WATERCOURSE I	NFORMATION
Watercourse ID:	Watercourse BL-WC106F-334
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL Limited
Field Assessment Date:	Oct 05 2022
UTM Coordinates:	Wp. 088 (MB)
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEA	ASUREMENTS
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE I	MORPHOLOGY
Watercourse Type	Ephemeral
Stage (season was very dry)	Low



Photo 1: Approximate crossing location.

	RIPARIAN VEGETATIO	N SPECIES
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	IATION
Veg	etation Stage	
	IMPORTANT FEATURES	OBSERVED
	etated Across	V
Flo۱	vs into Fish Habitat Downstream	
Und	derground Sections or Groundwater	
Sur	face Flow	<u></u>
We	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ficial Channelization	П
Cul	vert or Bridge	
_	ter Flowing over Road (no Culvert)	
No	Defined Channel	<b>✓</b>
	ADDITIONAL NO	OTES
Cu	lvert under road, grassy channel d/s. W/c	is drainage from road, flows into
	treed area/wetla	and.

WATERCOURSE INFORMATION	
Watercourse ID:	Watercourse BL-WC106g-400
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL
Field Assessment Date:	05-Oct-22
UTM Coordinates:	WP69-WP70
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEA	
Average Channel Width (m)	N/A
Average Wetted Width (m)	N/A
Average Bankful Depth (m)	N/A
Average Water Depth (m)	N/A
Average Pool Depth (m)	N/A
WATERCOURSE I	MORPHOLOGY
Watercourse Type	Ephemeral
Stage (season was very dry)	Mid



Photo 1: Habitat at approximate crossing location.



Photo 2: Habitat at WP69.

	RIPARIAN VEGETATION SPECIES	
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	ATION
Veg	etation Stage	Mature Forest
	IMPORTANT FEATURES	OBSERVED
	retated Across	V
Flov	ws into Fish Habitat Downstream	
Und	derground Sections or Groundwater	
Sur	face Flow	
Wet	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ficial Channelization	
Cul	vert or Bridge	
Wat	ter Flowing over Road (no Culvert)	
No	Defined Channel	V
	ADDITIONAL NO	OTES
Sta	art of 'orange marked channel' on maps. N	o channel, no water, no flow, no
	scour.	

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC106g-2084
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL Limited
Field Assessment Date:	Oct 05 2022
UTM Coordinates:	Wp. 071 (MB)
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL ME	ASUREMENTS
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
Watercourse Type	Ephemeral
Stage (season was very dry)	Low



Photo 1: Approximate crossing location



Photo 2: General surroundings around approximate crossing loc

RIPARIAN VEGETAT	TON SPECIES
# Common Name	Scientific Name
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
RIPARIAN INFO	RMATION
Vegetation Stage	
IMPORTANT FEATUR	RES OBSERVED
Vegetated Across	
Flows into Fish Habitat Downstream	П
Underground Sections or Groundwater	
Surface Flow	
Wetland Corridor (Flow Between Wetlands)	)   □
Barrier	
Artificial Channelization	П
Culvert or Bridge	T
Water Flowing over Road (no Culvert)	
No Defined Channel	V
ADDITIONAL	NOTES

Wetted area, small pools. No overland flow. Upper end is channelized, no flow, wetted area, reeds. In heavy debris area. Ephemeral, no habitat.

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201a-938
General Site Location:	Bear Lake
Watercourse Assessor(s):	CJ
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 08 2022
UTM Coordinates:	Wp.1645
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEA	ASUREMENTS
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
Watercourse Type	Ephemeral
Stage (season was very dry)	Low



Photo 1: Upstream at crossing



Photo 2: Downstream at crossing

,, ,	RIPARIAN VEGETATIO	T
#	Common Name	Scientific Name
1		#N/A
2		#N/A #N/A
4		#/\/A #N/A
5		#/V/A #/V/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
10	RIPARIAN INFORM	
Veg	etation Stage	1
6	IMPORTANT FEATURES	OBSERVED
Veg	etated Across	Ιп
Flov	vs into Fish Habitat Downstream	
Unc	derground Sections or Groundwater	
Surf	face Flow	<u> </u>
Wet	tland Corridor (Flow Between Wetlands)	
Barı	rier	
Arti	ficial Channelization	П
Cul	vert or Bridge	
	er Flowing over Road (no Culvert)	
	Defined Channel	
	ADDITIONAL NO	OTES

WATERCOURSE	NFORMATION
Watercourse ID:	Watercourse BL-WC201a-965
General Site Location:	Bear Lake
Watercourse Assessor(s):	CJ, IB
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 09 2022
UTM Coordinates:	Wp. 1649
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEA	
Average Channel Width (m)	0.91
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	0.28
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
	Ephemeral with Intermittent
Watercourse Type	Characteristics
Stage (season was very dry)	Low



Photo 1: Culvert at crossing



Photo 2: No channel (U/S)

	RIPARIAN VEGETATIO	N SPECIES
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	ATION
Veg	etation Stage	
	IMPORTANT FEATURES	OBSERVED
Veg	etated Across	
	ws into Fish Habitat Downstream	
Und	derground Sections or Groundwater	
Sur	face Flow	✓
We	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ficial Channelization	П
Cul	vert or Bridge	<b>7</b>
Wat	ter Flowing over Road (no Culvert)	
No	Defined Channel	V
	ADDITIONAL NO	OTES
	Plunge pool at crossing 140cm channel, 28	Scm depth channel appears to
	dissapate or run along the surface DS, l	JS channel no water 41cm.
	Watercourse runs along ditch of road cha	
	undefined. Wp.1651 US no channel. Epho	emeral WC with intermittent

characteristics, likely connect to F/Q

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201a-967
General Site Location:	Bear Lake
Watercourse Assessor(s):	CJ, IB
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 09 2022
UTM Coordinates:	Wp. 1651
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEA	
Average Channel Width (m)	0.67
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	0.10
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
Watercourse Type	Ephemeral
Stage (season was very dry)	Low





Photo 2: No channel (U/S)

# Common Name	
# Common Name	Scientific Name
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
RIPARIAN INFORM	ATION
egetation Stage	
IMPORTANT FEATURES	OBSERVED
egetated Across	
ows into Fish Habitat Downstream	
Inderground Sections or Groundwater	V
urface Flow	V
Vetland Corridor (Flow Between Wetlands)	
arrier	
rtificial Channelization	П
Culvert or Bridge	
Vater Flowing over Road (no Culvert)	
lo Defined Channel	V
ADDITIONAL NO	OTES
Ephemeral drainage, no defined channel, lo	oks like it flows under bot
DS Channeled area, might be old tire track from 30-40 years ago. Two	
"channels" seen but overtime the flow used	, ,

water. "channel" 67cm, 10cm deep.

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201a-971
General Site Location:	Bear Lake
Watercourse Assessor(s):	CJ, IB
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 09 2022
UTM Coordinates:	Wp. 1654
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL MEA	ASUREMENTS
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
	Ephemeral with Intermittent
Watercourse Type	Characteristics
Stage (season was very dry)	Dry





Photo 2: Upstream, slight channelization, no water.

	RIPARIAN VEGETATIO	N SPECIES
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A #N/A
5		
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	ATION
Veg	etation Stage	
	IMPORTANT FEATURES	OBSERVED
	etated Across	
Flo۱	ws into Fish Habitat Downstream	
Und	derground Sections or Groundwater	
Sur	face Flow	<b>V</b>
We	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ficial Channelization	
Cul	vert or Bridge	<b>V</b>
Wat	ter Flowing over Road (no Culvert)	
No	Defined Channel	
	ADDITIONAL NO	TES
	Wp. 1654 - U/S no water, channelized here	e. At crossing surface flow, no
	channel, no wat	er.

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201a-1338
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 08 2022
UTM Coordinates:	Wp. 42
Datum:	NAD 1983
SUBST	RATE
Dominant	Fines
Subdominant	Gravel
Subdominant	Cobble
Trace	Boulder
Trace	
Trace	
CHANNEL MEA	ASUREMENTS
Average Channel Width (m)	1.1
Average Wetted Width (m)	N/A
Average Bankful Depth (m)	0.3
Average Water Depth (m)	N/A
Average Pool Depth (m)	N/A
WATERCOURSE	MORPHOLOGY
Watercourse Type	Intermittent
Stage (season was very dry)	Dry



Photo 1: Upstream at assumed crossing



Photo 2: Downstream at assumed crossing

# Common Name	Scientific Name
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
RIPARIAN INFORM	IATION
Vegetation Stage	
IMPORTANT FEATURES	OBSERVED
Vegetated Across	<b>V</b>
Flows into Fish Habitat Downstream	
Underground Sections or Groundwater	
Surface Flow	
Wetland Corridor (Flow Between Wetlands)	
Barrier	
Artificial Channelization	П
Culvert or Bridge	
Water Flowing over Road (no Culvert)	
No Defined Channel	
ADDITIONAL NO	OTES
Evidence of scour, pool (areas), Potential und	
	ne of visit. Not permanent

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201b-1420
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 01 2022
UTM Coordinates:	Wp. 44
Datum:	NAD 1983
SUBST	RATE
Dominant	Organics
Subdominant	Fines
Subdominant	Gravel
Trace	Boulder
Trace	
Trace	
CHANNEL ME	ASUREMENTS
Average Channel Width (m)	1.6
Average Wetted Width (m)	1.1
Average Bankful Depth (m)	
Average Water Depth (m)	0.22
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
Watercourse Type	Small Permanent
Stage (season was very dry)	Low



Photo 1: Upstream at assumed crossing



Photo 2: Downstream at assumed crossing

	RIPARIAN VEGETATIO	N SPECIES
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	ATION
Veg	etation Stage	
	IMPORTANT FEATURES	OBSERVED
Veg	etated Across	П
Flov	vs into Fish Habitat Downstream	
Und	derground Sections or Groundwater	<u> </u>
Sur	face Flow	
Wet	tland Corridor (Flow Between Wetlands)	
Bar	rier	

#### ADDITIONAL NOTES

Artificial Channelization

Water Flowing over Road (no Culvert)

Culvert or Bridge

No Defined Channel

Wetted, low flow channel. Permanently wetted, almost no flow, instream sphagnum mosses, film, sheen on surface, channel continues D/S subsurface sections but wetted sm. channel. Culvert likely needed for crossing.

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201b-2350
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 01 2022
UTM Coordinates:	Wp. 47
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL ME	ASUREMENTS
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
Watercourse Type	
Stage (season was very dry)	Dry



Photo 1: Upstream at approximate crossing location.



Photo 2: Downstream at approximate crossing location.

# Common Name  1	Scientific Name
At 5	#N/A
4   5   6   7   8   9   10	#N/A
Signature   Signat	#N/A
6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	#N/A
RIPARIAN INFORMATION  Vegetation Stage  IMPORTANT FEATURES OBSERV  Vegetated Across Flows into Fish Habitat Downstream Underground Sections or Groundwater Surface Flow Wetland Corridor (Flow Between Wetlands) Barrier  Artificial Channelization Culvert or Bridge Water Flowing over Road (no Culvert)	#N/A
RIPARIAN INFORMATION  Vegetation Stage  IMPORTANT FEATURES OBSERV  Vegetated Across Flows into Fish Habitat Downstream Underground Sections or Groundwater  Surface Flow Wetland Corridor (Flow Between Wetlands)  Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	#N/A
RIPARIAN INFORMATION  Vegetation Stage  IMPORTANT FEATURES OBSERV  Vegetated Across Flows into Fish Habitat Downstream Underground Sections or Groundwater Surface Flow Wetland Corridor (Flow Between Wetlands) Barrier Artificial Channelization Culvert or Bridge Water Flowing over Road (no Culvert)	#N/A
RIPARIAN INFORMATION  Vegetation Stage  IMPORTANT FEATURES OBSERV  Vegetated Across Flows into Fish Habitat Downstream Underground Sections or Groundwater  Surface Flow Wetland Corridor (Flow Between Wetlands)  Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	#N/A
RIPARIAN INFORMATION  Vegetation Stage  IMPORTANT FEATURES OBSERV  Vegetated Across Flows into Fish Habitat Downstream Underground Sections or Groundwater  Surface Flow Wetland Corridor (Flow Between Wetlands)  Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	#N/A
Vegetation Stage  IMPORTANT FEATURES OBSERV  Vegetated Across  Flows into Fish Habitat Downstream  Underground Sections or Groundwater  Surface Flow  Wetland Corridor (Flow Between Wetlands)  Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	#N/A
Vegetated Across Flows into Fish Habitat Downstream Underground Sections or Groundwater Surface Flow Wetland Corridor (Flow Between Wetlands) Barrier Artificial Channelization Culvert or Bridge Water Flowing over Road (no Culvert)	
Vegetated Across  Flows into Fish Habitat Downstream Underground Sections or Groundwater  Surface Flow Wetland Corridor (Flow Between Wetlands)  Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	
Flows into Fish Habitat Downstream  Underground Sections or Groundwater  Surface Flow  Wetland Corridor (Flow Between Wetlands)  Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	ED
Underground Sections or Groundwater  Surface Flow Wetland Corridor (Flow Between Wetlands)  Barrier Artificial Channelization Culvert or Bridge Water Flowing over Road (no Culvert)	
Surface Flow Wetland Corridor (Flow Between Wetlands) Barrier Artificial Channelization Culvert or Bridge Water Flowing over Road (no Culvert)	
Wetland Corridor (Flow Between Wetlands)  Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	
Barrier  Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	
Artificial Channelization  Culvert or Bridge  Water Flowing over Road (no Culvert)	
Culvert or Bridge   Water Flowing over Road (no Culvert)	
Water Flowing over Road (no Culvert)	
No Defined Channel	
ADDITIONAL NOTES	
Wp.46 No channel, no water, no flow, bog/wetland. W	p.47 No channel, wet
area, potential pooling areas, no flow,	

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201b-3242
General Site Location:	Bear Lake
Watercourse Assessor(s):	MB
Affiliation:	CBCL
Field Assessment Date:	15-Sep-22
UTM Coordinates:	WP44
Datum:	UTM
SUBST	RATE
Dominant	Fines
Subdominant	Gravel
Subdominant	Boulder
Trace	
Trace	
Trace	
CHANNEL MEA	ASUREMENTS
Average Channel Width (m)	1.6
Average Wetted Width (m)	1.1
Average Bankful Depth (m)	
Average Water Depth (m)	0.22
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
	Intermittent with
Watercourse Type	Ephemeral Characteristics
Stage (season was very dry)	Mid
Juge (Jeason was very dry)	iiiid



Photo 1: Water barely flowing at site.



Photo 2: Downstream at Crossing

	RIPARIAN VEGETATIO	N SPECIES
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4 5		#N/A #N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	
Veg	etation Stage	Mature Forest
	IMPORTANT FEATURES	OBSERVED
	etated Across	
Flo۱	ws into Fish Habitat Downstream	
	derground Sections or Groundwater	V
Sur	face Flow	V
We	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ficial Channelization	
Cul	vert or Bridge	
Wat	ter Flowing over Road (no Culvert)	
No	Defined Channel	
	ADDITIONAL NO	OTES
٧	Netted, low flow channel. Lots of SWD and	LWD. Good cover. Substrates:
fir	nes, small gravel, boulders. Permanently w	etted, almost no flow. Instream
	sphag, mosses. Film/sheen on surface of	of water. Channel continues
	downstream into subsurface sections, b	

WATERCOURSE	INFORMATION
Watercourse ID:	Watercourse BL-WC201c-2834
General Site Location:	Bear Lake
Watercourse Assessor(s):	NH
Affiliation:	CBCL LIMITED
Field Assessment Date:	Sept 08 2022
UTM Coordinates:	Wp. 1692-1694
Datum:	NAD 1983
SUBST	RATE
Dominant	
Subdominant	
Subdominant	
Trace	
Trace	
Trace	
CHANNEL ME	ASUREMENTS
Average Channel Width (m)	
Average Wetted Width (m)	
Average Bankful Depth (m)	
Average Water Depth (m)	
Average Pool Depth (m)	
WATERCOURSE	MORPHOLOGY
Watercourse Type	
Stage (season was very dry)	Dry



Photo 1: Culvert looking downstream of crossing location.



Photo 2: Upstream channel

#   Common Name	
# Common Name	Scientific Name
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
RIPARIAN INFORM	MATION
Vegetation Stage	
IMPORTANT FEATURES	SOBSERVED
Vegetated Across	
Flows into Fish Habitat Downstream	П
Underground Sections or Groundwater	П
Surface Flow	
Wetland Corridor (Flow Between Wetlands)	
Barrier	
Artificial Channelization	İπ
Culvert or Bridge	
Water Flowing over Road (no Culvert)	
No Defined Channel	<b>V</b>
ADDITIONAL N	OTES

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC202b-576	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	NH	
Affiliation:	CBCL Limted	
Field Assessment Date:	Oct 24 2022	
UTM Coordinates:	Wp.2123-2129	
Datum:	NAD 1983	
SUBSTRATE		
Dominant	Gravel	
Subdominant		
Subdominant		
Trace	Boulder	
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	1	
Average Wetted Width (m)	1.0	
Average Bankful Depth (m)		
Average Water Depth (m)	1.5	
Average Pool Depth (m)		
WATERCOURSE	MORPHOLOGY	
	Intermittent with	
Watercourse Type	Ephemeral Characteristics	
Stage (season was very dry)	Mid	



Photo 1: Approximate crossing location.



Photo 2: General habitat around WC BL-WC202b-576

	RIPARIAN VEGETATION SPECIES			
#	Common Name	Scientific Name		
1		#N/A		
2		#N/A		
3		#N/A		
4		#N/A		
5		#N/A		
6		#N/A		
7		#N/A		
8		#N/A		
9		#N/A		
10		#N/A		
	RIPARIAN INFORM	ATION		
Veg	etation Stage			
	IMPORTANT FEATURES	OBSERVED		
Ŭ	getated Across			
	ws into Fish Habitat Downstream			
_	derground Sections or Groundwater			
	face Flow			
	tland Corridor (Flow Between Wetlands)			
Bar	rier	V		
Arti	ficial Channelization			
	vert or Bridge			
Wat	ter Flowing over Road (no Culvert)			
No	Defined Channel			
	ADDITIONAL NO	OTES		
	Ruled out as fish habitat due to slope a	nd barriers. Steep habitat.		
l				
1				

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC202b-2553	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	NH	
Affiliation:	CBCL LIMITED	
Field Assessment Date:	Oct 24 2022	
UTM Coordinates:	Wp.2141-2151	
Datum:	NAD 1983	
SUBSTRATE		
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	1.4	
Average Wetted Width (m)	1.4	
Average Bankful Depth (m)		
Average Water Depth (m)	1.8	
Average Pool Depth (m)		
WATERCOURSE	MORPHOLOGY	
	Intermittent with	
Watercourse Type	Ephemeral Characteristics	
Watercourse Type Stage (season was very dry)	Mid	
stage (season was very ary)	IVIIG	

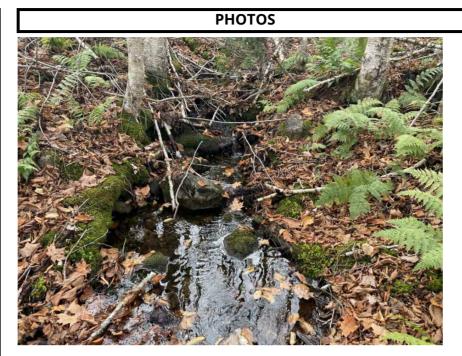


Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES			
#	Common Name		Scientific Name
1			#N/A
2			#N/A
3			#N/A
4			#N/A
5			#N/A
6			#N/A
7			#N/A
8			#N/A
9			#N/A
10			#N/A
	RIPARIAN INFORM	IOITA	V
Veg	etation Stage		
	IMPORTANT FEATURES	OBSE	RVED
	etated Across		<u> </u>
Flov	vs into Fish Habitat Downstream		
	derground Sections or Groundwater	<b>√</b>	
Surface Flow			
Wetland Corridor (Flow Between Wetlands)			
Barrier		<b>√</b>	
Artificial Channelization			1
Culvert or Bridge			
Water Flowing over Road (no Culvert)			]
No	Defined Channel		
	ADDITIONAL NO	TES	
	Determined not to be fi	sh hal	oitat.

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC202e-2174	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CJ	
Affiliation:	CBCL LIMITED	
Field Assessment Date:	Oct 21 2022	
UTM Coordinates:	Wp. 1841	
Datum:	NAD 1983	
SUBSTRATE		
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	1	
Average Wetted Width (m)	0.87	
Average Bankful Depth (m)		
Average Water Depth (m)	0.14	
Average Pool Depth (m)		
WATERCOURSE	MORPHOLOGY	
Watercourse Type	Intermittent	
Stage (season was very dry)	High	



Photo 1: Upstream at approximate crossing location.



и 1	RIPARIAN VEGETATION	
#	Common Name	Scientific Name
1		#N/A #N/A
2 3		#N/A #N/A
4		#/V/A #/V/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORMA	
Vegetation Stag	e	
	IMPORTANT FEATURES	OBSERVED
Vegetated Acros	SS	
Flows into Fish I	Habitat Downstream	
Underground S	ections or Groundwater	П
Surface Flow		
Wetland Corrido	or (Flow Between Wetlands)	
Barrier		
Artificial Channe	elization	П
Culvert or Bridg	e	<u>_</u>
	over Road (no Culvert)	П
No Defined Cha		<u> </u>
	ADDITIONAL NO	TES

WATERCOURSE INFORMATION			
Watercourse ID:	Watercourse BL-WC201c-3177		
General Site Location:	Bear Lake		
Watercourse Assessor(s):	IB, LG		
Affiliation:	CBCL LIMITED		
Field Assessment Date:	Sept 01 2022		
UTM Coordinates:	Wp. 374		
Datum:	NAD 1983		
SUBSTRATE			
Dominant			
Subdominant			
Subdominant			
Trace			
Trace			
Trace			
CHANNEL MEASUREMENTS			
Average Channel Width (m)			
Average Wetted Width (m)			
Average Bankful Depth (m)			
Average Water Depth (m)			
Average Pool Depth (m)			
WATERCOURSE	MORPHOLOGY		
Watercourse Type	Ephemeral		
Stage (season was very dry)	Dry		



Photo 1: Upstream at approximate crossing location.



Photo 2: Downstream at approximate crossing location.

#N/A #N/A #N/A #N/A #N/A #N/A #N/A #N/A
#N/A #N/A #N/A #N/A #N/A #N/A #N/A #N/A
#N/A #N/A #N/A #N/A #N/A #N/A #N/A
#N/A #N/A #N/A #N/A #N/A #N/A
#N/A #N/A #N/A #N/A #N/A
#N/A #N/A #N/A #N/A #N/A
#N/A #N/A #N/A #N/A
#N/A #N/A #N/A
#N/A #N/A
#N/A
RVED

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC202e-2209	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CJ, IB	
Affiliation:	CBCL LIMITED	
Field Assessment Date:	Sept 09 2022	
UTM Coordinates:	Wp. 1666	
Datum:	NAD 1983	
SUBSTRATE		
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL ME	ASUREMENTS	
Average Channel Width (m)		
Average Wetted Width (m)		
Average Bankful Depth (m)		
Average Water Depth (m)		
Average Pool Depth (m)		
WATERCOURSE	MORPHOLOGY	
Watercourse Type	Ephemeral	
Stage (season was very dry)	Dry	
Stage (Season was very dry)	DI y	



Photo 1: Upstream, no channel, ephemeral drainage in wetland



RIPARIAN VEGET	ATION SPECIES	
# Common Name	Scientific Name	
1	#N/A	
2	#N/A	
3	#N/A	
4	#N/A	
5	#N/A	
6	#N/A	
7	#N/A	
8	#N/A	
9	#N/A	
10	#N/A	
RIPARIAN INF	FORMATION	
Vegetation Stage		
IMPORTANT FEAT	URES OBSERVED	
Vegetated Across		
Flows into Fish Habitat Downstream		
Underground Sections or Groundwater		
Surface Flow		
Wetland Corridor (Flow Between Wetlan	ds) 🗸	
Barrier		
Artificial Channelization		
Culvert or Bridge		
Water Flowing over Road (no Culvert)		
No Defined Channel	✓	
ADDITIONAL NOTES		

U/S Yellow, no channel, ephemeral drainage in wetland corridor. D/S yellow no channel, ephemeral drainage in wetland corridor

Photo 2: Downstream, no channel, ephemeral drainage in wetland

WATERCOURSE I	WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC202e-2213		
General Site Location:	Bear Lake		
Watercourse Assessor(s):	CJ, IB		
Affiliation:	CBCL LIMITED		
Field Assessment Date:	Oct 21 2022		
UTM Coordinates:	Wp.1813		
Datum:	NAD 1983		
SUBSTRATE			
Dominant			
Subdominant			
Subdominant			
Trace			
Trace			
Trace			
CHANNEL MEASUREMENTS			
Average Channel Width (m)	0.37		
Average Wetted Width (m)	0.30		
Average Bankful Depth (m)			
Average Water Depth (m)	0.07		
Average Pool Depth (m)			
WATERCOURSE	MORPHOLOGY		
	Ephemeral with Intermittent		
Watercourse Type	Characteristics		
Stage (season was very dry)	High		



Photo 1: Flow at crossing through culvert after heavy rainfall ev



Photo 2: Slight channelization downstream

RIPARIAN VEGETATION SPECIES			
#	Common Name	Scientific Name	
1		#N/A	
2		#N/A	
3		#N/A	
4		#N/A	
5		#N/A	
6		#N/A	
7		#N/A	
8		#N/A	
9		#N/A	
10		#N/A	
	RIPARIAN INFORMATION		
Veg	etation Stage		
	IMPORTANT FEATURES	OBSERVED	
Veg	etated Across		
Flov	ws into Fish Habitat Downstream		
Underground Sections or Groundwater		V	
Sur	face Flow		
We	tland Corridor (Flow Between Wetlands)		
Bar	rier		
Arti	ficial Channelization		
Cul	vert or Bridge	V	
Wat	ter Flowing over Road (no Culvert)		
No	Defined Channel	V	
	ADDITIONAL NOTES		

# Flowing well through culvert at crossing after heavy rain event,- No defined channel. Wp.1813 start to channelize @D/S for appox 10-20m. Wp.1814 Underground flow heard, no channel seen.

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC202e-2980	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CJ, IB	
Affiliation:	CBCL LIMITED	
Field Assessment Date:	Oct 21 2022	
UTM Coordinates:	Wp.1834	
Datum:	NAD 1983	
SUBST	RATE	
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEA		
Average Channel Width (m)	1.1	
Average Wetted Width (m)	0.9	
Average Bankful Depth (m)		
Average Water Depth (m)	0.47	
Average Pool Depth (m)		
WATERCOURSE	MORPHOLOGY	
Watercourse Type	Intermittent	
Stage (season was very dry)	High	



Photo 1: Upstream at crossing



Photo 2: Downstream of crossing

RIPARIAN VEGETA	TION SPECIES	
# Common Name	Scientific Name	
1	#N/A	
2	#N/A	
3	#N/A	
4	#N/A	
5	#N/A	
6	#N/A	
7	#N/A	
8	#N/A	
9	#N/A	
10	#N/A	
RIPARIAN INFO	RMATION	
Vegetation Stage		
IMPORTANT FEATU	RES OBSERVED	
Vegetated Across		
Flows into Fish Habitat Downstream		
Underground Sections or Groundwater		
Surface Flow		
Wetland Corridor (Flow Between Wetlands	5) 🗆	
Barrier		
Artificial Channelization		
Culvert or Bridge	V	
Water Flowing over Road (no Culvert)		
No Defined Channel		
ADDITIONAL	NOTES	
Intermittent channels, likely joins permanent watercourse D/S. Wp.1835		
Pileated Woodpecker activity on tree.		

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC202g-144	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CJ	
Affiliation:	CBCL Limited	
Field Assessment Date:	Oct 26 2022	
UTM Coordinates:	Wp. 1848 (CJ)	
Datum:	NAD 1983	
SUBST	RATE	
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)		
Average Wetted Width (m)		
Average Bankful Depth (m)		
Average Water Depth (m)		
Average Pool Depth (m)		
WATERCOURSE MORPHOLOGY		
Watercourse Type	Ephemeral	
Stage (season was very dry)	Dry	



Photo 1: Approximate crossing location

#   Common Name	Scientific Name	
1	#N/A	
2	#N/A	
3	#N/A	
4	#N/A	
5	#N/A	
6	#N/A	
7	#N/A	
8	#N/A	
9	#N/A	
10	#N/A	
RIPARIAN INFO	RMATION	
/egetation Stage		
IMPORTANT FEATUR	RES OBSERVED	
/egetated Across		
Flows into Fish Habitat Downstream		
Jnderground Sections or Groundwater		
Surface Flow		
Wetland Corridor (Flow Between Wetlands	)   🗆	
Barrier		
Artificial Channelization	П	
Culvert or Bridge		
Water Flowing over Road (no Culvert)		
No Defined Channel		
ADDITIONAL		
Ephemeral - No channel		

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse 31 (WC-31)	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	IB, LG	
Affiliation:	CBCL Limited	
Field Assessment Date:	Sept 09 2022	
UTM Coordinates:	Wp. 393	
Datum:	NAD 1893	
SUBST	RATE	
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	1.8	
Average Wetted Width (m)	0.5	
Average Bankful Depth (m)		
Average Water Depth (m)	0.09	
Average Pool Depth (m)		
WATERCOURSE MORPHOLOGY		
	Ephemeral with Intermittent	
Watercourse Type	Characteristics	
Stage (season was very dry)	Low	



Photo 1: Upstream at Crossing



Photo 2: U/S Culvert showing low water level

RIPARIAN VEGETATIO		
# Common Name	Scientific Name	
2	#/V/A #N/A	
3	#N/A #N/A	
4	#N/A	
5	#N/A	
6	#N/A	
7	#N/A	
8	#N/A	
9	#N/A	
10	#N/A	
RIPARIAN INFORM	ATION	
Vegetation Stage		
IMPORTANT FEATURES	OBSERVED	
/egetated Across	П	
lows into Fish Habitat Downstream		
Inderground Sections or Groundwater		
Surface Flow		
Wetland Corridor (Flow Between Wetlands)		
Barrier		
Artificial Channelization		
Culvert or Bridge	7	
Water Flowing over Road (no Culvert)		
No Defined Channel	<u> </u>	
ADDITIONAL NO	OTES	
Ephemeral bog on D/S side of road - no sign of channel; connection, ver		
rocky, more rock barrer		
Tocky, more rock barren tilali bog.		

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC-106g-2078	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CT,MT	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 22 2022	
UTM Coordinates:		
Datum:	NAD1893	
SUBST	RATE	
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL ME	ASUREMENTS	
Average Channel Width (m)		
Average Wetted Width (m)		
Average Bankful Depth (m)		
Average Water Depth (m)		
Average Pool Depth (m)		
WATERCOURSE MORPHOLOGY		
Watercourse Type		
Stage (season was very dry)		



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

	RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name	
1	Sphagnum Moss	#N/A	
2	Red Maple	Acer rubrum	
3	Balsam Fir	Abies balsamea	
4	Grasses	#N/A	
5	Cinnamon Fern	Osmunda cinnamomea	
6	White Pine	#N/A	
7	Red Spruce	Picea rubens	
8		#N/A	
9		#N/A	
10		#N/A	
	RIPARIAN INFORMATION		
۷e۶	getation Stage	Young Forest	
	IMPORTANT FEATURES	OBSERVED	
۷e۶	getated Across	<b>V</b>	
Flo	ws into Fish Habitat Downstream		
Underground Sections or Groundwater		<b>7</b>	
	face Flow		
Wetland Corridor (Flow Between Wetlands)			
Bar	rier		
Arti	ificial Channelization	П	
Cul	vert or Bridge		
Wa	ter Flowing over Road (no Culvert)		
No	Defined Channel	Image: section of the content of the	
	ADDITIONAL NOTES		
Wp.1355- pix @ 13:53 No observed channel, no WC signs, area likely WL within			
a clearcut. Sphagnum moss donminates ground cover, Rocky limited topsoil.			
	Likely water movement undermoss.		
	Linely Hatel Hotelle		
ı			

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC106h-2528	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CT, MT	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 22 2022	
UTM Coordinates:	Wp.1335	
Datum:	NAD 1983	
SUBST	RATE	
Dominant	Fines	
Subdominant	Cobble	
Subdominant	Gravel	
Trace	Boulder	
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	0.9	
Average Wetted Width (m)	0.45	
Average Bankful Depth (m)	0.24	
Average Water Depth (m)	0.07	
Average Pool Depth (m)	0.19	
WATERCOURSE MORPHOLOGY		
Watercourse Type	Ephemeral	
Stage (season was very dry)	Mid	



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing, completely covered culvert

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Balsam Fir	Abies balsamea
2	Red Maple	Acer rubrum
3	Common Cattail	#N/A
4	White Spruce	Picea glauca
5	Paper Birch	Betula papyrifera
6	White Pine	#N/A
7	Speckled Alder	Alnus incana
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	ATION
Veg	getation Stage	Young Forest
	IMPORTANT FEATURES	OBSERVED
۷e۶	getated Across	
Flo	ws into Fish Habitat Downstream	
Unc	derground Sections or Groundwater	
Sur	face Flow	
We	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ificial Channelization	П
Cul	vert or Bridge	v
Wa	ter Flowing over Road (no Culvert)	
No	No Defined Channel	
ADDITIONAL NOTES		
Not fish habitat, 1335 WC loses channelization, spreads into many ponds &		
underground section. @ marked WC location = no channel. Xing considered to		
be at culvert		

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC106h-2783	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CT,MT	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 22 2022	
UTM Coordinates:		
Datum:	NAD 1983	
SUBST	RATE	
Dominant	Fines	
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	1.78	
Average Wetted Width (m)	1.38	
Average Bankful Depth (m)	0.24	
Average Water Depth (m)	0.23	
Average Pool Depth (m)	0.18	
WATERCOURSE MORPHOLOGY		
	Intermittent with	
Watercourse Type	Ephemeral Characteristics	
Stage (season was very dry)	Mid	



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES			
#	Common Name	Scientific Name	
1	Red Spruce	Picea rubens	
2	Eastern Hemlock	Tsuga canadensis	
3	Speckled Alder	Alnus incana	
4	Paper Birch	Betula papyrifera	
5	White Pine	#N/A	
6	Cinnamon Fern	Osmunda cinnamomea	
7		#N/A	
8		#N/A	
9		#N/A	
10		#N/A	
	RIPARIAN INFORM	ATION	
۷e۶	getation Stage	Young Forest	
	IMPORTANT FEATURES	OBSERVED	
۷e۶	getated Across		
Flo	ws into Fish Habitat Downstream		
Un	derground Sections or Groundwater	<b>V</b>	
Sur	face Flow	V	
We	tland Corridor (Flow Between Wetlands)		
Bar	rier		
Art	ficial Channelization		
Cul	vert or Bridge	<b>V</b>	
Wa	ter Flowing over Road (no Culvert)		
No	Defined Channel	V	
ADDITIONAL NOTES			
Culvert was replaced w/o environmental input, Wp. 1343-WC loses			
channelization in WL, dry sections, NOT fish habitat			

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL- WC201a-1442 (WC-13)	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CM, LG	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 9 2022	
UTM Coordinates:		
Datum:	NAD 1983	
SUBST	RATE	
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)		
Average Wetted Width (m)		
Average Bankful Depth (m)		
Average Water Depth (m)		
Average Pool Depth (m)		
WATERCOURSE MORPHOLOGY		
Watercourse Type	Ephemeral with Intermittent Characteristics	
Stage (season was very dry)		



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

# Common Name  1 Balsam Fir 2 Yellow Birch 3 Red Maple 4 Sphagnum 5 6 7 8 9 10  RIPARIAN INI Vegetation Stage	Scientific Name
Yellow Birch Red Maple Sphagnum  Compared to the state of	#N/A #N/A #N/A #N/A #N/A #N/A #N/A #N/A
Red Maple Sphagnum  S  Red Maple Sphagnum  RIPARIAN INI	#N/A #N/A #N/A #N/A #N/A #N/A #N/A #N/A
4 Sphagnum 5 6 7 8 9 10 RIPARIAN INI	#N/A #N/A #N/A #N/A #N/A #N/A FORMATION
5 6 7 8 9 10 RIPARIAN INI	#N/A #N/A #N/A #N/A #N/A FORMATION
6	#N/A #N/A #N/A #N/A FORMATION
7 8 9 10 RIPARIAN INI	#N/A #N/A #N/A #N/A FORMATION
8 9 10 RIPARIAN INI	#N/A #N/A #N/A FORMATION
9 10 RIPARIAN INI	#N/A #N/A FORMATION
10 RIPARIAN INI	#N/A FORMATION
RIPARIAN INI	FORMATION
Vegetation Stage	Mature Forest
IMPORTANT FEAT	URES OBSERVED
Vegetated Across	
Flows into Fish Habitat Downstream	
Underground Sections or Groundwater	
Surface Flow	П
Wetland Corridor (Flow Between Wetlan	nds)
Barrier	
Artificial Channelization	П
Culvert or Bridge	
Water Flowing over Road (no Culvert)	
No Defined Channel	Z
ADDITION	AL NOTES
WC feature not observed, in WL, no wa	tercourse flowing through, WL drain
into Bear Lake. Water above and below	• •
into bear bake. Water above and below	v ground. Not a fish passage/hasite

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC-201b-3193	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CM,LG	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 09 2022	
UTM Coordinates:	Wp. 519	
Datum:	NAD 1983	
SUBSTRATE		
Dominant	Fines	
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	1.9	
Average Wetted Width (m)	0.83	
Average Bankful Depth (m)		
Average Water Depth (m)	0.07	
Average Pool Depth (m)	0.19	
WATERCOURSE MORPHOLOGY		
	Ephemeral with Intermittent	
Watercourse Type	Characteristics	
Stage (season was very dry)	Mid	



Photo 1: Upstream at Crossing, no defined WC.



,.	RIPARIAN VEGETATIO	
#	Common Name	Scientific Name
1	Cinnamon Fern	Osmunda cinnamomea
2	Balsam Fir	Abies balsamea
3	Red Maple	Acer rubrum
4 5	Shagnum Yellow Birch	#N/A
		Betula alleghaniensis
6	Goldenrod Sp.	#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	MATION
Veg	getation Stage	Mature Forest
	IMPORTANT FEATURES	OBSERVED
Veg	getated Across	Тп
Flo	ws into Fish Habitat Downstream	T -
Und	derground Sections or Groundwater	
	face Flow	1 🗇
We	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ificial Channelization	Тп
Cul	vert or Bridge	
Wa	ter Flowing over Road (no Culvert)	
No	Defined Channel	Тп
	ADDITIONAL N	OTES
(	Only one measurement taken, WC is outside	de of footprint. Not fish habitat.
		·

WATERCOURSE INFORMATION			
Watercourse ID:	Watercourse BL-WC201c-958		
General Site Location:	Bear Lake		
Watercourse Assessor(s):	CT, MT		
Affiliation:	CBCL Limited		
Field Assessment Date:	Nov 25 2022		
UTM Coordinates:			
Datum:	NAD 1983		
SUBST	RATE		
Dominant	Cobble		
Subdominant	Gravel		
Subdominant	Fines		
Trace	Boulder		
Trace			
Trace			
CHANNEL MEASUREMENTS			
Average Channel Width (m)	1.15		
Average Wetted Width (m)	1.03		
Average Bankful Depth (m)	0.24		
Average Water Depth (m)	0.24		
Average Pool Depth (m)	0.26		
WATERCOURSE MORPHOLOGY			
Watercourse Type	Ephemeral		
Stage (season was very dry)	Mid		



Photo 1: Upstream at Crossing with culvert



Photo 2: Downstream at Crossing, no channel, no sign of WC

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Cinnamon Fern	Osmunda cinnamomea
2	Balsam Fir	Abies balsamea
	Hay-scented Fern	#N/A
4	Yellow Birch	Betula alleghaniensis
5	Paper birch	Betula papyrifera
6	Sphagnum	#N/A
7	Red Spruce	Picea rubens
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	ATION
Veg	etation Stage	Pole-Sapling
	IMPORTANT FEATURES	OBSERVED
Veg	getated Across	
Flov	ws into Fish Habitat Downstream	
Und	derground Sections or Groundwater	V
Sur	face Flow	
Wetland Corridor (Flow Between Wetlands)		
Bar	rier	
Arti	ficial Channelization	
Cul	vert or Bridge	V
Wa	ter Flowing over Road (no Culvert)	
No	Defined Channel	V
ADDITIONAL NOTES		
Not fish habitat, channelization ends. Watercourse moves underground (d/s).		
Wetland, no u/s channel.		

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC201c-1062	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CT, MT	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 25 2022	
UTM Coordinates:	Wp. 1698	
Datum:	NAD 1983	
SUBST	RATE	
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)		
Average Wetted Width (m)		
Average Bankful Depth (m)		
Average Water Depth (m)		
Average Pool Depth (m)		
WATERCOURSE	MORPHOLOGY	
Watercourse Type		
Stage (season was very dry)		



Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES			
#	Common Name	Scientific Name	
1	Sphagnum moss	#N/A	
2		#N/A	
3		#N/A	
4		#N/A	
5		#N/A	
6		#N/A	
7		#N/A	
8		#N/A	
9		#N/A	
10		#N/A	
	RIPARIAN INFORM	ATION	
۷e۶	getation Stage		
IMPORTANT FEATURES OBSERVED			
۷e۶	getated Across	V	
Flows into Fish Habitat Downstream			
Underground Sections or Groundwater			
Surface Flow			
Wetland Corridor (Flow Between Wetlands)			
Bar	rier		
Art	ficial Channelization		
Cul	vert or Bridge		
Wa	ter Flowing over Road (no Culvert)		
No	Defined Channel	V	
ADDITIONAL NOTES			
	No channel in U/S area wetland, pooled ar	ea, D/S of culvert, no channel.	
Becomes sphag moss, bog area. Not fish habitat.			

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL- WC201c-2236 (WC	
	27)	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CT, MT	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 25 2022	
UTM Coordinates:	Wp. 1500	
Datum:	NAD 1983	
SUBST		
Dominant	Bedrock	
Subdominant	Gravel	
Subdominant	Fines	
Trace	Cobble	
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)	1	
Average Wetted Width (m)	0.8	
Average Bankful Depth (m)	0.27	
Average Water Depth (m)	0.14	
Average Pool Depth (m)	0.34	
WATERCOURSE MORPHOLOGY		
	Intermittent with	
Watercourse Type	Ephemeral Characteristics	
Stage (season was very dry)	Mid	



Photo 1: Culvert upstream at Crossing



Photo 2: Upstream view of WC

	RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name	
1	Balsam Fir	Abies balsamea	
2	Red Spruce	Picea rubens	
3	Red Maple	Acer rubrum	
4	Sphagnum	#N/A	
5		#N/A	
6		#N/A	
7		#N/A	
8		#N/A	
9		#N/A	
10		#N/A	
RIPARIAN INFORMATION			
Veg	etation Stage	Pole-Sapling	
	IMPORTANT FEATURES	OBSERVED	
Veg	getated Across		
Flov	ws into Fish Habitat Downstream		
Underground Sections or Groundwater		abla	
Surface Flow			
Wetland Corridor (Flow Between Wetlands)			
Barrier			
Artificial Channelization			
Culvert or Bridge		<b>V</b>	
Water Flowing over Road (no Culvert)			
No	Defined Channel		
ADDITIONAL NOTES			
Water Sample #8, @ 13:11. WC becomes underground ephemeral 30m from			
	crossing. Not fish habitat		

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC201C-2840	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CT, MT	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 25 2022	
UTM Coordinates:	Wp. 1504	
Datum:	NAD 1893	
SUBST	RATE	
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)		
Average Wetted Width (m)		
Average Bankful Depth (m)		
Average Water Depth (m)		
Average Pool Depth (m)		
WATERCOURSE	MORPHOLOGY	
Watercourse Type	Ephemeral	
Stage (season was very dry)	Low	

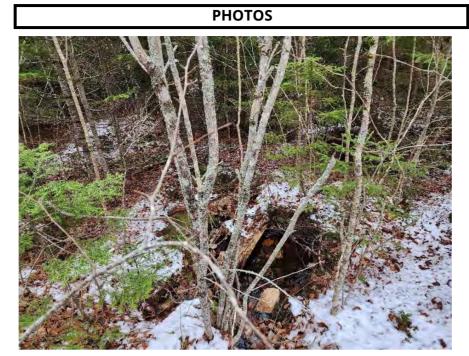


Photo 1: Upstream at Crossing



Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1	Speckled Alder	Alnus incana
2	Balsam Fir	Abies balsamea
3		#N/A
4		#N/A
5		#N/A
6		#N/A
7		#N/A
8		#N/A
9		#N/A
10		#N/A
	RIPARIAN INFORM	IATION
Veg	getation Stage	
	IMPORTANT FEATURES	OBSERVED
Veg	getated Across	
Flov	ws into Fish Habitat Downstream	
Und	derground Sections or Groundwater	V
Sur	face Flow	
We	tland Corridor (Flow Between Wetlands)	
Bar	rier	
Arti	ificial Channelization	
Cul	vert or Bridge	
Wa	ter Flowing over Road (no Culvert)	
No	Defined Channel	V
ADDITIONAL NOTES		
Ditch runs paralell to road, mostly sphagnum and wet leaves, very small		
channelized area D/S before transitions to underground emph. Road drainage		
- Not fish habitat		

WATERCOURSE INFORMATION		
Watercourse ID:	Watercourse BL-WC-201c-2844	
General Site Location:	Bear Lake	
Watercourse Assessor(s):	CT, MT	
Affiliation:	CBCL Limited	
Field Assessment Date:	Nov 25 2022	
UTM Coordinates:	Wp.1487	
Datum:	NAD 1983	
SUBSTRATE		
Dominant		
Subdominant		
Subdominant		
Trace		
Trace		
Trace		
CHANNEL MEASUREMENTS		
Average Channel Width (m)		
Average Wetted Width (m)		
Average Bankful Depth (m)		
Average Water Depth (m)		
Average Pool Depth (m)		
WATERCOURSE MORPHOLOGY		
Watercourse Type		
Stage (season was very dry)		







Photo 2: Downstream at Crossing

RIPARIAN VEGETATION SPECIES		
#	Common Name	Scientific Name
1		#N/A
2		#N/A
3		#N/A
4 5		#N/A #N/A
		#N/A
6 7		
		#N/A
8		#N/A
9		#N/A
10		#N/A
RIPARIAN INFORMATION		
۷e۶	getation Stage	ODCEDVED.
	IMPORTANT FEATURES	ORZEKAED
_	getated Across	
_	ws into Fish Habitat Downstream	
	derground Sections or Groundwater	
	face Flow	✓
Wetland Corridor (Flow Between Wetlands)		
Barrier		
Artificial Channelization		
Cul	vert or Bridge	
Wa	ter Flowing over Road (no Culvert)	
No	Defined Channel	v
ADDITIONAL NOTES		
Wo	oods drainage, mossy rocks, wet leaves, se	asonal drainage. Not fish habitat