.5	1.0	C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	MS	1.40	1.90	0.90	1.70	1.70	1.60					1.53																																																																		
Wetted Width (m):	MS	0.80	0.90	0.90	1.70	1.70	1.60					1.27																																																																		
Pool Depth (m):	MS	0.20	0.20	0.35	0.50	0.40	0.60					0.38																																																																		
	Gradient %	Mtd	Avg																																																																											
Method I:	0.0	1.0	C 0.88																																																																											
Method II:	1.5	1.0	C																																																																											
Wb Depth: .1		.3		.2		Avg: 0.20		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐																																																																		
Dw: ☐		Tribes.: ☐																																																																												
COVER Total: A																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>S</td> <td>D</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	N	N	N	S	S	D	N	Loc: P/S/O:	☐	☐	☐	☒	☒	☒	☐	CROWN CLOSURE 0 0%																																														
Type:	SWD	LWD	B	U	DP	OV	IV																																																																							
Amount:	N	N	N	S	S	D	N																																																																							
Loc: P/S/O:	☐	☐	☐	☒	☒	☒	☐																																																																							
LWD: N								DIST: NA																																																																						
LB SHP: O								RB SHP: O																																																																						
Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐								Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐																																																																						
RIP: G								RIP: G																																																																						
STG: INIT								STG: INIT																																																																						
WATER																																																																														
EMS:					Method: T4					Req #:																																																																				
Temp: 7					Method: P2					Cond.: 50																																																																				
pH: 8.0					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☒																																																																				
Flood Signs: None										Method: S3																																																																				
										Method: GE																																																																				
MORPHOLOGY																																																																														
Bed Material: Dominant: G					Subdom: F					O1 B1 B2 B3 D1 D2 D3																																																																				
D95: 1.00 D (cm): 0.05					Morph: RP					<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>					☐	☐	☐	☐	☐	☐	☐	☐																																																								
☐	☐	☐	☐	☐	☐	☐	☐																																																																							
Pattern: SI					DISTURBANCE INDICATORS					C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																				
Islands: N										<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																					
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																																				
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.035	25331	BD	.7	GE	16	HC	R: 89	F: 02	L:	#:	9.628326.6024745		GIS																																																																	
Comments: Breached.																																																																														
HABITAT QUALITY																																																																														
Name		Comments																																																																												
Spawning Habitat		Good - abundant gravel coupled with undercut banks, overstream vegetation cover and spawning locations.																																																																												
OverWinter Habitat		Good - deeper pool (0.5 to 0.7 m) upstream of beaver dam.																																																																												
Rearing Habitat		Good - abundant overstream vegetation cover and deep pool habitat upstream of beaver dam.																																																																												

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.025	3599	331

PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	89	F: 01	STD	U	Upstream photo of typical habitat.
R:	89	F: 02	STD	D	Downstream photo toward LC morphology and beaver dam.
R:	90	F: 24	STD	D	Downstream photo of typical habitat.
R:	90	F: 25	STD	U	Upstream photo of typical habitat.
COMMENTS					
Section		Comments			
CHANNEL		S3 (DV).			
CHANNEL		UTM 9 628331 6024745 stream becomes impounded by beaver dam.			

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.025 ILP # 3599

WATERBODY													
Gazetted Name:							Local:						
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.025				ILP #:		3599		Reach #: 4 -	
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269				Date: 2002/09/17		To: 2002/09/17		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
331	093L.035	20331				GPU EF 1	7	50	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
331	EF	1	1	2002/09/17	14:45	2002/09/17	15:00						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
331	EF	1	1	O	115	125.0	1.2	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
331	EF	1	1	DV	J	1	105 105	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#			
331	EF	1	1	DV	105		U	U					



Site #331, Downstream photo of typical habitat.
Roll #90, Frame #24, Date: 2002/09/17



Site #331, Upstream photo of typical habitat.
Roll #90, Frame #25, Date: 2002/09/17



Site #331, Upstream photo of typical habitat.
Roll #89, Frame #01, Date: 2002/09/17



Site #331, Downstream photo toward LC morphology and beaver dam.
Roll #89, Frame #02, Date: 2002/09/17

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.035	3162

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.035 ILP # 3162 Site 332

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.035 ILP #: 3162 NID Map #: 093L.035 NID #: 20332 Reach #: 1.0 Site #: 332
Field UTM (Z.E.N): 9.628240.6024751 Method: GPU Site Lg: 100 Method: GIS Access: H
GIS UTM (Z.E.N): 9.628257.6024888 Ref. Name:
Date: 2002/09/17 Time: 15:39 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	0.50	0.60	0.60	0.50	0.50	0.50					0.53	Method I:	2.0	1.5	C	1.83
Wetted Width (m):	MS											0.00	Method II:	2.0		C	
Pool Depth (m):	MS											0.00					

Wb Depth: .7 .7 .6 Avg: 0.67 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	N	N	N	D	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: 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: 7.00 D (cm): 2.00 Morph: RP O1 B1 B2 B3 D1 D2 D3
Pattern: ST 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
Spawning Habitat	None
OverWinter Habitat	None
Rearing Habitat	Poor

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 89 F: 09	STD	D	Downstream photo of dry channel.
R: 89 F: 10	STD	U	Upstream photo of 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.035	3162	332

COMMENTS	
Section	Comments
CHANNEL	No barriers observed up from confluence with 3549.
CHANNEL	Inferred S4.



Site #332, Downstream photo of dry channel.
Roll #89, Frame #09, Date: 2002/09/17



Site #332, Upstream photo of dry channel.
Roll #89, Frame #10, Date: 2002/09/17

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.035 3158

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000						ILP Map #: 093L.035		ILP #:		3158	
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.627411.6024238				Sample Type: Random					
Length (km): .38		Coupling: Partially Couple		Magnitude: 3		BGC Zone: AT					
Gradient (%): 8.9		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 1339		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 333		Field UTM ..		Agency: C172		Crew: SG/SH		Date: 2002/09/17			
Site Length (m): 130		GIS UTM 9.627606.6024390		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		0.49		0.300		0.800	
Stage: Low ☐				Wetted Width (m):		0.00		0		0	
Med ☐				Bankfull Depth (m):		0.30		0.3		0.3	
High ☐		Temp (C):		pH:		Conductivity:					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 12.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Gravels		D (cm): 4.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐	
Confinement: Frequently 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: Abundant		Amount: N		D		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								1-20%	
								Instream Veg: None ☐		Algae ☐	
										Moss ☒	
										Vascular ☐	

FDIS Site Card

Morice North Planning Area

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

Reach # 2.0 ILP Map # 093L.035 ILP # 3158 Site 333

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.035 ILP #: 3158 NID Map #: 093L.035 NID #: 20333 Reach #: 2.0 Site #: 333
Field UTM (Z.E.N): .. Method: Site Lg: 130 Method: GIS Access: H
GIS UTM (Z.E.N): 9.627606.6024390 Ref. Name:
Date: 2002/09/17 Time: 15:59 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	0.80	0.60	0.40	0.40	0.30	0.30				0.49	Method I:	6.0	13.0	C	9.50
Wetted Width (m):	MS											0.00	Method II:	11.0	8.0	C	
Pool Depth (m):	MS											0.00					

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:	N	D	N	S	N	T	N
Loc: P/S/O:	☐	☒	☐	☒	☐	☒	☐

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

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 12.0 D (cm): 4.00 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	None
OverWinter Habitat	None
Rearing Habitat	Poor - no water.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 89 F: 03 STD D			Downstream photo of dry channel.
R: 89 F: 04 STD U			Upstream photo of dry 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
	2.0	093L.035	3158	333

COMMENTS	
Section	Comments
CHANNEL	Stream is dry and has been for some time. No barriers observed up from wetland (3599 Reach 4).
CHANNEL	Inferred S4



Site #333, Downstream photo of dry channel.
Roll #89, Frame #03, Date: 2002/09/17



Site #333, Upstream photo of dry channel.
Roll #89, Frame #04, Date: 2002/09/17

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.035 3155

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3155		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.627903.6024490				Sample Type: Biased			
Length (km): .13		Coupling: Partially Couple		Magnitude: 5		BGC Zone: AT			
Gradient (%): 2.3		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 1283		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 334		Field UTM 9.628131.6024661		Agency: C172		Crew: SG/SH		Date: 2002/09/17	
Site Length (m): 140		GIS UTM 9.627947.6024569		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.95		1.8	
Stage: Low ☐				Wetted Width (m):		1.05		0.600	
Med ☒				Bankfull Depth (m):		0.20		0.2	
High ☐		Temp (C): 6		pH: 7.8		Conductivity: 90			
								Turbidity.: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 12.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 3.00				Mid-channel ☐		Span ☐	
Channel Pattern: Straight		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: Few		Amount: T		S		D		T	
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: 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)
334	EF	1	140	285 sec	600	NFC	0		

Morice North Planning Area

Reach #	ILP Map #	ILP #	Site
2.0	093L.035	3155	334

Triton Environmental Consultants Ltd.

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.035	3155	334

COMMENTS	
Section	Comments
CHANNEL	No barriers observed up from ILP 3599.
CHANNEL	Inferred S3 (NFC).

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.035 ILP # 3155

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.035				ILP #: 3155		Reach #: 2 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/17			To: 2002/09/17			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
334	093L.035	20334				GPU EF 1	6	90	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
334	EF	1	2002/09/17	16:15	2002/09/17	16:45							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
334	EF	1	1	O	285	140.0	1.2	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
334	EF	1	1	NFC		0							



Site #334, Downstream photo of typical habitat.
Roll #89, Frame #05, Date: 2002/09/17



Site #334, Upstream photo of typical habitat.
Roll #89, Frame #06, Date: 2002/09/17

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 8.0 ILP Map # 093L.056 ILP # 2445

STREAM REFERENCING

Gazetted Name:

Local Name:

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

ILP Map #: 093L.056

ILP #: 2445

REACH

Reach #: 8.0

UTM(Zone/East/North): 9.628583.6044790

Sample Type: Random

Length (km): .65

Coupling: Decoupled

Magnitude: 10

BGC Zone: ESSF

Gradient (%): 0.1

Confinement: Unconfined

Order: 3

Open water: Absent

US Elev (m): 1110

Islands: NONE

Riparian Vegetation: Shrubs

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

SITE

Site #: 335

Field UTM 9.628860.6044726

Agency: C172

Crew: SG/SH

Date: 2002/09/19

Site Length (m): 250

GIS UTM 9.628798.6044747

Agency Name: Triton Environmental Consultants (Terrace)

CHANNEL

No Vis.Ch.: ☐ Intermittent: ☐

Dewatered: ☐ Tribs.: ☐

Stage: Low ☐ Med ☐ High ☒

Temp (C): 6

pH: 8.1

Conductivity: 20

	Avg	Min	Max	#
Channel Width (m):	1.82	1.5	2.200	6
Wetted Width (m):	1.82	1.5	2.200	6
Bankfull Depth (m):	0.13	0	0.2	3

	Avg	Min	Max	#
Gradient %:	1.83	1.5	2	3
Pool Depth (m):	0.31	0.25	0.400	6

Turbidity.: Turbid ☐ Low ☐ Moderate ☒ Clear ☐

MORPHOLOGY

Bed Material: Dominant: Gravels

D95 (cm): 8.00

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

D (cm): 3.00

Braid ☐

Channel Pattern: Sinuous

Islands: None

DISTURBANCE INDICATORS

Coupling: Decoupled

Confinement: Occasionally Confine

Morphology: RP Riffle Pool

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐

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

COVER

Total Cover: Abundant

LWD: None

LWD Dist: Not Applicable

Right Bank: Shape: Sloping (g) Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐ Crown Closure 0%

Left Bank: Shape: Sloping (g) Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐

Right Bank: Rip.Veg: Shrubs

Left Bank: Rip.Veg:

Stage: Shrub/herb stage

Stage: Shrub/herb stage

Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☒

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	T	N	S	N	D	T

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)
335	EF	1	320	530 sec	1000	NFC	0		

Triton Environmental Consultants Ltd.

pH: 8.1

Flood Signs: None

Method: P2

Method: GE

Turb.: T ☐ M ☒ L ☐ C ☐

Method: GE

MORPHOLOGY

Bed Material: Dominant: G

Subdom: C

D95: 8.00

D (cm): 3.00

Morph: RP

DISTURBANCE INDICATORS

Pattern: SI

Islands: N

Coupling: DC

Confinement: OC

FSZ: ☐

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐

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

Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel in tailouts of deeper runs.
OverWinter Habitat	Poor - limited pool depths during low flow periods.
Rearing Habitat	Good - due to abundant cover in deeper runs and shallow pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 89 F: 11	STD	U	Upstream photo of open wetland and flooded stream channel with SH.

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 9.0 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 #: 9.0		UTM(Zone/East/North): 9.627779.6045032				Sample Type: Biased			
Length (km): .99		Coupling: Decoupled		Magnitude: 9		BGC Zone: ESSF			
Gradient (%): 0.9		Confinement: Unconfined		Order: 3		Open water: Present			
US Elev (m): 1119		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 336		Field UTM 9.628207.6044779		Agency: C172		Crew: SG/SH		Date: 2002/09/19	
Site Length (m): 220		GIS UTM 9.628204.6045067		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 3.15		2.3		3.8	
Stage: Low ☐				Wetted Width (m): 3.00		2.3		3.8	
Med ☐				Bankfull Depth (m): 0.30		0.3		0.3	
High ☒		Temp (C): 5		pH: 8.2		Conductivity: 30			
						Turbidity: Turbid ☐		Low ☒	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 18.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 3.00				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: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		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: 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)
336	EF	1	220	450 sec	1000	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 9.0 ILP Map # 093L.056 ILP # 2445 Site 336

PROJECT																																					
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)										Project Code: 5270																											
Stream Name (gaz.): BULKLEY RIVER																																					
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000-000																																					
WATERSHED																																					
Gazetted Name:										Local Name:																											
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000																																					
ILP Map#: 093L.056		ILP #: 2445		NID Map #: 093L.055		NID #: 20336		Reach #: 9.0		Site #: 336																											
Field UTM (Z.E.N): 9.628207.6044779				Method: GPU		Site Lg: 220		Method: GIS		Access: H																											
GIS UTM (Z.E.N): 9.628204.6045067						Ref. Name:																															
Date: 2002/09/19		Time: 10:45		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	3.80	3.20	3.20	3.80	2.30	2.60					3.15																									
Wetted Width (m):	MS	3.60	2.80	3.20	3.80	2.30	2.30					3.00																									
Pool Depth (m):	MS	0.50	0.40	0.40	0.35	0.30	0.35					0.38																									
													<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>2.5</td> <td>4.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>4.0</td> <td>3.0</td> <td>C</td> </tr> </tbody> </table>		Gadient %	Mtd	Avg	Method I:	2.5	4.0	C	Method II:	4.0	3.0	C												
	Gadient %	Mtd	Avg																																		
Method I:	2.5	4.0	C																																		
Method II:	4.0	3.0	C																																		
Wb Depth: .3		.3		.3		Avg: 0.30		Method: MS		Stage: L ☐ M ☐ H ☒		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																									
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>T</td> <td>D</td> <td>T</td> <td>T</td> <td>T</td> <td>S</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> </tr> </tbody> </table> CROWN CLOSURE 2 21-40% INSTREAM VEG: N ☒ A ☐ M ☐ V ☐														Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	T	T	T	S	N	Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐
Type:	SWD	LWD	B	U	DP	OV	IV																														
Amount:	T	D	T	T	T	S	N																														
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐																														
LWD: F				DIST: E				RB SHP: S Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐																													
LB SHP: S								RIP: C STG: MF																													
WATER																																					
EMS:				Method: T4				Req #:		Method: S3																											
Temp: 5				Method: P2				Cond.: 30		Method: GE																											
pH: 8.2				Method: GE				Turb.: T ☐ M ☐ L ☒ C ☐																													
Flood Signs: None																																					
MORPHOLOGY																																					
Bed Material:		Dominant: G		Subdom: C		Morph: RP		O1 B1 B2 B3 D1 D2 D3																													
D95: 18.0		D (cm): 3.00						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>		☐	☐	☐	☐	☐	☐	☐	☐																				
☐	☐	☐	☐	☐	☐	☐	☐																														
Pattern: SI								C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																													
Islands: N								<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐															
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																									
Coupling: DC																																					
Confinement: UN																																					
FSZ: ☐																																					
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																					
HABITAT QUALITY																																					
Name		Comments																																			
Spawning Habitat		Good - lots of gravel and small cobbles at tailouts/margins of pool and deep runs.																																			
OverWinter Habitat		Moderate																																			
Rearing Habitat		Good - abundant pool and deep run habitat with abundant cover.																																			
PHOTOS																																					
Photo		Foc Lg		Dir		Comments																															
R:	89	F:	13	STD		D		Downstream photo of typical habitat with LWD.																													
R:	89	F:	14	STD		U		Upstream photo of typical habitat.																													
R:	89	F:	15	STD		U		Upstream photo of typical habitat with x logs.																													

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
9.0	093L.056	2445	336

WILDLIFE	
Group	Observations
MAM	Abundant bear and moose sign (lots of tracks and scat).
COMMENTS	
Section	Comments
CHANNEL	NFC

FDIS Fish Card

Morice North Planning Area

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

Reach # 9.0 ILP Map # 093L.056 ILP # 2445

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.056				ILP #: 2445		Reach #: 9 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/19			To: 2002/09/19			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
336	093L.055	20336				GPU EF 1	4.5	30	L				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
336	EF	1	2002/09/19	10:45	2002/09/19	11:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
336	EF	1	1	O	450	220.0	2.5	1000	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
336	EF	1	1	NFC		0							



Site #336, Downstream photo of typical habitat with LWD.
Roll #89, Frame #13, Date: 2002/09/19



Site #336, Upstream photo of typical habitat.
Roll #89, Frame #14, Date: 2002/09/19



Site #336, Upstream photo of typical habitat with x logs.
Roll #89, Frame #15, Date: 2002/09/19

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 11.0 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 #: 11.0		UTM(Zone/East/North): 9.627926.6043635				Sample Type: Biased					
Length (km): 1.45		Coupling: Decoupled		Magnitude: 6		BGC Zone: ESSF					
Gradient (%): 3.6		Confinement: Occasionally Conf		Order: 3		Open water: Absent					
US Elev (m): 1179		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 337		Field UTM 9.628005.6044361		Agency: C172		Crew: SG/SH		Date: 2002/09/19			
Site Length (m): 250		GIS UTM 9.627999.6044366		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐									
Dewatered: ☐		Tribes.: ☐									
Stage: Low ☐											
Med ☐											
High ☒		Temp (C): 5		pH: 7.9		Conductivity: 30		Turbidity: Turbid ☐ Low ☒			
								Moderate ☐ Clear ☐			
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 11.00		Bars: Non ☒		Side ☐		Diagonal ☐ Mid-channel ☐ Span ☐			
Subdominant: Gravels		D (cm): 3.00						Braid ☐			
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3					
Coupling: Decoupled											
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5							
Morphology: RP Riffle Pool											
COVER											
Total Cover: Abundant		Type: SWD LWD B U DP OV IV									
LWD: Abundant		Amount: T D T S T T 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: Overhang		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 ☐	
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
337	EF	1	220	338 sec	800	NFC	0				

FDIS Site Card

Morice North Planning Area

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

Reach # 11.0 ILP Map # 093L.056 ILP # 2445 Site 337

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.055 NID #: 20337 Reach #: 11.0 Site #: 337
Field UTM (Z.E.N): 9.628005.6044361 Method: GPU Site Lg: 250 Method: GIS Access: H
GIS UTM (Z.E.N): 9.627999.6044366 Ref. Name:
Date: 2002/09/19 Time: 11:20 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	4.80	3.20	3.30	3.70	3.20	2.20					3.40	Method I:	3.0	2.5	C 3.38
Wetted Width (m):	MS	4.80	3.20	3.10	3.30	3.20	2.20					3.30	Method II:	4.0	4.0	C
Pool Depth (m):	MS	0.70	0.50	0.40	0.55	0.30						0.49				

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	D	T	S	T	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: A

DIST: E

LB SHP: O

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: 5 Method: T4 Req #: Cond.: 30 Method: S3
pH: 7.9 Method: P2 Turb.: T ☐ M ☐ L ☒ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 11.0 D (cm): 3.00 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	Good - abundant gravel and spawning locations.
OverWinter Habitat	Good - abundant deep pools associated with LWD.
Rearing Habitat	Good - abundant cover in deep run and pool habitats, good off channel areas.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 89 F: 16	STD	D	Downstream photo of typical habitat.
R: 89 F: 17	STD	U	Upstream photo of typical habitat with log Falls.

FDIS Site Card

Morice North Planning Area

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

Reach #11.0

ILP Map #093L.056

ILP #2445

Site337

COMMENTS	
Section	Comments
CHANNEL	S5, NFC

Morice North Planning Area

Reach #	ILP Map #	ILP #
11.0	093L.056	2445

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.056				ILP #:		2445		Reach #: 11 -		
Project ID: 5270								Lake/Stream: S		Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/19			To: 2002/09/19			Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
337	093L.055	20337				GPU EF 1	5	30	L					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
337	EF 1	1	2002/09/19	11:20	2002/09/19	12:00								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
337	EF	1	1	O	338	220.0	3.0	800	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
337	EF	1	1	NFC		0								



Site #337, Downstream photo of typical habitat.
Roll #89, Frame #16, Date: 2002/09/19



Site #337, Upstream photo of typical habitat with log Falls.
Roll #89, Frame #17, Date: 2002/09/19

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #
8.0 093L.026 3678

STREAM REFERENCING											
Gazetted Name:					Local Name:						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.026		ILP #: 3678				
REACH											
Reach #: 8.0		UTM(Zone/East/North): 9.621433.6034811				Sample Type: Biased					
Length (km): 4.38		Coupling: Partially Couple		Magnitude: 33		BGC Zone: AT					
Gradient (%): 6.5		Confinement: Frequently Confin		Order: 3		Open water: Absent					
US Elev (m): 1576		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 338		Field UTM 9.619248.6031722		Agency: C172		Crew: SG/SH/JH		Date: 2002/09/19			
Site Length (m): 300		GIS UTM 9.619225.6031783		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐									
Dewatered: ☐		Tribes.: ☐									
Stage: Low ☐											
Med ☐											
High ☒		Temp (C): 4		pH: 7.8		Conductivity: 20		Turbidity.: Turbid ☐ Low ☒			
								Moderate ☐ Clear ☐			
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 17.00		Bars: Non ☐		Side ☐		Diagonal ☐ Mid-channel ☐ Span ☐			
Subdominant: Boulders		D (cm): 6.00						Braid ☒			
Channel Pattern: Regular Meanders		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											
LWD: None											
LWD Dist: Not Applicable											
		Type: SWD LWD B U DP OV IV									
		Amount: T N D T T S N									
		Location: P/S/O: ☒ ☐ ☐ ☒ ☐ ☐ ☒ ☐ ☐ ☒ ☐ ☐ ☒ ☐ ☐								FSZ: ☐	
Right Bank: Shape: V - shape		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)		
338	EF	2	370	1314 sec	800	NFC	0				

FDIS Site Card

Morice North Planning Area

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

Reach # 8.0 ILP Map # 093L.026 ILP # 3678 Site 338

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: Houston Tommy Creek
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.026 ILP #: 3678 NID Map #: 093L.045 NID #: 20338 Reach #: 8.0 Site #: 338
Field UTM (Z.E.N): 9.619248.6031722 Method: GPU Site Lg: 300 Method: GIS Access: H
GIS UTM (Z.E.N): 9.619225.6031783 Ref. Name:
Date: 2002/09/19 Time: 12:40 Agency: C172 Crew: SG/SH/JH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS	4.40	6.30	4.20	4.80	5.60	4.20					4.92	Method I:	2.0	2.5	C 2.38
Wetted Width (m):	MS	4.40	6.30	4.20	4.80	5.60	4.20					4.92	Method II:	2.5	2.5	C
Pool Depth (m):	MS	0.40	0.80	0.50	0.50	0.30	0.25					0.46				

Wb Depth: .3 .3 .2 Avg: 0.27 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	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: 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: 4 Method: T4 Req #: Cond.: 20 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☒ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 17.0 D (cm): 6.00 Morph: CP DISTURBANCE INDICATORS
Pattern: ME 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	Moderate - abundant gravel in margins of deeper runs.
OverWinter Habitat	Good - abundant deep pool associated with LWD.
Rearing Habitat	Good - abundant boulder cover and perennial stream flows limited by high energy flows and lack of off channel (refuge).

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 89 F: 20 STD X			Tributary to Dockrill (Scenic)
R: 89 F: 21 STD D			Downstream photo of typical habitat in slide path.
R: 89 F: 22 STD U			Upstream photo of typical habitat in slide path.

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
8.0	093L.026	3678	338

PHOTOS				
Photo		Foc Lg	Dir	Comments
R:	89	F:	23	STD
				U
Upstream photo of typical habitat in slide path.				
COMMENTS				
Section		Comments		
CHANNEL		High energy stream with extensive riffle habitat. Some off channel areas but shallow with limited depth and cover.		

FDIS Fish Card

Morice North Planning Area

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

Reach # 8.0 ILP Map # 093L.026 ILP # 3678

WATERBODY													
Gazetted Name:						Local:							
Project Code: 460-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 000-000000-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.026				ILP #: 3678		Reach #: 8 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/19			To: 2002/09/19			Agency: C172		Crew: SG/JH/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
338	093L.045	20338	9	619248	6031727	GPU	EF	2	4	20	L	heading upstream (SH)	
338	093L.045	20338	9	619248	6031722	GPU	EF	1	4	20	L	heading downstream (JH)	
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
338	EF	1	2002/09/19	12:40	2002/09/19	13:05							
338	EF	2	2002/09/19	12:40	2002/09/19	13:05							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
338	EF	1	1	O	800	200.0	3.3	800	60	6	SMITH	12B	
338	EF	2	1	O	514	170.0	3.3	800	60	6	SMITH	12B	
											ROOT		
											ROOT		
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
338	EF	1	1	NFC		0							
338	EF	2	1	NFC		0							



Site #338, Tributary to Dockrill (Scenic)
Roll #89, Frame #20, Date: 2002/09/19



Site #338, Downstream photo of typical habitat in slide path.
Roll #89, Frame #21, Date: 2002/09/19



Site #338, Upstream photo of typical habitat in slide path.
Roll #89, Frame #22, Date: 2002/09/19



Site #338, Upstream photo of typical habitat in slide path.
Roll #89, Frame #23, Date: 2002/09/19

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 7.0 ILP Map # 093L.026 ILP # 3678

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.026			ILP #: 3678		
REACH											
Reach #: 7.0		UTM(Zone/East/North): 9.619257.6031746				Sample Type: Biased					
Length (km): 3.77		Coupling: Decoupled		Magnitude: 67		BGC Zone: ESSF					
Gradient (%): 2.6		Confinement: Frequently Confin		Order: 4		Open water: Absent					
US Elev (m): 1293		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 339		Field UTM 9.620152.6030400		Agency: C172		Crew: SG/SH		Date: 2002/09/19			
Site Length (m): 350		GIS UTM 9.620151.6030466		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 7.52		6.800		8.600		6	
Stage: Low ☐				Wetted Width (m): 7.52		6.800		8.600		6	
Med ☐				Bankfull Depth (m): 0.20		0.2		0.2		3	
High ☒		Temp (C): 5		pH: 7.7		Conductivity: 30					
								Turbidity: Turbid ☐		Low ☒	
								Moderate ☐		Clear ☐	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 65.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Boulders		D (cm): 12.00								Braid ☐	
Channel Pattern: Regular Meanders		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Decoupled				INDICATORS		☐		☐		☐	
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐		☐	
Morphology: RP Riffle Pool						☐		☐		☐	
COVER											
Total Cover: Moderate		Type: SWD		LWD		B		U		DP OV IV	
LWD: Few		Amount: N		N		D		T		N S 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: 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.035	70339	F	5.0	GE		HC	R: 60	F: 17	L:	#:	UTM (Z/E/N) 9.620227.6029
Comments: Falls barrier in Reach 7 of Houston Tommy Creek											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
339	EF	1	350	469 sec	800	NFC	0				
605	EF	1	100	650 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 # 7.0 ILP Map # 093L.026 ILP # 3678 Site 339

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: Houston Tommy Creek
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.026 ILP #: 3678 NID Map #: 093L.045 NID #: 20339 Reach #: 7.0 Site #: 339
Field UTM (Z.E.N): 9.620152.6030400 Method: GPU Site Lg: 350 Method: GIS Access: H
GIS UTM (Z.E.N): 9.620151.6030466 Ref. Name:
Date: 2002/09/19 Time: 13:30 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	7.20	8.60	6.80	7.10	6.90	8.50					7.52	Method I:	2.0	1.5	C	1.75
Wetted Width (m):	MS	7.20	8.60	6.80	7.10	6.90	8.50					7.52	Method II:	2.0	1.5	C	
Pool Depth (m):	MS	0.25	0.30	0.20	0.35	0.55	0.30					0.33					

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

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	D	T	N	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: C

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 30 Method: S3
pH: 7.7 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: 65.0 D (cm): 12.00 Morph: RP DISTURBANCE INDICATORS
Pattern: ME C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.035	70339	F	5.0	GE		HC	R: 60 F: 17 L:	#:	9.620227.6029425	GIS

Comments: Falls barrier in Reach 7 of Houston Tommy Creek

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - limited gravel in extensive rifle habitat.
OverWinter Habitat	Poor - limited pool depths.
Rearing Habitat	Moderate - limited by lack of cover and pool/run depths and limited by refuge areas.

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
7.0	093L.026	3678	339

PHOTOS						
Photo		Foc Lg	Dir	Comments		
R:	60	F:	17	STD	U	Upstream photo of Falls barrier on Houston Tommy Creek, Reach 7.
R:	60	F:	18	STD	U	Upstream photo of Falls barrier on Houston Tommy Creek, Reach 7.
R:	87	F:	01	STD	D	Downstream photo of typical habitat, extensive riffle.
R:	87	F:	02	STD	U	Upstream photo of typical habitat, extensive riffle.
COMMENTS						
Section			Comments			
CHANNEL			NFC			

FDIS Fish Card

Morice North Planning Area

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

Reach # 7.0 ILP Map # 093L.026 ILP # 3678

WATERBODY												
Gazetted Name:						Local: Houston Tommy 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.026			ILP #: 3678		Reach #: 7 -				
Project ID: 5270			Lake/Stream: S			Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/19		To: 2002/09/19		Agency: C172		Crew: SG/SH JH/		Resample: ☐	
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd		MTD/NO	Temp	Cond	Turbid	Comment			
605	093L.045	50605	9	620150	6029710	GPU EF 1	5	50	C			
339	093L.045	20339				GPU EF 1	4.5	30	L			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
339	EF 1	1	2002/09/19	13:30	2002/09/19	13:45						
605	EF 1	1	2002/09/19	13:30	2002/09/19	14:15						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
339	EF	1	1	O	469	350.0	7.0	800	60	6	SMITH ROOT	12B
605	EF	1	1	O	650	100.0	5.0	600	I	I5	SMITH ROOT	12B
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
339	EF	1	1	NFC		0						
605	EF	1	1	NFC		0						
COMMENTS												
Section			Comments									
WATERBODY			Site 605 comment: Roll 60 # 17 is photo of downstream falls ~5 m falls ~300 m downstream of UTM. Falls are featured on Site 339 card.									



Site #339, Upstream photo of falls barrier on Houston Tommy Creek, Reach 7.
Roll #60, Frame #17, Date: 2002/09/19



Site #339, Upstream photo of falls barrier on Houston Tommy Creek, Reach 7.
Roll #60, Frame #18, Date: 2002/09/19



Site #339, Downstream photo of typical habitat, extensive riffle.
Roll #87, Frame #01, Date: 2002/09/19



Site #339, Upstream photo of typical habitat, extensive riffle.
Roll #87, Frame #02, Date: 2002/09/19

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 # 2774

STREAM REFERENCING																																					
Gazetted Name:					Local Name:																																
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000					ILP Map #: 093L.045		ILP #: 2774																														
REACH																																					
Reach #: 1.0		UTM(Zone/East/North): 9.620515.6030900				Sample Type: Biased																															
Length (km): .61		Coupling: Partially Couple		Magnitude: 13		BGC Zone: ESSF																															
Gradient (%): 7.5		Confinement: Occasionally Conf		Order: 2		Open water: Absent																															
US Elev (m): 1345		Islands: NONE		Riparian Vegetation: Coniferous																																	
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																					
SITE																																					
Site #: 340		Field UTM 9.620262.6030642		Agency: C172		Crew: SG/SH		Date: 2002/09/19																													
Site Length (m): 210		GIS UTM 9.620222.6030661		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): 3.12</td> <td>2.8</td> <td>3.6</td> <td>6</td> </tr> <tr> <td>Wetted Width (m): 2.97</td> <td>2.6</td> <td>3.6</td> <td>6</td> </tr> <tr> <td>Bankfull Depth (m): 0.63</td> <td>0.4</td> <td>0.8</td> <td>3</td> </tr> </table>				Avg	Min	Max	#	Channel Width (m): 3.12	2.8	3.6	6	Wetted Width (m): 2.97	2.6	3.6	6	Bankfull Depth (m): 0.63	0.4	0.8	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 %: 12.75</td> <td>11</td> <td>15</td> <td>4</td> </tr> <tr> <td>Pool Depth (m): 0.28</td> <td>0.200</td> <td>0.400</td> <td>6</td> </tr> </table>				Avg	Min	Max	#	Gradient %: 12.75	11	15	4	Pool Depth (m): 0.28	0.200	0.400	6
Avg	Min	Max	#																																		
Channel Width (m): 3.12	2.8	3.6	6																																		
Wetted Width (m): 2.97	2.6	3.6	6																																		
Bankfull Depth (m): 0.63	0.4	0.8	3																																		
Avg	Min	Max	#																																		
Gradient %: 12.75	11	15	4																																		
Pool Depth (m): 0.28	0.200	0.400	6																																		
Dewatered: ☐	Tribs.: ☐					Turbidity: Turbid ☐ Low ☒																															
Stage: Low ☐						Moderate ☐ Clear ☐																															
Med ☒																																					
High ☐	Temp (C): 4	pH: 7.8		Conductivity: 30																																	
MORPHOLOGY																																					
Bed Material: Dominant: Boulders		D95 (cm): 45.00		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐		Braid ☐																													
Subdominant: Cobble		D (cm): 21.00																																			
Channel Pattern: Sinuous		Islands: None		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th colspan="2">DISTURBANCE INDICATORS</th> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> <tr> <td>C1</td> <td>C2</td> <td>C3</td> <td>C4</td> <td>C5</td> <td>S1</td> <td>S2</td> <td>S3</td> <td>S4</td> </tr> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>						DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3	C1	C2	C3	C4	C5	S1	S2	S3	S4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3																													
C1	C2	C3	C4	C5	S1	S2	S3	S4																													
☐	☐	☐	☐	☐	☐	☐	☐	☐																													
Coupling: Partially Coupled																																					
Confinement: Frequently Confined																																					
Morphology: SP Step Pool																																					
COVER																																					
Total Cover: Abundant		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> <tr> <th>Amount:</th> <td>T</td> <td>D</td> <td>S</td> <td>N</td> <td>T</td> <td>T</td> <td>N</td> </tr> </table>							Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	S	N	T	T	N	FSZ: ☐												
Type:	SWD	LWD	B	U	DP	OV	IV																														
Amount:	T	D	S	N	T	T	N																														
LWD: Abundant		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <th>Location: P/S/O:</th> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> </table>							Location: P/S/O:	☒	☐	☐	☐	☒	☐	☐																					
Location: P/S/O:	☒	☐	☐	☐	☒	☐	☐																														
LWD Dist: Evenly Distributed																																					
Right Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☐ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure: 1-20%																													
Left Bank: Shape: Sloping (g)		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 ☐																																	
FISH																																					
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																												
340	EF	1	210	319 sec	800	NFC	0																														

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.045 ILP # 2774 Site # 340

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 #: 2774 NID Map #: 093L.045 NID #: 20340 Reach #: 1.0 Site #: 340
Field UTM (Z.E.N): 9.620262.6030642 Method: GPU Site Lg: 210 Method: GIS Access: H
GIS UTM (Z.E.N): 9.620222.6030661 Ref. Name:
Date: 2002/09/19 Time: 13:48 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	3.00	3.60	3.20	3.20	2.80	2.90					3.12	Method I:	12.0	13.0	C	12.75
Wetted Width (m):	MS	3.00	3.60	2.80	3.20	2.60	2.60					2.97	Method II:	11.0	15.0	C	
Pool Depth (m):	MS	0.40	0.40	0.25	0.25	0.20	0.20					0.28					

Wb Depth: .4 .8 .7 Avg: 0.63 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	N	T	T	N
Loc: P/S/O:	☒	☒	☒	☐	☒	☒	☐

LWD: A 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: 4 Method: T4 Req #: Cond.: 30 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☒ C ☐ Method: GE
Flood Signs: Rafted debris 0.5 m Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 45.0 D (cm): 21.00 Morph: SP 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
Spawning Habitat	None - no gravels.
OverWinter Habitat	None - no pools even though log fall (photo 23). Stream bed is well armored.
Rearing Habitat	Moderate - abundant LWD and boulder cover - limited by high energy and shallow stream channel.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 89 F: 24 STD D			Downstream photo of typical habitat.
R: 89 F: 25 STD U			Upstream photo through LWD jams.

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.045

ILP #2774

Site340

COMMENTS	
Section	Comments
CHANNEL	Multiple abandon channels and LWD Falls up to 0.6 m high throughout.
CHANNEL	S5

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.045 ILP # 2774

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 #: 2774		Reach #: 1 -		
Project ID: 5270						Lake/Stream: S			Lake From Date:				
Fish Permit #: 145269			Date: 2002/09/19			To: 2002/09/19			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
340	093L.045	20340				GPU EF 1	4	30	L				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
340	EF	1	2002/09/19	13:48	2002/09/19	14:15							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
340	EF	1	1	O	319	210.0	3.2	800	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
340	EF	1	1	NFC		0							



Site #340, Downstream photo of typical habitat.
Roll #89, Frame #24, Date: 2002/09/19



Site #340, Upstream photo through LWD jams.
Roll #89, Frame #25, Date: 2002/09/19

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.035 3361

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3361		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.622858.6028105				Sample Type: Random			
Length (km): 1.56		Coupling: Coupled		Magnitude: 8		BGC Zone: AT			
Gradient (%): 12.8		Confinement: Frequently Confin		Order: 2		Open water: Absent			
US Elev (m): 1557		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 341		Field UTM 9.622314.6028653		Agency: C172		Crew: SG/SH		Date: 2002/09/19	
Site Length (m): 200		GIS UTM 9.622370.6028616		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 2.28		2		2.6	
Stage: Low ☐				Wetted Width (m): 2.28		2		2.6	
Med ☐				Bankfull Depth (m): 0.17		0.1		0.2	
High ☒		Temp (C): 4		pH: 7.6		Conductivity: 30			
								Turbidity: Turbid ☐ Low ☒	
								Moderate ☐ Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 17.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 4.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Confined						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		D		N	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒	
								FSZ: ☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage						Rock ☐	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage						Manmade ☐	
								Crown Closure 1-20%	
								Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
341	EF	1	220	218 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 # 2.0 ILP Map # 093L.035 ILP # 3361 Site 341

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.035 ILP #: 3361 NID Map #: 093L.035 NID #: 20341 Reach #: 2.0 Site #: 341
Field UTM (Z.E.N): 9.622314.6028653 Method: GPU Site Lg: 200 Method: GIS Access: H
GIS UTM (Z.E.N): 9.622370.6028616 Ref. Name:
Date: 2002/09/19 Time: 14:53 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	2.40	2.20	2.30	2.60	2.00	2.20					2.28	Method I:	4.0	5.0	C	4.25
Wetted Width (m):	MS	2.40	2.20	2.30	2.60	2.00	2.20					2.28	Method II:	4.0	4.0	C	
Pool Depth (m):	MS	0.10	0.10	0.10	0.15	0.10	0.10					0.11					

Wb Depth: .2 .1 .2 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	S	D	N	N	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: S

STG: SHR

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 4 Method: T4 Req #: Cond.: 30 Method: S3
pH: 7.6 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: 17.0 D (cm): 4.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Couplings: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel in margins of LWD formed pools.
OverWinter Habitat	None - no pools >0.3 m deep.
Rearing Habitat	Moderate - limited cover and pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 03 STD D			Downstream photo in alpine / old slide.
R: 87 F: 04 STD U			Upstream photo in alpine / old slide.

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.035	3361	341

COMMENTS	
Section	Comments
CHANNEL	S6 (Falls barrier downstream) NFC.

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.035	3361

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.035				ILP #:		3361		Reach #: 2 -	
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269				Date: 2002/09/19		To: 2002/09/19		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO		Temp	Cond	Turbid	Comment	
341	093L.035	20341				GPU	EF	1	4	30	L		
A. GEAR SETTINGS													
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment					
341	EF	1	1	2002/09/19	14:53	2002/09/19	15:05						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
341	EF	1	1	O	218	220.0	2.2	900	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
341	EF	1	1	NFC			0						



Site #341, Downstream photo in alpine / old slide.
Roll #87, Frame #03, Date: 2002/09/19



Site #341, Upstream photo in alpine / old slide.
Roll #87, Frame #04, Date: 2002/09/19

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.035 3357

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3357		
REACH									
Reach #: 3.0		UTM(Zone/East/North): 9.622317.6030161				Sample Type: Biased			
Length (km): 1.20		Coupling: Coupled		Magnitude: 13		BGC Zone: ESSF			
Gradient (%): 7.0		Confinement: Frequently Confin		Order: 3		Open water: Absent			
US Elev (m): 1441		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 342		Field UTM 9.622029.6030058		Agency: C172		Crew: SG/SH		Date: 2002/09/19	
Site Length (m): 180		GIS UTM 9.622045.6030075		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		#					
Stage: Low ☐		Channel Width (m): 3.02		2.5		3.5		6	
Med ☐		Wetted Width (m): 2.90		2.5		3.5		6	
High ☒		Bankfull Depth (m): 0.23		0.2		0.3		3	
Temp (C): 5		pH: 7.6		Conductivity: 30					
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 17.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 6.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Confined						D1		D2	
Morphology: SP Step Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		D		N	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☐	
								FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Shrubs				Stage: Non-vegetated or initi				Crown Closure	
Left Bank: Rip.Veg:				Stage: Shrub/herb stage		Instream Veg: None ☒		Algae ☐	
						Moss ☐		Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
342	EF	1	180	220 sec	900	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.035 ILP # 3357 Site 342

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:
Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
ILP Map#: 093L.035 ILP #: 3357 NID Map #: 093L.045 NID #: 20342 Reach #: 3.0 Site #: 342
Field UTM (Z.E.N): 9.622029.6030058 Method: GPU Site Lg: 180 Method: GIS Access: H
GIS UTM (Z.E.N): 9.622045.6030075 Ref. Name:
Date: 2002/09/19 Time: 15:17 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	3.20	2.70	3.40	2.80	3.50					3.02	Method I:	6.0	6.0	5.50
Wetted Width (m):	MS	2.50	2.50	2.70	3.40	2.80	3.50					2.90	Method II:	6.0	4.0	C
Pool Depth (m):	MS	0.10	0.10	0.15	0.10	0.30						0.15				

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

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: SHR

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: INIT

WATER

EMS: Req #: Temp: 5 Method: T4 Cond.: 30 Method: S3
pH: 7.6 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: 17.0 D (cm): 6.00 Morph: SP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - due to seasonal stream flow and limited gravel, no spawning locations.
OverWinter Habitat	None - no pools >0.2 m deep and seasonal.
Rearing Habitat	Poor - due to limited cover and shallow pool / run depths.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 05 STD D			Downstream photo of typical alpine habitat.
R: 87 F: 06 STD U			Upstream photo of typical alpine 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.035	3357	342

COMMENTS	
Section	Comments
CHANNEL	S5 (Falls downstream).

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.035 ILP # 3357

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.035				ILP #: 3357		Reach #: 3 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/19			To: 2002/09/19			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
342	093L.045	20342				GPU	EF 1	4.5	30	C			
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
342	EF 1	1	2002/09/19	15:17	2002/09/19	15:39							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
342	EF	1	1	O	220	180.0	2.7	900	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
342	EF	1	1	NFC		0							



Site #342, Downstream photo of typical alpine habitat.
Roll #87, Frame #05, Date: 2002/09/19



Site #342, Upstream photo of typical alpine habitat.
Roll #87, Frame #06, Date: 2002/09/19

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L.035	3357

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.035 ILP # 3357 Site # 343

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.035 ILP #: 3357 NID Map #: 093L.035 NID #: 20343 Reach #: 1.0 Site #: 343
Field UTM (Z.E.N): 9.620424.6028931 Method: GPU Site Lg: 212 Method: GIS Access: H
GIS UTM (Z.E.N): 9.620455.6028944 Ref. Name:
Date: 2002/09/19 Time: 16:05 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	4.30	4.80	5.30	5.50	5.10	4.40	5.00				4.91	Method I:	6.0	5.0	C	5.25
Wetted Width (m):	MS	4.30	4.80	5.30	5.50	5.10	3.80	4.40				4.74	Method II:	5.0	5.0	C	
Pool Depth (m):	MS	0.50	0.40	0.40	0.25	0.50	0.30					0.39					

Wb Depth: .8 .8 .4

Avg: 0.67

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: 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: S

Texture: F ☐ G ☐ C ☐ B ☒ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 5 pH: 7.8 Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: 40 Turb.: T ☐ M ☐ L ☒ C ☐ Method: S3 Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B Morph: CP O1 B1 B2 B3 D1 D2 D3
D95: 22.0 D (cm): 7.00 DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Pattern: ST Islands: N Coupling: PC Confinement: CO FSZ: ☐
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel in pool tailouts.
OverWinter Habitat	Moderate due to deeper pool, has isolated with LWD and boulders, perennial flows.
Rearing Habitat	Moderate - abundant boulder cover limited by high stream energy and lack of refuge habitat.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 07 STD D			Downstream photo of typical habitat.
R: 87 F: 08 STD U			Upstream photo of typical habitat.

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.035	3357	343

COMMENTS	
Section	Comments
SITE CARD	Additional channel widths (3.8, 5.4, 4.4).
CHANNEL	Flagging Label T81-M20, UTM landing 9 620377 6028649.
CHANNEL	S3

Morice North Planning Area

Reach #	ILP Map #	ILP #
1.0	093L035	3357

Triton Environmental Consultants Ltd.



Site #343, Downstream photo of typical habitat.
Roll #87, Frame #07, Date: 2002/09/19



Site #343, Upstream photo of typical habitat.
Roll #87, Frame #08, Date: 2002/09/19

FDIS Reach Card

Morice North Planning Area

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

Reach # 6.0 ILP Map # 093L.026 ILP # 3678

PROJECT									
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)					Project Code: 5270				
Stream Name (gaz.): BULKLEY RIVER									
Project Watershed Code: 460-000000-00000-00000-0000-000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000									
ILP Map #: 093L.026		ILP #: 3678		Reach #: 6.0		NID Map #: 093L.035		NID #: 11003	
Air Photos			Names			UTM(Zone/East/North/Method)			
LINE: BCC98341_			Gaz.:			9.620392.6028799			
#: 0			Local:			Sample Type: B Wetland: ☐			
SURVEY INFO									
Date: 2002/08/27			Agency: C172			Crew: SG/SH			
ATTRIBUTES									
Length (km): 6.01		Gradient: 1.15		Setting: VF		DISTURBANCE INDICATORS			
DS Elev.: 1127		Order: 5		Open water: A		O1 B1 B2 B3 D1 D2 D3			
US Elev: 1196		Magnitude: 123		Confinement: OC		C1 C2 C3 C4 C5 S1 S2 S3 S4 S5			
		BGC Zone: ESSF		Coupling: PC		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Valley Flat: B		C/D: D		Islands: N					
Active Floodplain Visible: ☐		Est. Width:		Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR					
Channel Pattern: IM				Mass Movement: M		Exposed/Eroded: NS			
				Riparian Veg.: C		Landuse: NS			
MAPS									
Map Type		Map #		Year					
TRIM		093L.035							

Morice North Planning Area

WATERBODY													
Gazetted Name:			Local: Houston Tommy 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.026			ILP #:		3678		Reach #:		6 -	
Project ID: 5270			Lake/Stream: S					Lake From Date:					
Fish Permit #:		145269		Date: 2002/09/19		To: 2002/09/19		Agency: C172		Crew: SG/SH		Resample: ☐	

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO			Temp	Cond	Turbid	Comment
346	093L.035	20346	9	619760	6025745	GPU	EF	1	4	40	C	
344	093L.035	20344	9	620377	6028657	GPU	EF	1	5.5	50	L	

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment	
344	EF	1	1	2002/09/19	16:04	2002/09/19	16:45	
346	EF	1	1	2002/09/20	07:30	2002/09/20	08:00	

Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
344	EF	1	1	O	662	220.0	10.0	700	60	6	SMITH ROOT	12B
346	EF	1	1	O	325	250.0	7.0	800	60	6	SMITH ROOT	12B

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

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3349

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3349		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.620137.6027898				Sample Type: Biased			
Length (km): .39		Coupling: Partially Couple		Magnitude: 2		BGC Zone: ESSF			
Gradient (%): 12.1		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 1212		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 345		Field UTM 9.619958.6027748		Agency: C172		Crew: SG/SH		Date: 2002/09/20	
Site Length (m): 200		GIS UTM 9.619947.6027880		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		2.08		1.700	
Stage: Low ☐				Wetted Width (m):		1.65		1.4	
Med ☒				Bankfull Depth (m):		0.27		0.2	
High ☐		Temp (C): 4		pH: 8.2		Conductivity: 30			
								Turbidity.: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 12.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 4.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		☐		☒	
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: Few		Amount: T		D		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: Coniferous		Stage: Mature forest						Crown Closure	
Left Bank: Rip.Veg:		Stage: Mature forest						21-40%	
				Instream Veg: None ☒		Algae ☐		Moss ☐	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
345	EF	1	200	329 sec	800	NFC	0		

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3349 Site 345

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.035 ILP #: 3349 NID Map #: 093L.035 NID #: 20345 Reach #: 1.0 Site #: 345
Field UTM (Z.E.N): 9.619958.6027748 Method: GPU Site Lg: 200 Method: GIS Access: H
GIS UTM (Z.E.N): 9.619947.6027880 Ref. Name:
Date: 2002/09/20 Time: 08:03 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	1.70	2.00	2.20	1.80	2.50	2.30					2.08	Method I:	7.0	9.0	C	8.50
Wetted Width (m):	MS	1.70	1.80	1.60	1.80	1.40	1.60					1.65	Method II:	11.0	7.0	C	
Pool Depth (m):	MS	0.30	0.25	0.30	0.20	0.30	0.25					0.27					

Wb Depth: .2 .2 .4 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	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

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: 4 Method: T4 Req #: Cond.: 30 Method: S3
pH: 8.2 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 12.0 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: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - due to lack of gravels and seasonal stream flow.
OverWinter Habitat	None - due to lack of pool habitat and seasonal stream flow.
Rearing Habitat	Moderate - abundant cover and shallow pool/run habitat limited by high stream energy.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 10 STD		D	Downstream photo of typical habitat within site.
R: 87 F: 11 STD		U	Upstream photo of typical habitat, LWD.

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.035	3349	345

COMMENTS	
Section	Comments
SITE CARD	Stream fans out at base of hill into 2 channel (shallow). Poor access up from Houston Tommy.
CHANNEL	Inferred S3 (NFC).

FDIS Fish Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3349

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.035		ILP #: 3349		Reach #: 1 -	
Project ID: 5270										Lake/Stream: S		Lake From Date:			
Fish Permit #: 145269				Date: 2002/09/20				To: 2002/09/20		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
345	093L.035	20345				GPU EF 1	4	30	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
345	EF	1	2002/09/20	08:00	2002/09/20	08:50									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
345	EF	1	1	O	329	200.0	1.8	800	60	6	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
345	EF	1	1	NFC		0									



Site #345, Downstream photo of typical habitat within site.
Roll #87, Frame #10, Date: 2002/09/20



Site #345, Upstream photo of typical habitat, LWD.
Roll #87, Frame #11, Date: 2002/09/20

FDIS Reach Card

Morice North Planning Area

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

Reach # 6.0 ILP Map # 093L.026 ILP # 3678

PROJECT

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

WATERSHED

Reach Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
 ILP Map #: 093L.026 ILP #: 3678 Reach #: 6.0 NID Map #: 093L.035 NID #: 11003
 Air Photos Names UTM(Zone/East/North/Method) 9.620392.6028799 GIS
 LINE: BCC98341_ Gaz.: Sample Type: B Wetland: ☐
 #: 0 Local:

SURVEY INFO

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

ATTRIBUTES

Length (km): 6.01 Gradient: 1.15 Setting: VF DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 DS Elev.: 1127 Order: 5 Open water: A ☐ ☐ ☐ ☐ ☐ ☐ ☐
 US Elev: 1196 Magnitude: 123 Confinement: OC C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 BGC Zone: ESSF Coupling: PC ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
 Valley Flat: B C/D: D Islands: N
 Active Floodplain Visible: ☐ Est. Width: Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR
 Channel Pattern: IM Mass Movement: M Exposed/Eroded: NS
 Riparian Veg.: C Landuse: NS

MAPS

Map Type	Map #	Year
TRIM	093L.035	

FDIS Fish Card

Morice North Planning Area

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

Reach # 6.0 ILP Map # 093L.026 ILP # 3678

WATERBODY																	
Gazetted Name:										Local: Houston Tommy 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.026		ILP #: 3678		Reach #: 6 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/19		To:		2002/09/19		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment							
346	093L.035	20346	9	619760	6025745	GPU	EF	1	4	40	C						
344	093L.035	20344	9	620377	6028657	GPU	EF	1	5.5	50	L						
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
344	EF	1	1	2002/09/19	16:04	2002/09/19	16:45										
346	EF	1	1	2002/09/20	07:30	2002/09/20	08:00										
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
344	EF	1	1	O	662	220.0	10.0	700	60	6	SMITH ROOT	12B					
346	EF	1	1	O	325	250.0	7.0	800	60	6	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
344	EF	1	1	NFC		0											
346	EF	1	1	NFC		0											

Morice North Planning Area

Reach #	ILP Map #	ILP #
2.0	093L.035	3332

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.035 ILP # 3332 Site 347

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.035 ILP #: 3332 NID Map #: 093L.035 NID #: 20347 Reach #: 2.0 Site #: 347
Field UTM (Z.E.N): 9.620142.6025510 Method: GPU Site Lg: 110 Method: GE Access: H
GIS UTM (Z.E.N): 9.620174.6025531 Ref. Name:
Date: 2002/09/20 Time: 09:49 Agency: C172 Crew: SG/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gradient %	Mtd	Avg
Channel Width (m):	MS	4.80	5.40	4.60	3.20	4.80	5.30					4.68	Method I:	22.0	26.0	C 23.25
Wetted Width (m):	MS	4.80	5.40	4.40	3.20	4.50	5.10					4.57	Method II:	21.0	24.0	C
Pool Depth (m):	MS	0.40	0.40	0.35	0.20	0.90						0.45				

Wb Depth: .5 .3 .3 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	S	D	N	T	T	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: SHR

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 50 Method: S3
pH: 8.1 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 65.0 D (cm): 24.00 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 ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - no gravel.
OverWinter Habitat	None - no pools >0.3 m deep.
Rearing Habitat	Poor - high energy stream with limited pool depths.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 12 STD		D	Downstream photo of typical habitat
R: 87 F: 13 STD		U	Upstream photo of typical habitat.
R: 87 F: 14 STD		U	Upstream photo of base of steep section (18% Gradient downstream), UTM 620076, 6025492.

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.035	3332	347

COMMENTS	
Section	Comments
CHANNEL	Multiple LWD / Boulder (~1 m in diameter). Falls 0.5 to 0.8 m high.

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.035
ILP # 3332

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.035				ILP #: 3332		Reach #: 2 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/20			To: 2002/09/20			Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
347	093L.035	20347				GPU EF 1	4.5	50	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
347	EF 1	1	2002/09/20	09:15	2002/09/20	10:00								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
347	EF	1	1	O	212	100.0	4.0	800	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
347	EF	1	1	NFC		0								



Site #347, Downstream photo of typical habitat
Roll #87, Frame #12, Date: 2002/09/20



Site #347, Upstream photo of typical habitat.
Roll #87, Frame #13, Date: 2002/09/20



Site #347, Upstream photo of base of steep section
(18% Gradient downstream), UTM 620076, 6025492.
Roll #87, Frame #14, Date: 2002/09/20

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.035 ILP # 3332

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.035		ILP #: 3332		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.620119.6025508				Sample Type: Biased			
Length (km): 31		Coupling: Partially Couple		Magnitude: 11		BGC Zone: ESSF			
Gradient (%): 30.0		Confinement: Frequently Confin		Order: 2		Open water: Absent			
US Elev (m): 1214		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 348		Field UTM 9.619931.6025555		Agency: C172		Crew: SG/SH		Date: 2002/09/20	
Site Length (m): 320		GIS UTM 9.619931.6025557		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 4.77		3.900		5.800	
Stage: Low ☐				Wetted Width (m): 4.33		3.900		4.900	
Med ☒				Bankfull Depth (m): 0.23		0.2		0.3	
High ☐									
Temp (C): 5		pH: 7.9		Conductivity: 50					
				Avg		Min		Max	
				Gradient %: 15.33		12		18	
				Pool Depth (m): 0.30		0.25		0.400	
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 23.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 12.00				Mid-channel ☐		Span ☐	
Channel Pattern: Straight		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		☐		☐	
Confinement: Frequently Confined						☒		☐	
Morphology: CP Cascade Pool						☐		☐	
				C1		C2		C3	
				☐		☐		☐	
				C4		C5		S1	
				☐		☐		☐	
				S2		S3		S4	
				☐		☐		☐	
				S5		☐		☐	
				☐		☐		☐	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Abundant		Amount: T		S		D		N	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☐	
		☐		☐		☐		☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☐		Cobble ☒		Boulder ☐	
Left Bank: Shape: V - shape		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 ☐				1-20%	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
348	EF	1	250	317 sec	800	RB	2	130	180

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3332 Site 348

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.035 ILP #: 3332 NID Map #: 093L.035 NID #: 20348 Reach #: 1.0 Site #: 348
Field UTM (Z.E.N): 9.619931.6025555 Method: GPU Site Lg: 320 Method: MAP Access: H
GIS UTM (Z.E.N): 9.619931.6025557 Ref. Name:
Date: 2002/09/20 Time: 10:13 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	4.20	4.70	5.40	4.60	3.90	5.80					4.77	Method I:	18.0	16.0	C 15.33
Wetted Width (m):	MS	4.10	4.40	4.60	4.10	3.90	4.90					4.33	Method II:	12.0		C
Pool Depth (m):	MS	0.30	0.30	0.25	0.25	0.30	0.40					0.30				

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	S	D	N	N	T	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: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 50 Method: S3
pH: 7.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 23.0 D (cm): 12.0 Morph: CP DISTURBANCE INDICATORS
Pattern: ST 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 - limited gravel.
OverWinter Habitat	Poor - limited pool depths.
Rearing Habitat	Moderate - due to abundant LWD and Boulder cover, perennial flow, shallow pools and deeper runs.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 15 STD D			Downstream photo of typical habitat.
R: 87 F: 16 STD U			Upstream photo of typical habitat with LWD falls.

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.035	3332	348

COMMENTS	
Section	Comments
CHANNEL	S3.

FDIS Fish Card

Morice North Planning Area

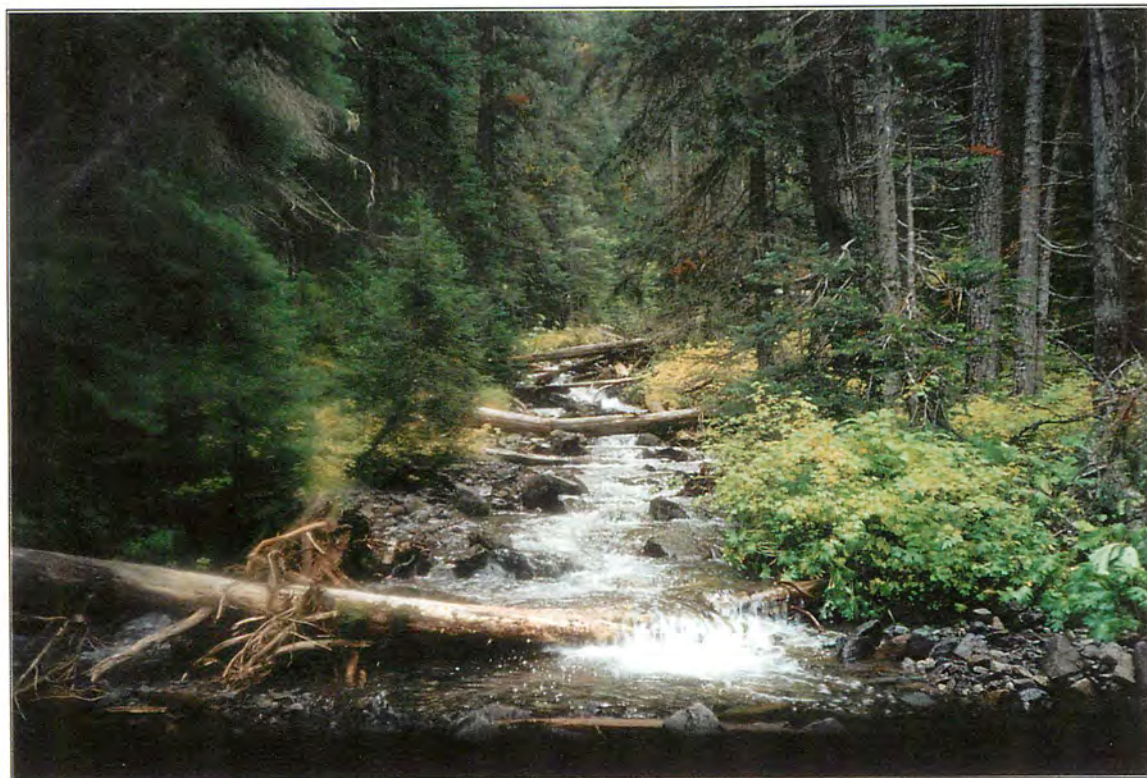
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.035 ILP # 3332

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.035		ILP #: 3332		Reach #: 1 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/09/20		To:		2002/09/20		Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment						
348	093L.035	20348				GPU	EF 1	4.5	50	C							
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
348	EF	1	1	2002/09/20	10:13	2002/09/20	10:45										
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
348	EF	1	1	O	317	250.0	4.0	800	60	6	SMITH	12B					
											ROOT						
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
348	EF	1	1	RB	A	2	130 180	R	~50 m upstream of confluence.								
INDIVIDUAL FISH DATA																	
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment		
								Str/Smpl#/Age			Str/Smpl#						
348	EF	1	1	RB	130		U	M									
348	EF	1	1	RB	180		U	M									



Site #348, Downstream photo of typical habitat.
Roll #87, Frame #15, Date: 2002/09/20



Site #348, Upstream photo of typical habitat with LWD falls.
Roll #87, Frame #16, Date: 2002/09/20

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.035 ILP # 3247

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.035		ILP #:		3247	
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.621090.6021634				Sample Type: Biased					
Length (km): .35		Coupling: Decoupled		Magnitude: 5		BGC Zone: ESSF					
Gradient (%): 22.9		Confinement: Frequently Confin		Order: 3		Open water: Absent					
US Elev (m): 1102		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 349		Field UTM 9.620803.6021441		Agency: C172		Crew: SG/SH		Date: 2002/09/20			
Site Length (m): 200		GIS UTM 9.621010.6021567		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐									
Dewatered: ☐		Tribes.: ☐									
Stage: Low ☐											
Med ☒											
High ☐											
Temp (C): 5		pH: 8.0		Conductivity: 70		Turbidity: Turbid ☐		Low ☐			
						Moderate ☐		Clear ☒			
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 16.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Gravels		D (cm): 7.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Decoupled				INDICATORS		B3		D1		D2	
Confinement: Occasionally Confine						D3					
Morphology: SP Step Pool						C1		C2		C3	
						C4		C5		S1	
						S2		S3		S4	
						S5					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Abundant		Amount: T		D		T		T		N	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒		☒	
Right Bank: Shape: Sloping (g)		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								Manmade ☐	
Left Bank: Rip.Veg:		Stage: Mature forest								Crown Closure 1-20%	
										Instream Veg: None ☒	
										Algae ☐	
										Moss ☐	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.035	25349	X	1.1	MS		HC	R: 87	F: 17	L:	#:	UTM (Z/E/N) 9.620933.6021
Comments: Log Falls (T98).											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
349	EF	1	150	165 sec	800	NFC	0				

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3247 Site 349

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.035 ILP #: 3247 NID Map #: 093L.035 NID #: 20349 Reach #: 1.0 Site #: 349
Field UTM (Z.E.N): 9.620803.6021441 Method: GPU Site Lg: 200 Method: GIS Access: H
GIS UTM (Z.E.N): 9.621010.6021567 Ref. Name:
Date: 2002/09/20 Time: 10:51 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	3.40	4.10	3.90	3.30	3.20	3.10				3.36	Method I:	6.0	8.0	C 7.13
Wetted Width (m):	MS	2.50	3.20	4.00	3.30	3.00	2.80	2.80				3.09	Method II:	7.0	7.5	C
Pool Depth (m):	MS	0.30	0.50	0.50	0.30	0.60	0.25	0.20				0.38				

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

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: A DIST: E

LB SHP: V

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: 5 Method: T4 Req #: Cond.: 70 Method: S3
pH: 8.0 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: 16.0 D (cm): 7.00 Morph: SP 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.035	25349	X	1.1	MS		HC	R: 87 F: 17 L:	#:	9.620933.6021559	GIS

Comments: Log Falls (T98).

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel in margins and tailouts of runs and pool.
OverWinter Habitat	Moderate - abundant pool associated with LWD falls.
Rearing Habitat	Good - due to abundant shallow pool / deep run habitat with abundant LWD cover.

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
1.0	093L.035	3247	349

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	87	F:	17	STD	U	Photo of 1.1 m Log Falls.
R:	87	F:	18	STD	D	Downstream photo of typical habitat.
R:	87	F:	19	STD	U	Upstream photo of typical habitat.
COMMENTS						
Section			Comments			
CHANNEL			Inferred S3.			
CHANNEL			NFC upstream 1.1 m log Falls.			

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.035 ILP # 3247

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.035				ILP #: 3247		Reach #: 1 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/20			To: 2002/09/20			Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
349	093L.035	20349				GPU EF 1	5	70	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
349	EF	1	1	2002/09/20	10:51	2002/09/20	11:30							
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
349	EF	1	1	O	165	150.0	3.5	800	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
349	EF	1	1	NFC		0								
COMMENTS														
Section			Comments											
WATERBODY			Electrofishing effort was conducted upstream of 1.1 m log falls at UTM 9 620803 6021441.											



Site #349, Photo of 1.1 m Log Falls.
Roll #87, Frame #17, Date: 2002/09/20



Site #349, Downstream photo of typical habitat.
Roll #87, Frame #18, Date: 2002/09/20



Site #349, Upstream photo of typical habitat.
Roll #87, Frame #19, Date: 2002/09/20

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.025 3601

STREAM REFERENCING																																	
Gazetted Name:					Local Name:																												
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.025		ILP #: 3601																										
REACH																																	
Reach #: 4.0		UTM(Zone/East/North): 9.626440.6023539				Sample Type: Biased																											
Length (km): 1.12		Coupling: Coupled		Magnitude: 25		BGC Zone: ESSF																											
Gradient (%): 9.3		Confinement: Confined		Order: 3		Open water: Absent																											
US Elev (m): 1266		Islands: NONE		Riparian Vegetation: Coniferous																													
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																	
SITE																																	
Site #: 350		Field UTM 9.626671.6023101		Agency: C172		Crew: SG/SH		Date: 2002/09/20																									
Site Length (m): 450		GIS UTM 9.626633.6023131		Agency Name: Triton Environmental Consultants (Terrace)																													
CHANNEL																																	
No Vis.Ch.: ☐ Intermittent: ☐		Avg Min Max #				Avg Min Max #																											
Dewatered: ☐ Tribes.: ☐		Channel Width (m): 5.37 5 5.800 6				Gradient %: 9.50 9 10 4																											
Stage: Low ☐		Wetted Width (m): 4.45 3.200 4.900 6				Pool Depth (m): 0.58 0.400 0.800 6																											
Med ☒		Bankfull Depth (m): 0.40 0.3 0.5 3				Turbidity: Turbid ☐ Low ☐																											
High ☐		Temp (C): 5		pH: 8.2		Conductivity: 40		Moderate ☐ Clear ☒																									
MORPHOLOGY																																	
Bed Material: Dominant: Boulders		D95 (cm): 53.00		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☒ Span ☐		Braid ☐																											
Subdominant: Cobble		D (cm): 22.00																															
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS																													
Coupling: Coupled				O1 B1 B2 B3 D1 D2 D3																													
Confinement: Confined				☐ ☐ ☐ ☐ ☐ ☒ ☐																													
Morphology: CP Cascade Pool				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																													
				☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐																													
COVER																																	
Total Cover: Abundant		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>S</td> <td>D</td> <td>N</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> </tbody> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	S	D	N	T	T	N	Location: P/S/O:	☒	☒	☒	☐	☒	☒	☐
Type:	SWD	LWD	B	U	DP	OV	IV																										
Amount:	T	S	D	N	T	T	N																										
Location: P/S/O:	☒	☒	☒	☐	☒	☒	☐																										
LWD: Abundant		FSZ: ☐																															
LWD Dist: Clumped																																	
Right Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☒ Rock ☐ Manmade ☐		Crown Closure																													
Left Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☒ Rock ☐ Manmade ☐		1-20%																													
Right Bank: Rip.Veg: 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)																								
350	EF	1	450	325 sec	600	DV	5	60	150																								

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.025 ILP # 3601 Site 350

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.025 ILP #: 3601 NID Map #: 093L.035 NID #: 20350 Reach #: 4.0 Site #: 350
Field UTM (Z.E.N): 9.626671.6023101 Method: GPU Site Lg: 450 Method: GIS Access: H
GIS UTM (Z.E.N): 9.626633.6023131 Ref. Name:
Date: 2002/09/20 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	5.80	5.30	5.30	5.00	5.50	5.30					5.37	Method I:	10.0	9.0	C	9.50
Wetted Width (m):	MS	4.80	4.30	4.70	3.20	4.80	4.90					4.45	Method II:	10.0	9.0	C	
Pool Depth (m):	MS	0.40	0.80	0.80	0.50	0.60	0.40					0.58					

Wb Depth: .3 .5 .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	D	N	T	T	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: 5 Method: T4 Req #: Cond.: 40 Method: S3
pH: 8.2 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 53.0 D (cm): 22.00 Morph: CP DISTURBANCE INDICATORS ☐ ☐ ☐ ☐ ☐ ☒ ☐
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Coupling: CO Bars: N ☐ SIDE ☐ DIAG ☐ MID ☒ SPAN ☐ BR ☐
Confinement: CO
FSZ: ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Good - abundant gravel in pool margins and behind boulders, perennial flows.
OverWinter Habitat	Good - perennial flows and abundant pool habitat up to 0.6 m deep.
Rearing Habitat	Good - perennial flows and abundant LWD/Boulder cover, abundant pool habitat associated with LWD.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 22 STD U			Upstream photo of typical section with LWD falls.
R: 87 F: 20 STD D			Downstream photo of typical habitat.
R: 87 F: 21 STD U			Upstream photo of typical habitat.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	4.0	093L.025	3601	350

COMMENTS	
Section	Comments
CHANNEL	S2 (DV)

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.025 ILP # 3601

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.025				ILP #: 3601		Reach #: 4 -					
Project ID: 5270				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145269		Date: 2002/09/20		To: 2002/09/20		Agency: C172		Crew: SG/SH		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
350	093L.035	20350				GPU EF 1	4.5	40	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
350	EF 1	1	2002/09/20	12:00	2002/09/20	12:30									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
350	EF 1	1	O	325	450.0	4.0	600	60	6	SMITH ROOT	12B				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
350	EF 1	1	DV	J		5	60 150	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#				
350	EF 1	1	DV	60		U	U								
350	EF 1	1	DV	120		U	U								
350	EF 1	1	DV	150		U	U								
350	EF 1	1	DV	145		U	U								
350	EF 1	1	DV	85		U	U								



Site #350, Downstream photo of typical habitat.
Roll #87, Frame #20, Date: 2002/09/20



Site #350, Upstream photo of typical habitat.
Roll #87, Frame #21, Date: 2002/09/20



Site #350, Upstream photo of typical section with LWD falls.
Roll #87, Frame #22, Date: 2002/09/20

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3182

STREAM REFERENCING													
Gazetted Name:						Local Name:							
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.035			ILP #: 3182				
REACH													
Reach #: 1.0		UTM(Zone/East/North): 9.625239.6023836				Sample Type: Biased							
Length (km): 1.38		Coupling: Partially Coupled		Magnitude: 10		BGC Zone: ESSF							
Gradient (%): 16.3		Confinement: Confined		Order: 3		Open water: Absent							
US Elev (m): 1457		Islands: NONE		Riparian Vegetation: Coniferous									
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified													
SITE													
Site #: 351		Field UTM 9.626429.6023556		Agency: C172		Crew: SG/SH		Date: 2002/09/20					
Site Length (m): 100		GIS UTM 9.626323.6023525		Agency Name: Triton Environmental Consultants (Terrace)									
CHANNEL													
No Vis.Ch.: ☐ Intermittent: ☐						Avg		Min		Max		#	
Dewatered: ☐ Tribes.: ☐						Channel Width (m):		3.900		5.300		6	
Stage: Low ☒						Wetted Width (m):		2.3		5.1		6	
Med ☐						Bankfull Depth (m):		0.2		0.3		3	
High ☐		Temp (C): 5		pH: 7.9		Conductivity: 60							
								Turbidity: Turbid ☐ Low ☐					
								Moderate ☐ Clear ☒					
MORPHOLOGY													
Bed Material: Dominant: Boulders		D95 (cm): 100.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐		Span ☐	
Subdominant: Cobble		D (cm): 33.00										Braid ☐	
Channel Pattern: Straight		Islands: None		DISTURBANCE		O1		B1		B2		B3	
Coupling: Partially Coupled				INDICATORS		☐		☐		☐		☐	
Confinement: Confined						C1		C2		C3		C4	
Morphology: SP Step Pool						C5		S1		S2		S3	
						S4		S5					
COVER													
Total Cover: Abundant		Type: SWD		LWD		B		U		DP		OV	
LWD: Few		Amount: N		T		D		N		S		T	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☐		☒		☒	
												FSZ: ☐	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☒		Manmade ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☒		Manmade ☐	
Right Bank: Rip.Veg: 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.035	25351	C	20.0	GE	35	GE	R: 87	F: 23	L:	#:	9.626368.6023		
Comments: Barrier													

FDIS Site Card

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.035 ILP # 3182 Site 351

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.035 ILP #: 3182 NID Map #: 093L.035 NID #: 20351 Reach #: 1.0 Site #: 351
Field UTM (Z.E.N): 9.626429.6023556 Method: GPU Site Lg: 100 Method: GE Access: H
GIS UTM (Z.E.N): 9.626323.6023525 Ref. Name:
Date: 2002/09/20 Time: 12:42 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	4.90	5.30	3.90	5.20	4.40	4.30					4.67	Method I:	16.0	18.0	C	31.00
Wetted Width (m):	MS	4.90	5.10	2.30	4.10	4.00	3.40					3.97	Method II:	42.0	48.0	C	
Pool Depth (m):	MS	0.60	0.40	0.80	0.60	0.60	0.60					0.60					

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:	N	T	D	N	S	T	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: 7.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 100.0 D (cm): 33.00 Morph: SP 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.035	25351	C	20.0	GE	35	GE	R: 87 F: 23 L:	#:	9.626368.6023544	GIS
Comments: Barrier										

HABITAT QUALITY

Name	Comments
Spawning Habitat	None - no gravel.
OverWinter Habitat	Good - abundant deep pool and perennial flows.
Rearing Habitat	Good - abundant boulder and deep pool habitat, perennial flows.

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.035	3182	351

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	87	F:	23	STD	U	Upstream photo of cascade (20 x 35 m).
R:	87	F:	24	STD	D	Downstream photo of typical habitat with mainstem in background.
COMMENTS						
Section				Comments		
CHANNEL				Cascade is located ~80 m upstream of confluence (UTM N/A).		
CHANNEL				S3/S5		



Site #351, Upstream photo of cascade (20 x 35 m).
Roll #87, Frame #23, Date: 2002/09/20



Site #351, Downstream photo of typical habitat with mainstem in background.
Roll #87, Frame #24, Date: 2002/09/20

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #

5.0 093L.025 3601

SITE									
Site #: 615		Field UTM 9.625727.6024666		Agency: C172		Crew: JH/TT		Date: 2002/09/20	
Site Length (m): 200		GIS UTM 9.625704.6024769		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐	Intermittent: ☐								
Dewatered: ☐	Tribs.: ☐								
Stage: Low ☐		Channel Width (m):		Avg	Min	Max	#		
Med ☒		Wetted Width (m):		4.27	3.400	5.6	6		
High ☐		Bankfull Depth (m):		2.98	2.700	3.400	6		
				0.23	0.2	0.3	3		
				Avg		Min	Max	#	
				Gradient %:		18.75	16	22	4
				Pool Depth (m):		0.45	0.300	0.600	6
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
Temp (C): 6		pH: 7.2		Conductivity: 30					
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 100.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 40.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1	B1	B2	B3
Coupling: Partially Coupled				INDICATORS					
Confinement: Frequently Confined				C1	C2	C3	C4	C5	S1
Morphology: CP Cascade Pool									S2
									S3
									S4
									S5
COVER									
Total Cover: Abundant		Type: SWD		LWD	B	U	DP	OV	IV
LWD: None		Amount: T		T	S	T	D	N	N
LWD Dist: Not Applicable		Location: P/S/O:		☒	☒	☒	☒	☒	☐
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: Shrubs		Stage: Shrub/herb stage		Instream Veg: None ☒					
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		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)
352	EF	1	250	348 sec	600	NFC	0		
615	EF	1	200	480 sec	600	DV	6	100	120

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.025 ILP # 3601 Site 352

PROJECT

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

WATERSHED

Gazetted Name: Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000
Local Name: ILP Map #: 093L.025 ILP #: 3601 NID Map #: 093L.035 NID #: 20352 Reach #: 5.0 Site #: 352
Field UTM (Z.E.N): 9.626429.6023556 Method: GPU Site Lg: 250 Method: GIS Access: H
GIS UTM (Z.E.N): 9.626371.6023689 Ref. Name:
Date: 2002/09/20 Time: 13:08 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	3.80	4.20	5.50	3.20	3.80	3.90					4.07	Method I:	16.0	18.0	C	16.50
Wetted Width (m):	MS	3.80	3.70	3.90	3.20	2.70	2.90					3.37	Method II:	16.0	16.0	C	
Pool Depth (m):	MS	0.40	0.30	0.45	0.50	0.30	0.40					0.39					

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:	N	S	D	N	T	T	N
Loc: P/S/O:	☐	☒	☒	☐	☒	☒	☐

LWD: A 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.: 70 Method: S3
pH: 8.1 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 55.0 D (cm): 20.00 Morph: CP DISTURBANCE INDICATORS
Pattern: ST C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - very limited pockets of gravel.
OverWinter Habitat	Poor - due to limited pool depths (<0.4 m), high stream energy with lack of refuge habitat.
Rearing Habitat	Moderate - abundant LWD/Boulder cover in shallow pools, limited by high energy.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 87 F: 25	STD	U	Upstream photo of 18% cascades (2 x 5 m).
R: 88 F: 00A	STD	D	Downstream photo of typical habitat downstream.
R: 88 F: 01A	STD	U	Upstream photo of 100 m upstream of confluence with ILP 3182.

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
5.0	093L.025	3601	352

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	88	F:	02A	STD	U	Upstream photo of confluence of ILP 3182 (left) with ILP 3602 (right).
COMMENTS						
Section			Comments			
CHANNEL			Inferred S3 (NFC).			

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.025 ILP # 3601

WATERBODY																
Gazetted Name:										Local:						
Project Code: 460-000000-00000-00000-0000-000-000-000-000-0																
WS Code: 000-000000-00000-00000-0000-000-000-000-000-0																
Waterbody ID:				ILP Map #: 093L.025				ILP #: 3601		Reach #: 5 -						
Project ID: 5270				Lake/Stream: S				Lake From Date:								
Fish Permit #:		145269		Date: 2002/09/20		To: 2002/09/20		Agency: C172		Crew: JH/TT		Resample: ☐				
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment						
615	093L.035	50615				GPU EF 1	6	30	C							
352	093L.035	20352				GPU EF 1	4.5	70	C							
A. GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
352	EF 1	1	2002/09/20	13:08	2002/09/20	14:00										
615	EF 1	1	2002/09/20	13:00	2002/09/20	13:45										
C. ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model					
352	EF	1	1	O	348	250.0	3.2	600	60	6	SMITH ROOT	12B				
615	EF	1	1	O	480	200.0	4.0	600	I	5	SMITH ROOT	12B				
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment							
352	EF	1	1	NFC		0										
615	EF	1	1	DV	J	6	100 120	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#					
615	EF	1	1	DV	100		U	U								
615	EF	1	1	DV	110		U	U								
615	EF	1	1	DV	100		U	U								
615	EF	1	1	DV	100		U	U								
615	EF	1	1	DV	120		U	U								
615	EF	1	1	DV	110		U	U								



Site #352, Upstream photo of 18% cascades (2 x 5 m).
Roll #87, Frame #25, Date: 2002/09/20



Site #352, Downstream photo of typical habitat downstream.
Roll #88, Frame #00A, Date: 2002/09/20



Site #352, Upstream photo of 100 m upstream of confluence with ILP 3182.
Roll #88, Frame #01A, Date: 2002/09/20



Site #352, Upstream photo of confluence of ILP 3182 (left) with ILP 3602 (right).
Roll #88, Frame #02A, Date: 2002/09/20

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.035 3174

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.035			ILP #: 3174		
REACH											
Reach #: 2.0		UTM(Zone/East/North): 9.627620.6023195				Sample Type: Biased					
Length (km): 1.33		Coupling: Partially Couple		Magnitude: 3		BGC Zone: ESSF					
Gradient (%): 7.5		Confinement: Frequently Confin		Order: 2		Open water: Absent					
US Elev (m): 1229		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 353		Field UTM 9.627580.6022008		Agency: C172		Crew: SG/SH		Date: 2002/09/20			
Site Length (m): 200		GIS UTM 9.627543.6022036		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.83		1.5		2.200		6	
Stage: Low ☐				Wetted Width (m): 1.73		1.5		2		6	
Med ☒				Bankfull Depth (m): 0.23		0.1		0.3		3	
High ☐		Temp (C): 5		pH: 8.2		Conductivity: 90					
								Turbidity: Turbid ☐ Low ☐			
								Moderate ☐ Clear ☒			
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 13.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Gravels		D (cm): 5.00								Braid ☐	
Channel Pattern: Sinuous		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: RP Riffle Pool						☐		☐		☐	
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP OV IV	
LWD: Few		Amount: T		S		D		T		T N	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☒		Rock ☐ Manmade ☐	
Left Bank: Shape: V - shape		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☒		Rock ☐ Manmade ☐	
Right Bank: Rip.Veg: 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.035	26353	F	2.0	MS	0	HC	R: 88	F: 08A	L:	#:	9.627437.6021
Comments: Boulder Falls (Photos 08 and 09).											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.035	25353	C	5.0	MS	12	HC	R: 88	F: 06A	L:	#:	9.627395.6021
Comments: Cascade											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
353	EF	1	200	326 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.035 ILP # 3174 Site 353

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.035 ILP #: 3174 NID Map #: 093L.035 NID #: 20353 Reach #: 2.0 Site #: 353
Field UTM (Z.E.N): 9.627580.6022008 Method: GPU Site Lg: 200 Method: GIS Access: H
GIS UTM (Z.E.N): 9.627543.6022036 Ref. Name:
Date: 2002/09/20 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	1.80	1.80	2.20	1.50	1.70	2.00					1.83	Method I:	4.0	5.0	C	4.25
Wetted Width (m):	MS	1.70	1.80	1.80	1.50	1.60	2.00					1.73	Method II:	4.0	4.0	C	
Pool Depth (m):	MS	0.20	0.20	0.20	0.30	0.25	0.20					0.23					

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

CROWN CLOSURE
2 21-40%

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: 5 Method: T4 Req #: Cond.: 90 Method: S3
pH: 8.2 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 13.0 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: 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.035	26353	F	2.0	MS	0	HC	R: 88 F: 08A L:	#:	9.627437.6021808	GIS
Comments: Boulder Falls (Photos 08 and 09).										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.035	25353	C	5.0	MS	12	HC	R: 88 F: 06A L:	#:	9.627395.6021792	GIS
Comments: Cascade										

HABITAT QUALITY

Name Comments

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
2.0	093L.035	3174	353

HABITAT QUALITY					
Name			Comments		
Spawning Habitat			Poor - limited by lack of gravel and seasonal flows. Small pockets observed behind boulder cover.		
OverWinter Habitat			None - no pools.		
Rearing Habitat			Moderate - abundant boulder cover limited by shallow pool depths and seasonal flows.		
PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	88 F: 03A	STD	D	Downstream photo of typical habitat.	
R:	88 F: 04A	STD	U	Upstream photo of typical habitat.	
R:	88 F: 05A	STD	U	Upstream photo of 1.7 m Log Falls (~50 m upstream of confluence).	
R:	88 F: 06A	STD	U	Upstream photo of 5 x 12 m Cascade.	
R:	88 F: 08A	STD	U	Upstream photo of 2.0 m Boulder Falls.	
R:	88 F: 09A	STD	U	Upstream photo of 2.0 m Boulder Falls (UTM 9, 627424, 6021805).	
R:	88 F: 10A	STD	U	Upstream photo of 1.3 m Boulder Falls (UTM 9, 627471, 6021846).	
COMMENTS					
Section		Comments			
CHANNEL		Electrofished 200 m for 326 seconds (600 Voltage).			
CHANNEL		S6 (NFC).			

FDIS Fish Card

Morice North Planning Area

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

Reach # 2.0 ILP Map # 093L.035 ILP # 3174

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.035				ILP #: 3174		Reach #: 2 -				
Project ID: 5270				Lake/Stream: S				Lake From Date:						
Fish Permit #: 145269			Date: 2002/09/20			To: 2002/09/20			Agency: C172		Crew: SG/SH		Resample: ☐	
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
353	093L.035	20353				GPU EF 1	5	90	C					
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
353	EF	1	2002/09/20	14:30	2002/09/20	15:30								
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
353	EF	1	1	O	326	200.0	1.8	600	60	6	SMITH ROOT	12B		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
353	EF	1	1	NFC		0								



Site #353, Downstream photo of typical habitat.
Roll #88, Frame #03A, Date: 2002/09/20



Site #353, Upstream photo of typical habitat.
Roll #88, Frame #04A, Date: 2002/09/20



Site #353, Upstream photo of 1.7 m Log Falls (~50 m upstream of confluence).
Roll #88, Frame #05A, Date: 2002/09/20



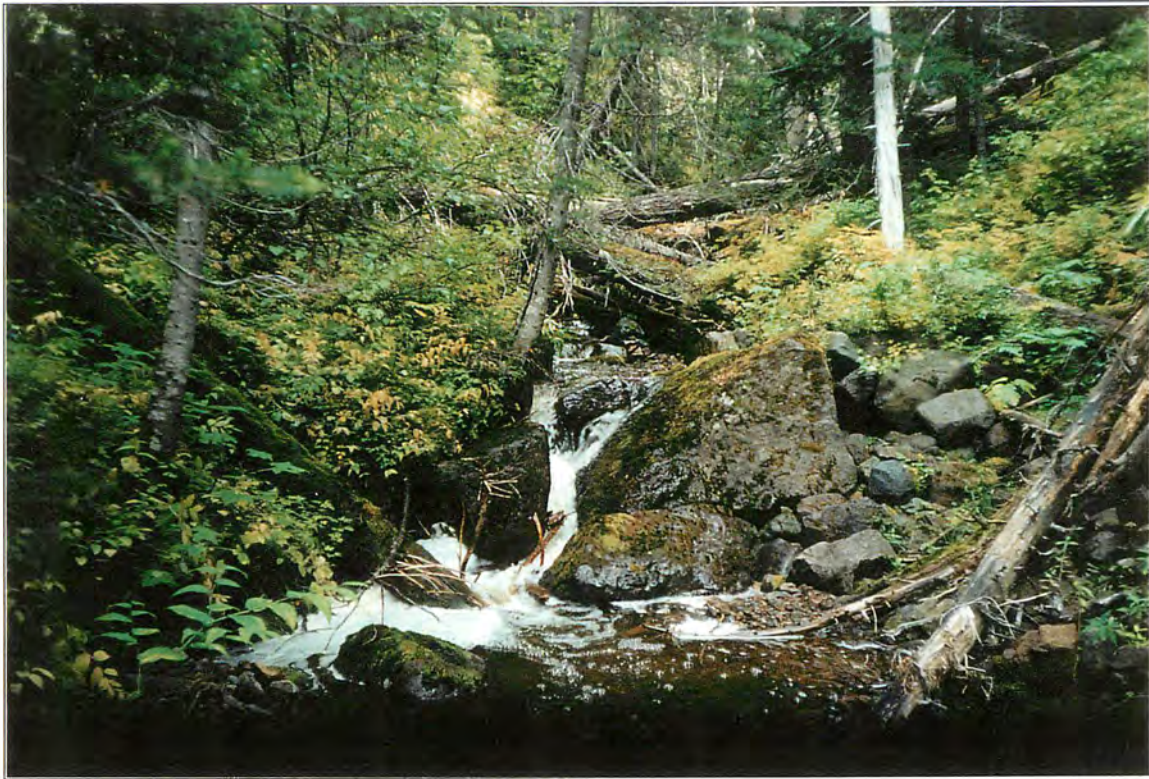
Site #353, Upstream photo of 5 x 12 m Cascade.
Roll #88, Frame #06A, Date: 2002/09/20



Site #353, Upstream photo of 2.0 m Boulder Falls.
Roll #88, Frame #08A, Date: 2002/09/20



Site #353, Upstream photo of 2.0 m Boulder Falls (UTM 9, 627424, 6021805).
Roll #88, Frame #09A, Date: 2002/09/20



Site #353, Upstream photo of 1.3 m Boulder Falls (UTM 9, 627471, 6021846).
Roll #88, Frame #10A, Date: 2002/09/20

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # ILP Map # ILP #

6.0 093L.035 3164

STREAM REFERENCING

Gazetted Name: Local Name:
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000 ILP Map #: 093L.035 ILP #: 3164

REACH

Reach #: 6.0 UTM(Zone/East/North): 9.624308.6022163 Sample Type: Biased
Length (km): .51 Coupling: Decoupled Magnitude: 2 BGC Zone: AT
Gradient (%): 2.4 Confinement: Occasionally Conf Order: 2 Open water: Present
US Elev (m): 1483 Islands: NONE Riparian Vegetation: Shrubs
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified

SITE

Site #: 354 Field UTM 9.624599.6021813 Agency: C172 Crew: SG/SH Date: 2002/09/20
Site Length (m): 130 GIS UTM 9.624593.6021901 Agency Name: Triton Environmental Consultants (Terrace)

CHANNEL

No Vis.Ch.: ☐ Intermittent: ☐ Avg Min Max #
Dewatered: ☐ Tribes.: ☐ Channel Width (m): 0.57 0.400 1 6
Stage: Low ☐ Wetted Width (m): 0.52 0.400 0.800 6
Med ☒ Bankfull Depth (m): 0.20 0.1 0.3 3
High ☐ Temp (C): 5 pH: 8.3 Conductivity: 40
Turbidity: Turbid ☐ Low ☐
Moderate ☐ Clear ☒

MORPHOLOGY

Bed Material: Dominant: Gravels D95 (cm): 3.00 Bars: Non ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐
Subdominant: Cobble D (cm): 1.00 Braid ☐
Channel Pattern: Sinuous Islands: None DISTURBANCE O1 B1 B2 B3 D1 D2 D3
Coupling: Decoupled INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐
Confinement: Occasionally Confine C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Morphology: RP Riffle Pool ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

COVER

Total Cover: Abundant Type: SWD LWD B U DP OV IV
Amount: N N N S N D N
LWD: None Location: P/S/O: ☐ ☐ ☐ ☒ ☐ ☐ ☒ ☐ FSZ: ☐
LWD Dist: Not Applicable
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 ☐ 0%
Right Bank: Rip.Veg: Shrubs Stage: Non-vegetated or initi
Left Bank: Rip.Veg: Stage: Non-vegetated or initi 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)
354	EF	1	175	297 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 # 6.0 ILP Map # 093L.035 ILP # 3164 Site 354

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.035 ILP #: 3164 NID Map #: 093L.035 NID #: 20354 Reach #: 6.0 Site #: 354
Field UTM (Z.E.N): 9.624599.6021813 Method: GPU Site Lg: 130 Method: HC Access: H
GIS UTM (Z.E.N): 9.624593.6021901 Ref. Name:
Date: 2002/09/20 Time: 15:22 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	0.60	0.50	0.40	0.50	0.40					0.57	Method I:	5.0	5.0	C	5.00
Wetted Width (m):	MS	0.80	0.60	0.50	0.40	0.40	0.40					0.52	Method II:	5.0		C	
Pool Depth (m):	MS	0.10	0.10	0.10	0.10	0.10	0.10					0.10					

Wb Depth: .1 .3 .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:	N	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: S

STG: INIT

CROWN CLOSURE

0 0%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☐ C ☒ B ☐ R ☐ A ☐

RIP: S

STG: INIT

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 40 Method: S3
pH: 8.3 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: 3.00 D (cm): 1.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Spawning Habitat	Poor - due to seasonal stream flows.
OverWinter Habitat	None - no pools.
Rearing Habitat	Poor - abundant overvegetation cover but no pools.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 88 F: 11A	STD	D	Downstream photo of typical habitat.
R: 88 F: 12A	STD	U	Upstream photo of typical habitat.

FDIS Site Card

Morice North Planning Area

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

Reach #6.0ILP Map #093L.035ILP #3164Site354

COMMENTS	
Section	Comments
CHANNEL	Electrofished 297 seconds for 175 m, 800 Voltage.
CHANNEL	NFC

FDIS Fish Card

Morice North Planning Area

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

Reach # 6.0 ILP Map # 093L.035 ILP # 3164

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.035				ILP #: 3164		Reach #: 6 -			
Project ID: 5270				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145269			Date: 2002/09/20			To: 2002/09/20			Agency: C172		Crew: SG/SH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
354	093L.035	20354				GPU EF 1	4.5	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
354	EF 1	1	2002/09/20	15:22	2002/09/20	16:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
354	EF	1	1	O	297	175.0	0.5	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
354	EF	1	1	NFC		0							



Site #354, Downstream photo of typical habitat.
Roll #88, Frame #11A, Date: 2002/09/20



Site #354, Upstream photo of typical habitat.
Roll #88, Frame #12A, Date: 2002/09/20

FDIS Reach/Site Summary

Morice North Planning Area

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

Reach # 1.0 ILP Map # 093L.013 ILP # 3753

STREAM REFERENCING												
Gazetted Name:						Local Name:						
Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.013			ILP #: 3753			
REACH												
Reach #: 1.0		UTM(Zone/East/North): 9.599264.5996402				Sample Type: Biased						
Length (km): .52		Coupling: Partially Couple		Magnitude: 17		BGC Zone: SBS						
Gradient (%): 9.4		Confinement: Frequently Confin		Order: 3		Open water: Absent						
US Elev (m): 812		Islands: NONE		Riparian Vegetation: Mixed C/D								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified												
SITE												
Site #: 450		Field UTM ..		Agency: C172		Crew: JH/JD		Date: 2002/10/01				
Site Length (m): 200		GIS UTM 9.599529.5996067		Agency Name: Triton Environmental Consultants (Terrace)								
CHANNEL												
No Vis.Ch.: ☐		Intermittent: ☐		Avg Min Max #				Avg Min Max #				
Dewatered: ☐		Tribes: ☐		Channel Width (m): 11.14 10 14 7				Gradient %: 8.50 6 10 4				
Stage: Low ☐		Wetted Width (m): 5.00 4 6 7				Pool Depth (m): 0.87 0.600 1.200 7						
Med ☒		Bankfull Depth (m): 0.73 0.6 0.9 3				Turbidity: Turbid ☐ Low ☐						
High ☐		Temp (C): 5		pH: 6.9		Conductivity: 50		Moderate ☐ Clear ☒				
MORPHOLOGY												
Bed Material: Dominant: Boulders		D95 (cm): 90.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☒ Span ☐		
Subdominant: Cobble		D (cm): 50.00								Braid ☐		
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1 B1 B2 B3 D1 D2 D3						
Coupling: Partially Coupled				INDICATORS		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐						
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐						
Morphology: CP Cascade Pool												
COVER												
Total Cover: Abundant		Type: SWD LWD B U DP OV IV										
LWD: Few		Amount: T S T N D T N										
LWD Dist: Clumped		Location: P/S/O: ☒ ☐ ☐ ☒ ☐ ☐ ☒ ☐ ☐ ☐ ☒ ☐										FSZ: ☐
Right Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐										Crown Closure
Left Bank: Shape: V - shape		Texture: Fines ☐ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐										21-40%
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest										
Left Bank: Rip.Veg:		Stage: Mature forest										Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐
FEATURES												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)	
093L.013	95401	F	5.0	GE			R: 65	F: 20	L:	#:	9.598830.5996	
Comments: Barrier.												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)	
093L.013	95400	F	5.0	GE			R: 65	F: 19	L:	#:	9.598852.5996	
Comments: Barrier.												
FISH												
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)			
450	EF	1	200	731 sec	800	RB	5	45	50			

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.013 ILP # 3753 Site 450

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.013 ILP #: 3753 NID Map #: 093L.013 NID #: 95450 Reach #: 1.0 Site #: 450
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: MAP Access: H
GIS UTM (Z.E.N): 9.599529.5996067 Ref. Name:
Date: 2002/10/01 Time: 11:00 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	GE	12.00	10.00	10.00	10.00	12.00	14.00	10.00				11.14	Method I:	6.0	10.0	C	8.50
Wetted Width (m):	GE	6.00	5.00	5.00	4.00	5.00	6.00	4.00				5.00	Method II:	8.0	10.0	C	
Pool Depth (m):	T	1.00	1.20	0.90	0.60	0.80	0.70	0.90				0.87					

Wb Depth: .6 .9 .7 Avg: 0.73 Method: T Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: F DIST: C

LB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: V

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 5 Method: T4 Req #: Cond.: 50 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 90.0 D (cm): 50.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☒ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.013	95401	F	5.0	GE			R: 65 F: 20 L:	#:	9.598830.5996970	GIS
Comments: Barrier.										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.013	95400	F	5.0	GE			R: 65 F: 19 L:	#:	9.598852.5996843	GIS
Comments: Barrier.										

HABITAT QUALITY

Name Comments

FDIS Site Card

Morice North Planning Area

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

Reach #	ILP Map #	ILP #	Site
1.0	093L.013	3753	450

HABITAT QUALITY					
Name			Comments		
OverWinter Habitat			Associated with pools.		
Rearing Habitat			Associated with pools / LWD / D95.		
Spawning Habitat			Low - limited by coarse substrates.		
PHOTOS					
Photo		Foc Lg	Dir	Comments	
R:	65 F: 16	STD	U	Pool with functioning LWD	
R:	65 F: 17	STD	D	Downstream photo within lower portion of site.	
R:	65 F: 18	STD	U	Upstream photo within site.	
R:	65 F: 19	STD	X	Falls 5 m.	
R:	65 F: 20	STD	X	Falls 5 m.	
COMMENTS					
Section		Comments			
CHANNEL		Lots of RB fry at confluence. Stream has jumped back in areas. Numerous falls / barriers / cascade / gradient observed during RECCI to upstream sample site.			
CHANNEL		High energy, disturbed.			
CHANNEL		RB - low density ~5 / 50 (approximately 45 - 50 mm) in lower 50 m, no fish caught upstream of 50 m.			

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 # 3753

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 #: 3753		Reach #: 1 -			
Project ID: 5270										Lake/Stream: S		Lake From Date:					
Fish Permit #:		145269		Date:		2002/10/01		To:		2002/10/01		Agency: C172		Crew: JH/JD		Resample: ☐	
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment						
450	093L.013	95450				GPU	EF	1	5	50	C						
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
450	EF	1	1	2002/10/01	10:00	2002/10/01	11:15										
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
450	EF	1	1	O	731	200.0	10.0	800	I	5	SMITH ROOT	12B					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment								
450	EF	1	1	RB	J	2+	5	45	50	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#						
450	EF	1	1	RB	45		U	U									
450	EF	1	1	RB	45		U	U									
450	EF	1	1	RB	50		U	U									
450	EF	1	1	RB	50		U	U									
450	EF	1	1	RB	50		U	U									



Site #450, Pool with functioning LWD
Roll #65, Frame #16, Date: 2002/10/01



Site #450, Downstream photo within lower portion of site.
Roll #65, Frame #17, Date: 2002/10/01



Site #450, Upstream photo within site.
Roll #65, Frame #18, Date: 2002/10/01



Site #450, Falls 5 m.
Roll #65, Frame #19, Date: 2002/10/01



Site #450, Falls 5 m.
Roll #65, Frame #20, Date: 2002/10/01

FDIS Reach 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.013 ILP # 3753

PROJECT									
Project Name: RFFHI within the Morice Forest District (tribs to Morice R.)					Project Code: 5270				
Stream Name (gaz.): BULKLEY RIVER									
Project Watershed Code: 460-000000-00000-00000-0000-0000-000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000									
ILP Map #: 093L.013		ILP #: 3753		Reach #: 2.0		NID Map #: 093L.013		NID #: 12352	
Air Photos			Names			UTM(Zone/East/North/Method)			
LINE: BCC98341			Gaz.:			9.595611.5995656 GIS			
#: 0			Local:			Sample Type: B		Wetland: ☐	
SURVEY INFO									
Date: 2002/08/27				Agency: C172			Crew: SG/SH		
ATTRIBUTES									
Length (km): 4.88		Gradient: 15.86		Setting: VW		DISTURBANCE INDICATORS			
DS Elev.: 812		Order: 3		Open water: A		☐ O1 ☐ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3			
US Elev: 1586		Magnitude: 10		Confinement: FC		☐ C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5			
		BGC Zone: ESSF		Coupling: PC		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Valley Flat: N		C/D: ☐		Est. Width:		Islands: N			
Active Floodplain Visible: ☐				Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR					
Channel Pattern: SI				Mass Movement: M		Exposed/Eroded: NS			
				Riparian Veg.: C		Landuse: NS			

MAPS		
Map Type	Map #	Year
TRIM	093L.013	

Morice North Planning Area

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

Reach #	ILP Map #	ILP #
2.0	093L.013	3753

Triton Environmental Consultants Ltd.

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.013 3749

SITE																							
Site #: 452		Field UTM 9.600252.5996952		Agency: C172		Crew: JH/JD		Date: 2002/10/01															
Site Length (m): 150		GIS UTM 9.600185.5996983		Agency Name: Triton Environmental Consultants (Terrace)																			
CHANNEL																							
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#		Avg		Min		Max		#					
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		3.90		3.400		4.400		6		Gradient %:		5.67		5		6		3	
Stage: Low ☐				Wetted Width (m):		1.92		1.5		2.3		6		Pool Depth (m):		0.20		0.100		0.300		6	
Med ☒				Bankfull Depth (m):		0.77		0.7		0.8		3		Turbidity: Turbid ☐		Low ☐							
High ☐		Temp (C): 6		pH: 6.9				Conductivity: 40						Moderate ☐		Clear ☒							
MORPHOLOGY																							
Bed Material: Dominant: Boulders		D95 (cm): 80.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☐		Span ☐											
Subdominant: Cobble		D (cm): 30.00																					
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: None		Amount: T		T		T		S		T		D		N									
LWD Dist: Not Applicable		Location: P/S/O:		☒		☒		☒		☒		☒		☒		☐		☐				FSZ: ☐	
Right Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐				Crown Closure							
Left Bank: Shape: Undercut		Texture: Fines ☐		Gravel ☒		Cobble ☐		Boulder ☐		Rock ☐		Manmade ☐				1-20%							
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest																					
Left Bank: Rip.Veg:		Stage: Mature forest														Instream Veg: None ☒		Algae ☐		Moss ☐		Vascular ☐	
FISH																							
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)														
42	EF	1	200	227 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)														
452	EF	1	150	460 sec	800	RB	1	50	50														

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 452

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 #: 3749 NID Map #: 093L.013 NID #: 95452 Reach #: 1.0 Site #: 452
Field UTM (Z.E.N): 9.600252.5996952 Method: GPU Site Lg: 150 Method: MAP Access: H
GIS UTM (Z.E.N): 9.600185.5996983 Ref. Name:
Date: 2002/10/01 Time: 12:15 Agency: C172 Crew: JH/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	3.40	4.00	4.00	3.60	4.40	4.00					3.90	Method I:	5.0	6.0	C	5.67
Wetted Width (m):	T	2.00	1.60	2.00	1.50	2.10	2.30					1.92	Method II:	6.0		C	
Pool Depth (m):	T	0.10	0.20	0.20	0.20	0.30	0.20					0.20					

Wb Depth: .7 .8 .8 Avg: 0.77 Method: T Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

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

LWD: N DIST: NA

LB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: U

Texture: F ☐ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 6 Method: T4 Req #: Cond.: 40 Method: S3
pH: 6.9 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: Rafted debris Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 80.0 D (cm): 30.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: PC
Confinement: OC
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

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

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 65 F: 21 STD U			Upstream photo within site.
R: 65 F: 22 STD D			Downstream photo within site.

FDIS Site Card

Morice North Planning Area

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	1.0	093L.013	3749	452

COMMENTS	
Section	Comments
CHANNEL	Active shallow stream.
CHANNEL	1 RB captured at bottom of stream immediately upstream of confluence (50 mm).

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 # 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:		2002/10/01		To: 2002/10/01		Agency: C172		Crew: JH/JD		Resample: ☐	
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
452	093L.013	95452				GPU EF 1	6	40	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
452	EF	1	2002/10/01	12:15	2002/10/01	13:00									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
452	EF	1	1	O	460	150.0	4.0	800	I	5	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
452	EF	1	1	RB	J	2+	1	50	50	R					
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Roll #	Frame#	Comment		
								Str/Smpl#		Str/Smpl#					
452	EF	1	1	RB	50		U	U							



Site #452, Upstream photo within site.
Roll #65, Frame #21, Date: 2002/10/01



Site #452, Downstream photo within site.
Roll #65, Frame #22, Date: 2002/10/01