

MELIADINE LAKE OUTLET NEAR THE MOUTH HYDROMETRIC STATION

ML-R FACTSHEET

LOCATION AND DETAILS

Located approximately 18 kilometers South of Meliadine West Camp.

Operational:	1997 13/6-25/9	1998 4/6-22/9	1999 17/6-22/9	2000 12/6-19/9	2008 10/7-17/9	
Benchmark:	Bolt on boulder; 100.0 m (non geodetic)				Drainage Area:	689 km ²
Coordinates:	UTM: 544835 m E, 6971643 m N (NAD83)				Lat/Long:	62°52'19" N, 92°07'07" W
Transducer:	none				Datalogger:	none



Upstream view of the Meliadine River near Rankin Inlet.



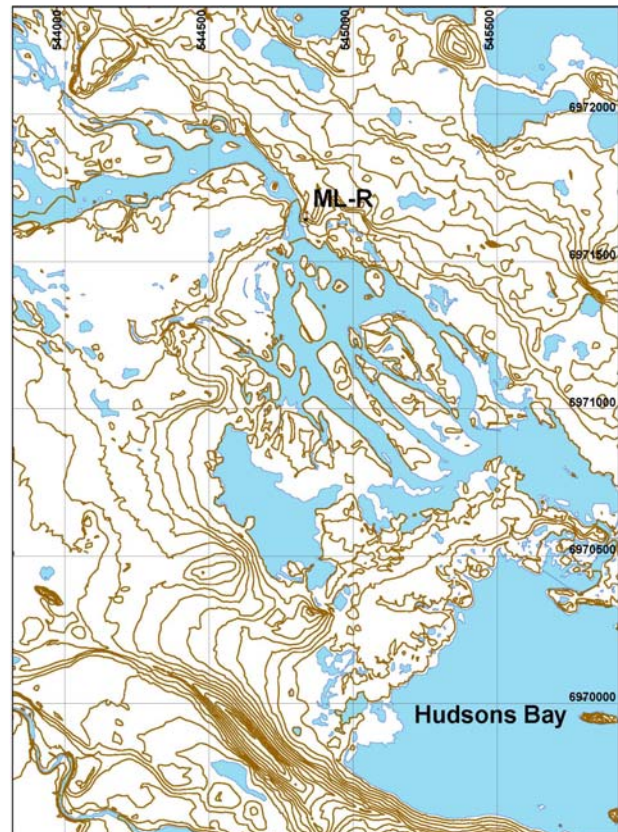
Downstream view of the Meliadine River near Rankin Inlet.



Meliadine River near Rankin, June 2008.



Benchmark.



NTS Mapping of Area.

Meliadine River near the Mouth - 2008													
MANUAL DISCHARGE MEASUREMENT (m ³ /s)													
DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	-	-	-	-	-	-	-	-	-	-	-	-	
2	-	-	-	-	-	-	-	4.758	-	-	-	-	
3	-	-	-	-	-	-	-	-	-	-	-	-	
4	-	-	-	-	-	-	-	-	-	-	-	-	
5	-	-	-	-	-	-	-	-	-	-	-	-	
6	-	-	-	-	-	-	-	-	-	-	-	-	
7	-	-	-	-	-	-	-	-	-	-	-	-	
8	-	-	-	-	-	-	-	-	-	-	-	-	
9	-	-	-	-	-	-	-	-	-	-	-	-	
10	-	-	-	-	-	-	9.000	-	-	-	-	-	
11	-	-	-	-	-	-	-	-	-	-	-	-	
12	-	-	-	-	-	-	-	-	-	-	-	-	
13	-	-	-	-	-	-	-	-	-	-	-	-	
14	-	-	-	-	-	-	-	-	-	-	-	-	
15	-	-	-	-	-	-	-	-	-	-	-	-	
16	-	-	-	-	-	-	-	-	-	-	-	-	
17	-	-	-	-	-	-	-	-	-	-	-	-	
18	-	-	-	-	-	-	-	-	2.206	-	-	-	
19	-	-	-	-	-	-	-	-	-	-	-	-	
20	-	-	-	-	-	-	-	-	-	-	-	-	
21	-	-	-	-	-	-	-	-	-	-	-	-	
22	-	-	-	-	-	-	-	-	-	-	-	-	
23	-	-	-	-	-	-	-	-	-	-	-	-	
24	-	-	-	-	-	-	-	-	-	-	-	-	
25	-	-	-	-	-	-	-	-	-	-	-	-	
26	-	-	-	-	-	-	-	-	-	-	-	-	
27	-	-	-	-	-	-	-	-	-	-	-	-	
28	-	-	-	-	-	-	-	-	-	-	-	-	
29	-	-	-	-	-	-	-	-	-	-	-	-	
30	-	-	-	-	-	-	-	-	-	-	-	-	
31	-	-	-	-	-	-	-	-	-	-	-	-	

Project Name:	Comaplex		Date	02-Aug	Crew:	DC / AU
Watercourse:	Meliadine Lake near Rankin		Start Time	13:00		
Crossing ID:	C07 Meliadine Lake n		End Time	16:10		
BM GPS Location: (given/measured)			Datalogger SN: new ☐			
East 544721 BM1 / 544835			Depth Reading			
North 6971568 BM1 / 6971643			Battery			
Survey:	BM_Elevation =	100	Transducer SN: new ☐			
	BM_Reading :	Staff Gauge	Meter Type/SN:			
	WS_Reading :		Photos #			
	WS_Elevation :		Obs:			
BM location inf.		D WL				

STATION	DISTANCE FROM RDB BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY		DISTANCE FROM RDB / LDB BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY	
				0.2 Depth	0.6/0.8 Depth				0.2 Depth	0.6/0.8 Depth
RDB				(m/s)	(m/s)				(m/s)	(m/s)
1	0.0		0.00		0.00	35.00		0.17		0.010
2	1.0		0.27		0.08	36.00		0.13		0.000
3	2.0		0.33		0.08	41.00		0		0.000
4	3.0		0.43		0.01					
5	4.0		0.55		0.05	0.00		0		0.140
6	5.0		0.62		0.02	1.00		0.17		0.240
7	6.0		0.63		0.20	2.00		0.26		0.220
8	7.0		0.53		0.16	3.00		0.26		0.320
9	8.0		0.50		0.16	4.00		0.29		0.280
10	9.0		0.50		0.17	5.00		0.4		0.180
11	10.0		0.50		0.15	6.00		0.44		0.130
12	11.0		0.50		0.16	7.00		0.45		0.150
13	12.0		0.50		0.16	8.00		0.52		0.210
14	13.0		0.50		0.2	9.00		0.49		0.250
15	14.0		0.51		0.2	10.00		0.5		0.280
16	15.0		0.46		0.21	11.00		0.53		0.290
17	16.0		0.50		0.21	12.00		0.61		0.310
18	17.0		0.52		0.22	13.00		0.65		0.310
19	18.0		0.50		0.24	14.00		0.67		0.370
20	19.0		0.50		0.24	15.00		0.58		0.310
21	20.0		0.45		0.25	16.00		0.58		0.320
22	21.0		0.46		0.21	17.00		0.56		0.330
23	22.0		0.44		0.21	18.00		0.5		0.220
24	23.0		0.40		0.13	19.00		0.46		0.230
25	24.0		0.38		0.14	20.00		0.45		0.190
26	25.0		0.29		0.14	21.00		0.42		0.150
27	26.0		0.32		0.12	22.00		0.32		0.110
28	27.0		0.32		0.13	23.00		0.3		0.100
29	28.0		0.30		0.1	24.00		0		0.000
30	29.0		0.31		0.09			0		
31	30.0		0.25		0.08			0		
32	31.0		0.21		0.07			0		
33	32.0		0.21		0.06	Q (m3/s)	4.758		WS(m)	0.000
34	33.0		0.21		0.02	A(m2)	27.11			
35	34.0		0.16		0.02	B(m)	41.0			

Project Name:	Comaplex		Date	17-Sep	Crew:	JL / AU
Watercourse:	Meliadine Lake near Rankin		Start Time	11:00		
Crossing ID:	C07 Meliadine Lake n		End Time	11:45		
BM GPS Location: (given/measured)			Datalogger SN:			new ☐
East 544721 BM1 / 544835			Depth Reading			
North 6971568 BM1 / 6971643			Battery			
Survey:	BM_Elevation =	100	Transducer SN:			new ☐
BM_Reading :		Staff Gaug	Meter Type/SN:			
WS_Reading :			Photos #			
WS_Elevation :			Obs:			
BM location inf.		D WL				

STATION	DISTANCE FROM RDB BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY		DISTANCE FROM RDB / LDB BANK (m)	ICE THICKNESS (m)	DEPTH (m)	VELOCITY	
				0.2 Depth	0.6/0.8 Depth				0.2 Depth	0.6/0.8 Depth
RDB				(m/s)	(m/s)				(m/s)	(m/s)
1	0		0		0					
2	2		0.25		0.02					
3	4		0.36		0					
4	6		0.4		0					
5	8		0.35		0.09					
6	10		0.42		0.12					
7	12		0.45		0.15					
8	14		0.42		0.21					
9	16		0.4		0.16					
10	18		0.4		0.15					
11	20		0.32		0.05					
12	22		0.25		0.13					
13	24		0.25		0.1					
14	26		0.2		0.08					
15	28		0.2		0.05					
16	30		0.16		0					
17	32		0.08		0.04					
18	34		0		0					
19										
20	0		0		0					
21	2		0.24		0.18					
22	4		0.25		0.17					
23	6		0.25		0.18					
24	8		0.3		0.15					
25	10		0.34		0.05					
26	12		0.425		0.2					
27	14		0.5		0.24					
28	16		0.58		0.23					
29	18		0.41		0.15					
30	20		0.35		0.07					
31	22		0.2		0.1					
32	23.3		0		0					
33						Q (m3/s)	2.206		WS(m)	0.000
34						A(m2)	17.44			
35						B(m)	34.0			