APPENDIX B

Fish Habitat Assessment Fact Sheets



WATERCOURS	E INFORMATION	CHANNEL ME	ASUREMENTS		RIPARIAN VEGI	ETATION SPECIES
		Average Channel Width (m)	2.90	#	Common Name	Scientific Name
	Nuttby	Average Wetted Width (m)	2.88	1	Sugar Maple	Acer saccharum
Watercourse ID.	Watercourse NR-	Average Bankful Depth (m)	0.45	2		#N/A
Water course iD.	Water course INI-	Average Water Depth (m)	0.41	3		#N/A
	WC-121a204	Average Pool Depth (m)	MODDUOLOCY	4		#N/A
		WATERCOORSE	MORPHOLOGY	5		#N/A
General Site Location:	Nuttby	Watercourse Type	Large Permanent	6		#N/A
Watercourse Name	Middle Branch North River	Stage (season was very dry)	Mid	7		#N/A
Field Assessor(s)	MB, NH	Morphology (assumed in dry area	Riffle	8		#N/A
Field Assessment Date:	13-Dec-22	Channel Depth Class	Class 3: <0.5m	9		#N/A
UTM Coordinates:	20 T 0481507 5044250	Pattern	Irregular Meandering	10		#N/A
Datum:	UTM	Slope	0.5		RIPARIAN II	NFORMATION
HABITAT QUALIT	Y (AT CENTRELINE)	Confinement	Unconfined		wn Closure %	1-25%
Overall Habitat Quality	Good				k Texture	Fines
Spawning	Moderate	INSTREA	M COVER	Ban	k Shape	Shallow Slope (<100% / 45 deg.)
Rearing	Good	Dominant	Deep Pool	Ban	k Stability	Fair 50-80% Stable
Foraging	Good	Subdominant	Undercut Banks	Veg	etation Stage	Mature Forest
Migration	Excellent	Subdominant	Small Woody Debris	IMPORTANT FEATURES OBSERVED		ATURES OBSERVED
Overwintering	Moderate	Subdominant		Spa	wning Area / REDD	
POTENTIAL FO	R FISH PRESENCE	Subdominant		Bea	ver Dam	
Overall Fish Potential	Low	Trace	Large Woody Debris	Bea	ver Pond	
FISH O	BSERVED	Trace	Boulder	Unc	lerground Sections	
1	No	Trace	Instream Vegetation	Wat	erfall or Cascade	\checkmark
WATER QUALIT	Y AND VELOCITY	Trace	Overhanging Vegetation	No	Defined Channel	
Temperature (Deg. C)	4.7	SUBS	TRATE	Har	iging Culvert	
рН	6.06	Dominant	Cobble	Bloo	ked or Damaged Culvert	
Dissolved Oxygen (mg/l)	12.37	Subdominant	Gravel	Bric	lge	
Dissolved Oxygen (%)	100.4	Subdominant	Fines		ADDITIO	NAL NOTES
Conductivity (µs/cm)	26.6	Trace	Boulder		Waterfall (~ 4 m high) located	~80 m upstream of centreline /
Salinity (mg/L)	0.01	Trace	Organics	cro	ssing. Larger waterfall located	>500 m downstream of centreline
Total Dissolved Solids (g/L)	17.5	BAR	RIERS		(did not observe size).	
Turbidity (NTU)		Yes, Fu	ll Barrier	V	Vaterfall/cascade (6-8 m high l	oy 20 - 30 m long, with 1 to 1.5 m
Average Velocity (m/sec)		STREAM INV	/ERTEBRATES		drops) at 150 m dow	Instream of centreline.
Velocity Location		Low (5-20%)			

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: NR-WC-121a204





Photo 3: Feature 1 (Waterfall ~80 m upstream from crossing)

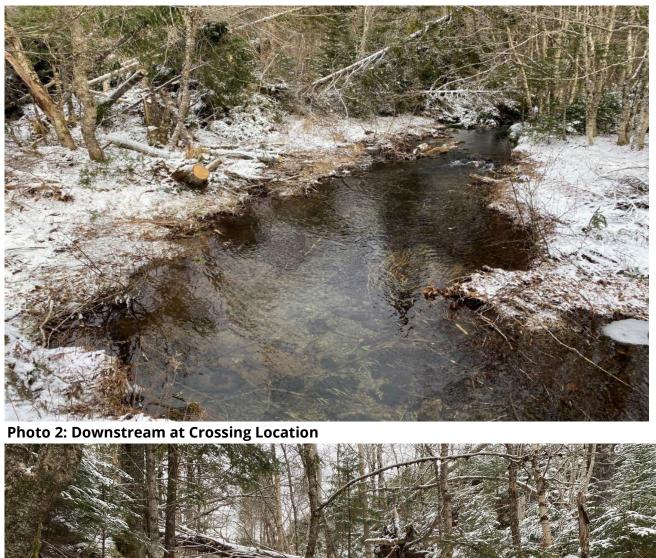




Photo 4: Feature 2 (Cascade 200 m downstream of crossing)

WATERCOURSE INFORMATION		CHANNEL MEASUREMENTS		RIPARIA
		Average Channel Width (m)	1.78	# Common Nar
	Nuttby	Average Wetted Width (m)	1.53	1 Balsam Fir
Watercourse ID:	Watercourse NR-	Average Bankful Depth (m)	0.29	2 Yellow Birch
watercourse iD.		Average Water Depth (m)	0.16	3 White Birch
	WC-122f162	Average Pool Depth (m)	0.39 MORPHOLOGY	4 Eastern Hemlock
		WATERCOURSE	MORPHOLOGY	5 Shag moss
General Site Location:	Nuttby	Watercourse Type	Small Permanent	6 American Beech
Watercourse Name		Stage (season was very dry)	High	7 Gold Tread
Field Assessor(s)	CT, MT	Morphology (assumed in dry area	Run	8
Field Assessment Date:	28-Nov-22	Channel Depth Class	Class 3: <0.5m	9
UTM Coordinates:	WP 1509	Pattern	Sinuous	10
Datum:	UTM	Slope		RIPA
HABITAT QUALIT	Y (AT CENTRELINE)	Confinement	Frequently Confined	Crown Closure %
Overall Habitat Quality	Moderate			Bank Texture
Spawning	Moderate	INSTREA	M COVER	Bank Shape
Rearing	Good	Dominant	Overhanging Vegetation	Bank Stability
Foraging	Good	Subdominant	Undercut Banks	Vegetation Stage
Migration	Poor	Subdominant	Large Woody Debris	IMPORT
Overwintering	Poor	Subdominant		Spawning Area / REDD
POTENTIAL FOR	R FISH PRESENCE	Subdominant		Beaver Dam
Overall Fish Potential	Low	Trace	Deep Pool	Beaver Pond
FISH OI	BSERVED	Trace	Boulder	Underground Sections
١	٥٧	Trace	Instream Vegetation	Waterfall or Cascade
WATER QUALIT	Y AND VELOCITY	Trace		No Defined Channel
Temperature (Deg. C)	5.39	SUBS	TRATE	Hanging Culvert
рН	5.27	Dominant	Gravel	Blocked or Damaged Culv
Dissolved Oxygen (mg/l)	10.9	Subdominant	Cobble	Bridge
Dissolved Oxygen (%)		Subdominant	Fines	A
Conductivity (µs/cm)	0.025	Trace	Boulder	
Salinity (mg/L)	0.01	Trace		71
Total Dissolved Solids (g/L)	0.016	BARI	RIERS	71
Turbidity (NTU)	3.3	No Ba	arriers	71
Average Velocity (m/sec)	0.68	STREAM INV	/ERTEBRATES	
Velocity Location	Upstream			71

NAN VEGETATION SPECIES				
ame	Scientific Name			
	Abies balsamea			
	Betula alleghaniensis			
	#N/A			
	Tsuga canadensis			
	#N/A			
	Fagus grandifolia			
	#N/A			
PARIAN INF	ORMATION			
	51-75%			
	Fines			
	Undercut			
	Poor <50% Stable			
	Young Forest			
TANT FEATU	URES OBSERVED			
ulvert				
ADDITIONA				

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: NR-WC-122f162





Photo 3: Feature 1 (Upturned tree in stream, downstream of crossing)





Photo 4: Feature 2 (Small section of channel upstream of crossing)

WATERCOURSE INFORMATION		CHANNEL MEASUREMENTS		RIPARI
		Average Channel Width (m)	1.48	# Common Nar
	Nuttby	Average Wetted Width (m)	0.97	1 Balsam Fir
Watercourse ID:	Watercourse NR-	Average Bankful Depth (m)	0.24	2 Yellow Birch
watercourse iD.		Average Water Depth (m)	0.07	3
	WC-121b244	Average Pool Depth (m)	0.17	4 white spruce
		WATERCOURS	E MORPHOLOGY	5 sugar maple
General Site Location:	Nuttby	Watercourse Type	Small Permanent	6 American Beech
Watercourse Name	Middle Branch North River	Stage (season was very dry)	Mid	7
Field Assessor(s)	CT, MT	Morphology (assumed in dry area	Run	8
Field Assessment Date:	21-Nov-22	Channel Depth Class	Class 3: <0.5m	9
UTM Coordinates:	WP 1333	Pattern	Sinuous	10
Datum:	UTM	Slope		RIPA
HABITAT QUALIT	Y (AT CENTRELINE)	Confinement	Frequently Confined	Crown Closure %
Overall Habitat Quality	Poor			Bank Texture
Spawning	Poor	INSTRE	AM COVER	Bank Shape
Rearing	Moderate	Dominant	Large Woody Debris	Bank Stability
Foraging	Poor	Subdominant	Small Woody Debris	Vegetation Stage
Migration	Poor	Subdominant	Overhanging Vegetation	IMPORT
Overwintering	Poor	Subdominant	Deep Pool	Spawning Area / REDD
POTENTIAL FOR	R FISH PRESENCE	Subdominant		Beaver Dam
Overall Fish Potential	Low	Trace	Uprooted Tree Area	Beaver Pond
FISH OF	BSERVED	Trace	Boulder	Underground Sections
١	No	Trace	Instream Vegetation	Waterfall or Cascade
WATER QUALITY	Y AND VELOCITY	Trace	Undercut Banks	No Defined Channel
Temperature (Deg. C)	5.39	SUB	STRATE	Hanging Culvert
рН	5.27	Dominant	Cobble	Blocked or Damaged Culv
Dissolved Oxygen (mg/l)	10.9	Subdominant	Gravel	Bridge
Dissolved Oxygen (%)		Subdominant	Fines	Α
Conductivity (µs/cm)	0.025	Trace	Boulder	
Salinity (mg/L)	0.01	Trace		
Total Dissolved Solids (g/L)	0.016	BAF	RIERS	71
Turbidity (NTU)	3.3	No E	Barriers	71
Average Velocity (m/sec)	0.11	STREAM IN	VERTEBRATES	71
Velocity Location	Upstream			

NAN VEGETATION SPECIES				
ame	Scientific Name			
	Abies balsamea			
	Betula alleghaniensis			
	#N/A			
	Picea glauca			
	Acer saccharum			
	Fagus grandifolia			
	#N/A			
PARIAN INF	ORMATION			
	26-50%			
	Fines			
	Undercut			
	Fair 50-80% Stable			
	Young Forest			
TANT FEATU	JRES OBSERVED			
ulvert				
ADDITIONA	L NOTES			

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: NR-WC-121b244





Photo 3: Feature 1 (Upstream substrates)



Photo 2: Downstream at Crossing Location



Photo 4: Feature 2 (Downstream substrates)

WATERCOURSE INFORMATION		CHANNEL MEASUREMENTS		RIPARIA
		Average Channel Width (m)	1.48	# Common Nar
	Nuttby	Average Wetted Width (m)	0.97	1 Balsam Fir
Watercourse ID:	Watercourse NR-	Average Bankful Depth (m)	0.24	2 Yellow Birch
watercourse iD.		Average Water Depth (m)	0.07	3
	WC-122h34	Average Pool Depth (m)	0.17 E MORPHOLOGY	4 5 sugar maple
		WATERCOORS	EMORPHOLOGY	5 sugar maple
General Site Location:	Nuttby	Watercourse Type	Small Permanent	6
Watercourse Name	Vest Branch North River Tril	Stage (season was very dry)	Mid	7
Field Assessor(s)	CT, MT	Morphology (assumed in dry area	Run	8
Field Assessment Date:	21-Nov-22	Channel Depth Class	Class 3: <0.5m	9
UTM Coordinates:	WP 1324	Pattern	Sinuous	10
Datum:	UTM	Slope		RIPA
HABITAT QUALIT	Y (AT CENTRELINE)	Confinement	Occasionally Confined	Crown Closure %
Overall Habitat Quality	Poor			Bank Texture
Spawning	Poor	INSTREA	AM COVER	Bank Shape
Rearing	Moderate	Dominant	Undercut Banks	Bank Stability
Foraging	Poor	Subdominant	Overhanging Vegetation	Vegetation Stage
Migration	Poor	Subdominant		IMPORT
Overwintering	Poor	Subdominant		Spawning Area / REDD
POTENTIAL FOR	R FISH PRESENCE	Subdominant		Beaver Dam
Overall Fish Potential	Low	Trace	Small Woody Debris	Beaver Pond
FISH OF	BSERVED	Trace	Instream Vegetation	Underground Sections
Ν	۱o	Trace	Uprooted Tree Area	Waterfall or Cascade
WATER QUALITY	Y AND VELOCITY	Trace	Deep Pool	No Defined Channel
Temperature (Deg. C)	2.6	SUBS	STRATE	Hanging Culvert
рН	5.67	Dominant	Cobble	Blocked or Damaged Culv
Dissolved Oxygen (mg/l)	7.78	Subdominant	Gravel	Bridge
Dissolved Oxygen (%)		Subdominant	Fines	A
Conductivity (µs/cm)	0.027	Trace	Boulder	Will freeze ir
Salinity (mg/L)	0.01	Trace		71
Total Dissolved Solids (g/L)	0.017	BAR	RIERS	71
Turbidity (NTU)	4.4		Barriers	71
Average Velocity (m/sec)	0.13	STREAM INVERTEBRATES		71
Velocity Location	Crossing			71

RIAN VEGETATION SPECIES				
ame	Scientific Name			
	Abies balsamea			
	Betula alleghaniensis			
	#N/A			
	#N/A			
	Acer saccharum			
	#N/A			
PARIAN INF	ORMATION			
	51-75%			
	Fines			
	Undercut			
	Fair 50-80% Stable			
	Young Forest			
TANT FEATU	JRES OBSERVED			
ulvert				
ADDITIONA	L NOTES			
in winter du	e to shallow depth.			

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: NR-WC-122h34



Photo 1: Upstream at Crossing Location



Photo 3: Feature 1 (Narrow channel with riffle sction)



Photo 2: Downstream at Crossing Location



Photo 4: Feature 2 (Small riffle section)

WATERCOURSE INFORMATION		CHANNEL ME	ASUREMENTS	RIPARI
		Average Channel Width (m)		# Common Na
	Nuttby	Average Wetted Width (m)		1
Watercourse ID:	Watercourse NR-	Average Bankful Depth (m)		2
Watercourse ib.		Average Water Depth (m)		3
	WC-122b81	Average Pool Depth (m) WATERCOURSE	MORBHOLOCY	4 5
		WATERCOOKSE	MORFHOLOGI	—
General Site Location:	Nuttby	Watercourse Type	Small Permanent	6
Watercourse Name		Stage (season was very dry)	High	7
Field Assessor(s)	CT, MT	Morphology (assumed in dry area	Riffle	8
Field Assessment Date:	28-Nov-22	Channel Depth Class	Class 2: 0.5-1.0m	9
UTM Coordinates:	WP 1524	Pattern	Sinuous	10
Datum:	UTM	Slope	>1%	RIP
HABITAT QUALITY	Y (AT CENTRELINE)	Confinement		Crown Closure %
Overall Habitat Quality				Bank Texture
Spawning	Poor	INSTREAT	M COVER	Bank Shape
Rearing		Dominant	Boulder	Bank Stability
Foraging		Subdominant	Undercut Banks	Vegetation Stage
Migration	Moderate	Subdominant	Deep Pool	IMPORT
Overwintering		Subdominant		Spawning Area / REDD
POTENTIAL FOR	R FISH PRESENCE	Subdominant		Beaver Dam
Overall Fish Potential	Low	Trace		Beaver Pond
FISH OF	BSERVED	Trace		Underground Sections
Ν	10	Trace		Waterfall or Cascade
WATER QUALITY	Y AND VELOCITY	Trace		No Defined Channel
Temperature (Deg. C)	5.66	SUBST	TRATE	Hanging Culvert
рН	5.64	Dominant	Cobble	Blocked or Damaged Cul
Dissolved Oxygen (mg/l)	9.74	Subdominant	Boulder	Bridge
Dissolved Oxygen (%)		Subdominant	Gravel	A
Conductivity (µs/cm)	0.03	Trace		Small cascade, potentiall
Salinity (mg/L)	0.01	Trace		
Total Dissolved Solids (g/L)	0.023	BARR	RIERS	\neg
Turbidity (NTU)	47	Yes, Tempo	rary Barrier	\neg
Average Velocity (m/sec)		STREAM INV	-	\neg
Velocity Location				

RIAN VEGET	ATION SPECIES
ame	Scientific Name
	#N/A
	#N/A
PARIAN INF	ORMATION
TANT FEATU	JRES OBSERVED
ulvert	
alvert	
ADDITIONA	
-	barrier to movement for smaller
fish spe	CIES.

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: NR-WC-122b81



Photo 1: Upstream at Crossing Location



Photo 2: Downstream at Crossing Location

WATERCOURSE INFORMATION		CHANNEL ME	ASUREMENTS	RIP	ARIAN VEGETATION SPECIES	
		Average Channel Width (m)	2.62	# Common		
	Nuttby	Average Wetted Width (m)	1.22	1 Balsam Fir	Abies balsamea	
Watercourse ID.	Watercourse NR-	Average Bankful Depth (m)	0.61	2	#N/A	
Watercourse iD.		Average Water Depth (m)	0.10	3	#N/A	
	WC-122h26	Average Pool Depth (m)	0.34	4	#N/A	
		WATERCOURSE	MORPHOLOGY	5	#N/A	
General Site Location:	Nuttby	Watercourse Type	Small Permanent	6	#N/A	
Watercourse Name	West Branch North River	Stage (season was very dry)	Mid	7	#N/A	
Field Assessor(s)	SF, CJ	Morphology (assumed in dry area	Riffle	8	#N/A	
Field Assessment Date:	21-Nov-22	Channel Depth Class	Class 3: <0.5m	9	#N/A	
UTM Coordinates:	WP 1959	Pattern		10	#N/A	
Datum:	UTM	Slope			RIPARIAN INFORMATION	
HABITAT QUALIT	Y (AT CENTRELINE)	Confinement	None	Crown Closure %	51-75%	
Overall Habitat Quality	Poor			Bank Texture	Fines	
Spawning	Poor	INSTREA	M COVER	Bank Shape	Undercut	
Rearing	Moderate	Dominant	Overhanging Vegetation	Bank Stability	Good >80% Stable	
Foraging	Moderate	Subdominant		Vegetation Stage	Pole-Sapling	
Migration	Poor	Subdominant		IMPO	IMPORTANT FEATURES OBSERVED	
Overwintering	Moderate	Subdominant	Boulder	Spawning Area / RED	D 🗌	
POTENTIAL FOR FISH PRESENCE		Trace	Large Woody Debris	Beaver Dam		
Overall Fish Potential	Low	Trace	Uprooted Tree Area	Beaver Pond		
FISH O	BSERVED	Trace	Instream Vegetation	Underground Section	is 🗌	
1	No	Trace	Deep Pool	Waterfall or Cascade	V	
WATER QUALIT	Y AND VELOCITY	Trace	Small Woody Debris	No Defined Channel		
Temperature (Deg. C)	1.66	SUBST	TRATE	Hanging Culvert	\checkmark	
рН	5.68	Dominant	Gravel	Blocked or Damaged	Culvert 🗌	
Dissolved Oxygen (mg/l)	8.2	Subdominant	Fines	Bridge		
Dissolved Oxygen (%)		Subdominant	Cobble		ADDITIONAL NOTES	
Conductivity (µs/cm)	0.03	Trace	Boulder	Will lik	ely freeze due to shallow depth.	
Salinity (mg/L)	0.01	Trace				
Total Dissolved Solids (g/L)		BARF	RIERS			
Turbidity (NTU)	3.7	No Barriers				
Average Velocity (m/sec)	0.06	STREAM INV	ERTEBRATES			
Velocity Location	Crossing					

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: NR-WC-122h26





Photo 3: Feature 1 (Culvert at crossing with angular cobble)



Photo 2: 50 m Upstream of Crossing Location



Photo 4: Feature 2 (100 m downstream of crossing with downed woody debris)

WATERCOURSE INFORMATION		CHANNEL MEASUREMENTS		RIPARI
		Average Channel Width (m)	0.86	# Common Na
	Nuttby	Average Wetted Width (m)	0.72	1 Balsam Fir
Watercourse ID.	Watercourse NR-	Average Bankful Depth (m)	0.43	2
watercourse iD:		Average Water Depth (m)	0.08	3
	WC-122d34	Average Pool Depth (m) WATERCOUR	0.21 SE MORPHOLOGY	4 5
General Site Location:	Nuttby	Watercourse Type	Small Permanent	6
Watercourse Name		Stage (season was very dry)	Mid	7
Field Assessor(s)	CJ, LG	Morphology (assumed in dry area	Riffle	8
Field Assessment Date:	03-Nov-22	Channel Depth Class	Class 3: <0.5m	9
UTM Coordinates:	WP 1854	Pattern		10
Datum:	UTM	Slope		RIP
HABITAT QUALITY	Y (AT CENTRELINE)	Confinement	None	Crown Closure %
Overall Habitat Quality	Poor			Bank Texture
Spawning	Poor	INSTRE	EAM COVER	Bank Shape
Rearing	Moderate	Dominant	Overhanging Vegetation	Bank Stability
Foraging	Moderate	Subdominant	Small Woody Debris	Vegetation Stage
Migration	Poor	Subdominant	Boulder	IMPORT
Overwintering	Poor	Subdominant		Spawning Area / REDD
POTENTIAL FOR	R FISH PRESENCE	Trace	Large Woody Debris	Beaver Dam
Overall Fish Potential	Moderate	Trace	Undercut Banks	Beaver Pond
FISH OF	BSERVED	Trace	Instream Vegetation	Underground Sections
Ν	۱o	Trace		Waterfall or Cascade
WATER QUALITY	Y AND VELOCITY	Trace		No Defined Channel
Temperature (Deg. C)	5.8	SUE	BSTRATE	Hanging Culvert
рН	7.55	Dominant	Gravel	Blocked or Damaged Culv
Dissolved Oxygen (mg/l)	10.57	Subdominant	Fines	Bridge
Dissolved Oxygen (%)	85.4	Subdominant	Cobble	A
Conductivity (µs/cm)	49.2	Subdominant	Boulder	
Salinity (mg/L)	0.02	Trace		
Total Dissolved Solids (g/L)	0.019	BA	RRIERS	\neg (
Turbidity (NTU)		No	Barriers	\neg
Average Velocity (m/sec)		STREAM INVERTEBRATES		\neg (
Velocity Location		Low	v (5-20%)	\neg (

NAN VEGETATION SPECIES				
ame	Scientific Name			
	Abies balsamea			
	#N/A			
	#N/A			
PARIAN INF	ORMATION			
TANT FEATU	JRES OBSERVED			
ulvert]			
ADDITIONA	L NOTES			

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: Watercourse NR-WC-122d34





Photo 3: Feature 2 (Shallow ponding area wher fish was observed)



Photo 2: Feature 1 (Road side ditch connected to watercourse)

WATERCOURSE INFORMATION		CHANNEL MEASUREMENTS		RIPARI
		Average Channel Width (m)	2.32	# Common Na
	Nuttby	Average Wetted Width (m)	1.89	1 Balsam Fir
Watercourse ID.	Watercourse NR-	Average Bankful Depth (m)	0.68	2
		Average Water Depth (m)	0.10	3
	WC-122d113	Average Pool Depth (m)	0.31 SE MORPHOLOGY	4
		WATERCOOK	SE MORFHOLOGI	—
General Site Location:	Nuttby	Watercourse Type	Small Permanent	6
Watercourse Name	West Branch North River	Stage (season was very dry)	Mid	7
Field Assessor(s)	CJ, LG	Morphology (assumed in dry area	Riffle	8
Field Assessment Date:	03-Nov-22	Channel Depth Class	Class 3: <0.5m	9
UTM Coordinates:	WP 1864	Pattern		10
Datum:	UTM	Slope		RIP
HABITAT QUALIT	Y (AT CENTRELINE)	Confinement	None	Crown Closure %
Overall Habitat Quality	Poor			Bank Texture
Spawning	Poor	INSTRE	AM COVER	Bank Shape
Rearing	Moderate	Dominant	Large Woody Debris	Bank Stability
Foraging	Moderate	Subdominant	Small Woody Debris	Vegetation Stage
Migration	Poor	Subdominant	Overhanging Vegetation	IMPORT
Overwintering	Moderate	Subdominant	Boulder	Spawning Area / REDD
POTENTIAL FOR FISH PRESENCE		Trace	Uprooted Tree Area	Beaver Dam
Overall Fish Potential	High	Trace		Beaver Pond
FISH OBSERVED		Trace		Underground Sections
Yes, Salmonid		Trace		Waterfall or Cascade
WATER QUALITY AND VELOCITY		Trace		No Defined Channel
Temperature (Deg. C)	7.5	SUB	STRATE	Hanging Culvert
рН	7.57	Dominant	Gravel	Blocked or Damaged Culv
Dissolved Oxygen (mg/l)	12.59	Subdominant	Fines	Bridge
Dissolved Oxygen (%)	106.1	Subdominant	Cobble	A
Conductivity (µs/cm)	35.4	Subdominant	Boulder	Fish obs
Salinity (mg/L)	0.02	Trace		
Total Dissolved Solids (g/L)		BA	RRIERS	
Turbidity (NTU)		No Barriers		
Average Velocity (m/sec)	0.38	STREAM INVERTEBRATES		
Velocity Location	Crossing	High	ר) (>60%)	

RIAN VEGETATION SPECIES			
ame	Scientific Name		
	Abies balsamea		
	#N/A		
	#N/A		
PARIAN INFORMATION			
	51-75%		
	Mixed (Fines, Organics, Gravel)		
	Shallow Slope (<100% / 45 deg.)		
TANT FEATU	JRES OBSERVED		
ulvert			
	I		
ADDITIONA	L NOTES		
bserved, possibily salmonid.			

Watercourse Fact Sheet: Fish Habitat - Page 2 Watercourse ID: NR-WC-122d113



Photo 1: Upstream at Crossing Location



Photo 3: Feature 1 (unconfined channel section)



Photo 2: Downstream at Crossing Location



Photo 4: Feature 2 (bridge/crossing over watercourse)



WATERCOURSE INFORMATION		CHANNEL MEASUREMENTS		RIPARI	
		Average Channel Width (m)	2.74	# Common Na	
	Nuttby	Average Wetted Width (m)	2.36	1 Balsam Fir	
Watercourse ID.	Watercourse NR-	Average Bankful Depth (m)	0.53	2	
Watercourse id.		Average Water Depth (m)	0.09	3	
	WC-122d111	Average Pool Depth (m)	SE MORPHOLOGY	4 5	
		WATERCOOK			
General Site Location:	Nuttby	Watercourse Type	Intermittent	6	
Watercourse Name	ib to West Branch North Riv	Stage (season was very dry)	Mid	7	
Field Assessor(s)	CJ, LG	Morphology (assumed in dry area	Riffle	8	
Field Assessment Date:	03-Nov-22	Channel Depth Class	Class 3: <0.5m	9	
UTM Coordinates:	WP 1872	Pattern		10	
Datum:	UTM	Slope		RIP	
HABITAT QUALITY	Y (AT CENTRELINE)	Confinement	None	Crown Closure %	
Overall Habitat Quality	Moderate			Bank Texture	
Spawning	Poor	INSTRE	EAM COVER	Bank Shape	
Rearing	Moderate	Dominant	Instream Vegetation	Bank Stability	
Foraging		Subdominant	Small Woody Debris	Vegetation Stage	
Migration		Subdominant	Overhanging Vegetation	IMPORT	
Overwintering	Poor	Subdominant	Boulder	Spawning Area / REDD	
POTENTIAL FOR FISH PRESENCE		Trace	Uprooted Tree Area	Beaver Dam	
Overall Fish Potential	Moderate	Trace	Large Woody Debris	Beaver Pond	
FISH OBSERVED		Trace		Underground Sections	
Yes, Salmonid		Trace		Waterfall or Cascade	
WATER QUALITY	Y AND VELOCITY	Trace		No Defined Channel	
Temperature (Deg. C)		SUE	BSTRATE	Hanging Culvert	
рН		Dominant	Cobble	Blocked or Damaged Cul	
Dissolved Oxygen (mg/l)		Subdominant	Gravel	Bridge	
Dissolved Oxygen (%)		Subdominant	Fines	A	
Conductivity (µs/cm)		Subdominant	Boulder	Fish obse	
Salinity (mg/L)		Trace		$\neg \downarrow$	
Total Dissolved Solids (g/L)		BA	RRIERS	\neg (
Turbidity (NTU)		No Barriers			
Average Velocity (m/sec)		STREAM INVERTEBRATES		\neg (
Velocity Location		Hig	h (>60%)		

RIAN VEGETATION SPECIES			
ame	Scientific Name		
	Abies balsamea		
	#N/A		
	#N/A		
PARIAN INFORMATION			
	51-75%		
	Mixed (Fines, Organics, Gravel)		
	Shallow Slope (<100% / 45 deg.)		
TANT FEATU	JRES OBSERVED		
ulvert			
ADDITIONA	L NOTES		
erved, likely Brook Trout YOY.			

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Photo 3: Feature 1 (Side Stream)



Photo 2: Downstream at Crossing Location