

Public Works Canada

Travaux Publics Canada

Western Region

Region de l'Ouest

NORTHERN ENVIRONMENTAL
REFERENCE COLLECTION
PROTECTION BRANCH



D003076

VOLUME IV - SOIL DATA - MILE 510 TO MILE 583

GEOTECHNICAL INVESTIGATION

MILE 347 TO MILE 690 MACKENZIE HIGHWAY

WINTER - 1975

SUBSOIL DATA

MILE 510 TO MILE 583 - MOSAICS 47 TO 63

BORROW PITS 104 TO 147

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 10/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE | VEGETATION SPRUCE & POPLAR | ELEV

TEST HOLE: MILE 510 | B,C,S | NUMBER 1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0–2					Pt	PEAT	F	Vx	89	11	0				MOIST
2–4					CL	CLAY-SILTY SAND 2'–3'			41	49	10				MOIST
4–8					SM	SAND-SILTY PEBBLES			15	80	5				WET
8–10						9'			86	13	1				DAMP
10–16						CLAY-SILTY SANDY			97	3	0				DAMP
16–20					CH	SILTY HIGH PLASTIC			99	1	0				DAMP
20–24						WET LAYER NEAR 10'			99	1	0				DAMP

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

-65-32-3 DAMP

BOTTOM OF HOLE - 30'

R073

River Bank 100' to West

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE: MILE 512 | B,C,S | NUMBER 1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT 1'		
2					ML	SILT - SANDY 3'		
4					CL	CLAY - SILTY 5'		
6					ML	SAND - SILT MIX.		Vs
8								
10					SM	PEBBLES	F	Vc-Vr
12								
14								
16								
18								
20						20'		
22					CL	CLAY - SILTY SANDY PEBBLES MED. PLASTIC		Vx
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	54	46	0		MOIST		
4	97	3	0		DAMP		
6	54	46	0		SAT.		
8							
10	43	56	1		WET		
12							
14							
16	52	48	1		SAT		
18							
20							
22	67	30	3		DAMP		
24							
	54	39	7		DAMP		

F

54-39-7 DAMP

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET 200' From ℄
CKD | TECH Reynolds | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE & WILLOW | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
512		2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					SM	SAND-GRAVELLY SILTY	F	
10					CL	10' CLAY-SILTY SANDY PEBBLES Low Plastic		Vx
24						BOTTOM OF HOLE-30'		

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	22	55	23			DAMP
4	16	46	38			DAMP
8	17	71	12			DAMP
10	66	27	7			Moist
14	86	9	5			Moist
20	82	16	2			DAMP
24	72	27	1			DAMP
F	65	34	1			Humid

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 9/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CARRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: PINE & SPRUCE | ELEV:

TEST HOLE: MILE 512 | B.C.S | NUMBER 3

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (LB/C.F.)	DRY DENSITY (LB/C.F.)
0-7					ML	SILT - SANDY - PEBBLES	F	Vx	58	39	3		MOIST	
7-8					SM	SAND - SILTY - GRAVELLY			24	45	31		DAMP	
8-16					CL	CLAY - SILTY SANDY PEBBLES MED. PLASTIC			62	34	4		MOIST	
16-30									84	25	4		DAMP	
									82	26	2		DAMP	
									68	20	12		DAMP	
									79	20	1		DAMP	
									75	21	4		DAMP	

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT | LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 11 3 45 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: A12 | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV:

TEST HOLE: MILE 512 | B.C.S | NUMBER 4

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT (20 40 60 80 100 100+)

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS: CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT — 2'									
2					Cl	CLAY - SILTY SANDY PEBBLES		V_S	62	36	2		SAT.		
4									52	40	8		SAT.		
6					Sm	SAND - GRAVELLY SILTY — 6'		?	24	61	15		SAT.		
8						Rock Layer @ 8.5' — 8.5'									
10						CLAY - SILTY SANDY PEBBLES	F		71	26	3		DAMP		
12															
14					Cl	MED. PLASTIC		V_X	59	33	6		DAMP		
16															
18															
20						20'			58	35	7		DAMP		
22						BOTTOM OF HOLE - 20'									
24															

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE-WILLOW-POPLAR | ELEV:

TEST HOLE: MILE 512 | B.C.S | NUMBER 5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS: CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0–8					SM	SAND - PEBBLES SILTY - GRAVELLY	F	VX	6	9	3	1		DAMP	
8–10									18	65	17			DAMP	
10–12									11	64	25			DAMP	
12–14					SC	CLAYEY			17	60	23			WET	
14–16									26	56	18			WET	
16–18															
18–20					CL	CLAY - SILTY SANDY PEBBLES 20'			58	40	2			MOIST	
20–22						BOTTOM OF HOLE - 20' SAMPLE FROM 15' & 20' CONTAIN SAND FROM WALL OF HOLE ABOVE									
22–24															

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT, LIQUID LIMIT
20 40 60 80 100 100+

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 10/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: Pine & Willow | ELEV:

TEST HOLE: MILE 512 | B.C.S | NUMBER 6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS: CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (LBS/F)	DRY DENSITY (P.C.F.)	REMARKS
0–2						CLAY - SILTY			92	8	0		DAMP		
2–4							F	Vx							
4–6						SANDY PEBBLES			76	20	4		DAMP		
6–8															
8–10						LOW PLASTIC			75	19	6		DAMP		
10–12					CL				57	40	3		M.		
12–14															
14–16									71	20	9		M.		
16–18															
18–20															
20–22									74	22	4		M.		
22–24															
24–26									68	25	7		M.		

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 120+

-64-28-8 M.B

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 10/13/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

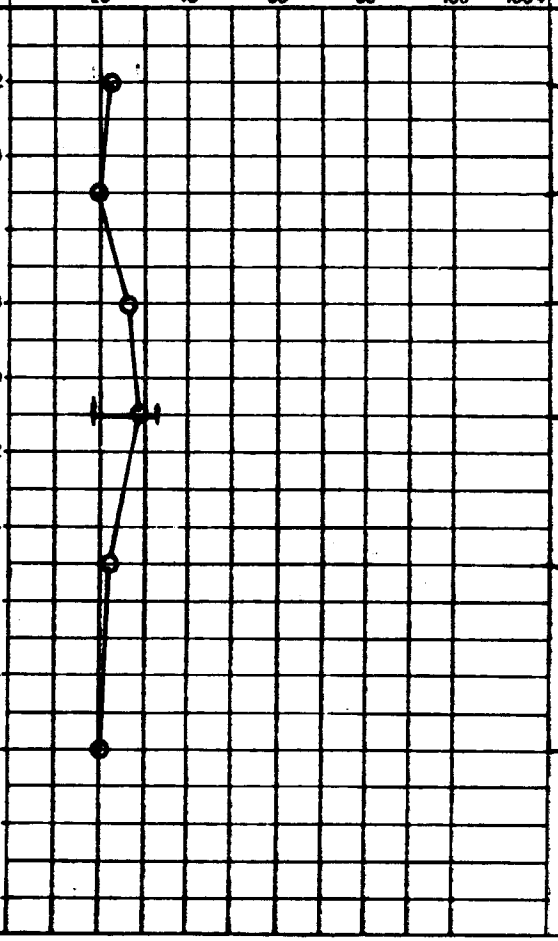
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: POPLAR | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
513		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2						CLAY - SILTY	F	Vx
4						MED. PLASTIC		NOT
6								FROZEN
8					CL			
10								
12								
14							F	Vx
16								
18								
20						20'		
22						BOTTOM OF HOLE		
24								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	97	3	0			DAMP
4	99	1	0			DAMP
6	100	0	0			MOIST
8						
10	100	0	0			DAMP
12						
14						
16	100	0	0			DAMP
18						
20	100	0	0			DAMP
22						
24						

ROTS

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 10/2/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH CURRIE	RIG: A	SURFACE DRAINAGE:	VEGETATION: POPLAR	ELEV

TEST HOLE — MILE: 513 — B.C.S — NUMBER: 2

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20, 40, 60, 80, 100, 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					CL	CLAY - SILTY	F	Vx	QQ-	1	0		DAMP		
4									QQ-	1	0		DAMP		
6						MED. PLASTIC		Not							
8								Frozen	100-	0	0		DAMP		
10															
12									QQ-	1	0		DAMP		
14							F	Vx							
16									QQ-	1	0		DAMP		
18															
20						20'			QQ-	1	0		DAMP		
22						BOTTOM OF HOLE - 20'									
24															

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: POPLAR | ELEV:

TEST HOLE: MILE 513 | B,C,S | NUMBER 3

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2						CLAY - SILTY	F	Vx	99	1	0		DAMP		
4															
6						MED. PLASTIC		NOT	100	0	0		DAMP		
8								FROZEN							
10					C				99	1	0		DAMP		
12															
14							F		96	4	0		DAMP		
16								Vx							
18															
20						20'			100	0	0		DAMP		
22						BOTTOM OF HOLE - 20'									
24															

RDTS

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION POPLAR | ELEV

TEST HOLE: MILE 513 | B,C,S | NUMBER 4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–6					CL	CLAY-SILTY MED. PLASTIC	F	VX
6–20					CL	CLAY-SILTY MED. PLASTIC	NOT FROZEN	
20						20' BOTTOM OF HOLE 20'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2	99	1	0		DAMP		
6	99	1	0		MOIST		
8	99	1	0		DAMP		
12	100	0	0		DAMP		
16	99	1	0		MOIST		
20	100	0	0		DAMP		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: BOREAL + WILLOW | ELEV:

TEST HOLE: MILE 514 | B,C,S | NUMBER 1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2					CL	CLAY - SILTY		
4						MED. PLASTIC		
6								
8								Vx
10								
12							F	
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 | 40 | 60 | 80 | 100 | 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	99	1	0		DAMP		
4	100	0	0		H.V.I.3		
8	99	1	0		DAMP		
10	99	1	0		DAMP		
14	100	0	0		DAMP		
20	96	4	0		DAMP		
24	92	7	1		DAMP		

SANDY GRAVELLY

58-20-22 DAMP

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: POPLAR | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
514		2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						CLAY - SILTY	F	Vx	99	1	0		DAMP	
4						MED. PLASTIC			99	1	0		DAMP	
6								NOT						
8					CI			FROZEN	98	2	0		DAMP	
10									99	1	0		DAMP	
12														
14						MED. PLASTIC			99	1	0		DAMP	
16					CI		F							
18								Vx						
20									99	1	0		DAMP	
22						SANDY								
24						PEBBLES			87	11	2		DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 30'

MOIST

- 78-18-4

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: POPLAR | ELEV:

TEST HOLE: MILE 514 | B,C,S | NUMBER 3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						CLAY-SILTY		
4						MED. PLASTIC		
6								
8								
10					Cl		F	
12								
14								
16								Vx
18								
20								
22								
24						SANDY PEBBLES		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	97	3	0				HUMID
4	98	2	0				HUMID
6	99	1	0				DAMP
8							
10	99	1	0				DAMP
12							
14	99	1	0				DAMP
16							
18							
20	97	3	0				DAMP
22							
24	72	24	4				DAMP

-66-24-10 DAMP

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 6/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE: MILE 528 | B,C,S | NUMBER 1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		
						3'		
4						CLAY-SILTY		
6					CL	LOW-MED PLASTIC		?
8								
10					CI			
12								
14								
						16		
16						SILT-SANDY		
18						PEBBLES		
					ML			
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2							MOIST
4	98	2	0				H.B.
6							
8	97	3	0				MOIST
10							
12	92	26	2				DAMP
14							
16	59	35	6				DAMP
18							
20	65	32	3				DAMP
22							
24	67	24	9				DAMP

CLAY-SANDY SILTY
CL GRAVELLY

BOTTOM OF HOLE - 30'

-50-28-12 DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 16 3 75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
529		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 2'		
2						CLAY - SILTY		
4								
6								
8								
10					CL	SANDY PEBBLES LOW PLASTIC	F	$V_C - V_f$
12								
14								
16								
18						GRAVELLY SAND-GRAVEL-CLAY MIX		
20					GC			
22								
24						PEBBLES		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
96	4	0		WET	
93	7	0		MOIST	
56	40	4		WET	
31	62	7		WET	
65	26	9		DAMP	
20	60	20		DAMP	
48	47	5		DAMP	

R073

CL SANDY-GRAVELLY

BOTTOM OF HOLE - 30'

H.I.B-20-53-27

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 10/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE: MILE 533 | B,C,S | NUMBER 1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–1					Pt	PEAT		
1–3					CL	CLAY - SILTY SANDY		
3–11					GC	GRAVEL - CLAY - SAND	F	Vx
11–14					GP	GRAVEL - SANDY		
14–18					ML	SILT - GRAVELLY		Vc–Vf

GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	76	24	0		H.I.B		
4	27	36	37		DAMP		
8	3	46	51		H.I.B		
10	78	8	14		H.I.B		
14	81	7	11		WET		
20	96	4	0		MOIST		
24	97	2	1		MOIST		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

CL CLAY - SILTY
MED. PLASTIC F

BOTTOM OF HOLE - 30'

-75 2 23 MOIST

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

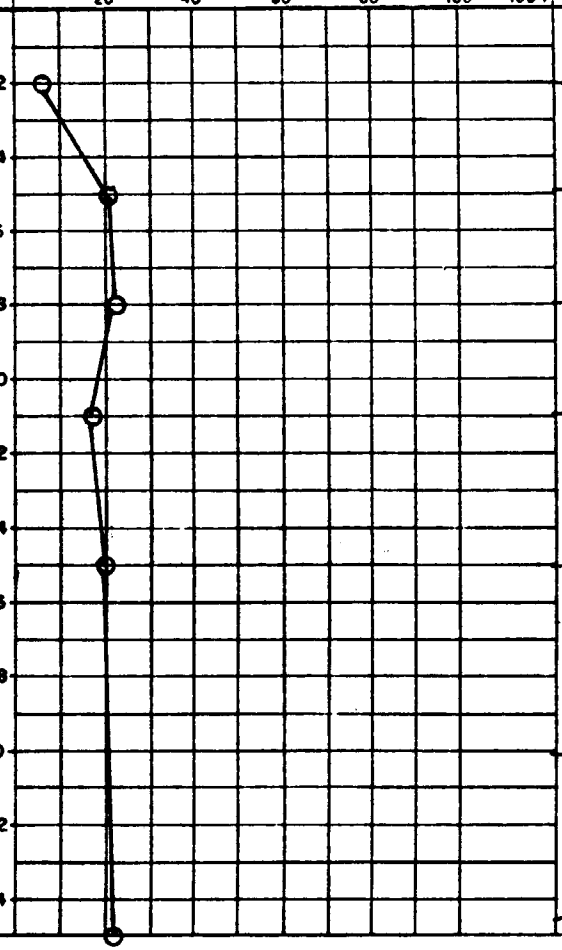
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CKD: | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
533		2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT 1'								
2					GM	GRAVEL-SANDY SILTY 3'			14	-	43	43	DAMP	
4					CL	CLAY-SILTY PEBBLES			87	-	9	4	MOIST	
6						LOW-MED. PLASTIC								
8					Ci				93	-	6	1	DAMP	
10							F		93	-	7	0	DAMP	
12						11' SILT-SANDY CLAYEY		Vx						
14					ML				85	-	15	0	DAMP	
16														
18														
20									85	-	15	0	H.I.B.	
22														
24					CL	CLAY-SILTY SANDY			88	-	12	0	Moist	



BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 16/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: A12 | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE

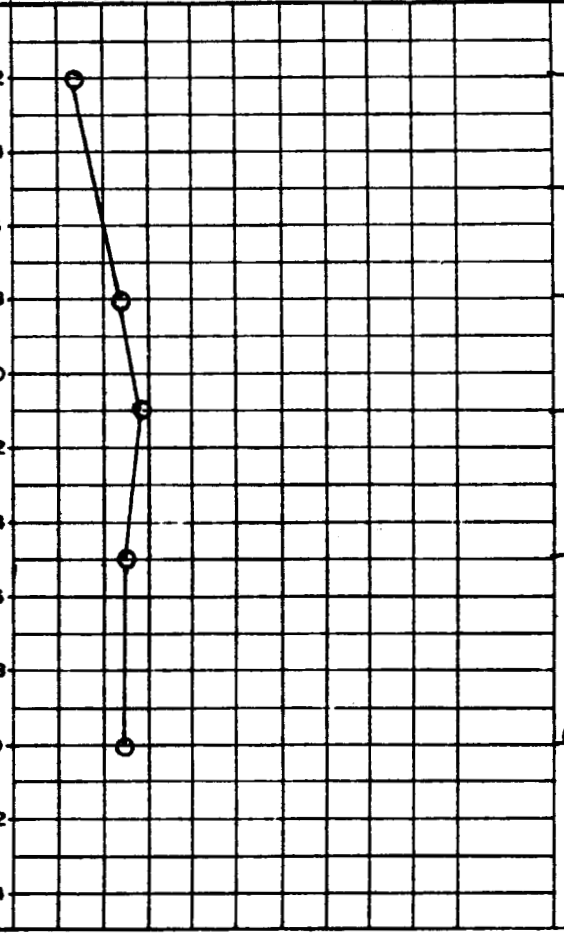
MILE	B,C,S	NUMBER
533		3

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'		
4					CL	CLAY - SILTY SANDY PEBBLES		Vc - Vr
						5'		
6					ML	SILT - SANDY		I
8								
10							F	Vs
						11'		
12					CI	CLAY - SILTY MED. PLASTIC		
14								
16								
18								
20						20'		
						BOTTOM OF HOLE - 20'		
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS					
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	61	29	10		WET	
4	69	31	0		H.I.B	
8	94	6	0		WET	
10	96	4	0		SAT.	
14	94	6	0		WET	
20	95	5	0		WET	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 18/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG B-50 | SURFACE DRAINAGE: | VEGETATION Birch & Willows | ELEV

TEST HOLE: MILE 546 | B,C,S | NUMBER N-1

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt.	PEAT .5'								
2						CLAY - SILTY SANDY			66	34	0		MOIST	
4						SILTY			99	1	0		WET	
6						MED. PLASTIC								
8							F	Vs	99	1	0		WET	
10					Cl				100	0	0		WET	
12														
14									98	2	0		FREE WATER	
16														
18														
20									100	0	0		SAT.	
22														
24									99	1	0		H.W.B.	

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

Ti

BOTTOM OF HOLE - 30'

-100-0-0 SAT.

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION Birch - Spruce - Willows | ELEV

TEST HOLE: MILE 596 | B,C,S | NUMBER N-2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT .5'									
2					SM	SAND - SILTY 3'			27	73	0		WET		
4					ML	SILT - SANDY CLAYEY To CLAY SILTY SANDY LOW PLASTIC	F	$V_c - V_v$	63	37	0		WET		
6															
8									79	21	0		WET		
10									63	37	0		WET		
12					CL										
14									81	19	0		WET		
16															
18						18'									
20						CLAY - SILTY MED. PLASTIC			97	3	0		H.I.B		
22					CI										
24									95	5	0		WET		

O = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

BOTTOM OF HOLE - 30'

-98-2-0 MOIST

CREEK CHANNEL

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

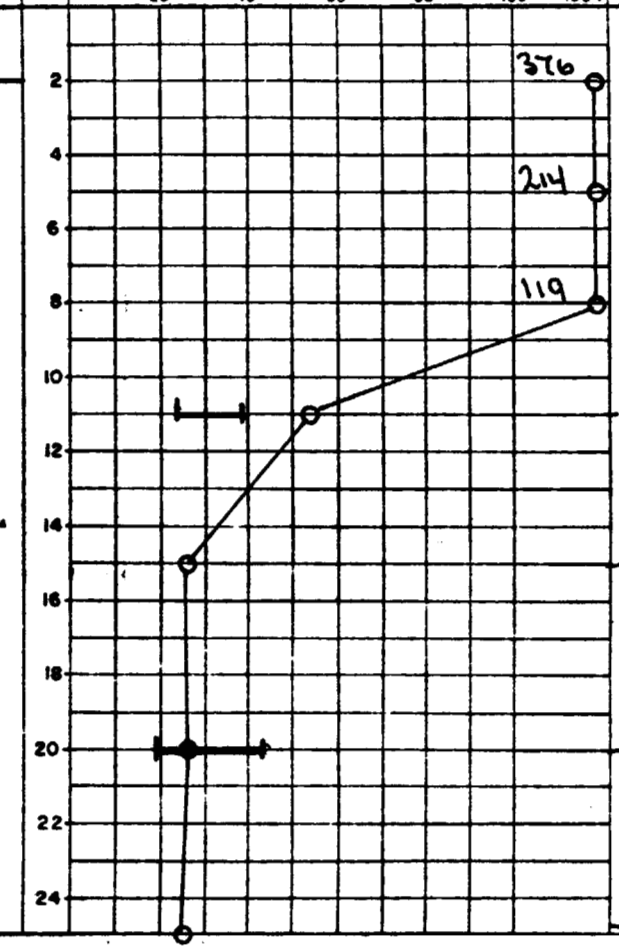
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CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE: MILE 546 | B,C,S | NUMBER 1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0						ICE		ICE
2					Pt	PEAT		
4								
6								
8					OL	ORGANIC SILT		
10						8'		
12						CLAY - SILTY SANDY ORGANIC SMALL SHELLS MED. PLASTIC SILTY		NOT FROZEN
14								
16					CI			
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS					
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
10	76	24	0		WET	
16	94	6	0		MOIST	
20	97	3	0		MOIST	
24	91	9	0		MOIST	

DEPTH (FEET)	WET DENSITY (PCF)	DRY DENSITY (PCF)
2	SAT.	
4	WET	
8	WET	

REMARKS

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

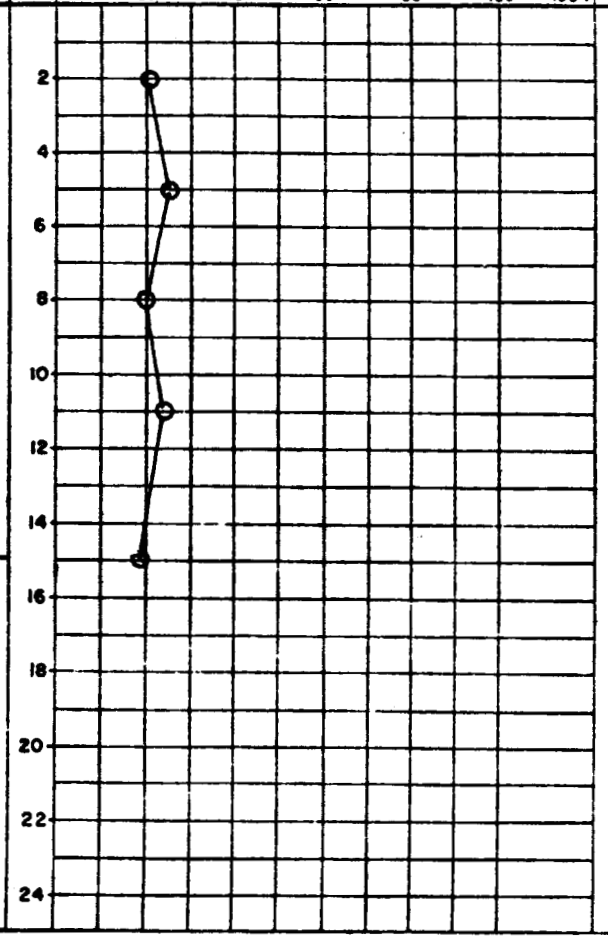
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE: ℄ & Access Road | OFFSET:
CKD | TECH Reynolds | RIG: A12 | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV:

TEST HOLE: MILE 547 | B,C,S | NUMBER 1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2'		
2					SM	SAND - SILTY — 3'		
4						CLAY - SILTY SANDY		
6								V_C - V_r
8					CL	LOW - MED. PLASTIC	F	
10					CI			
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %

DEPTH (FEET)	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	WET	
4	WET	
8	MOIST	
12	MOIST	
16	WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

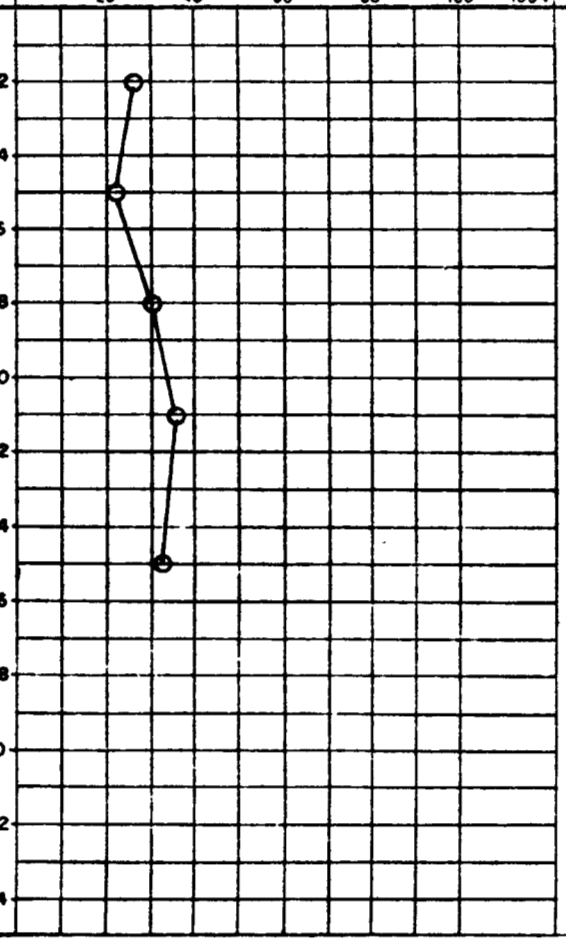
DWN | FIELD ENG | DATE DRILLED 18/3/15 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: Flat | VEGETATION: Spruce | ELEV

TEST HOLE: MILE 547 | B,C,S | NUMBER 2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 2'		
2					ML	Silt - Sandy		
4						Sand - Silty		
6					SM			
8						— 8'	F	Vc – Vy
10					CL	Clay - Silty Sandy		
12						Low - Med. Plastic		
14					CI	— 15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					WET	
					WET	
					WET	
					WET	
					WET	

ROP3

DRILL HOLE REPORT

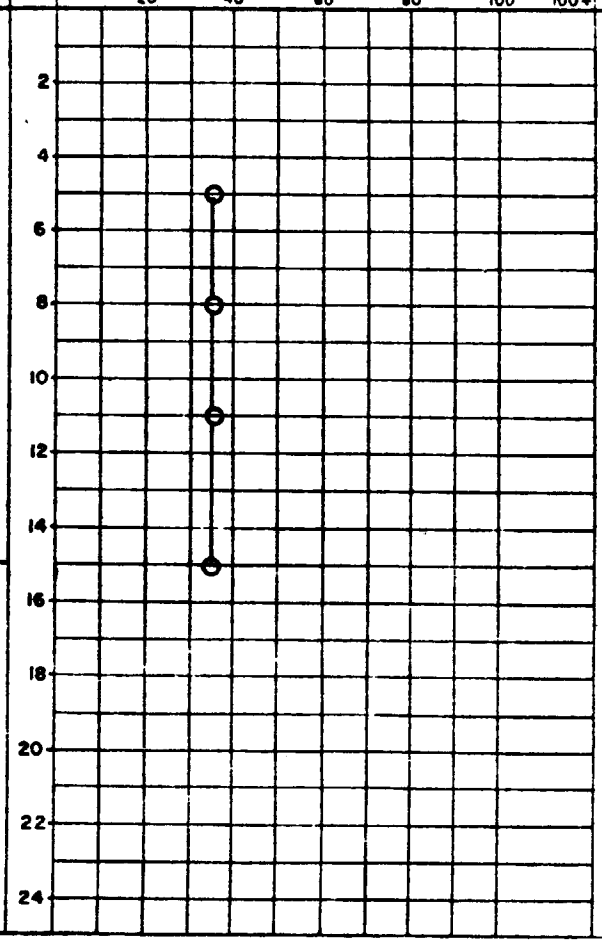
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 18/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION: SPRUCE	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
547		3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		
						2'		
4						CLAY - SILTY SANDY		
6					CL	LOW - MED. PLASTIC	F	VC - VR
8					CI			
10								
12								
14								
						15		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				H.W.		
				WET		
				WET		
				WET		
				WET		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: Flat | VEGETATION: Spruce | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
547		4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	Peat — 2'		
4					SM	Silt - Sandy		Vc-Vr
6					ML	Sand-Silty	F	
8						— 8'		
10						Clay Silty		
12					CL	Low-Med Plastic		
14					CI	— 15'		
16						Bottom of Hole - 15'		

O = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					H. I, B		
4					Wet		
6							
8					Wet		
10					Moist		
12							
14					Moist		
16							
18							
20							
22							
24							

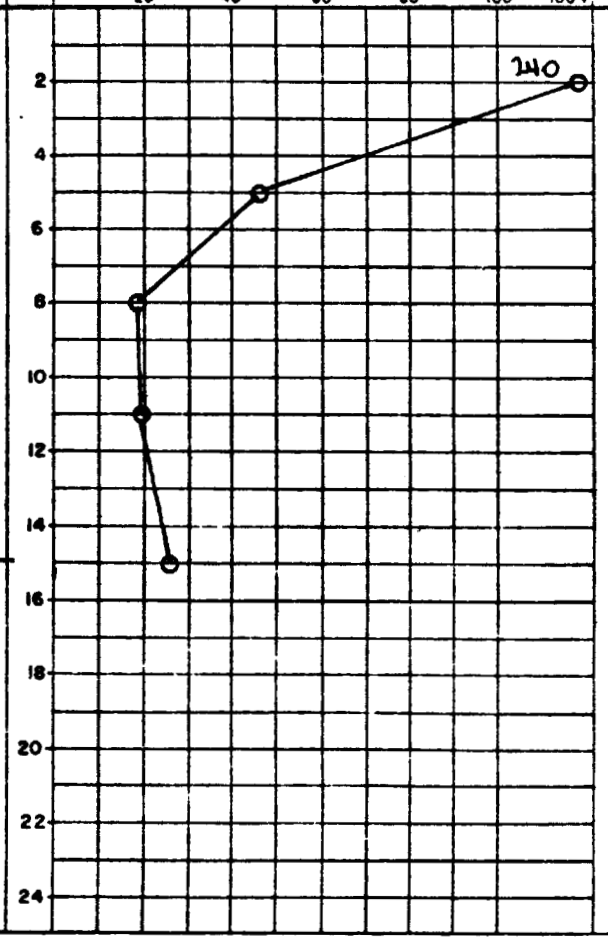
DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 18/3/74 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH AIR | RIG KENNOLDS | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE | ELEV

TEST HOLE: MILE 548 | B,C,S | NUMBER 1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		
4					Pt	PEAT — 4'		Vs
6					CL	CLAY - SILTY SANDY	F	
8					CI	LOW-MED. PLASTIC — 8'		
10					SM	SAND - SILTY		
12					ML	SILT - SANDY		
14						— 15'		
16						BOTTOM OF HOLE 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				WET		
				SAT.		
				WET		
				SAT.		
				WET		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 18/3/75 | AIRPHOTO NO: | CHAINAGE: On Winter Road | OFFSET:
CKD: | TECH: Reynolds | RIG: AID | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

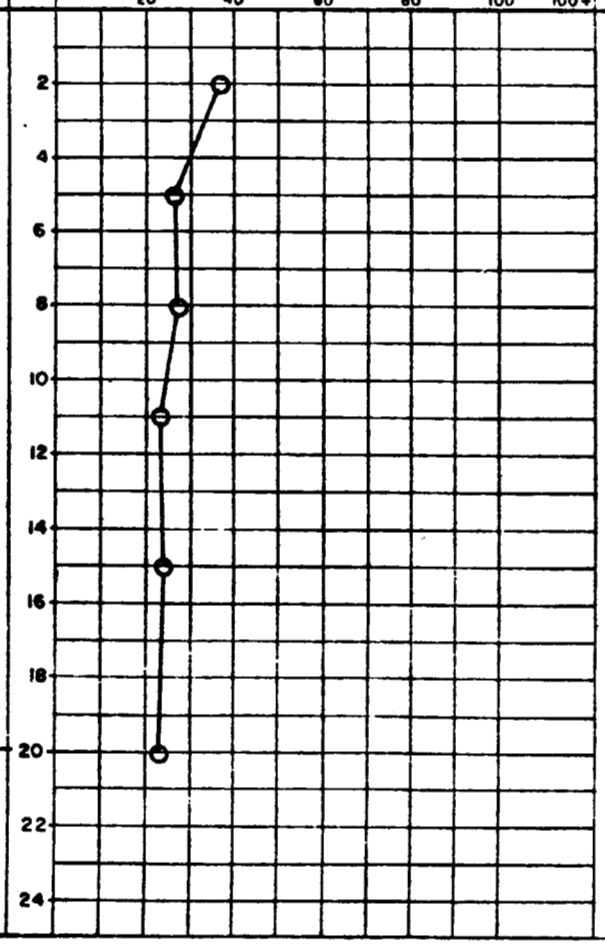
TEST HOLE: MILE 548 | B,C,S | NUMBER 2

REMARKS:

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2'	F	Vc-Vr
2–10					CL	CLAY - SILTY SANDY LOW PLASTIC — 11'		
12–14					SM ML	SAND - SILT MIXTURE — 15'		
16					CL	CLAY - SILTY LOW PLASTIC — 17'		
18					SM ML	SAND - SILT MIXTURE — 20'		
20						BOTTOM OF HOLE - 20'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
0					WET	
4					WET	
8					WET	
12					MOIST	
16					WET	
20					WET	

South Bank of Creek

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 8/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE:	VEGETATION: SPRUCE	ELEV

TEST HOLE

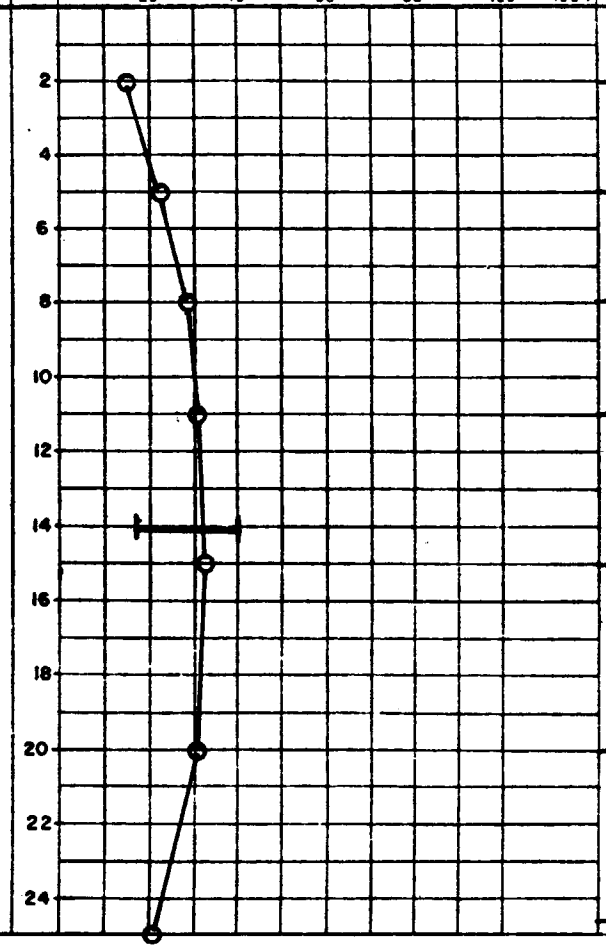
MILE	B,C,S	NUMBER
548		3

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		
2–8					SM	SAND-SILTY		
8–16					CL	8' CLAY-SILTY MED. PLASTIC	F	V_c-V_r

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	26	73	1		WET	
4	46	54	0		WET	
8	85	15	0		WET	
10	93	7	0		WET	
14	96	4	0		WET	
20	96	4	0		WET	
24	48	52	0		WET	

BOTTOM OF HOLE. 25'

NORTH SIDE OF CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 8/13/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
548		4

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2						CLAY - SILTY	F	Vs
4						MED. PLASTIC		
6								
8							F	
10					Cl			
12								Vc-Vr
14								
16								
18								
20								
22								
24						SANDY		

F

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	92	8	0				FREE WATER
4	90	10	0				FREE WATER
6							
8	98	2	0				WET
10	99	1	0				MOIST
12							
14	98	2	0				MOIST
16							
18							
20	99	1	0				MOIST
22							
24	89	11	0				WET

BOTTOM OF HOLE - 27'

DRILL HOLE REPORT

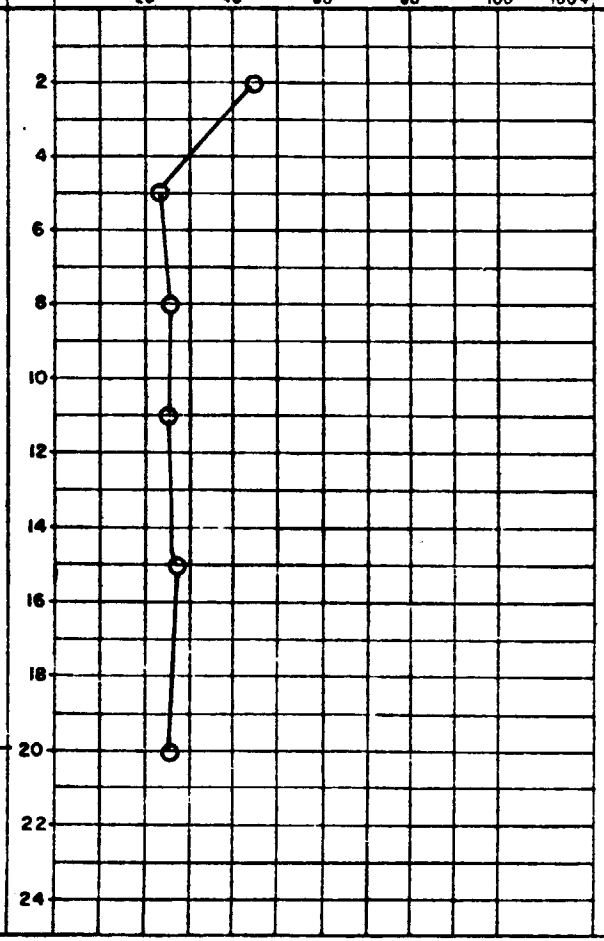
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 8/6/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
548		51

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'		
4						SAND - SILT MIXTURE		
6					SM			
8							F	Vs
10								
12								
14								
16						16'		
18					CL	CLAY - SILTY SANDY		
20					CI	LOW-MED PLASTIC 20'		
22						BOTTOM OF HOLE. 20'		
24								



○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				FREEZING		
				SAT.		
				SAT		
				SAT		
				SAT.		
				WET		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 8/31/1815	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH REYNOLDS	RIG AUR	SURFACE DRAINAGE: FLAT	VEGETATION: SPRUCE	ELEV

TEST HOLE

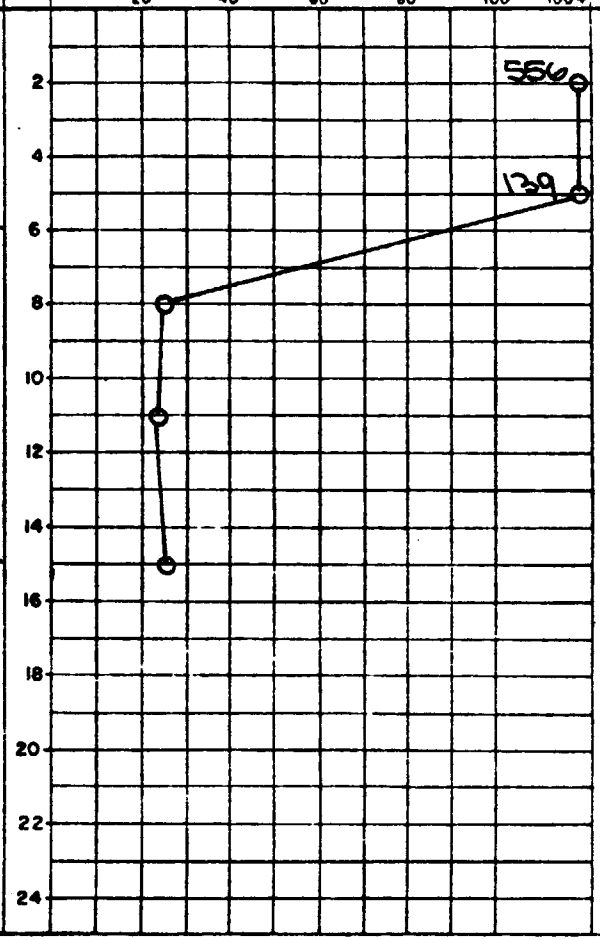
MILE	B,C,S	NUMBER
548		6

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–6					Pt	PEAT	F	Vx
6–15					SM	SAND - SILTY MED. - FINE GRAINED	F	Vc - Vr
15						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT.	
6					SAT.	
8					WET	
10					WET	
15					WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED: FLAT	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH: REYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION: POPLAR & SPRUCE	ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
553		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–1					Pt	PEAT		
1–6					SP	SAND - FINE	F	Vc–Vr

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	11	-	89	0	WET	
4	4	-	96	0	Moist	
6	4	-	96	0	Moist	
8	3	-	97	0	Moist	
10	5	-	95	0	Moist	
12						
14						
16						
18						
20	8	-	92	0	WET	
22						
24	6	-	94	0	WET	

BOTTOM OF HOLE - 25'

Top of Bank of South Creek (Cook)

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 10/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: | VEGETATION | ELEV

TEST HOLE: MILE 553 | B,C,S | NUMBER 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
0					Pt	Peat .5'									
2						SAND - Fine			9	91	0		Moist		
4								Vx	5	95	0		Moist		
6					SP				4	96	0		Moist		
8									4	96	0		Moist		
10															
12							F		4	96	0		Moist		
14															
16								Vc-Vr	10	90	0		Wet		
18															
20									3	97	0		Moist		
22															
24									8	92	0		Wet		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

Bottom of Hole - 25

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 29/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH P. Ronyk-H	RIG: D-5D	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
553		3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					Pt	Peat 2"									
4					SP	SAND - Fine		Vx	8	92	0		Moist		
6									6	94	0		Moist		
8									5	95	0		Moist		
10									7	93	0		Wet		
12							F								
14								Vc-Vr	9	91	0		Wet		
16															
18															
20									12	88	0		Wet		
22															
24									5	95	0		Wet		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

Bottom of Hole - 25

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Pronych | RIG B-50 | SURFACE DRAINAGE: | VEGETATION | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
553		4

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	Peat — 2"								
2					SM	SAND - SILTY FINE - MEDIUM	F	Vx	10	90	0		MOIST	
4					1				7	93	0		MOIST	
6					SP									
8									8	92	0		MOIST	
10									7	93	0		MOIST	
12														
14							F	Vx	10	90	0		WET	
16								No Visible Frost						
18														
20									10	90	0		WET	
22														
24									6	94	0		WET	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

Bottom of Hole - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED: 20/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH: Dronyck	RIG: B-50	SURFACE DRAINAGE:	VEGETATION: Spruce 6"	ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
553		5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) PLASTIC LIMIT — LIQUID LIMIT 20 40 60 80 100 100+	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
0					Pt	Peat — 2"										
2					SP	SAND - Fine To Medium	F	Vx	2		7	93	0		WET	
4									4		6	94	0		MOIST	
6									6							
8									8		4	96	0		MOIST	
10									10		5	95	0		WET	
12									12							
14							F	Vc-Vr	14		8	92	0		SAT.	
16									16							
18									18							
20						20'			20		4	96	0		WET	
22						Bottom of Hole - 20'			22							
24									24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PROKYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE-POPLAR 8" | ELEV

TEST HOLE: MILE 553 | B,C,S | NUMBER 6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT 2"										
2						SAND - FINE		Vx		10	90	0		MOIST		
4																
6										8	92	0		MOIST		
8					SP											
10							F			5	95	0		MOIST		
12																
14								Vs		7	93	0		WET		
16																
18								Vc-Vx								
20										5	95	0		WET		
22																
24										7	93	0		WET		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/3/76 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: SIDE HILL | VEGETATION | ELEV

TEST HOLE: MILE 563 | B,C,S | NUMBER 7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2'		
2					SM	SAND - SILTY FINE - MEDIUM	F	Vc-Vr
4								
6								
8								
10								
12								
14								
16								
18								
20						— 20'		
22						BOTTOM OF HOLE - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
15	85	0		MOIST		
11	89	0		MOIST		
12	88	0		SAT.		
13	87	0		SAT.		
16	84	0		SAT		
11	89	0		WET		

CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH FROWYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
554		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT 2'	F	Vx
2–6					SM	SAND - SILTY FINE		
6–18								
18–24						FREE WATER AFTER 18'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
5	13	87	0		MOIST	
8	31	69	0		MOIST	
11	22	78	0		MOIST	
15	15	85	0		MOIST	
20	18	82	0		SAT.	
24	11	89	0		SAT.	
30	14	86	0		SAT.	

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 21/3/75	AIRPHOTO NO:	CHAINAGE 150 OFF WINTER ROAD	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE

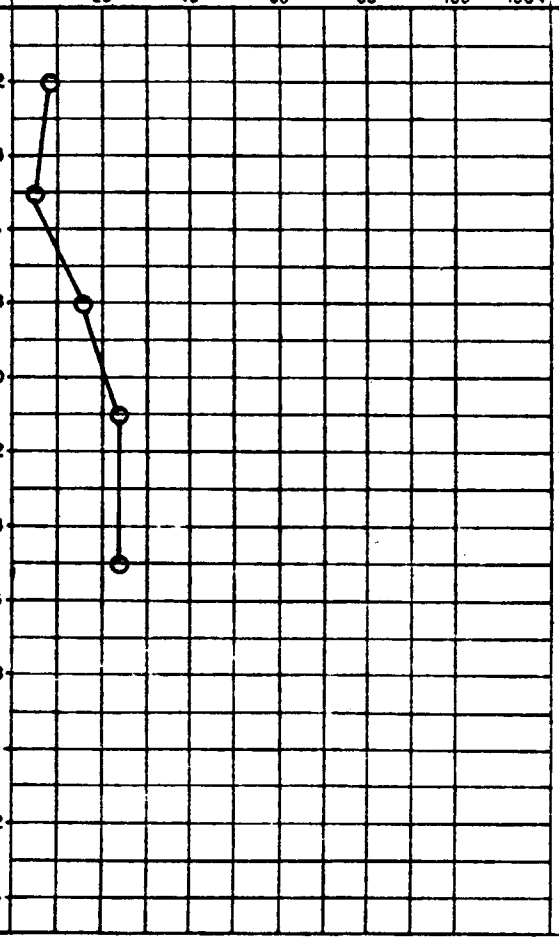
MILE	B,C,S	NUMBER
554		2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						SAND - SILTY FINE		
4					SM			
6							F	$V_c - V_r$
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT

20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					MOIST	
4					MOIST	
8					WET	
12					MOIST	
14					WET	

REMARKS

H.I.B.

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE Off Winter Road 30' | OFFSET

CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE Sloping to West | VEGETATION: | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
554		3

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 1'		
2						SAND - Silty		
4						Fine		
6					SM		F	
8								Vx
10								
12								
14						15'		
16						BOTTOM OF HOLE 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Damp	
6					Moist	
8					Moist	
12					Moist	
15					Moist	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 7/15/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE Top of Rise | VEGETATION | ELEV

TEST HOLE: MILE 564 | B,C,S | NUMBER 4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) PLASTIC LIMIT — LIQUID LIMIT 20 40 60 80 100 100+	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	Peat — .5'			0								
2						SAND - Silty			2						Moist		H.I.B.
4							F	Vx	4						Moist		
6					SM				6								
8									8						Moist		H.I.B.
10									10						Moist		
12									12								
14						15'			14						Moist		
16						Bottom of Hole - 15'			16								
18									18								
20									20								
22									22								
24									24								

RDH3

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 24/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH Reynolds	RIG: Dir	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
554		5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 6'		
2						SAND - Silty		
4								Not
6								Frozen
8					SM			
10								
12								
14						15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
				H.V.B.	
				H.V.B.	
				Moist	
				Moist	

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE SOUTH SIDE OF RAVINE | OFFSET

CKD | TECH K. REYNOLDS | RIG: D12 | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
555		1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					ML	SILT - CLAYEY ORGANIC		
4					OL	4'		
6						SAND - SILTY FINE		
8					SM		F	VC - VR
10								
12								
14						15'		
16						BOTTOM OF HOLE IS		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2	84	16	0		MOIST		
4	17	83	0		WET		H.I.B.
8	12	88	0		WET		
10	10	90	0		WET		H.I.B.
14	10	90	0		H.I.B.		

R073

North Bank of Creek

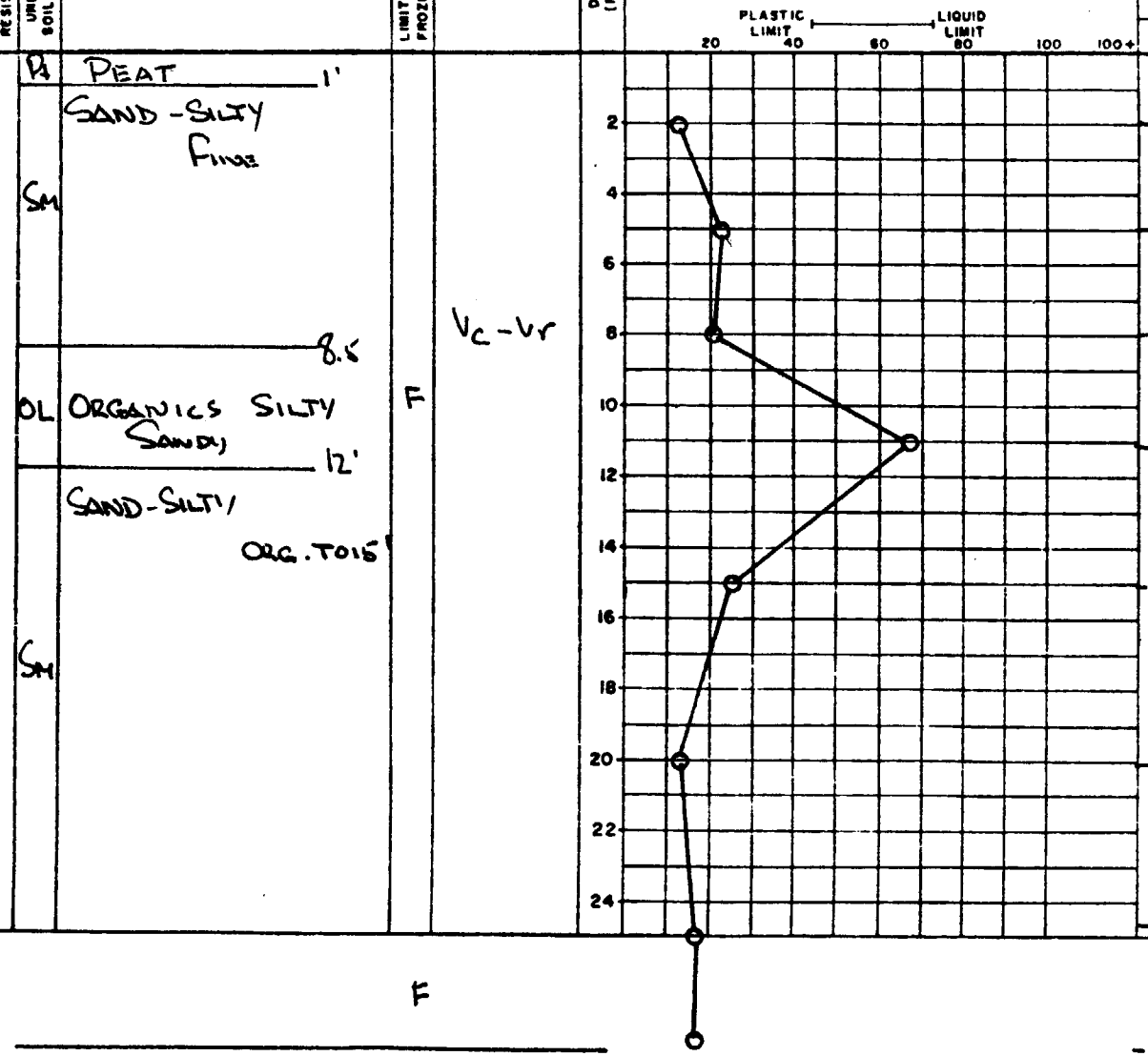
DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2J 3 75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: | VEGETATION | ELEV

TEST HOLE: MILE 555 | B,C,S | NUMBER 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					SM	SAND-SILTY Fine		
8						8.5		Vc-Vr
10					OL	ORGANICS SILTY SANDY	F	
12						12'		
14						SAND-SILTY ORG. TOIS'		
16					SM			
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
11	89	0		Moist		
16	84	0		Wet		H.I.B.
17	83	0		Wet		H.I.B.
61	39	0		Wet		H.I.B.
30	70	0		Wet		
13	87	0		Wet		
20	80	0		Wet		

F

-892-0 Wet

Bottom of Hole-30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 2/3/72	AIRPHOTO NO:	CHAINAGE 50 ORY Winter Road	OFFSET
CKD	TECH REYNOLDS	RIG BIG	SURFACE DRAINAGE: FLAT	VEGETATION:	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
555		3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT .5'		
4					Sc	SAND - SILTY - FINE CLAYEY	FI	Vc-Vr
6								
8						8'		
10					ML	SILT - SANDY CLAYEY		
12						11'		
14					SM	SAND - SILTY FINE		
16						15'		
18						BOTTOM OF HOLE - 15'		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
14	86	0		WET		
44	56	0		MOIST		H.I.B
68	32	0		H.I.B		
18	82	0		H.I.B		
10	90	0		H.I.B.		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE: On Winter Road | OFFSET

CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE — MILE 555 | B,C,S | NUMBER 3A

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					A-2	Fill		
2					SM	Sand - Silty Fine	F	$V_c - V_r$
4								
6								
8								
10								V_s
12					CL	Clay - Silty Sandy Med. Plastic		
14								$V_c - V_r$
16					SM	Sand - Silty Fine		
18								
20								
22								
24								
					CL	Clay - Silty Sandy	F	

Bottom of Hole. 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS					
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	7	93	0		Moist	
4	17	83	0		Wet	
8	34	66	0		Wet	
10	81	19	0		Sat	
14	13	87	0		Wet	
20	18	82	0		Wet	
24	15	85	0		Wet	
	83	17	0		Wet	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

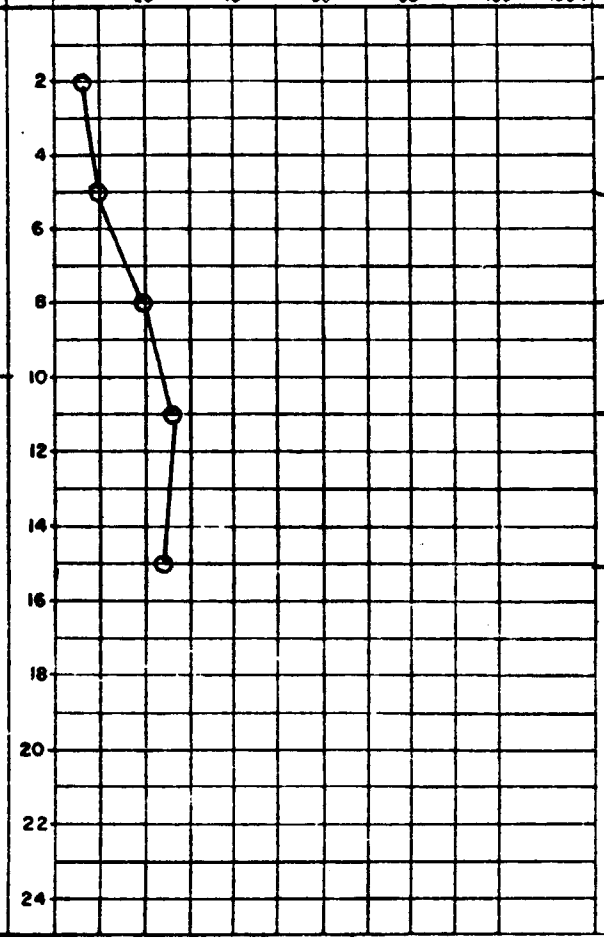
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE | VEGETATION | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
555		4

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					SP	SAND- Fine		Vx
4							F	To
6					SM	Silty		Vc-Vr
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
5	95	0		Moist	
8	92	0		Moist	
12	88	0		WET	
16	84	0		SAT.	
13	87	0		SAT	

R079

SOUTH BANK OF CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED: 2/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH: REYNOLDS	RIG: AIR	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
555		5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					SM	SAND-SILTY		
4					SC	CLAYEY		Vb
6					SM	SILTY - FINE		
8							F	
10								
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	20	80	0		MOIST	
5	41	59	0		SAT.	
8	15	85	0		WET	
11	17	83	0		WET	
15	31	69	0		SAT.	
20	8	92	0		WET	
24	9	91	0		GROUNDWATER	

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 2/11/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE: MILE 565 | B,C,S | NUMBER 6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					SM	SAND-SILTY Fine		
6								
8					SC	CLAYEY	F	
10					CL	SILTY		
12					SM			
14								
16								
18								
20								
22								
24								

F

BOTTOM OF HOLE - 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					MOIST		
6					WET		
8					CONSISTENCY		
10					CONSISTENCY		
14					SAT.		
20					SAT.		
24					WET		

WET

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Reynolds | RIG: Bor | SURFACE DRAINAGE Crest of Hill | VEGETATION: | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
556		1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 1'		
2						SAND - Silty Fine		
4								
6					SM		F	Vs
8								
10								
12								
14						15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4					SAT	
6						
8					SAT.	
10						
12					SAT.	
14						
16					SAT.	
18						
20						
22						
24						

REMARKS

R073

South Side of Small Creek

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 2-9-75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH Reynolds	RIG: Air	SURFACE DRAINAGE:	VEGETATION:	ELEV:

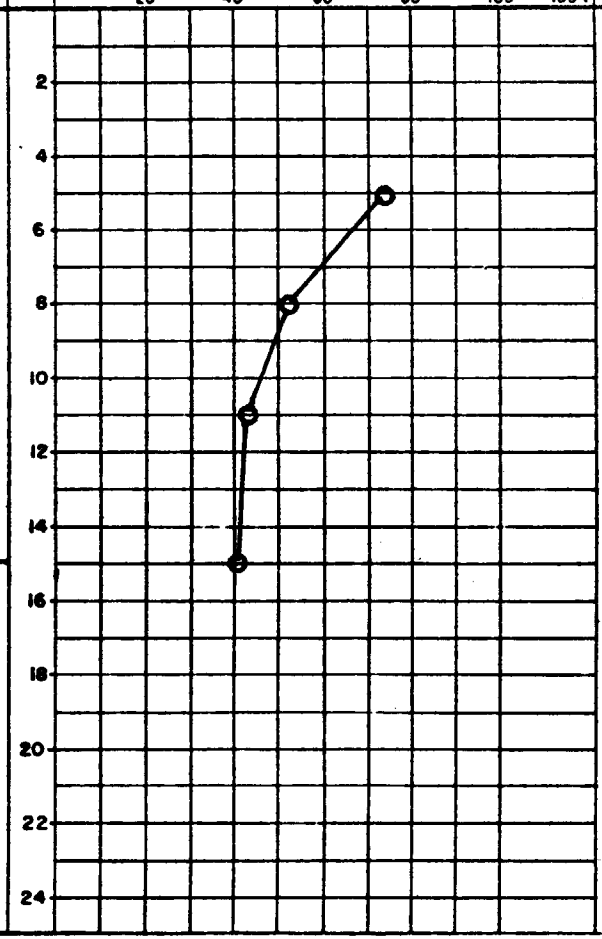
TEST HOLE

MILE	B,C,S	NUMBER
556		2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 1'		
2					CL	Organic Clay		
4								
6					OL		Ff	
8						8'		
10						Clay - Sandy Silty		Vs To Vf-Vr
12					CI	Low Plastic		
14						15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				Wet		
				Most		
				Most		
				Most		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 2/13/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV:

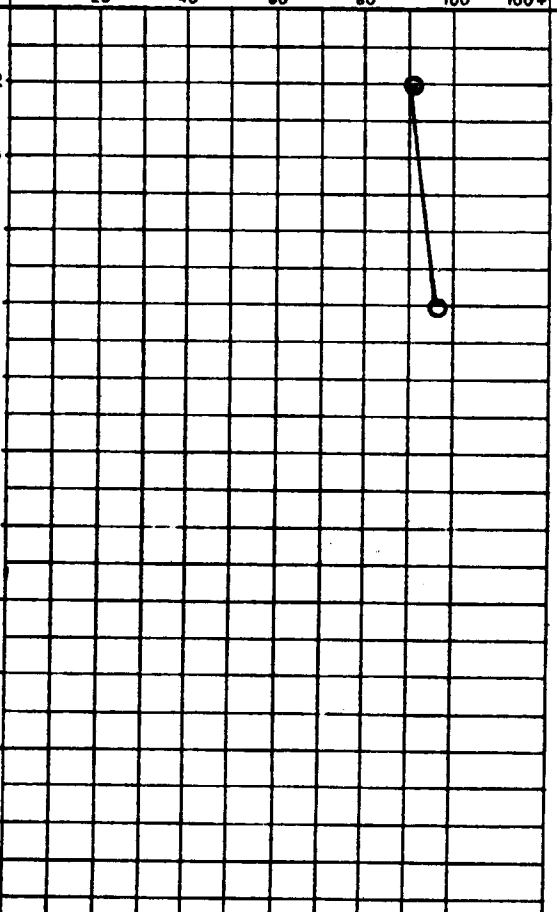
TEST HOLE

MILE	B,C,S	NUMBER
556		3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	PEAT 1'		
2					CL	CLAY - SILTY ORGANIC?		
4					CL			Vs
6					CL			
8							F	
10								
12								
14						15'		
16						BOTTOM OF HOLE -15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0						
2					WET	
4						
6						
8					WET	
10						
12						
14						
16						
18						
20						
22						
24						

REMARKS

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED 21/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION:	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
556		4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					Pt	PEAT 1'			2					MOIST		
4						CLAY - SANDY SILTY			4					FREE WATER		
6					CL	LOW - MED. PLASTIC		Vs	6							
8					CI		F		8					FREE WATER		
10									10							
12									12					SAT.		
14						14'			14							
16					SC	SAND - CLAYEY ORGANICS 15'			16					WET		
18						BOTTOM OF HOLE - 15'			18							
20									20							
22									22							
24									24							

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 21 Aug 75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE

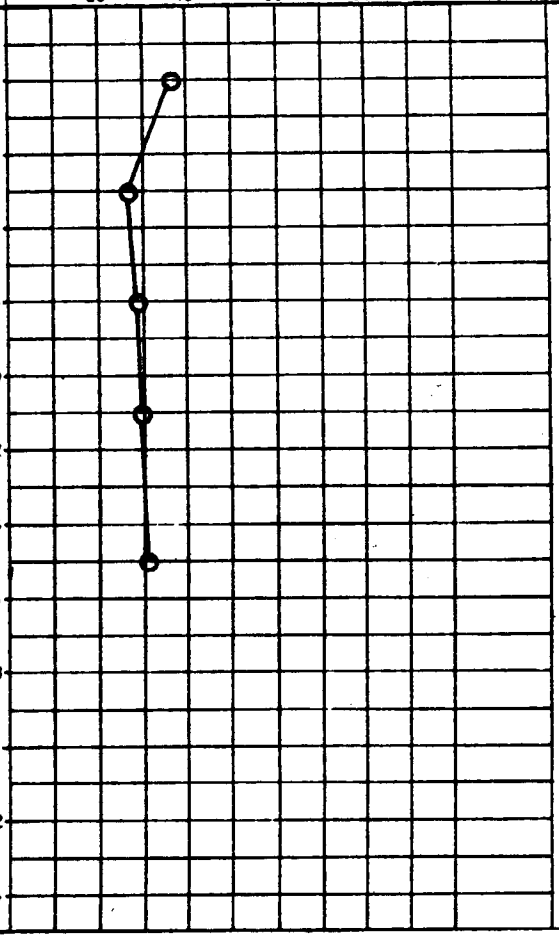
MILE	B,C,S	NUMBER
556		5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2						SAND - SILT		
4					ML	MIXTURE		
6						CLAYEY	F	Vs
8					SM			
10					SC			
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					WET	
2						
4					SAT.	
6						
8					SAT.	
10						
12					SAT.	
14						
16					SAT.	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED 2/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Raynards | RIG: A10 | SURFACE DRAINAGE: Sloping South | VEGETATION: | ELEV:

TEST HOLE: MILE 556 | B,C,S | NUMBER 6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2						SAND-Silty Frost		Not Frozen ?							
4					SM										
6															
8															
10															
12															
14															
16							F	Vc-Vr							
18					SM										
20															
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	7	87	0		Moist	
4	5	95	0		Moist	
6	6	94	0		Wet	
8	6	94	0		Wet	
10	9	91	0		Wet	
12	11	89	0		Wet	
14	10	90	0		Wet	

F

Bottom of Hole - 30'

-11-89-0 Wet

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE

CKD | TECH Reynolds | RIG A12 | SURFACE DRAINAGE: Top of Ridge | VEGETATION | ELEV | MILE 55½ | B,C,S | NUMBER 7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					O_L	Peat — 5'		Not Frozen ?							
2						SAND - SILTY Fine			15	85	0		Moist		
4									12	88	0		Wet		
6					SM		F	Vc - Vr							
8									11	89	0		Wet		
10									10	90	0		Wet		
12															
14						— 15'			12	88	0		Wet		
16						Bottom of Hole - 15'									
18															
20															
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 8/13/76 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH Reynolds | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
556		8

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SM	SAND - SILTY Fine		
4						SAND - SILT MIXTURE		
6							F	Vs
8					SM	SAND - SILTY Fine		
10								
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	18	82	0		SAT.		
6	57	43	0		SAT.		
8	9	91	0		SAT.		
12	8	92	0		WET		
16	8	92	0		WET		H1.13.

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 22/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
557		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
					Sm	SAND - SILTY FINE	F	Vs
						15'		
						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					FREE WATER	
4					SAT.	
6						
8					SAT.	
10						
12					SAT.	
14						
16					SAT.	
18						
20						
22						
24						

R073

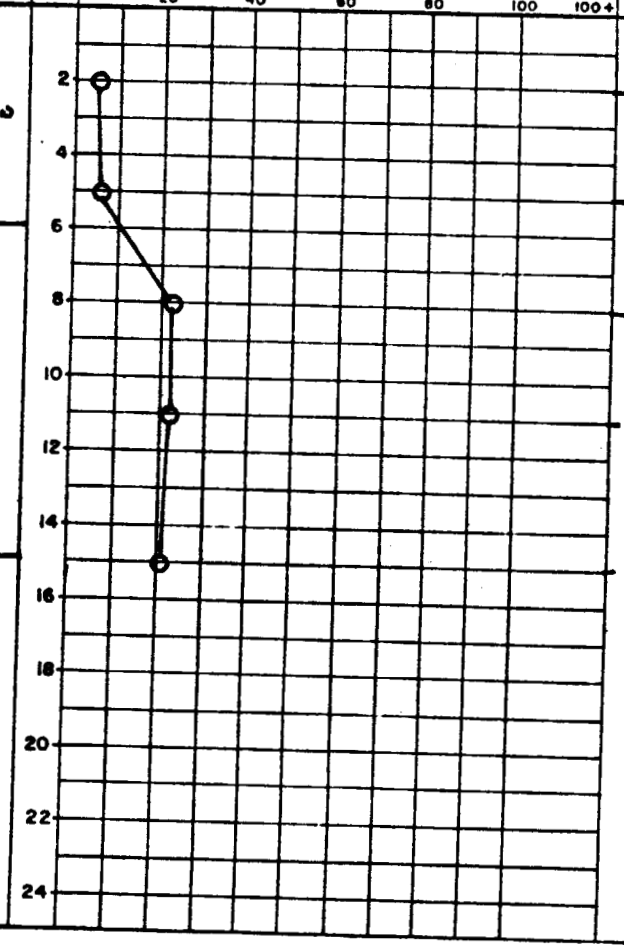
DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: Reynolds | RIG: AIR | SURFACE DRAINAGE: Sloping To South | VEGETATION: Spruce | ELEV:

TEST HOLE: MILE 557 | B,C,S | NUMBER 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — 1'		
2						Sand- Fine		Not Frozen ?
4								
6					SP			
8								
10							F	Vs
12								
14						15'		
16						Bottom of Hole. 15'		
18								
20								
22								
24								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
4	9	60			Moist		
6	9	90			Moist		
10	9	90			Sat.		
8	9	20			Sat.		
9	9	10			Sat.		

R073

ON LAKE ON Rt

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 2-7/3/15	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH Reynolds	RIG: D12	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
557		3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					CL			ICE
2					SM	SAND - Silty Fine	F	
4								
6						Bottom of Hole - 6'?		
8								
10								
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Saturated	
4					Sat.	
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						

REMARKS

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH REYNOLDS | RIG: A 12 | SURFACE DRAINAGE CREST OF RIDGE | VEGETATION: SPRUCE | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
557		4

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT — 1'								
2						SAND - SILTY FINE							MOIST	
4					SM								SAT.	
6														
8													SAT.	
10					SP		F	Vs					SAT.	
12														
14						— 15'							SAT.	
16						BOTTOM OF HOLE. 15'								
18														
20														
22														
24														

R072

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH Prowych | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION Spruce-Birch 6" | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
558		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — 1"		
2					SM	Sand. Silty Fine	F	Vc-Vr
4								
6								
8								
10								
12								
14						15'		
16						Bottom of Hole. 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	12	88	0		Moist	
4	7	93	0		Damp	
8	8	92	0		Wet	
12	20	80	0		Wet	
16	16	84	0		Wet	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/13/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Reynolds | RIG: A18 | SURFACE DRAINAGE: Top of Ridge | VEGETATION: | ELEV:

TEST HOLE: MILE 558 | B,C,S | NUMBER 2

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	Peat — 11'								
2						SAND. Fine		Not Frozen ?	6	94	0		Moist	
4									5	95	0		Moist	
6					SP				4	96	0		Moist	
8														
10							F	Vc-Vr	8	92	0		Wet	
12														
14						15'			8	92	0		Wet	
16						Bottom of Hole - 15'								
18														
20														
22														
24														

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 22/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH Reynolds	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
539		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						SAND - FINE SILTY		
4								
6					SM		F	
8								VS
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4					WET	
6						
8					SAT.	
10						
12					SAT.	
14						
16					SAT.	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/5/73 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: Flat | VEGETATION: | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
559		2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat .5'		
2					SM	Sand. Silty Fine		Not Frozen
4								
6					SP			?
8								
10							F	Vs
12								
14						15'		
16						Bottom of Hole. 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Moist	
4						
6					Wet	
8					Wet	
10						
12					Sat.	
14						
16					Sat	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED 22/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
559		3

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					SM	SAND - SILTY FINE		
4								
6								
8							F	Vx
10								To
12								
14						15'		Vy
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Moist	
4					Moist	
6						
8					Moist	
10						
12					WET	
14					SAT.	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: Reynolds | RIG: AIR | SURFACE DRAINAGE: CREST OF HILL | VEGETATION: | ELEV:

TEST HOLE: MILE 559 | B,C,S | NUMBER 4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT .5'									
2						SAND- FINE			7		93	0	SAT.		
4									4		96	0	MOIST		
6															
8					SP				5		95	0	MOIST		
10									8		92	0	WET		
12															
14									9		91	0	SAT.		
16							F	V_S							
18															
20									9		91	0	SAT.		
22															
24									8		92	0	SAT.		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Reynolds | RIG: D18 | SURFACE DRAINAGE: Slopping to North | VEGETATION: | ELEV:

TEST HOLE: MILE 552 | B,C,S | NUMBER 5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	Peat .5'									
2					SM	Sand- Silty Fine			10	90	0		Moist		
4													Moist		
6					SP	Fine									
8									6	94	0		Moist		
10									7	93	0		Moist		
12															
14							F		9	91	0		Wet		
16								Ice							
18					SP										
20									7	93	0		Sat.		
22															
24									8	92	0		Sat.		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

Bottom of Hole. 30'

- 8-92-0 Sat.

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 21/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: A12 | SURFACE DRAINAGE: SLOPING NORTH | VEGETATION: | ELEV:

TEST HOLE: MILE 559 | B,C,S | NUMBER 6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					SM	SAND - SILTY FINE	F	VS TO VC-VF
4								
6								
8								
10								
12								
14						15' BOTTOM OF HOLE - 15'		
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	23	77	0		SAT.		
6	13	87	0		WET		
8	11	89	0		WET		
12	9	91	0		WET		
16	11	89	0		WET		

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED 2/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION:	ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
559		7

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–3					Pt	PEAT		
3–15					SM	SAND - SILTY FINE	F	Vs
15						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
3'					SAT.	
					FREE WATER	
8'					SAT.	
11'					SAT.	
15'					SAT.	

R073

CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 24/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH: Pronych | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: Burn Area | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
560		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0							TI	
2					Pt	Peat Free H_2O after 18"		
4								
6								
						7'		
8					ML	Silt - Clayey No Return after 8' Free Water		
10								
12								
14								
						15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

528

632

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Wet	
4					Wet	
6						
8	46	39	0		Moist	
10						
12						
14						
16						
18						
20						
22						
24						

ROT3

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Pronych | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: Spruce + Poplar 6" | ELEV:

TEST HOLE: MILE 560 | B,C,S | NUMBER 2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	Peat 1"								
2					SM	SAND - SILT Fine	F	Vc-Vr					Moist	
4													Moist	
6														
8													Wet	
10														
12								Vs					Wet	
14						15'							Sat.	
16						Bottom of Hole - 15'								
18														
20														
22														
24														

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 22/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH RRONYCH	RIG: A12	SURFACE DRAINAGE:	VEGETATION SPRUCE & BRUSH 8"	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
560		3

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 1"		
2						SAND- SILTY Fines		
4								Vc-Vr
6					SM		F	
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE- 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Mois	
4					Mois	
6						
8					Mois	
10					Wet	
12						
14					Wet	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
567		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					A	PEAT 1'		NOT FROZEN
2						SAND - SILTY FINE		?
4					SM			
6							F	VS
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE : 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					MOIST	
4					SAT.	
6						
8					SAT.	
10					SAT.	
12						
14					SAT.	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE

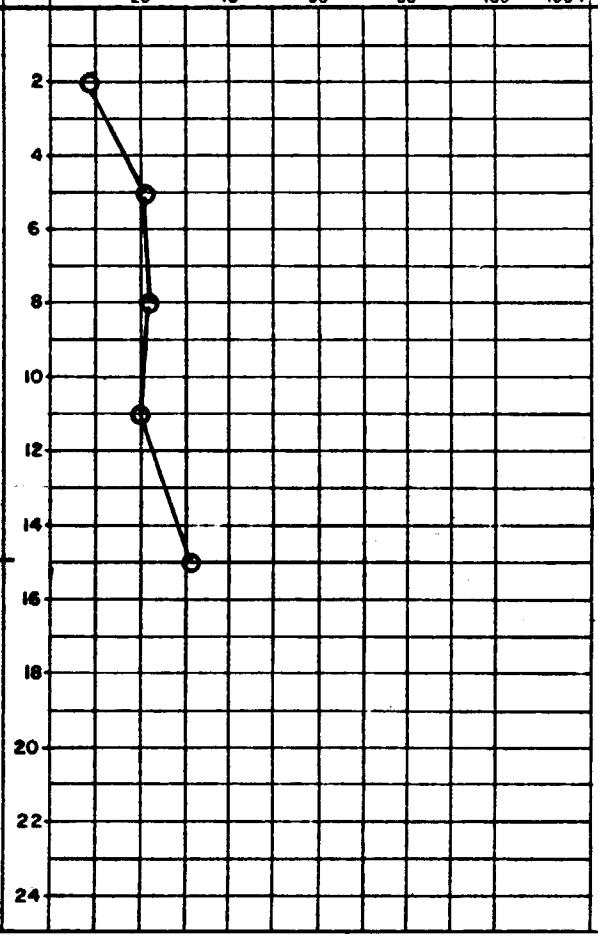
MILE	B,C,S	NUMBER
567		2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SM	SAND - SILTY FINE	F	Vc-Vr
4								
6								TO
8								
10								
12								Vs
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0						
2					MOIST	
4					WET	
6						
8					WET	
10						
12					WET	
14					SAT.	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/76 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH REYNOLDS | RIG: AUR | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE: MILE 567 | B,C,S | NUMBER 3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat 1'		
2					SM	SAND - SILTY Fine		Vc-Vr
4								
6								
8								
10					ML	SILT - SANDY	F	To
12								Vs
14					SM	SAND - SILTY Fine		
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	26	74	0		WET	
4	35	65	0		WET	
8	31	69	0		SAT	
10	59	41	0		WET	
14	10	90	0		WET	
20	20	80	0		WET	
24	20	80	0		WET	

REMARKS

F

Bottom of Hole. 30'

-12- 88-0 SAT.

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24 10 75 | AIRPHOTO NO: | CHAINAGE: Wrigley Road | OFFSET

CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE — MILE: 567 | B,C,S: | NUMBER: 4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — 1'		
2					SM	Sand - Silty Fines		
4								
6							F	
8								
10					ML	Silt - Sandy		
12					SM	Sand - Silty		
14						— 15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	26	74	0		Moist		
4	30	70	0		Moist		
8	31	69	0		Moist		
10	59	41	0		Wet		
14	9	91	0		Wet		

R073

SOUTH ABUTMENT CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 84 3 16 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE

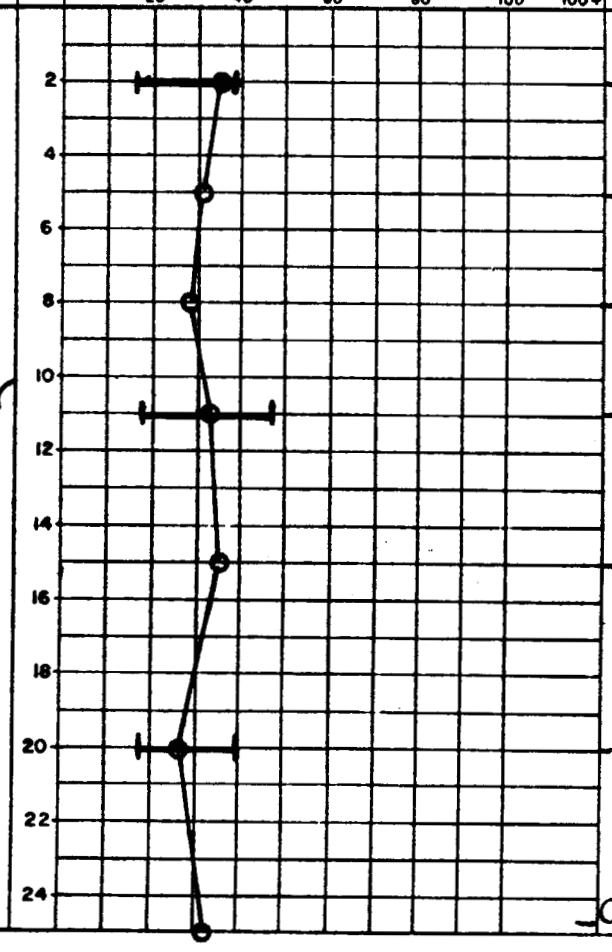
MILE	B,C,S	NUMBER
568		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2						CLAY - SILTY		
4						MED. PLASTIC		
6					CL			
8							F	
10								$V_L - V_S$
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	89	11	0		WET	
6	95	5	0		WET	
8	99	1	0		WET	
10	99	1	0		WET	
14	98	2	0		WET	
20	88	12	0		WET	
24	96	4	0		WET	

R073

OVER

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH	RIG:	SURFACE DRAINAGE:	VEGETATION:	ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
568		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0						CLAY - SILTY			94	6	0		WET	
4					CI	MED. PLASTIC	F	VC-VF	100	0	0		MOIST	
10						40'			94	0	0		MOIST	
						BOTTOM OF HOLE - 40'								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

NORTH ABUTMENT CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 22/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH PROSYCH	RIG: B-50	SURFACE DRAINAGE:	VEGETATION:	ELEV:

TEST HOLE

MILE	B,C,S	NUMBER
568		2

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						CLAY - SILTY		VC - VF
4					CL	MED. PLASTIC		
6								TO
8								
10						SANDY	F	
12								VS
14						SILTY		
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	98	2	0		MOIST	
4	99	1	0		MOIST	
8	98	2	0		WET	
10	84	16	0		SAT.	
14	100	0	0		SAT.	
20	99	1	0		MOIST	
24	100	0	0		WET	

RD73

OVER

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH	RIG	SURFACE DRAINAGE:	VEGETATION:	ELEV:

TEST HOLE

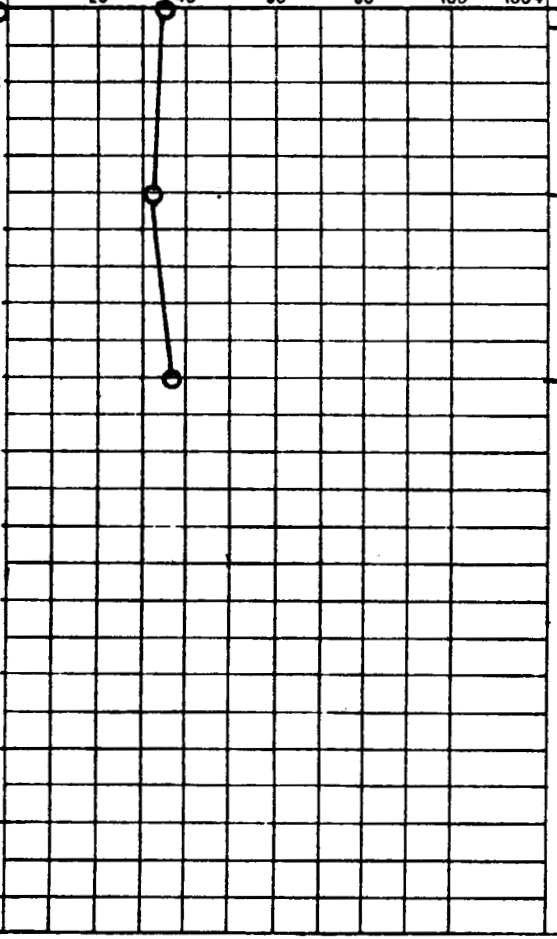
MILE	B,C,S	NUMBER

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0						CLAY - SILTY								
2						MED. PLASTIC								
4					CI		F	Vs	-99-	1	0		WET	
6									-98-	2	0		SAT.	
8														
10						40'			-99-	1	0			
						BOTTOM OF HOLE - 40'								
12														
14														
16														
18														
20														
22														
24														

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



R073

WEST SIDE OF CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/8/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE

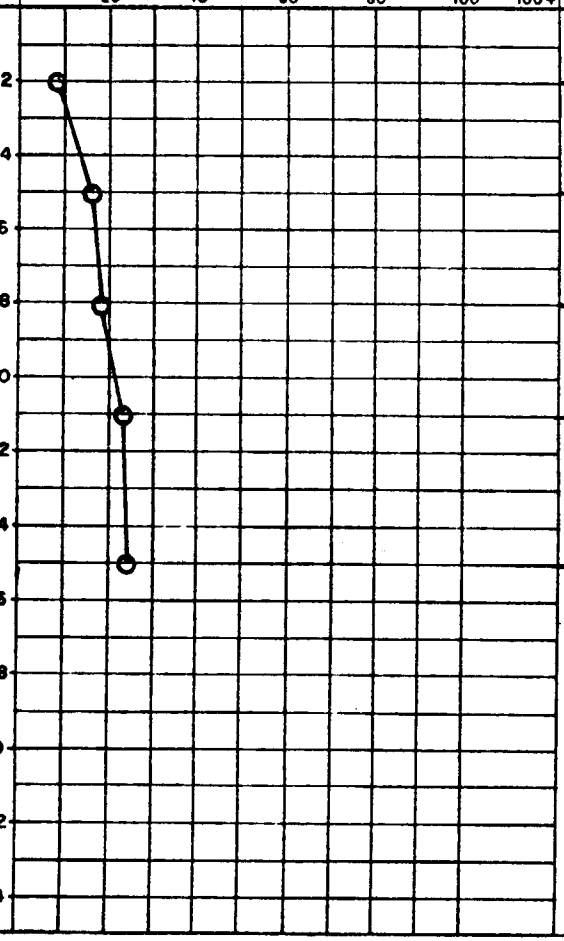
MILE	B,C,S	NUMBER
568		3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					SM	SAND - SILTY FINE		
4					ML	SILT - SANDY		
6							F	$V_c - V_r$
8								
10					SM	SAND - SILTY FINE		
12								
14					ML	SILT - SANDY 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

DEPTH (FEET)

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
10	90	0		MOIST		
60	40	0		MOIST		H.I.B.
62	38	0		WET		
40	60	0		WET		
71	29	0		MOIST		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 22/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: Reynolds | RIG: A-12 | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE: MILE 568 | B,C,S | NUMBER 4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — 1'		
2					ML	Silt - Sandy — 3'		Vs
4					ML	Clayey Sandy Silt		
6					SC	Sand - Silty Clayey		
8						— 8'		
10					CL	Clay, Silty, Med. Plastic	F	/
12								Vk
14					CL			
16								
18								
20						Sandy		
22								
24						Silty		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	76	24	0				H.I.B.
4	36	64	0				Free Water
8	86	14	0		Moist		H.I.B.
10	99	1	0		Damp		
14	95	5	0		Moist		H.I.B.
20	74	26	0		Wet		
24	95	5	0		Moist		

R073

Bottom of Hole - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

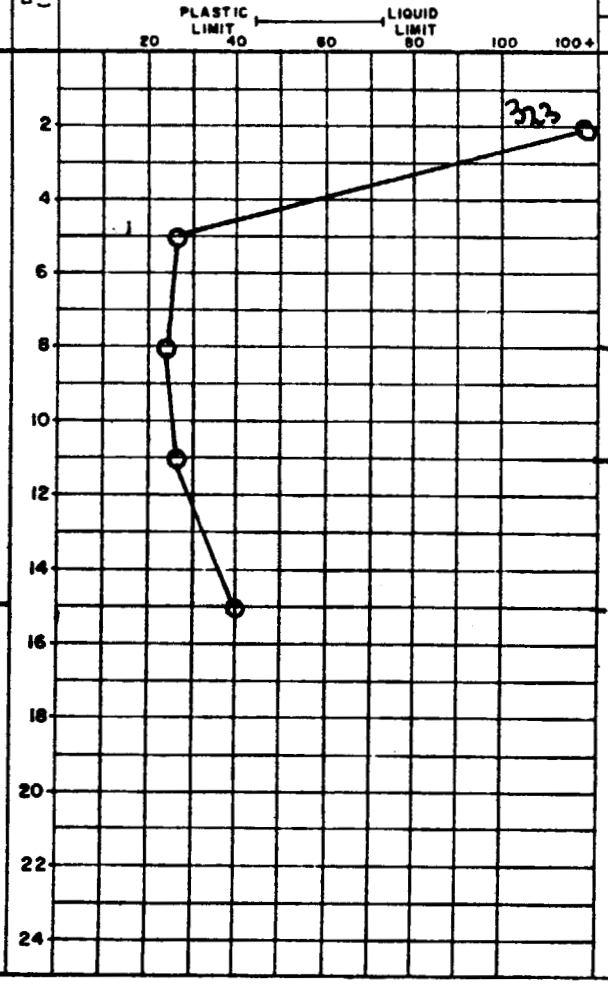
DWN: | FIELD ENG: | DATE DRILLED: 24/5/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD: | TECH: REX TO OLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE: MILE 568 | B,C,S | NUMBER 5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2								Vs
4						SANDY SILTY		&
6						6		
8					SM	SAND-SILTY	F	
10					ML	SAND-SILT MIX. CLAYEY 11'		Vc-Vr
12					CL	CLAY-SILTY SANDY		
14					CL	LOW-MED. PLASTIC 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
6					SAT.	
8					WET	
8	1	9	8	0	WET	
10						
11	60	40	0		SAT.	
12						
14						
15	88	12	0		WET	

REMARKS

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV

TEST HOLE

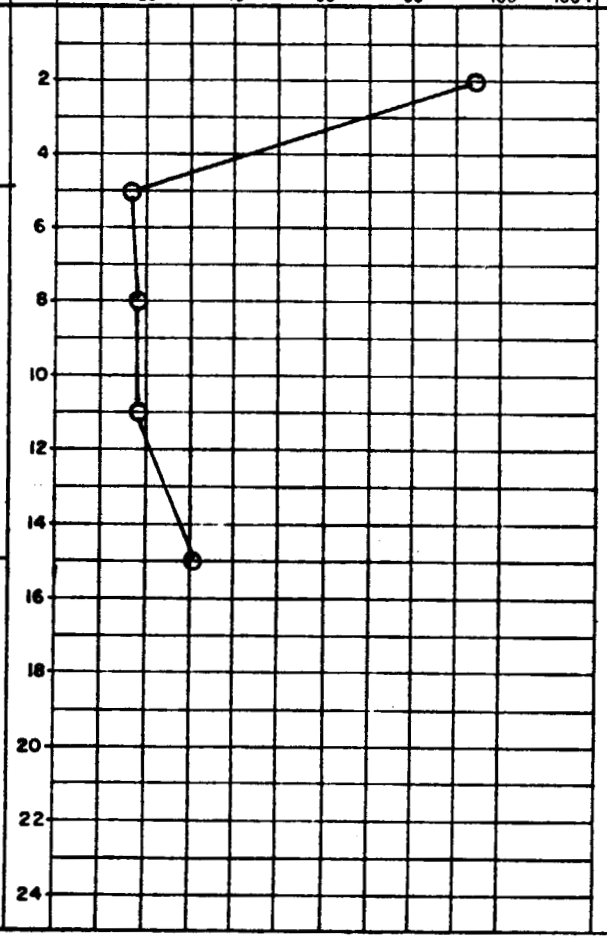
MILE	B,C,S	NUMBER
568		6

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	Peat — 2'		Us
4					CL	CLAY - SILTY Low Plastic — 4'		
6					SM	SAND - SILTY Fine	F	Vc - Vr
8								
10						— 11'		
12					CL	CLAY - SILTY SANDY Low-Med. Plasticity		
14					CI	— 15'		
16						Bottom of Hole 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				Frozen	
				Wet	
				Wet	
				Wet	
				Wet	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 23/3/75	AIRPHOTO NO.	CHAINAGE	OFFSET
CKD	TECH PRONYCH	RIG B-50	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
368		7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) PLASTIC LIMIT — LIQUID LIMIT 20 40 60 80 100 100+	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2						SAND - SILTY Fine			2								
4								Vc - Vf	4						WET		
6					SM			TO	6								
8							F		8						WET		
10									10								
12								Vs	12						MOIST		H.I.B.
14						15'			14								
16						BOTTOM OF HOLE 15			16						FREE WATER		
18									18								
20									20								
22									22								
24									24								

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 24/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE: FLAT	VEGETATION: SPRUCE	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
569		1

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) PLASTIC LIMIT — LIQUID LIMIT 20 40 60 80 100 100+	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					Pt	PEAT			2						SAT.		
4					Sc	SAND - SILTY CLAYEY			4						GROUNDWATER		
6									6								
8							F	Vs	8						GROUNDWATER		
10					ML	SILT - CLAYEY			10								
12					CL	CLAY - SILTY			12						SAT.		
14									14								
16						BOTTOM OF HOLE. 15'			16						WET		
18									18								
20									20								
22									22								
24									24								

15' 9'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 5" | ELEV

TEST HOLE: MILE 569 | B,C,S | NUMBER 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					ML	SAND SILT MIXTURE		Vs
4					SM	SAND-SILTY FINE		
6							F	
8						8'		Vc-Vr
10					CL	CLAY-SILTY LOW PLASTIC		
12								
14						13'		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					WET		
4							
6					SAT		
8					WET		
10							
12					MOIST		
14							
16					MOIST		
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED Aug 13/75 | AIRPHOTO NO: | CHAINAGE: Seismic Line | OFFSET

CKD | TECH Reynolds | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV

TEST HOLE: MILE 569 | B,C,S | NUMBER 3

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SM	SAND - SILTY FINE		
4								
6								
8							F	$V_c - V_r$
10						— 11'		
12					CL	CLAY - SILTY SANDY		
14					CI	LOW. MED. PLASTIC — 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT → LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					Moist		
4							
6					Wet		
8					Silt		
10							
12					Wet		
14							
16					Wet		
18							
20							
22							
24							

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 23/6/75 | AIRPHOTO NO: | CHAINAGE: SEISMIC LINE | OFFSET
CKD | TECH Reynolds | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
569		5

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SM	SAND - SILTY FINE		V_S
4								TO
6								
8						— 8'	F	$V_C - V_r$
10					CL	CLAY - SILTY SANDY LOW - MED PLASTIC		
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2					MOIST	
4					SAT.	
6						
8					WET	
10					MOIST	
12						
14					MOIST	
16						
18						
20						
22						
24						

R075

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 2/3/15 | AIRPHOTO NO: | CHAINAGE: Seismic Lines | OFFSET:
CKD: | TECH: Reynolds | RIG: Air | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV:

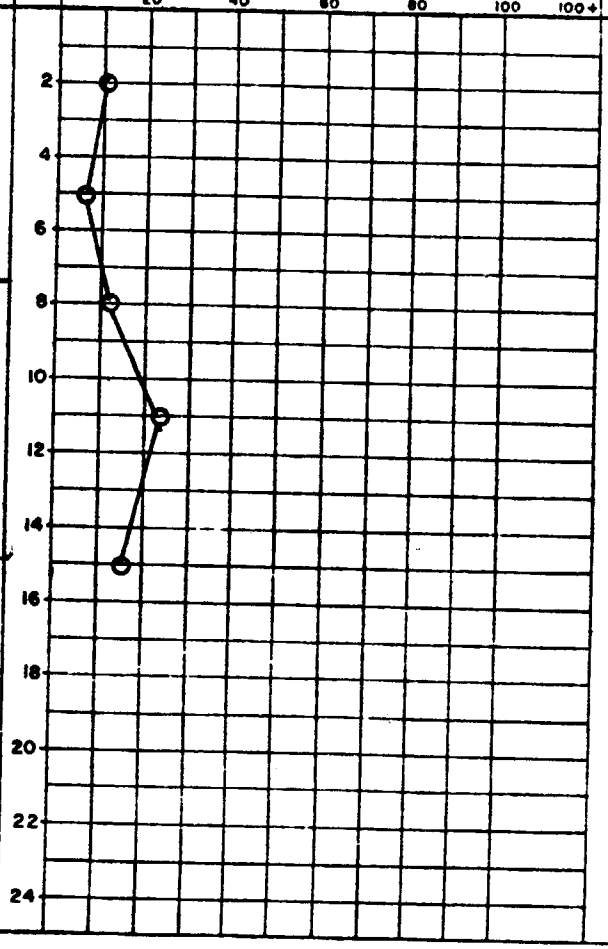
TEST HOLE: MILE 569 | B,C,S | NUMBER 6

REMARKS:

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SM	SAND - SILTY FINE		
4								
6								
8						— 9'		
10					CL	CLAY - SILTY SANDY	F	Vc-Vr
12					CI	LOW - MED. PLASTIC		
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Moist	
6					Moist	
8					Moist	
12					Wet	
16					Wet	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 23/3/75	AIRPHOTO NO:	CHAINAGE: Seismic Line	OFFSET
CKD	TECH REYNOLDS	RIG: Air	SURFACE DRAINAGE: FLAT	VEGETATION: S	ELEV

TEST HOLE

MILE	B,C,S	NUMBER
569		7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT — 1'										
2					SM	SAND-SILTY FINE								Moist		
4														Moist		
6							F	Vx								
8														Moist		
10																
12														Moist		
14						— 15'										
16						BOTTOM OF HOLE - 15'								Moist		
18																
20																
22																
24																

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & BIRCH 6" | ELEV

TEST HOLE

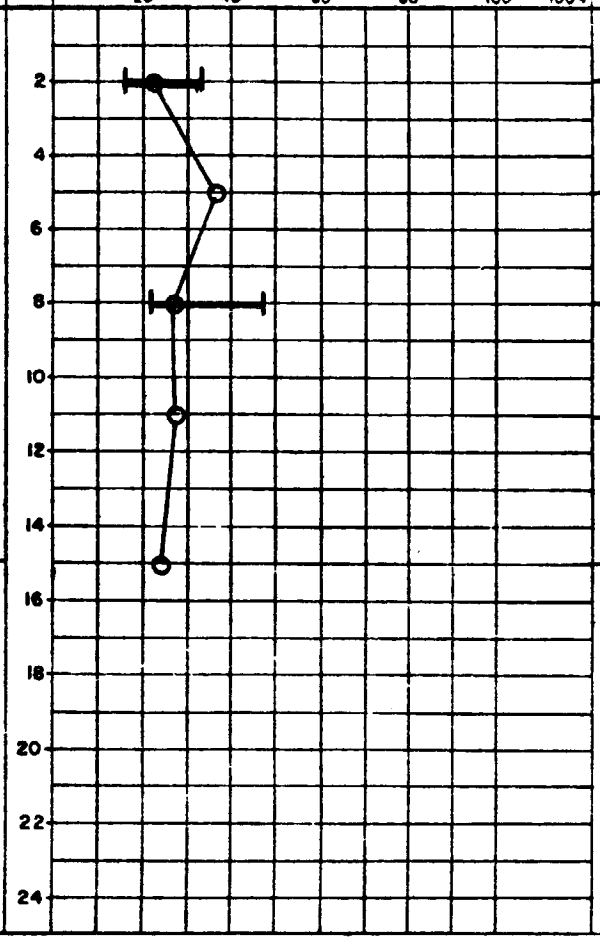
MILE	B,C,S	NUMBER
519		1

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		
2–24					CL	CLAY - SILTY SANDY SILTY MED. PLASTIC	F	$V_C - V_f$
						15' BOTTOM OF HOLE 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2	78	22	0		MOIST	
6	99	1	0		WET	
8	99	1	0		MOIST	
12	98	2	0		MOIST	
14	100	0	0		MOIST	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH PRONYCH | RIG AIR | SURFACE DRAINAGE: | VEGETATION SPRUCE + BIRCH 10" | ELEV

TEST HOLE: MILE 579 | B,C,S | NUMBER 2

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					PT	PEAT — 2"								
2					CL	CLAY - SILTY SANDY LOW PLASTIC	F	V_5	94	6	0		DAMP	
4									73	27	0		SAT.	
6														
8									61	39	0		SAT.	
10					ML	SILT - SANDY CLAYEY — 10'			70	30	0		MOIST	
12														
14					CL	CLAY SILTY LOW PLASTIC — 15'			98	2	0		MOIST	
16						BOTTOM OF HOLE - 15'								
18														
20														
22														
24														

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE + BIRCH 6" | ELEV

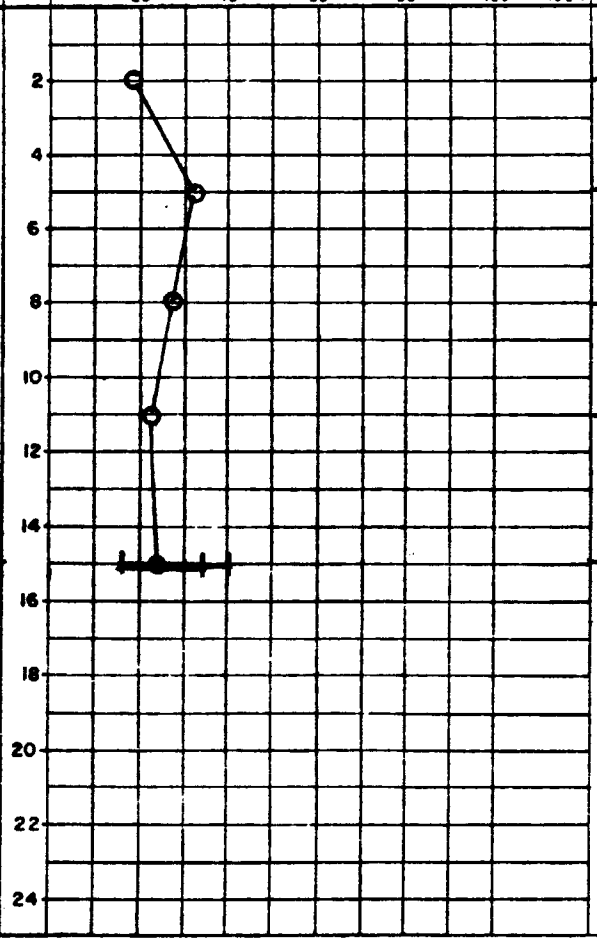
TEST HOLE: MILE 579 | B,C,S | NUMBER 3

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					PT	PEAT — 2"								
2						CLAY - SILTY SANDY			66	34	0		MOIST	
4						SILTY			99	1	0		WET	
6														
8					CI	MED. PLASTIC	F	V_X TO $V_C - V_Y$	99	1	0		MOIST	
10														
12									100	0	0		MOIST	
14						15'								
16						BOTTOM OF HOLE 15'			100	0	0		MOIST	
18														
20														
22														
24														

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT



R073

4 MILE CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PROVOST | RIG B-60 | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH 5" | ELEV

TEST HOLE: MILE 579 | B,C,S | NUMBER 4

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 2"		
2					CL	CLAY - SILTY LOW PLASTIC 3'		
4					ML	SILT - SANDY GRAVELLY	F	Vc-Vs
6								
8						9'		To
10					CL	CLAY - SILTY SANDY		
12						LOW - MED. PLASTIC		
14								
16					CI			
18								
20						20'		Vs
22					ML	SILT - SANDY		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	100	0	0		MOIST		
4	48	33	19		MOIST		
8	62	24	14		MOIST		
10	95	5	0		MOIST		
16	84	16	0		WET		
20	76	24	0		SAT.		
24	82	18	0		SAT.		

CI CLAY - SILTY F
MED. PLASTIC
BOTTOM OF HOLE - 30

94 6 0 SAT.

4 MILE CREEK

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH Pronych | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: Spruce & Birch 6" | ELEV

TEST HOLE: MILE 579 | B,C,S | NUMBER 5

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 4"		
2–10					CL	CLAY - SILTY SANDY SILTY MED. PLASTIC	F	Vc-Vr
10–13					SM	SAND - SILTY FINE		To
13–30					CL	CLAY - SILTY MED. PLASTIC		Vs

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2	87	13	0		MOIST		
6	95	5	0		WET		
8	97	3	0		WET		
12	39	61	0		W.B.		
16	100	0	0		MOIST		
20	100	0	0		SAT.		
24	99	1	0		WET		

F

BOTTOM OF HOLE - 30'

-100-0-0- WET

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 25/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET

CKD | TECH PROVOST | RIG: T-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE-BIRCH-POPLAR | ELEV

TEST HOLE: MILE 579 | B,C,S | NUMBER 6

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT 14		
2					SM	SAND SILTY FINE	F	VC-VT
4								TO
6								
8								VS
10								
12								
14						15'		
16						BOTTOM OF HOLE 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2	29	71	0				DAMP
6	37	63	0				MOIST
8	39	61	0				WET
14	37	63	0				SAT.

ROTH

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 25/3/15 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE

MILE	B,C,S	NUMBER
579		7

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						SILT + SAND. 3'		
4					ML	SILT-SANDY		
6						SILT-SAND	F	VS
8						MIXTURE		
10					SM			
12								
14						15'		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2	67	33	0		WET		H.I.B
6	64	36	0		WET		H.I.B
8	50	47	3		SAT.		H.I.B
12	46	54	0		WET		H.I.B
16	46	54	0		WET		H.I.B

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 12/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE-WILLOW | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		104

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 5'		
2					ML	SILT - CLAYEY		
4								
6						6'	F	
8						CLAY - SILTY SANDY PEBBLES		VX
10								
12								
14					Cl	SILTY		
16						MED. PLASTIC		
18								
20							F	
22								
24								Vc-Vr Vs

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	96	4	0		H.I.B.	
4					H.I.B	
8	80	15	5		H.I.B	
10					DAMP	
14	100	0	0		DAMP	
20					WET	
24	99	1	0		WET	

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 14/3/66 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE - BURNT | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		104

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .6'		
2						CLAY - SILTY SANDY PEBBLES	F	V_S
4								
6					Cl	MED. PLASTIC SILTY	F	
8								
10								V_S-W
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT.	
4	87	11	2		DAMP	
6						
8					DAMP	
10	97	3	0		DAMP	
12						
14					DAMP	
16						
18						
20						
22						
24						

GRAIN-SIZE ANALYSIS

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 12/8/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE - BURNT | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		104

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2						CLAY-SILTY		V_S
4						MED. PLASTIC		
6								
8					Cl			
10								
12								
14							F	$V_C - V_Y$
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	99	1	0		MOIST	
4					SAT.	
8	93	6	1		MOIST	
12					MOIST	
14	99	1	0		DAMP	
20					DAMP	
24	100	0	0		MOIST	

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 12/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE - BURNT | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		104

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .6'		
2					CL	CLAY - SILTY MED - HIGH PLASTIC	F	Vx-W
4								
6								
8					CH			
10								
12								
14					ML	SILT - CLAYEY 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						Moist
4						
6	99	1	0			Moist
8						Moist
10						
12	99	1	0			Moist
14						
16						DAMP
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 12/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE - BURNT | ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		104

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						CLAY - SILTY		
4								
6						MED. PLASTIC		
8								
10					Cl		F	Vc - Vx
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2	99	1	0		Moist	
4					Moist	
8	99	1	0		Wet	
10					Moist	
14	98	2	0		Moist	
20					Damp	
24	98	2	0		Moist	

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 12/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION: SPRUCE 2"	ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		109

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY		
4						MED. PLASTIC		
6							F	Vc-vr
8					Cl			
10								
12								
14						15'		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4						
6	99	1	0		WET	
8					H.V.13	
10						
12	99	1	0		MOIST	
14						
16					DAMP	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 4/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: BURN AREA | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		105

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT 2'		
2–10					CL	CLAY - SILTY MED. PLASTIC	F	Vc–Vf
10–12					CL			
12–24								?

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	94	6	0		MOIST	
4					MOIST	
8	100	0	0		DAMP	
12					DAMP	
16	100	0	0		DAMP	
20					DAMP	
24	99	1	0		DAMP	

BOTTOM OF HOLE - 25'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9-3-75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION BURN AREA | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		105

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		Vs
2						CLAY-SILTY		
4						MED. PLASTIC		
6					Cl		F	V_C-Vr
8								
10								
12								?
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2							SAT.
4	99	1	0				DAMP
6							
8							Moist
10	98	2	0				Moist
12							
14							Moist
16							
18							
20	99	1	1				DAMP
22							
24							DAMP

BOTTOM OF HOLE - 30'

-100-0-0 DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 12/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH Reynolds	RIG: AIR	SURFACE DRAINAGE: Flat	VEGETATION: Spruce	ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		105

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–15					CL	CLAY - SILTY MED. PLASTIC Bottom of Hole - 15'	F	Vc - Vr

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
9'	71	3	0		Moist	
10'	96	4	0		Damp	
12'					Moist	
15'					Moist	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 12/3/74 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD: | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: BURN AREA SPRUCE | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		105

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT 2'	F	Vx
2–6					CL	CLAY - SILTY		
6–12					CI	MED. - HIGH PLASTIC		
12–24					CH			

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	96	4	0		MOIST	
4					HUMID	
6						
8	99	1	0		DAMP	
10					DAMP	
12						
14	98	2	0		DAMP	
16						
18						
20					DAMP	
22						
24	95	5	0		DAMP	

R073

BOTTOM OF HOLE - 30'

-18 DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED P1/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION BURN AREA | ELEV:

TEST HOLE 5

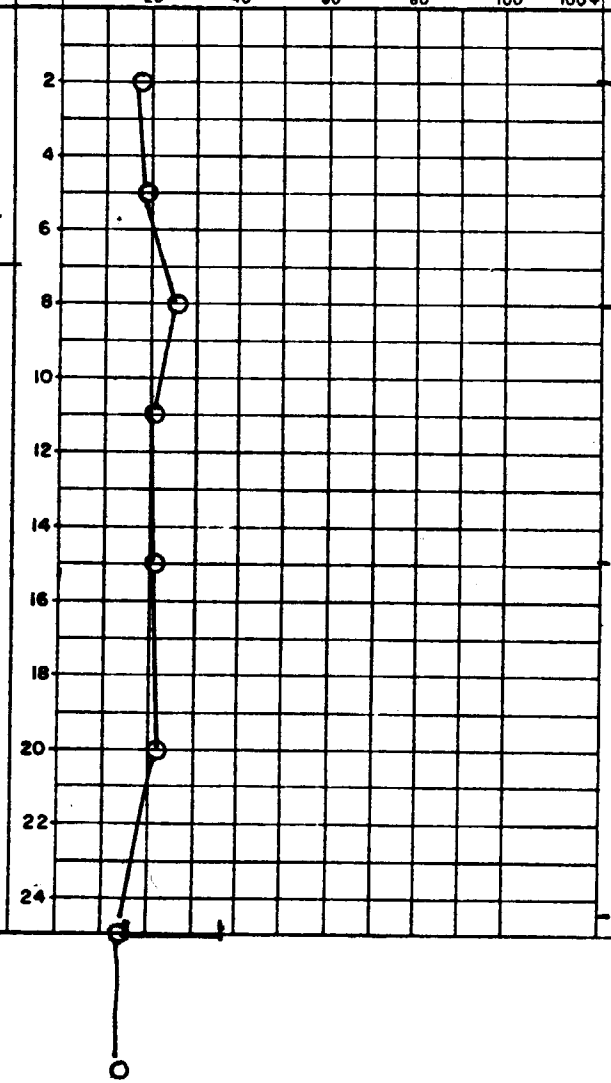
MILE	B,C,S	NUMBER
B.P		105

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–8					CL	CLAY - SILTY SANDY GRAVELLY LOW PLASTIC	F	Vc - Vr
8–10					CL	SILTY MED. PLASTIC		
10–24					CL	SANDY PEBBLES MED. PLASTIC		

BOTTOM OF HOLE -30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	48	37	15		MOIST	
4					WET	
8	96	4	0		MOIST	
10					MOIST	
14	97	3	0		DAMP	
18						
20					DAMP	
22						
24	78	20	2		HUMID	

HUMID

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 12" | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		106

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						CLAY - SILTY		Vc-Vr
4					CL	LOW - MED. PLASTIC		
6								
8								
10							F	
12					CI			
14								Vx
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS					
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	99	1	0		Moist	
4					Moist	
8	99	1	0		Moist	
10					DAMP	
14	99	1	0		DAMP	
18					DAMP	
24	100	0	0		DAMP	

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 12" | ELEV:

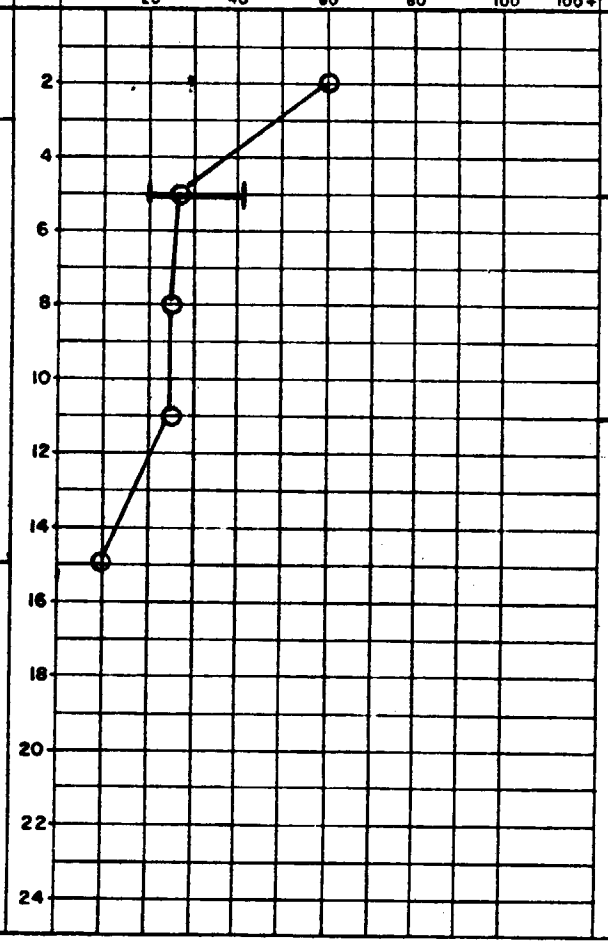
TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		106

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						CLAY-SILTY	F	Vs
4						MED. PLASTIC		
6					CI		F	Vc-Vr
8								
10								
12						13'		Vx
14					ML	SILT-SANDY CLAYEY		
16						15'		
18						BOTTOM OF HOLE - 15'		
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0							
2							FREE WATER
4							
6	99	1	0		MOIST		
8					MOIST		
10							
12	99	1	0		DAMP		
14							
16					DAMP		
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 13/8/74 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 12" | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		106

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						CLAY - SILTY		
4						MED. PLASTIC		Vc-Vr
6					Cl		F	
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	99	1	0		WET	
8	99	1	0		Moist	
10					Moist	
14	99	1	0		Moist	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 13/8/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 12" | ELEV:

TEST HOLE 4

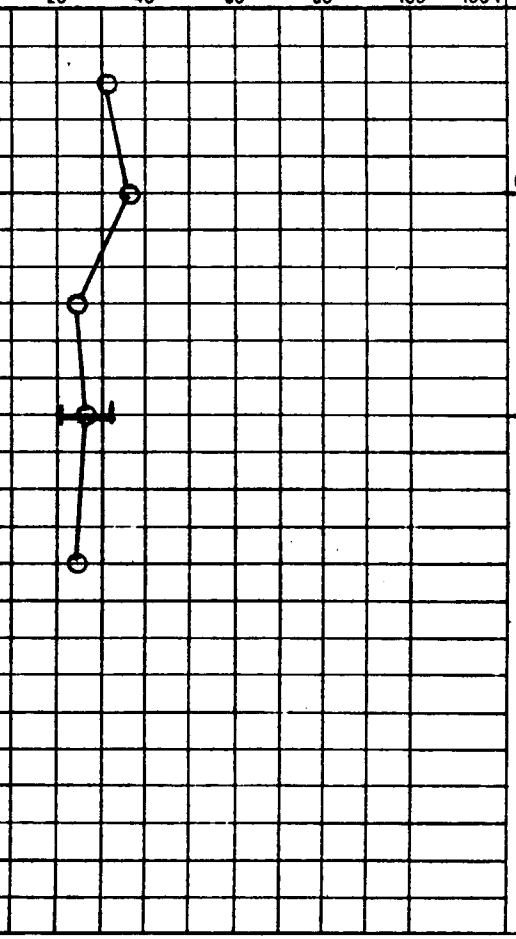
MILE	B,C,S	NUMBER
B.P.		106

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5		
2						CLAY - SILTY		Vs
4						MED. PLASTIC		
6								
8					Cl		F	
10								Vx
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					WET	
2					WET	
4	99	1	0			
6					DAMP	
8						
10					DAMP	
12	98	2	0			
14					DAMP	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: POPLAR + SPRUCE 12" | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		106

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY		
4						MED. PLASTIC		
6					Cl		F	$V_c - V_x$
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
99	1	0		DAMP		
				WET		
98	2	0		MOIST		
				MOIST		
98	2	0		DAMP		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 15/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 12" | ELEV:

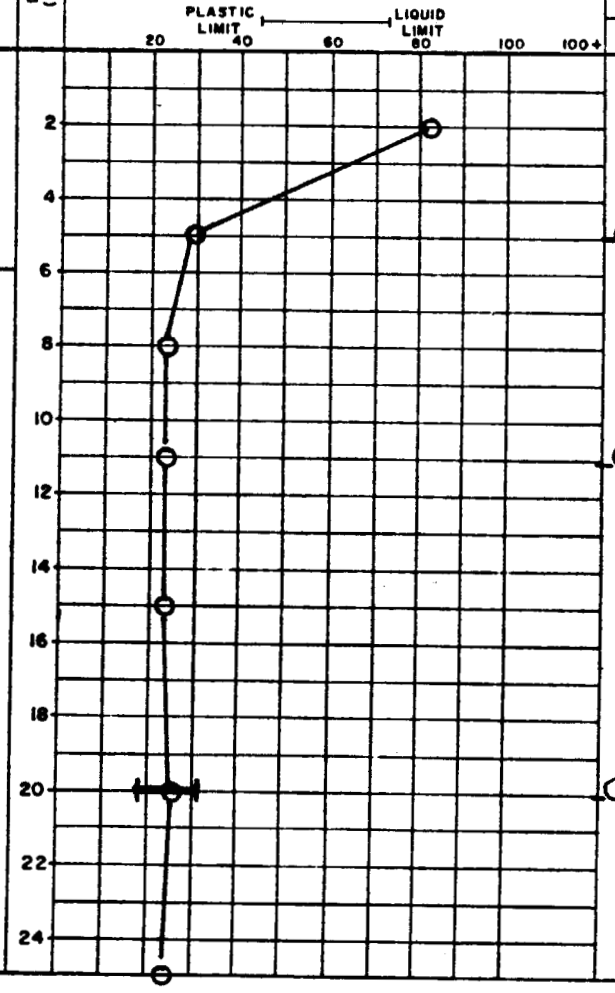
TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		106

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .6'		
2					CL	CLAY - SILTY LOW - MED. PLASTIC		Vs
4								
6								
8								
10					CL			
12							F	
14								Vx
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					FREE WATER	
4	96	4	0		SAT.	
8					DAMP	
10	99	1	0		DAMP	
14					DAMP	
20	99	1	0		DAMP	
24					DAMP	

BOTTOM OF HOLE - 25'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED 12/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION: SPRUCE 6'-8'	ELEV:

TEST HOLE 1

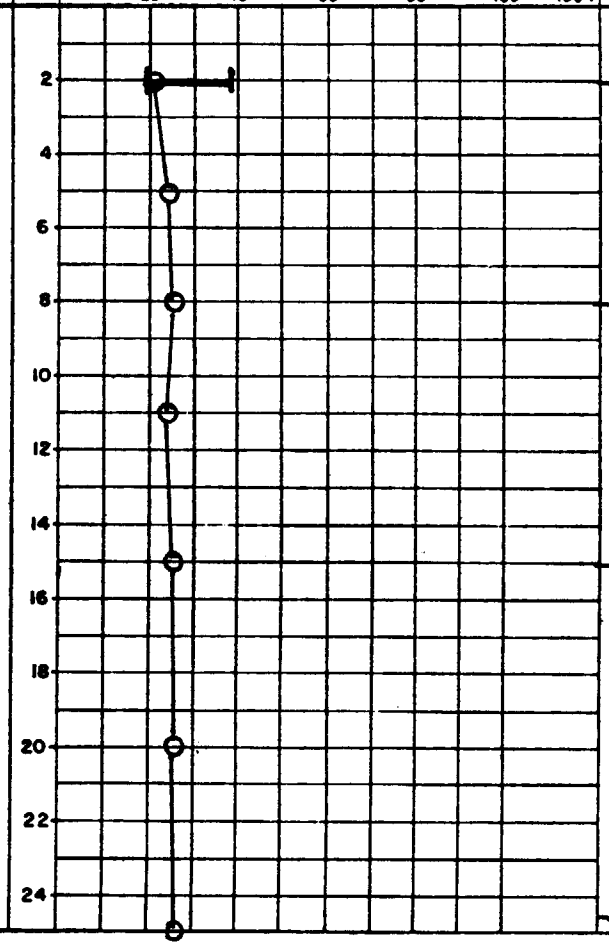
MILE	B,C,S	NUMBER
B.P.		107

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					PT	PEAT .5'								
2					CL	CLAY - SILTY MED. PLASTIC	F	Vx	97	3	0		DAMP	
4													DAMP	
6														
8									99	1	0		DAMP	
10													DAMP	
12														
14									99	1	0		DAMP	
16														
18													DAMP	
20														
22														
24					ML	SILT - CLAYEY			98	2	0		WET	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



R073

BOTTOM OF HOLE. 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 12/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6"-8" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
BP		107

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 5'		
2					ML	SILT - CLAYEY		
4						TO		
6					CL	CLAY - SILTY	F	Vc-Vr
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					MOIST	
4					WET	
6	99	1	0			
8					DAMP	
10						
12	99	1	0		DAMP	
14					DAMP	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 12/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: Auger | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" - 8" | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		107

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT 1'								
2						CLAY - SILTY			99	1		0	MOIST	
4													WET	
6						GRAVELLY								
8					CL	MED. - HIGH PLASTIC			87	1		12	DAMP	
10								UX						
12					CH								DAMP	
14						PEBBLES	F		94	5		1	MOIST	
16														
18														
20													DAMP	
22														
24						GRAVELLY			67	9		24	DAMP	

BOTTOM OF HOLE - 25'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 12/13/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE - 8" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		107

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						CLAY - SILTY		
4						MED. PLASTIC		
6								Vc-Vf
8					Cl		F	
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4					MOIST	
6	96	3	1			
8					MOIST	
10	99	1	0		MOIST	
12						
14					DAMP	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 12/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD: | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 8" | ELEV:

TEST HOLE 5

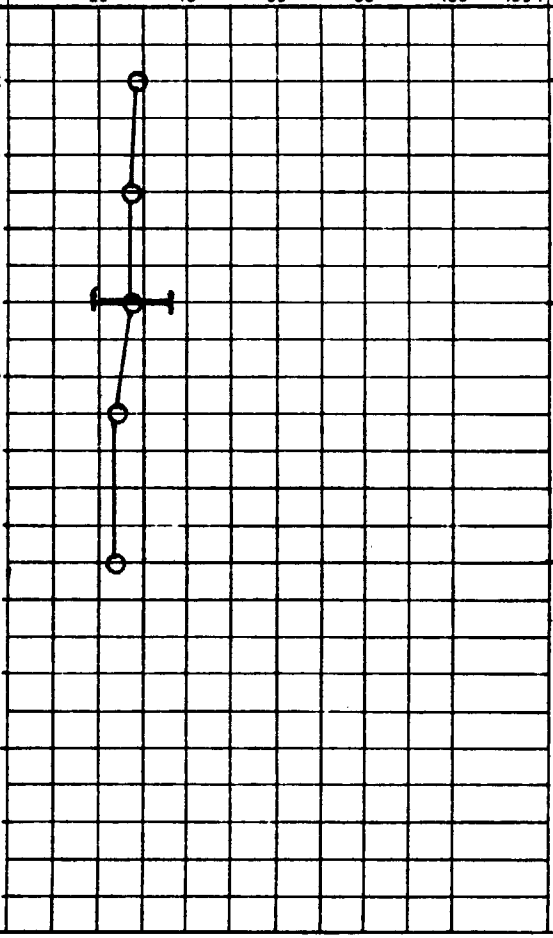
MILE	B,C,S	NUMBER
B.P.		107

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						CLAY - SILTY		Vs
4						MED. PLASTIC		1
6					Cl			Vc-Vr
8							F	
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	99	1	0		WET	
4					WET	
8	98	2	0		WET	
10					MOIST	
14	99	1	0		DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 12/3/15	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION SPRUCE 12"	ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		107

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY		Vs
4						MED. PLASTIC		
6					Cl		Fr	
8								
10								Vc - Vr
12								
14						15'		
16						BOTTOM OF HOLE - 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT.	
4	99	1	0		WET	
6						
8					MOIST	
10						
12	98	2	0		DAMP	
14						
16					DAMP	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 12/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 10" | ELEV:

TEST HOLE 7

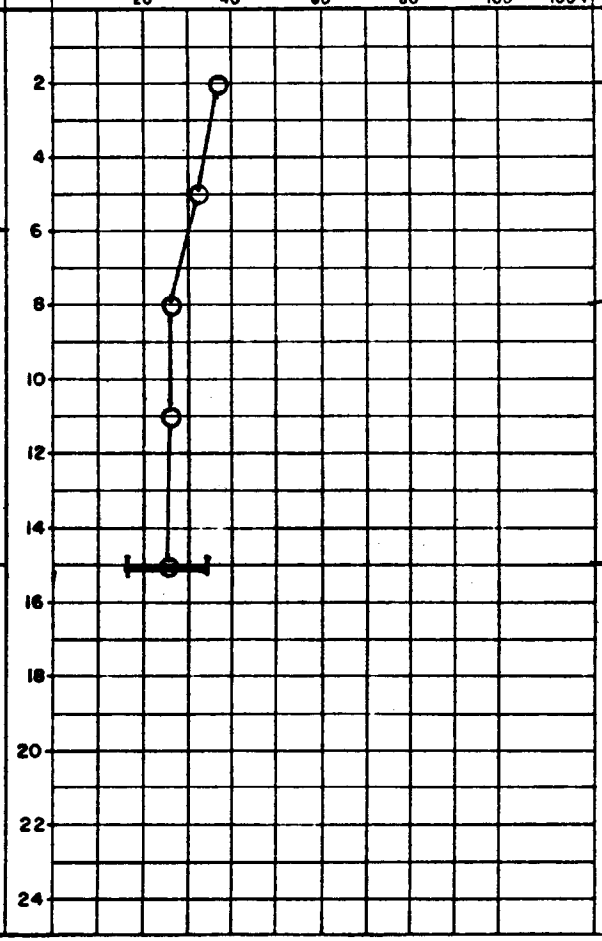
MILE	B,C,S	NUMBER
B.P.		107

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						CLAY - SILTY		Vs
4						MED. PLASTIC		
6							F	
8					Cl			Vc-Vr
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	99	1	0		SAT.	
4					WET	
8	100	0	0		MOIST	
12					MOIST	
14	99	1	0		DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

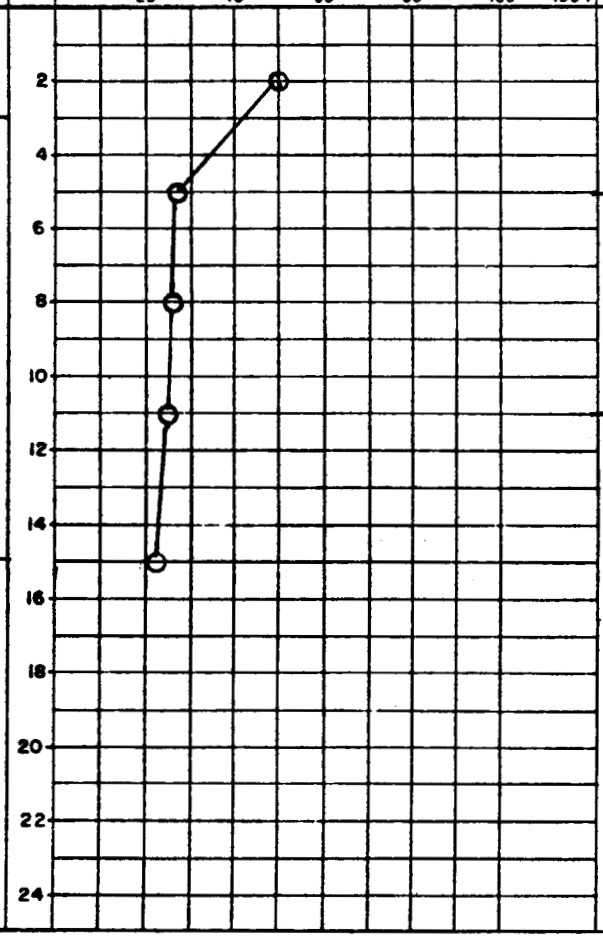
DWN	FIELD ENG	DATE DRILLED 24/8/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION: SPRUCE 10"	ELEV:

TEST HOLE 8

MILE	B,C,S	NUMBER
B.P.		107

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		Vs
2						CLAY-SILTY		
4						MED. PLASTIC		
6					Cl		F	
8								Vc-Vr
10								
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS					
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					GROUNDWATER
98	2	0		MOIST	
				MOIST	
99	1	0		MOIST	
				DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

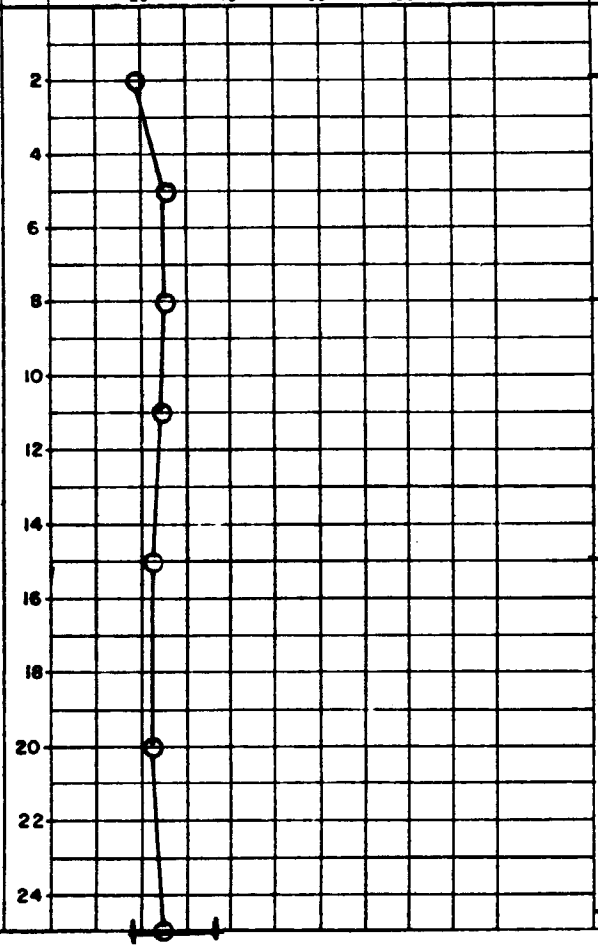
DWN | FIELD ENG | DATE DRILLED 4/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION POPLAR-SPRUCE 12" | ELEV

TEST HOLE 9

MILE	B,C,S	NUMBER
B.P.		107

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						CLAY - SILTY		
4								
6								
8								
10						MED. PLASTIC	F	Vc-Vr
12					Cl			
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	99	1	0		DAMP		
4					MOIST		
8	100	0	0		MOIST		
10					DAMP		
14	99	1	0		DAMP		
20					DAMP		
24	100	0	0		DAMP		

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED '73 3 15	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
BP		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT 1'								
2						CLAY - SILTY							DAMP	
4						MED. PLASTIC	F	Vx	98	2	0		DAMP	
6														
8					CL								DAMP	
10									88	14	3		MOIST	
12														
14													DAMP	
16														
18														
20									56	40	4		DAMP	
22														
24													DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

CL LOW PLASTIC

37-50-13 DAMP

BOTTOM OF HOLE-30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 15/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 8" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT 2'		
2–10						CLAY - SILTY	F	$V_C - V_V$
10–24					Cl	MED. PLASTIC ROCK CHIPS		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4	98	2	0		WET	
8					DAMP	
10	69	26	5		DAMP	
14					DAMP	
20	43	43	14		DAMP	
24					DAMP	

SAND - SILTY GRAVELLY
BOTTOM OF HOLE - 30'

-31-58-11 MOIST

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 18' | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 2'		
2					CL	CLAY - SILTY SANDY PEBBLES MED. PLASTIC	F	Vx
18						18'		
20					SM	SAND - SILTY GRAVELLY		
24						24'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					DAMP	
4	71	24	5		DAMP	
8					MOIST	
10	66	26	8		MOIST	
14					DAMP	
20	31	45	24		DAMP	
24	37	42	21		DAMP	

CLAY - SANDY GRAVELLY
CL LOW PLASTIC

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 13/8 75 | AIRPHOTO NO: | CHAINAGE | OFFSET

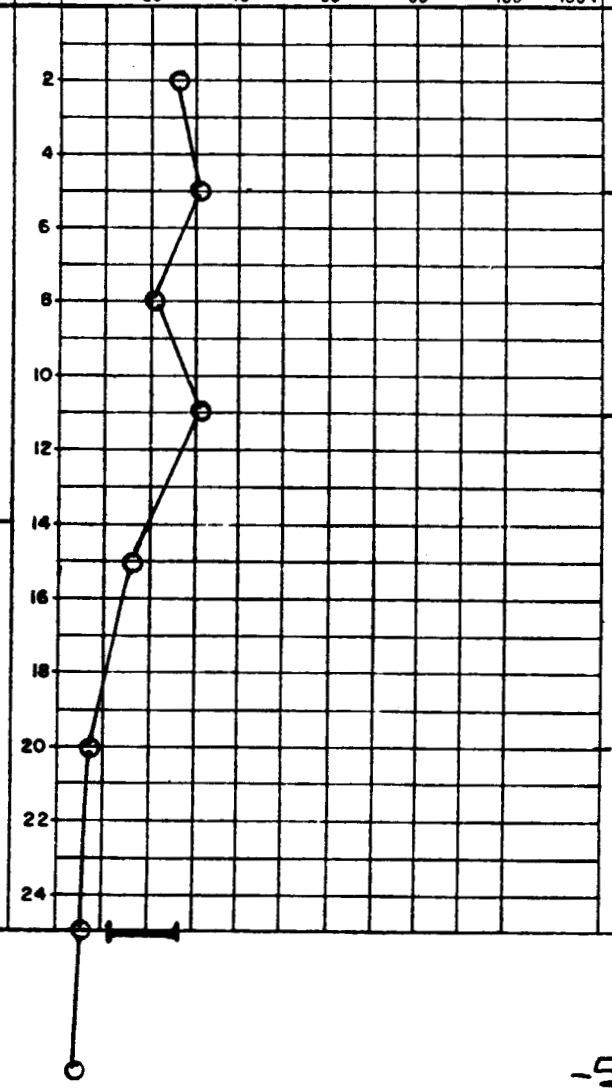
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 12" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					PT	PEAT — 2'		
4					CI	CLAY-SILTY SANDY PEBBLES MED. PLASTIC	F	$V_C - V_f$
6								
8								
10								
12								
14								
16								
18								
20					CL	LOW PLASTIC		
22								
24								



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					MOIST	
	82	11	7		WET	
					MOIST	
	77	14	9		WET	
					MOIST	
					DAMP	
	53	40	7			
					DAMP	

-54-41-5 DAMP

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 3/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH REYNOLDS | RIG: A 18 | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0–2					Pt	PEAT 2'								DAMP
2–14					CL	CLAY - SILTY SANDY GRAVELLY MED. PLASTIC	F	Vc–Vx	57	30	13			WET
14–24						LOW PLASTIC			70	25	5			HUMID
									44	39	17			HUMID
									50	36	14			HUMID

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 3/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: | VEGETATION | ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Pt	Peat 2'								DAMP
4						CLAY-SILTY SANDY PEBBLES								DAMP
6						MED. PLASTIC								
8					CL									DAMP
10									78	19	3			DAMP
12								?						
14														DAMP
16														
18														
20						GRAVELLY LOW PLASTIC			40	39	21			DAMP
22					CL									
24														HUMID

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

-48-42-10 HUMID

Bottom of Hole - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED: 9/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: REYNOLDS | RIG: A12 | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE 7

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'	F	VC-VF
4						CLAY-SILTY SANDY PEBBLES		
6								
8						MED. PLASTIC		
10					CI			
12								
14						GRAVELLY		
16								
18						PEBBLES		
20								
22					CL	LOW PLASTIC		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
	79	18	3		WET	
					WET	
	82	16	2		MOIST	
					DAMP	
	41	45	14		DAMP	
					HUMID	
	48	43	9		HUMID	

BOTTOM OF HOLE - 30'

HUMID

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

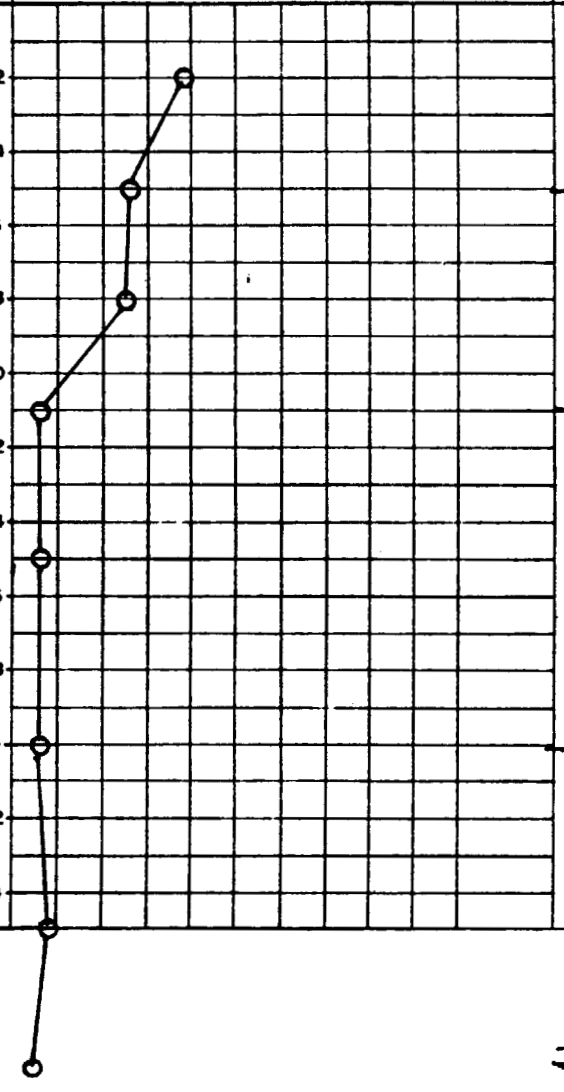
DWN | FIELD ENG. | DATE DRILLED 7/3 75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 8" | ELEV:

TEST HOLE 8

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					PT	PEAT		
4					CL	CLAY - SILTY SANDY PEBBLES MED. PLASTIC	F	
6								
8						8'		
10					SM	SAND - SILTY GRAVELLY		
12						13'		
14					CL	CLAY - SILTY SANDY GRAVELLY		
16						17'		
18					SC	SAND - CLAYEY SILTY GRAVELLY		
20								
22								
24								



GRAIN-SIZE ANALYSIS					
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
				SAT.	
79	19	2		WET	
				WET	
25	55	20		DAMP	
				DAMP	
42	46	12		HUMID	
				MOIST	

PEBBLES

33 - 61 - 6 MOIST

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: | VEGETATION Spruce + Poplar | ELEV

TEST HOLE 9

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 2'	F	V_X
4					CH	CLAY - SILTY SANDY PEBBLES MED-HIGH PLASTIC		
6								
8					CI			
10						GRAVELLY		
12								
14								
16						LAYER OF GRAVEL & SAND		
18								
20					CL	LOW PLASTIC		
22						18'		
24						SAND GRAVELLY SILTY CLAYEY		
					SC			

BOTTOM OF HOLE -30'

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2	66	29	5		MOIST	
4					DAMP	
8	74	22	4		H.I.B	
12					DAMP	
16	47	38	15		DAMP	
20					DAMP	
24	33	55	12		DAMP	

DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE & POPLAR | ELEV

TEST HOLE 10

MILE	B,C,S	NUMBER
B.P.		108

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Pt	PEAT 2'								Moist
4					CL	CLAY - SILTY SANDY PEBBLES	F	Vx	88	11	1			Moist
6														
8						MED. PLASTIC								Moist
10					CI				72	26	2			Damp
12														
14														Damp
16														
18														
20						GRAVELLY			48	41	11			Damp
22														
24						24'								
					GM	SAND - GRAVELLY SILTY								Wet
						28'								
					CL	CLAY - SANDY GRAVELLY			35	45	20			Damp
						BOTTOM OF HOLE - 30'								

A073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG: AIR | SURFACE DRAINAGE: Sloping to North | VEGETATION: Spruce | ELEV

TEST HOLE 11

MILE	B,C,S	NUMBER
B.P		109

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT 2'		
2–8					CL	CLAY-SILTY SANDY PEBBLES MED. PLASTIC	F	Vc–Vv
8–24					CL	LOW PLASTIC		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					MOIST	
4	83	14	3		MOIST	
8					WET	
10	73	24	3		DAMP	
14					DAMP	
20	52	45	3		DAMP	
24					DAMP	

BOTTOM OF HOLE - 30'

-48-44-8 DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 1

CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE SLOPING SOUTH | VEGETATION SPRUCE | ELEV | MILE B.P. | B,C,S | NUMBER 109

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					A	PEAT — 2'		
4						CLAY - SILTY		
6					CL	MED. PLASTIC	F	$V_C - V_F$
8						SANDY		
10						PEBBLES		
12								
14								
16								
18								
20								
22						— 22'		
24					SC	SAND - SILTY CLAYEY		
						PEBBLES — 27'		
					CL	CLAY - SANDY GRAVELLY		
						BOTTOM OF HOLE - 30'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2						MOIST	
4	99	- 1	0			MOIST	
8						MOIST	
10	82	- 15	3			DAMP	
14						DAMP	
20	50	- 41	9			DAMP	
24	-45	-44	-11			DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 2
CKD | TECH Reynolds | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 8" | ELEV | MILE B.P. | B,C,S | NUMBER 109

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		Vs
2–12						CLAY - SILTY	F	1
						SANDY PEBBLES		Vc – Vr
12–30					Cl	MED. PLASTIC		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2							MOIST
4	99	1	0				SAT.
6							
8							DAMP
10	88	10	2				DAMP
12							
14							DAMP
16							
18							
20	51	45	4				DAMP
22							
24							HUMID

R073

BOTTOM OF HOLE - 30'

-45-51-4 HUMID

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 15/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 3
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE + BIRCH | ELEV | MILE B.P. | B,C,S | NUMBER 109

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2'		Vs
2						CLAY - SILTY SANDY PEBBLES		
4						MED. PLASTIC	F	
6								
8								Vc — Vr
10					Cl			
12								
14								
16								
18								
20								
22						SAND - CLAY & SILT PEBBLES — 22'		
24					SC			

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0							FREE WATER
4	74	22	4				MOIST
8							MOIST
10	58	37	5				DAMP
14							DAMP
20	46	47	7				DAMP
24							MOIST

R073

SAND - CLAY & SILT PEBBLES — 27'

CL CLAY - SILTY SANDY PEBBLES

BOTTOM OF HOLE - 30'

50 45 5 HUMID

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE + BIRCH | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		109

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0–10					CL	CLAY - SILTY MED. PLASTIC	F	$V_C - V_r$	95	5	1	0	MOIST	
10–12													WET	
12–14						SANDY PEBBLES			99	1	0		WET	
14–16													DAMP	
16–18									75	22	3		DAMP	
18–20														
20–22						Low PLASTIC							DAMP	
22–24						GRAVELLY			40	47	13		DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 30'

HUMID

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 25/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE 51

MILE	B,C,S	NUMBER
B.P.		109

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2					O	- CLAY - SILT		Vs
4						CLAY - SILTY	F	
6						MED. PLASTIC		
8					CI			
10								Vc - Vr
12								
14								
16								
18						SANDY PEBBLES		
20					CL	LOW PLASTIC		
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2							MOIST
4	98	2	0				FREE WATER
6							
8							DAMP
10	99	1	0				DAMP
12							
14							DAMP
16							
18							
20	63	34	3				WET
22							
24							HUMID

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/13/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 6
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE + BIRCH | ELEV | MILE B.P. | B,C,S | NUMBER 109

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT 2'		
2–10					CL	CLAY - SILTY SANDY PEBBLES MED. PLASTIC	F	Vs Vc-Vr
10–24					CL	GRAVELLY LOW PLASTIC		Vx

BOTTOM OF HOLE - 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	98	2	0		SAT.		
4					WET		
8	69	25	6		DAMP		
10					MOIST		
14	62	32	6		DAMP		
18							
20					HUMID		
22							
24	48	40	12		HUMID		

HUMID

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 13/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		110

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT — .5'	F	VS							FREE WATER
2						CLAY - SILTY									
4						MED. PLASTIC			97	3	0				DAMP
6															
8					Cl		F								MOIST
10									96	3	1				MOIST
12								$V_C - V_r$							
14						15'									DAMP
16						BOTTOM OF HOLE - 15'									
18															
20															
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 13/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION:	ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		110

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0–2						CLAY - SILTY	F	VX					DAMP		
2–4															
4–6									99	1	0		MOIST		
6–8															
8–10					CI	MED. PLASTIC							DAMP		
10–12									99	1	0		DAMP		
12–14															
14–15						15'	F	VX					DAMP		
15–16						BOTTOM OF HOLE - 15'									
16–18															
18–20															
20–22															
22–24															

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 5/15	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH. CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION SPRUCE & BIRCH	ELEV.

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		110

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					PT	PEAT .5'								
2						CLAY - SILTY SANDY			55	43	2		MOIST	
4						MED. PLASTIC							WET	
6								Vc-Vr						
8					CI		F		98	2	0		WET	
10													DAMP	
12														
14									100	0	0		DAMP	
16														
18														
20													DAMP	
22														
24									100	0	0		DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET CNT LINE
CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION BIRCH & SPRUCE | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		110

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2						CLAY - SILTY MED. PLASTIC	F	
2–4								
4–6								
6–8								
8–10								
10–12					CI			
12–14								
14–16								
16–18								
18–20								
20–22								
22–24							F	VL-VV

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						H.L.B.
6	98	2	0		H.L.B.	
10	98	2	0			
20	99	1	0		H.L.B.	

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG:	DATE DRILLED: 13/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH: CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION: SPRUCE-BIRCH-POPLAR	ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		110

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					CL	CLAY - SILTY LOW PLASTIC	F	Vx
2–10					CI	MED. PLASTIC		
10–14							F	Vx
14–15						15'		
15–24						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2'	97	3	0			DAMP
4–6'						MOIST
8'	98	2	0			DAMP
10–12'						DAMP
14'	99	1	0			DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 13/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH 12" | ELEV:

TEST HOLE 6

MILE	B.C.S	NUMBER
B.P.		110

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT	F	Vc-Vr
2					CL	CLAY - SILTY SANDY LOW PLASTIC		
4								
6					CI	MED. PLASTIC		
8							F	
10								
12								
14								Vc-Vr
16								
18								
20							F	
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT → LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						Moist
4						
6	76	24	0			Moist
8						Wet
10						
12	85	15	0			H.I.B
14						
16						Wet
18						
20	100	0	0			Moist
22						
24						H.I.B

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: SLOPING WEST | VEGETATION: POPLAR + SPRUCE | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					GW	GRAVEL SANDY		
4								
6						— 6'	F	Vx
8						CLAY - SILTY SANDY		
10					CI	MED. PLASTIC		
12						SILTY		
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	8	34	58				DAMP
6							MOIST
8	88	12	0				MOIST
12							DAMP
14	97	3	0				DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

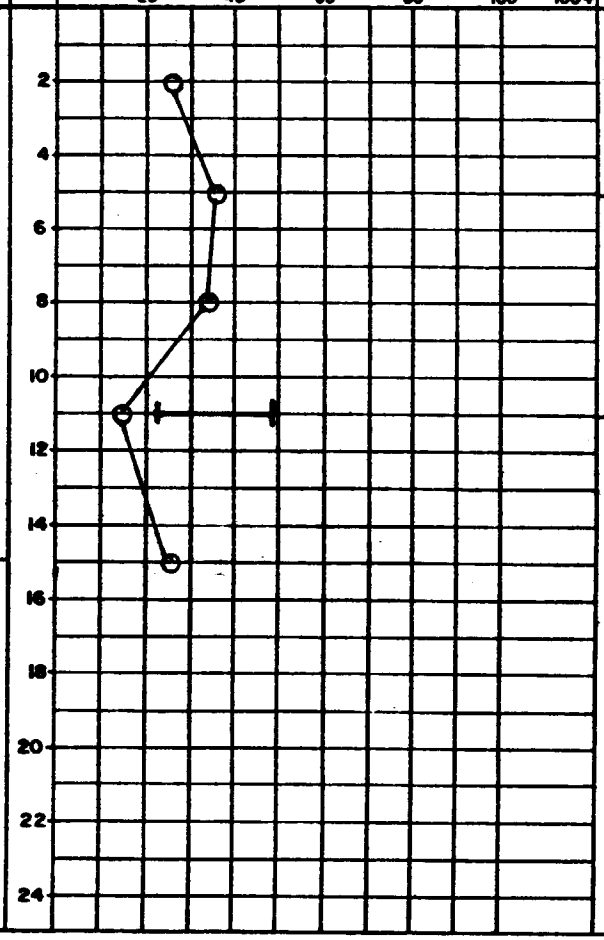
DWN: | FIELD ENG: | DATE DRILLED: 14/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: DROP TO SOUTH | VEGETATION: SPRUCE | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 1'		
4						CLAY - SILTY SANDY PEBBLES		Vc-Vs
6							F	
8					Cl	SILTY MED. PLASTIC		
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS					
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
4	77	19	4		WET
8					WET
10	96	4	0		DAMP
14					DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: SLOPING WEST | VEGETATION: SPRUCE & BIRCH | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					CH	CLAY - SILTY HIGH PLASTIC	F	Vx
4								
6								
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	82	11	7		Moist	
6					Moist	
8	92	3	0		Moist	
12					Moist	
14	92	7	1		Moist	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 4/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: SLOPING WEST | VEGETATION: | ELEV:

TEST HOLE 4

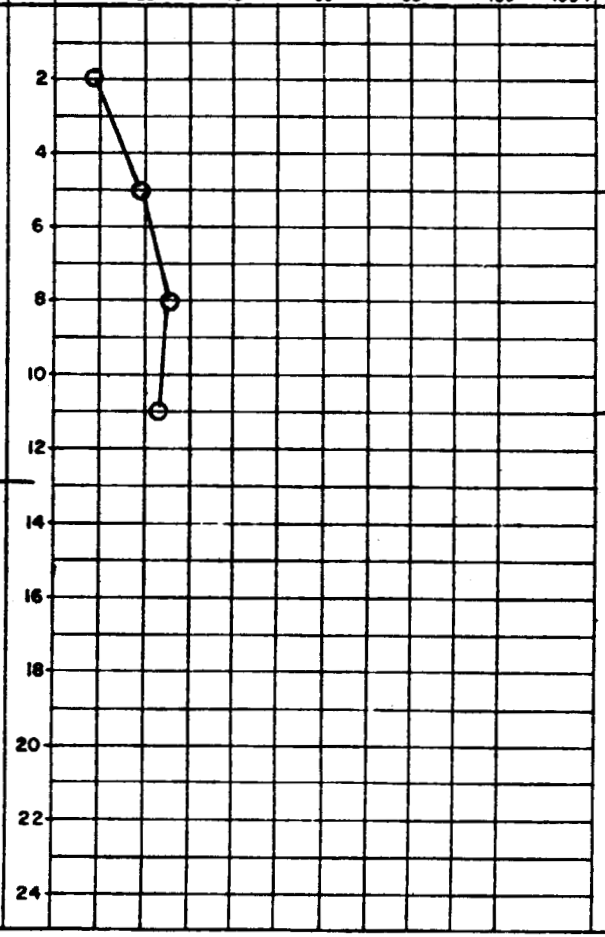
MILE	B,C,S	NUMBER
B.P.		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 5'		
2					SC	SAND - SILTY CLAYEY PEBBLES	F	VC-Wr
4								
6								
8								
10					CL	CLAY - SILTY SANDY PEBBLES — 13'		
12								
14						BOTTOM OF HOLE - 13'		
16						LOST CIRCULATION		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					DAMP	
4	43	55	2		MOIST	
6						
8					WET	
10						
12	85	13	2		WET	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: SLOPING WEST | VEGETATION: | ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					SC	SAND - SILT MIX CLAYEY GRAVELLY		Vx
4					ML			
6						6'	F	
8					CL	CLAY - SILTY MED. PLASTIC		Vc-Vx
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						DAMP
4						
6	47	41	12			DAMP
8						WET
10						
12	94	6	0			MOIST
14						
16						MOIST
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 4/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV:

TEST HOLE 6
MILE: B.P. | B,C,S: | NUMBER: 111

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
.5'								
2					SM	SAND- SILTY GRAVELLY		
4								
6'							F	VS
6						SAND- SILTY		
8								
10					SM			
12								
14								
15'								
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

DEPTH (FEET)

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS

	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	10	73	17		DAMP	
6					SAT.	
8	52	48	0		WET	
10					WET	

REMARKS

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV:

TEST HOLE 7

MILE	B.C.S	NUMBER
B.P.		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					Sc	SAND - SILTY PEATY GRAVELLY 9'	F	VX
10						BOTTOM OF HOLE 9' HOLE CAVING		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	28	67	5				DAMP
4							DAMP
8	6	67	27				DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 4/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH 8" | ELEV:

TEST HOLE 8

MILE	B.C.S	NUMBER
B.P.		111

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS: CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					PT	PEAT .5'									
2						CLAY - SILTY		Vs					SAT.		
4						PEBBLES									
6						MED. PLASTIC	F		89	7	4		WET		
8					CL								MOIST		
10						SILTY		Vx	97	3	0		DAMP		
12															
14						15'							DAMP		
16						BOTTOM OF HOLE - 15'									
18															
20															
22															
24															

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG. | DATE DRILLED 4/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET: Pipeline Line | TEST HOLE 9

CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: Flat | VEGETATION: | ELEV:

MILE	B.C.S	NUMBER
B.P.		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — .5'		
2					GM	Gravel-Silt-Sand Mixture	F	Vx
4								
6								
8						8'		
10						Bottom of Hole 8'		
12						Hole Caving		
14								
16								
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	20	47	33		Moist		
4					Moist		

RDT2

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH: Reynolds | RIG: Air | SURFACE DRAINAGE: Sloping G-W | VEGETATION: Spruce - Birch 8" | ELEV:

TEST HOLE 10

MILE	B.C.S	NUMBER
B.P		111

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 4"		
2					GW	Sand - Silty Gravelly	H	Vx
4								
6								
8						8' Bottom of Hole 8'		
10						Caving @ 8'		
12								
14								
16								
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 120+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	16	73	11		MOIST	
4					DAMP	
8	10	63	27		DAMP	

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 4/3/72 | AIRPHOTO NO: | CHAINAGE: | OFFSET Seismic Line | TEST HOLE 1

CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION Willow Birch | ELEV | MILE B.P. | B,C,S | NUMBER 112

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT 1'									
2					CL	SILTY CLAY 3'	F						MOIST		
4					CL	CLAY - SILTY			66	27	7		DAMP		
6						PEBBLES									
8						LOW - MED. PLASTIC							DAMP		
10					CL				68	27	5		DAMP		
12															
14													DAMP		
16															
18															
20									64	31	5		DAMP		
22															
24													DAMP		

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

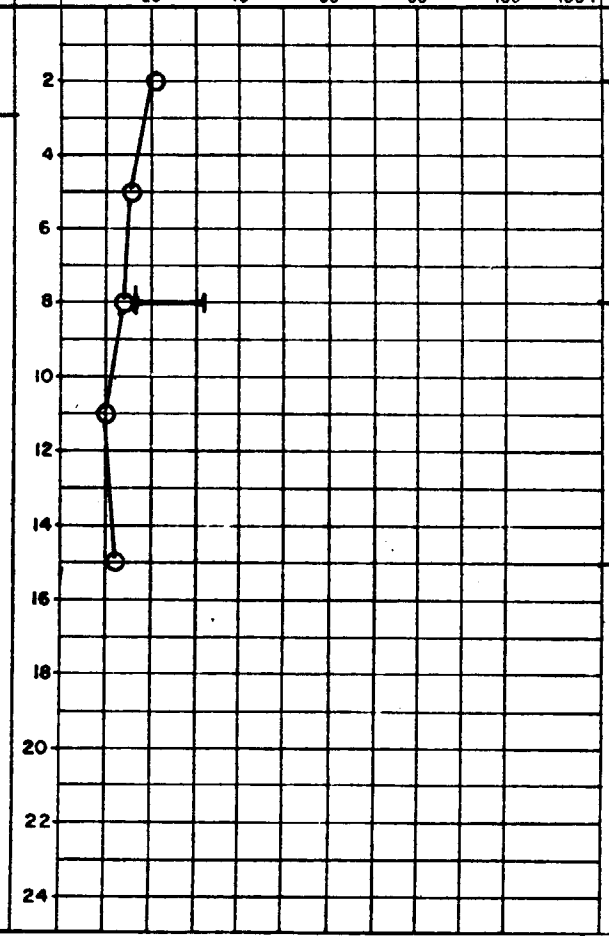
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 4/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET Seismic Line | TEST HOLE 2

CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV | MILE B.P. | B,C,S | NUMBER 112

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT		
2						CLAY - SILTY SANDY PEBBLES	F	W
4								
6						MED. PLASTIC		
8					CI			
10								
12						GRAVELLY		
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS					
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
79	18	3		MOIST	
				DAMP	
70	28	2		DAMP	
				DAMP	
51	26	23		DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 14/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET Seismic Line
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P		112

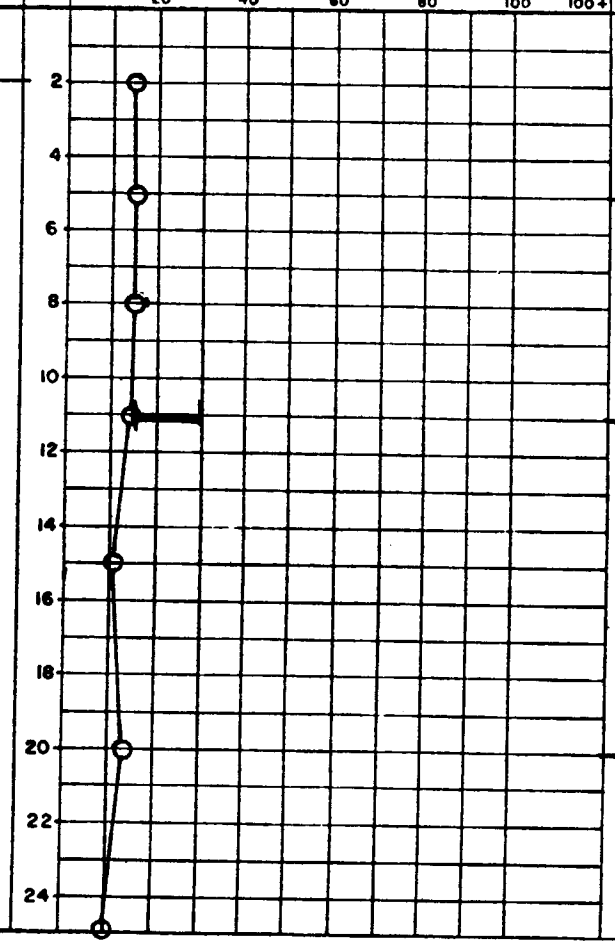
REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY SANDY PEBBLES	F	Vx
8					CL	low - MED. PLASTIC		
12					CI			

BOTTOM OF HOLE - 25'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						DAMP
6	65	29	6			DAMP
8						DAMP
12	63	30	7			DAMP
16					H.I.B.	
20	65	28	7			DAMP
24					H.I.B.	

R073

DRILL HOLE REPORT

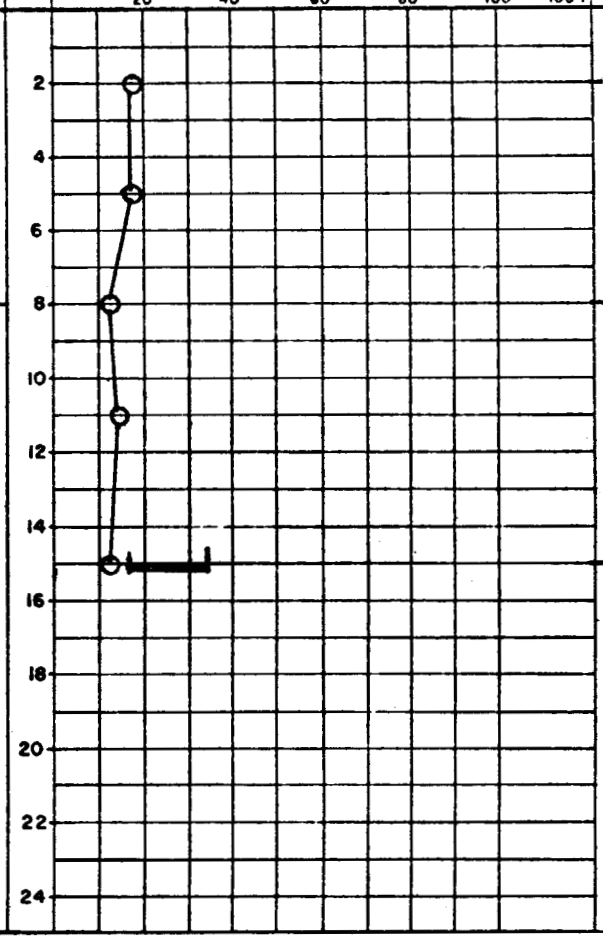
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED: 14/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: BIRCH + WILLOW | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		112

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'		
4						CLAY - SILTY SANDY PEBBLES	F	Vx
6								
8						GRAVELLY		
10					Cl	MED. PLASTIC		
12						PEBBLES		
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	78	16	6		DAMP		
4					DAMP		
8	55	25	20		HUMID		
10					DAMP		
14	68	27	5		HUMID		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 4/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION: BIRCH + WILLOW	ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		112

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						CLAY - SILTY SANDY GRAVELLY	TI	Vc - Vr	2					WET	
4									4	65	23	12		MOIST	
6						MED. PLASTIC			6					DAMP	
8					C1				8						
10						PEBBLES			10	69	27	4		DAMP	
12									12						
14									14					DAMP	
16									16						
18									18						
20						GRAVELLY			20	69	20	11		DAMP	
22									22						
24									24					DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 14/6/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: BIRCH + WILLOW | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		112

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–15'					CL	CLAY - SILTY SANDY PEBBLES MED. PLASTIC 15' BOTTOM OF HOLE - 15'	FI	Vc–Vr

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
70	25	5		WET	
					DAMP
68	29	3			DAMP
					DAMP
62	29	9			DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 14 & 15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: Birch + Willow | ELEV

TEST HOLE 7

MILE	B,C,S	NUMBER
B.P.		112

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2						CLAY - SILT		
4						SANDY		
6						MED PLASTIC		
8					C1		F	VX
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					H.I.B	
6	8	1	9	0	H.I.B	
8					DAMP	
12	9	1	8	1	DAMP	
14					DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: BIRCH + WILLOW | ELEV:

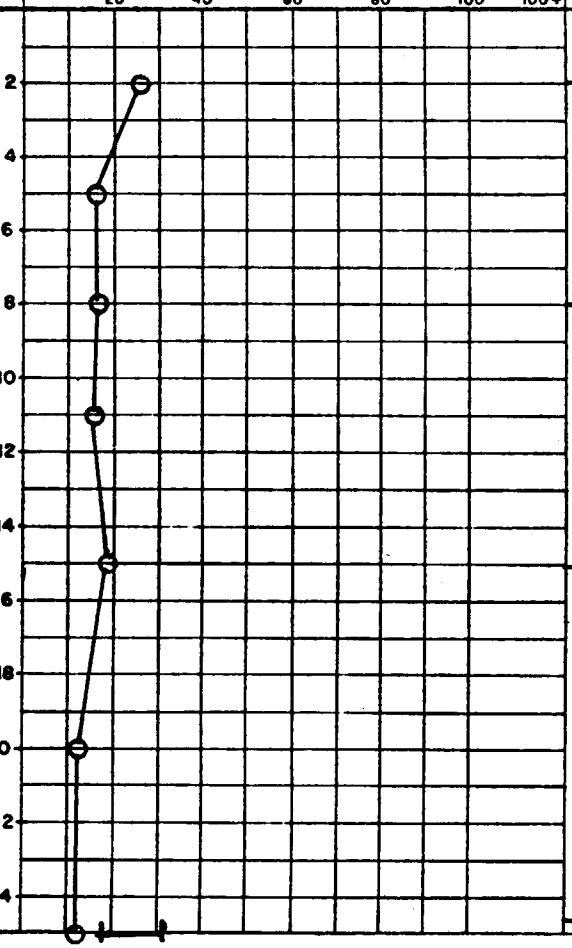
TEST HOLE 8

MILE	B,C,S	NUMBER
B.P.		112

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT .5'	F								
2						CLAY-SILTY SANDY PEBBLES MED. PLASTIC			84	14	2		WET		
4													DAMP		
6															
8									73	24	3		DAMP		
10					Cl								M.I.B		
12															
14									75	21	4		DAMP		
16															
18															
20													DAMP		
22															
24									62	29	9		DAMP		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



BOTTOM OF HOLE - 25'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 14/8/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6' | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		113

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT .5'							MOIST	
2					CL	CLAY-SILTY SANDY PEBBLES LOW-MED. PLASTIC	F	Vx						
4									55	42	3		H.V.B	
6														
8													DAMP	
10					CL				67	21	12		DAMP	
12														
14													DAMP	
16														
18														
20									64	30	6		DAMP	
22														
24													DAMP	

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 10/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		113

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					ML	SILT-CLAYEY		
						— 3'		
4						CLAY - SILTY SANDY GRAVELLY		
6							F	U_x
8					CL	LOW PLASTIC		
10								
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	89	11	0		H.I.B	
6					H.I.B	
8	52	12	36		DAMP	
12					DAMP	
14	55	30	15		DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 49 3 15 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		113

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					ML	SILT - ORGANIC SANDY — 3'		
4					CL	CLAY - SILTY PEBBLES	F	Vx
6						MED. PLASTIC		
8								
10					Cl	GRAVELLY		
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2							H.I.B.
4	96	2	2				MOIST
8							MOIST
10	79	9	12				DAMP
14							DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 14/5/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE 6" | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		113

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					OL	ORGANIC SILT CLAYEY 3'	F	Vs 1 ¼-½
4						CLAY-SILTY SANDY PEBBLES		
6								
8								
10						MED. PLASTIC		
12					CL			
14								
16								
18								
20								
22					CL	LOW PLASTIC		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2							SAT.
4							WET
6							
8	72	20	8				DAMP
10							DAMP
12							
14							DAMP
16	58	29	13				
18							
20							DAMP
22							
24	29	66	5				DAMP

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

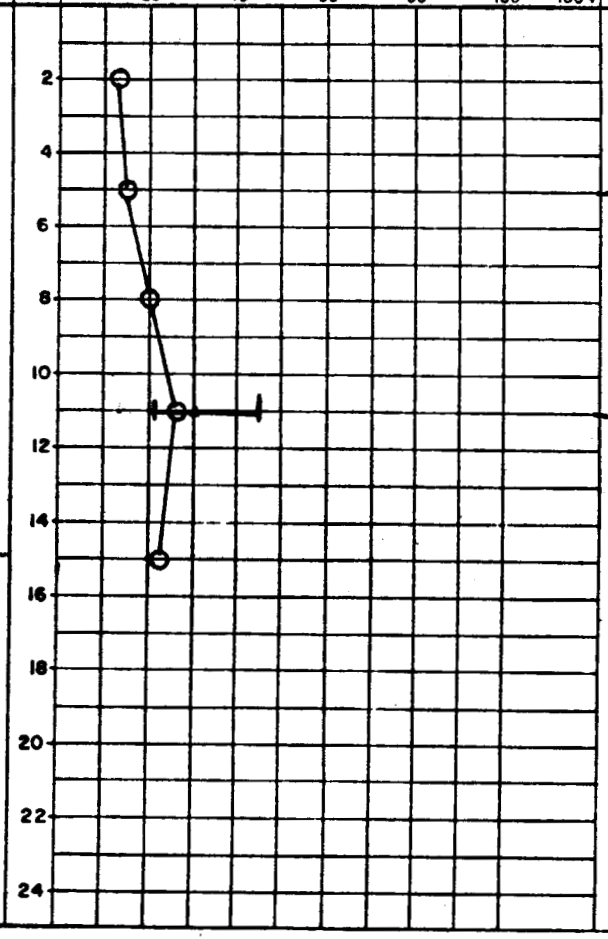
DWN: | FIELD ENG: | DATE DRILLED: MAY 13 '75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		113

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY- SILTY SANDY		
4								
6						MED. PLASTIC		
8					Cl		F	Vc-Vr
10								
12								
14						15'		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS					
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
6	74	26	0		WET
8					WET
10					
12	97	3	0		MOIST
14					
16					DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P		114

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .6'		
2						CLAY - SILTY SANDY PEBBLES	F	Vx
4								
6					Cl	MED. PLASTIC		
8								
10								
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	78	18	4		DAMP	
4					DAMP	
6						
8	67	26	7		DAMP	
10					DAMP	
12						
14	60	27	13		DAMP	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 8" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		119

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5	F	Vx
2						CLAY - SILTY SANDY PEBBLES LOW PLASTIC		
4								
6					CL			
8								
10								
12								
14						— 15'		
16						BOTTOM OF HOLE - 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2							DAMP
4	61	33	6				DAMP
6							
8							HUMID
10	52	38	10				DAMP
12							
14							HUMID
16							
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 4/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV:

TEST HOLE 3

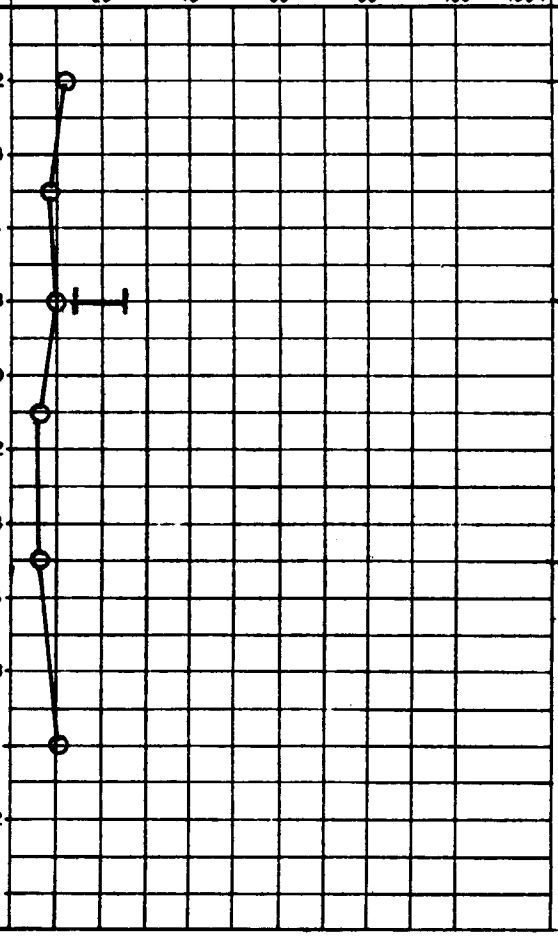
MILE	B,C,S	NUMBER
B.P.		114

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT — 1'									
2					CL	CLAY-SILTY SANDY GRAVELLY LOW PLASTIC	F	4x	40	21	39		H.	B.	
4													H.	I.	B.
6															
8									40	19	41		DAMP		
10													DAMP		
12															
14									51	24	25		DAMP		
16															
18						WET 18' - 20'							MOIST		
20						20' BOTTOM OF HOLE - 20'									
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P		114

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT 5'									
2						CLAY-SILTY SANDY GRAVELLY	F	Vx	54	28	18			DAMP	
4														DAMP	
6						LOW PLASTIC									
8									60	34	6			DAMP	
10					CL									DAMP	
12															
14									56	27	17			DAMP	
16															
18															
20														HUMID	
22															
24									57	31	12			HUMID	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 5" | ELEV:

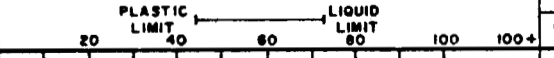
TEST HOLE 5

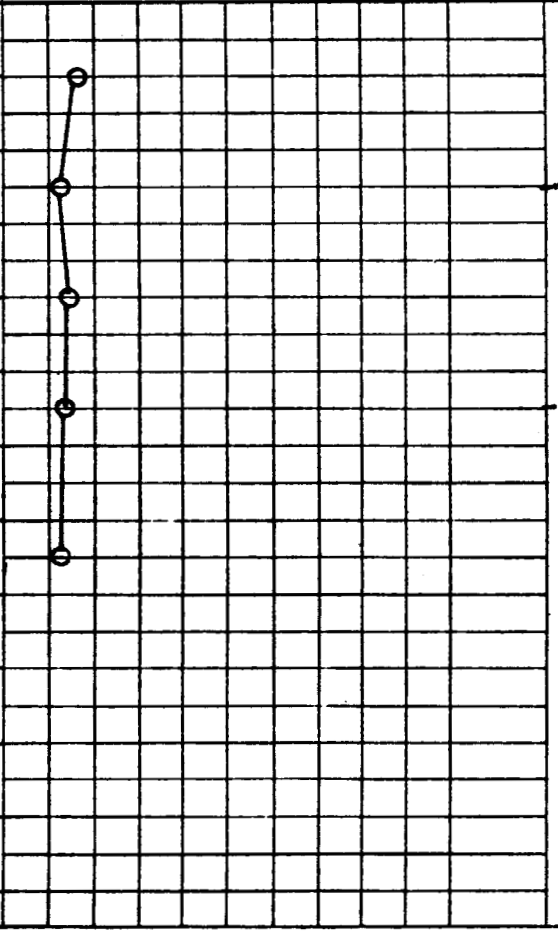
MILE	B,C,S	NUMBER
B.P.		114

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT .5'								
2					CL	CLAY - SILTY SANDY LOW PLASTIC	F	$V_L - V_r$					WET	
4									47	40	13		DAMP	
6														
8													DAMP	
10									49	26	25		DAMP	
12														
14						15'							DAMP	
16						BOTTOM OF HOLE. 15								
18														
20														
22														
24														

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)





R079

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 4/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 8" | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P		114

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						CLAY - SILTY SANDY GRAVELLY	F	4%
6					CL	LOW PLASTIC		
15						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	53	18	29				DAMP
4							MOIST
8	55	28	17				DAMP
10							DAMP
14	43	21	36				DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 9/5/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE 5" | ELEV

TEST HOLE 7

MILE	B,C,S	NUMBER
BP.		114

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY-SILTY SANDY GRAVELLY LOW PLASTIC	F	Vx
4								
6								
8								
10					CL			
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2					DAMP	
4					DAMP	
6	63	30	7			
8					DAMP	
10					DAMP	
12	55	28	17			
14					DAMP	
16						
18						
20					DAMP	
22	54	22	24			
24					DAMP	

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 15/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE SLOPING WEST | VEGETATION SPRUCE 12" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–1					Pt	PEAT		
1–17					CL	CLAY - SILTY SANDY GRAVELLY ROCK CHIPS LOW PLASTIC	F	Vc-Vr
17–30						SHALE - SOFT	F	Vx

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	47	42	11		MOIST	
6					WET	
8	47	32	21		WET	
12					MOIST	
15	58	34	8		MOIST	
20					DAMP	
24					DAMP	

DAMP

BOTTOM OF HOLE 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 5/2/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG AIR | SURFACE DRAINAGE: Sloping West | VEGETATION: Spruce | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–1					Pt	PEAT		
1–11					CL	CLAY - SILTY / SANDY / GRAVELLY / LOW PLASTIC		
11–30						SHALE - SILTY / SOFT		?

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0–2					SAT.	
2–4						
4–6	33	48	19		MOIST	
6–8						
8–10					WET	
10–12					WET	
12–14						
14–16					DAMP	
16–18						
18–20					DAMP	
20–22						
22–24						
24–30					HUMID	

DAMP

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 16/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE FLOWING WEST | VEGETATION: SPRUCE | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					CL	CLAY - SANDY GRAVELLY Low PLASTIC SHALE FRAGS.		Vx
4								
6								
8						8' SHALE - SOFT		
10								
12							F	
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	20	50	30		MOIST	
4					MOIST	
8					MOIST	
10					DAMP	
14					DAMP	
20					HUMID	
24					DAMP	

300 DAMP

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 15/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AID | SURFACE DRAINAGE TOP OF HILL | VEGETATION POPLAR SPRUCE | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		116

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'	F	
2					CL	CLAY-SILTY SANDY 2.5'		?
4						REDDISH		
6						BEDROCK		
8						GROUND DOWN		
10						SHALE?		
12					CL	LOW PLASTIC		
14								
16								
18								
20								
22								
24								

BOTTOM OF HOLE - 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2						HUM
4						
6	23	38	39			DAMP
8						DAMP
10						
12	20	47	33			DAMP
14						
16						HUMID
18						
20	21	49	30			HUMID
22						
24	18	48	34			HUMID

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 15/5/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET

CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION SPRUCE & POPLAR | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — .5'	F	
2						CLAY - SILTY SANDY PEBBLES		
4						— 4'		
6						REDDISH BROWN		
8						BEDROCK		
10						SOFT		
12						SOME PLASTICITY		
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	33	61	6				DAMP
4							DAMP
6							
8	24	52	24				HUMID
10							HUMID
12							
14							
16	17	52	31				HUMID
18							
20							HUMID
22							
24	20	63	17				HUMID

BOTTOM OF HOLE - 30'

HUMID

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/3/76 | AIRPHOTO NO. | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE SLOPING SOUTH | VEGETATION POPLAR & SPRUCE | ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
0					CL	CLAY - SILTY SANDY PEBBLES 3'	F							
2					CL								DAMP	
4						REDDISH BROWN SOFT BEDROCK SHALE?			-22-	56	22		DAMP	
6														
8													DAMP	
10									-22-	53	25		HUMID	
12														
14													HUMID	
16														
18														
20									-30-	49	21		HUMID	
22														
24													HUMID	

BOTTOM OF HOLE - 30'

-35-53-12 HUMID

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 10/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV

TEST HOLE 7

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2						CLAY-SANDY SILTY PEBBLES	F	
2–4						ROCK CHIPS		
4–6					CL	LOW PLASTIC		
6–8								
8–9								
9–10						REDDISH BROWN		
10–24						SOFT BEDROCK		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	67	29	4		DAMP	
4					DAMP	
6						
8	33	49	18		DAMP	
10					HUMID	
12						
14	28	55	17		HUMID	
16						
18						
20					HUMID	
22						
24	23	54	23		HUMID	

BOTTOM OF HOLE - 30'

HUMID

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 5/3/15 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: TOP OF HILL | VEGETATION: | ELEV

TEST HOLE 8

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT 1'	F	
2–4					CL	CLAY SILTY SANDY ROCK CHIPS 3'		
4–6						REDDISH BROWN		
6–8						SOFT BEDROCK		
8–10								
10–12								
12–14								
14–16								
16–18								
18–20								
20–22								
22–24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						DAMP
4	24	58	18			DAMP
8						DAMP
10	24	49	27			HUMID
14						HUMID
20	20	53	27			HUMID
24	23	55	22			HUMID

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 5/3/73 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH Reynolds | RIG: AIR | SURFACE DRAINAGE: SLOPING EAST | VEGETATION: BIRCH & SPRUCE | ELEV:

TEST HOLE 9

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT 1'	F	Vx						
2					CL	CLAY-SANDY GRAVELLY			36	46	18		DAMP	
4						REDDISH BROWN							HUMID	
6						SOFT BEDROCK								
8									48	35	17		HUMID	
10													HUMID	
12														
14									27	55	18		HUMID	
16														
18														
20													HUMID	
22														
24									38	48	14		DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 30'

DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 15/3/76 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 10

CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: HILL (TOP) | VEGETATION SPRUCE-BIRCH-POPLAR | ELEV | MILE B.P. | B,C,S | NUMBER 115

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						CLAY-SILTY SANDY ROCK CHIPS		
4						BEDROCK GROUND DOWN REDDISH BROWN SOFT		
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2						DAMP	
4	33	43	24			DAMP	
6							
8						DAMP	
10	28	48	24			DAMP	
12							
14						DAMP	
16							
18							
20	21	60	19			DAMP	
22							
24						DAMP	

-25-48-27 DAMP

BOTTOM OF HOLE - 30

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 5/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE SLOPING SOUTH | VEGETATION SPRUCE + BIRCH | ELEV

TEST HOLE 11

MILE	B,C,S	NUMBER
B.P.		115

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					CL	CLAY-SILTY SANDY PEBBLES	F	Vx
4						LOW-MED. PLASTIC		
6					CL	SHALE-FRAGMENT		
8								
10						SHALE - SOFT		
12								
14								
16								
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	60	35	5		MOIST	
4					DAMP	
6						
8					DAMP	
10					DAMP	
12						
14					HUMID	
16						
18						
20					HUMID	
22						
24					HUMID	

HUMID

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 5/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: SLOPING WEST | VEGETATION SPRUCE | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		116

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					CL	CLAY - SILTY SANDY ROCK CHIPS 3'		
4						BED ROCK - SOFT SANDY SILTY CLAYEY REDDISH BROWN	F	Vx
6								
8								
10					CL	LOW PLASTIC		
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4	34	48	18		DAMP	
6						
8					HUMID	
10	20	57	23		HUMID	
12						
14					HUMID	
16						
18						
20	23	53	24		HUMID	
22						
24					HUMID	

-21-49-30 HUMID

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

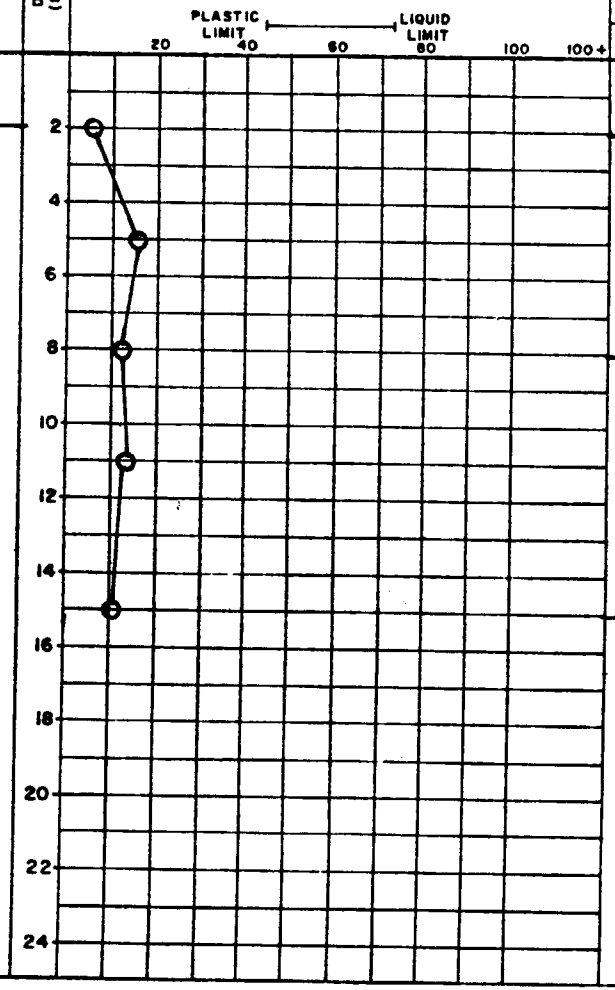
DWN | FIELD ENG. | DATE DRILLED 5/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		116

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'	F	Vx
2						SAND-GRAVELLY		
4					SM	SILTY		
6								
8					SC	CLAYEY		
10								
12						ROCK CHIPS		
14						15'		
16						BOTTOM OF HOLE - 16'		
18								
20								
22								
24								



○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	6	13	7		WET	
4					WET	
6						
8	20	55	25		WET	
10						
12					MOIST	
14						
16	18	45	37		WET	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED: 5/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P		116

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		?
2–8					CL	CLAY - SANDY GRAVELLY LOW PLASTIC CLAY FRAGMENTS		
8–24						SHALE - SILT STONE - SANDSTONE SOFT		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
4	29	55	16			
0–8					MOIST	
8					DAMP	
10	39	50	11		DAMP	
14					DAMP	
20	19	51	30		DAMP	
24	21	50	29		DAMP	

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 15/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		116

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0-1					Pt	PEAT	F						DAMP	
1-10					CL	CLAY - SANDY SILTY GRAVELLY Low PLASTIC			46	42	12		MOIST	
													WET	
10-16						SHALE FRAGS. 10 REDDISH BROWN CLAY - SILTY SANDY PEBBLES		H	38	55	7		DAMP	
													DAMP	
16-18					CL	SHALE FRAGS. Low PLASTIC								
18-30									35	61	4		HUMID	
						SHALE - SILTSTONE SANDSTONE 30' BOTTOM OF HOLE - 30'			-21-	53-	26		HUMID	

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

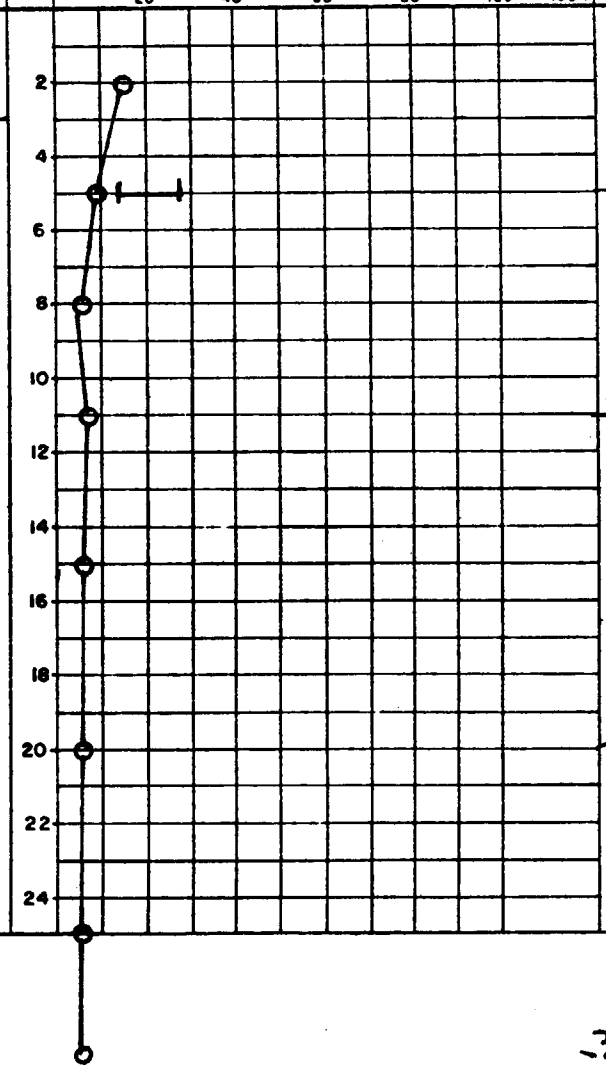
DWN | FIELD ENG | DATE DRILLED 16 3 75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 5

CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: SLOPING WEST | VEGETATION: SPRUCE + BIRCH | ELEV

MILE	B,C,S	NUMBER
BP.		116

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'	F	Vx
2					CL	CLAY - SILTY SANDY PEBBLES		
4						LOW PLASTIC		
6						— 6'		
8						SHALE - SILTSTONE SANDSTONE		
10								
12								
14								
16								
18								
20								
22								
24								



DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2							MOIST
4	54	38	8				DAMP
8							HUMID
10	31	61	8				HUMID
14							HUMID
20	44	52	4				HUMID
24							HUMID
30	37	57	6				HUMID

— 30'

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 5/13/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE SLOPING WEST | VEGETATION POPLAR - SPRUCE | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		116

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	PEAT — 1'	F	V X
2					CL	CLAY - SILTY SANDY PEBBLES		
4					CI			
6						— 5' SHALE - SILTSTONE SANDSTONE		
8								
10								
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2							MOIST
6	40	58	2				WET
8							MOIST
10	28	62	10				DAMP
14							HUMID
20	27	64	9				HUMID
24							HUMID
30	34	63	3				HUMID

— 30'
BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED Sept 15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE SLOPING N-E | VEGETATION BIRCH + SPRUCE | ELEV:

TEST HOLE 7

MILE	B,C,S	NUMBER
BP		116

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					CL	CLAY - SILTY	F	Vx
4						3' SHALE		
6						SAND STONE		
8						SILTSTONE		
10								
12								
14								
16								
18								
20								
22								
24								

DEPTH (FEET)

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
						DAMP
33	52	15				DAMP
						DAMP
47	45	8				HUMID
						HUMID
44	51	5				HUMID
						HUMID
38	59	3				HUMID

30'

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 15/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 8

CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: | VEGETATION Spruce & Birch | ELEV | MILE B.P | B,C,S | NUMBER 116

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — 1'	F	Vx
2					CL	Clay - Silty Sandy Pebbles Low Plastic		
4								
6						— 7'		
8						Shale Silt Stone		
10						Sand Stone		
12								
14						— 15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
							Moist
	55	39	6				Moist
							Humid
	33	63	4				Humid
							Humid

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE + POPLAR 1' | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P		117

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT 1'								
2					SM	SAND - SILTY GRAVELLY	F	Vx	13	58	29		MOIST	
4													DAMP	
6					SW	FINE - COARSE								
8									6	78	16		DAMP	
10						PEBBLES							DAMP	
12														
14									7	84	9		DAMP	
16														
18														
20													WET	
22														
24									3	95	2		SAT	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 1/3/15	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH CURRIE	RIG: AUGER	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P		117

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					CL	CLAY - SANDY PEBBLES SILTY	F	Vx
4						SAND - GRAVELLY FINE - COARSE		
6								
8					SW	PEBBLES		
10								
12								
14						15'		
16						BOTTOM OF HOLE = 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2						DAMP
4	4	79	17			DAMP
8						DAMP
10	5	86	9			DAMP
14						DAMP

ROT3

DRILL HOLE REPORT

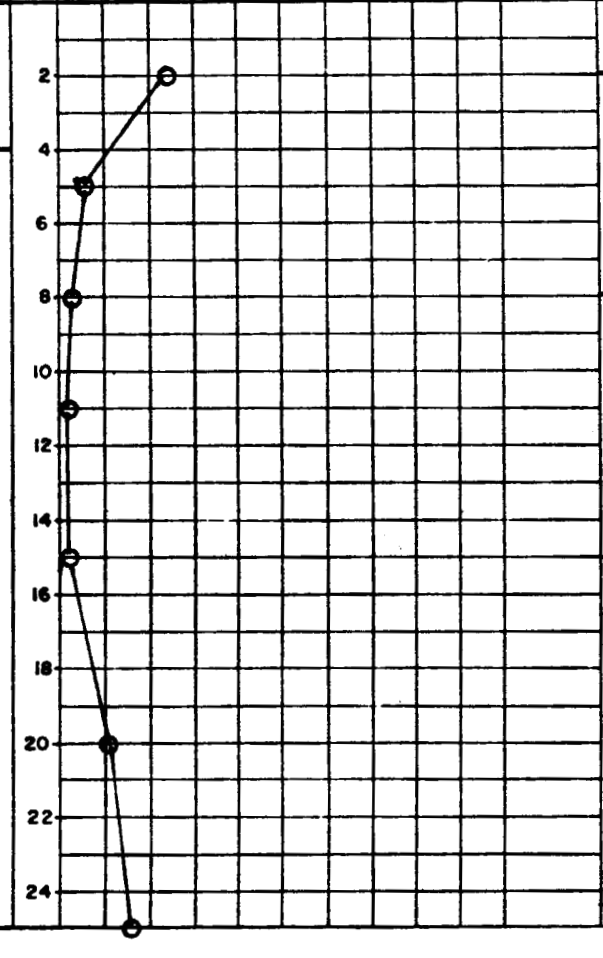
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE + POPLAR | ELEV:

TEST HOLE 3 | MILE | B,C,S | NUMBER
B.P. | | 117

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2					ML	SILT - SANDY	F	V_L - V F
4						4'		
6						SAND - GRAVELLY		
8								
10					GP	PEBBLES		
12								
14								
16								
18								
20						SATURATED @ 20		
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
8	1	90		WET		
				MOIST		
7	7	58	18	DAMP		
				DAMP		
8	8	57		DAMP		
				WET		
7	9	21		WET		

R073

BOTTOM OF HOLE-25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE-BIRCH-POPLAR 1' | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		117

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						SAND - SILTY	F	Vx
4						PEBBLES		
6					SM			
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 16'		
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	20	40	60	80	100	100+
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
						DAMP
10	78	12				DAMP
28	72	0				DAMP
17	77	6				DAMP
						DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE-POPLAR-BIRCH 1' | ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		117

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					SM	SAND - SILTY	F	VL-VR
4								
6						FINE - MED. GRAINED		
8						PEBBLES		
10								
12					SW			
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					H.B	
4					H.B	
6						
8	9		85	6	DAMP	
10						
12					DAMP	
14					DAMP	
16						
18						
20					DAMP	
22						
24	4		96	0	DAMP	

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: Spruce-Poplar-Birch | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P		117

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Vx
2					ML	SILT-SANDY — 2.5'		
4						SAND-SILTY GRAVELLY		
6					SM			
8								
10						PEBBLES		
12								
14						— 15'		
16						BOTTOM OF HOLE - 16'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
0							DAMP
2							
4	12	63	25				DAMP
6							
8							HUMID
10	6	88	6				HUMID
12							
14							HUMID
16							
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED: 3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		118

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0-1					Pt	PEAT								
1-8					CL	CLAY - SILTY MED. PLASTIC			94	6	0		WET	DAMP
8-14					CL				97	3	0		DAMP	DAMP
14-20					CL				97	3	0		DAMP	DAMP
20-24					CL	SANDY - PEBBLES			83	16	1		DAMP	DAMP

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 30

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 8" | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P		118

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					ML	SILT - SANDY		
4						CLAY - SILTY SANDY		
6					CL			
8						— 8'		
10						CLAY - SILTY SANDY	F	V_C - VF
12						LOW PLASTIC		
14					CL	SILTY		
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				WET	
				H.I.B.	
				WET	
				WET	
90	10	0		H.I.B.	
				H.I.B.	
96	4	0		MOIST	
				DAMP	
98	2	0		DAMP	

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 8" | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		118

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						SILT - SANDY	F	Vc - Vx
4					ML			
6								
8						9'		
10						CLAY - SILTY SANDY		
12					CL	MED. PLASTIC		
14						15'		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
4	65	35	0				H.I.3
8							MOIST
10	88	12	0				DAMP
14							DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE 8" | ELEV

TEST HOLE 4

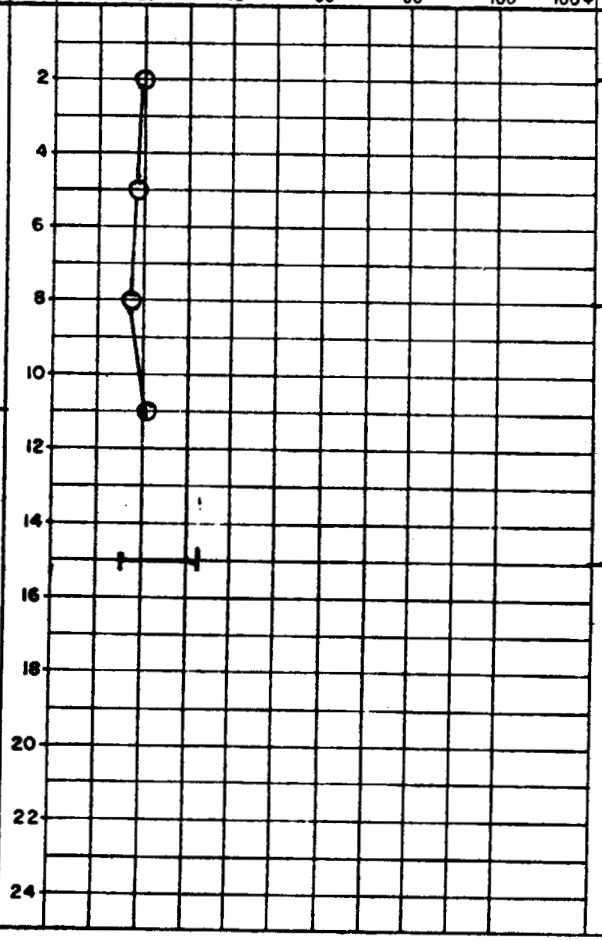
MILE	B,C,S	NUMBER
B.P.		118

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						SILT - SANDY		
4					ML		F	Vc-Vr
6								
8						9'		
10						CLAY - SILTY		
12					CI	MED. PLASTIC		
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	5	55	45	0	WET		
4					H.I.B.		
6					H.I.B.		
8	6	66	34	0	H.I.B.		
10					DAMP		
12							
14					H.I.B.		
16	9	96	4	0			

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 17/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 8" | ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		118

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT 1'								
2						CLAY - SILTY ORG. TO 3'	F						H.I.B.	
4									87	12	1		MOIST	
6						MED. PLASTIC								
8													MOIST	
10					Cl				92	7	1		DAMP	
12														
14													H.I.B.	
16														
18						SANDY - PEBBLES TILL 18'									
20									67	25	8		DAMP	
22														
24													DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/65 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION SPRUCE + POPLAR | ELEV

TEST HOLE 6

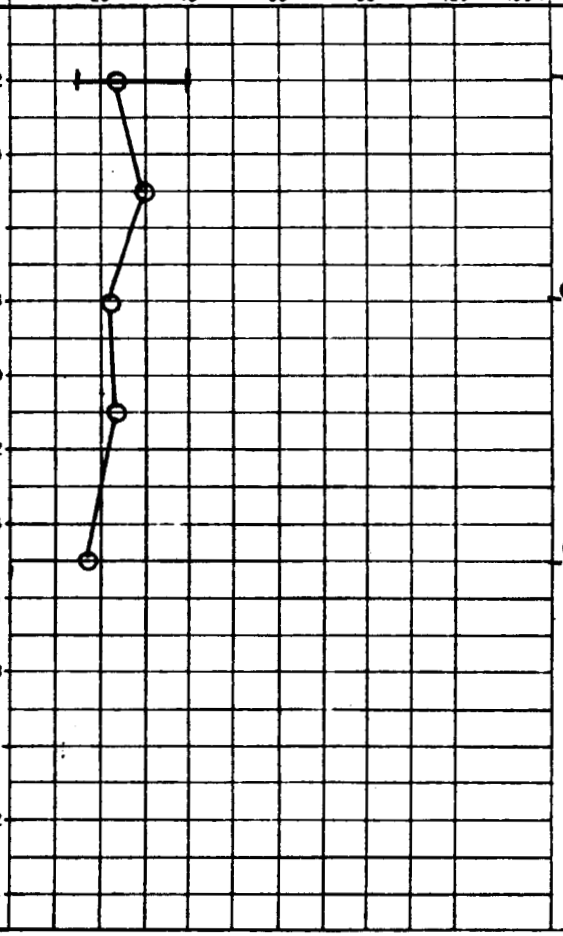
MILE	B,C,S	NUMBER
B.P.		118

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					Pt	PEAT 1'	F	VL-V						
2						CLAY - SILTY SANDY PEBBLES			85	13	2		MOIST	
4													MOIST	
6						SILTY								
8					CI	MED. PLASTIC			95	5	0		MOIST	
10													DAMP	
12														
14						15'			91	8	1		DAMP	
16						BOTTOM OF HOLE - 15'								
18														
20														
22														
24														

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



R073

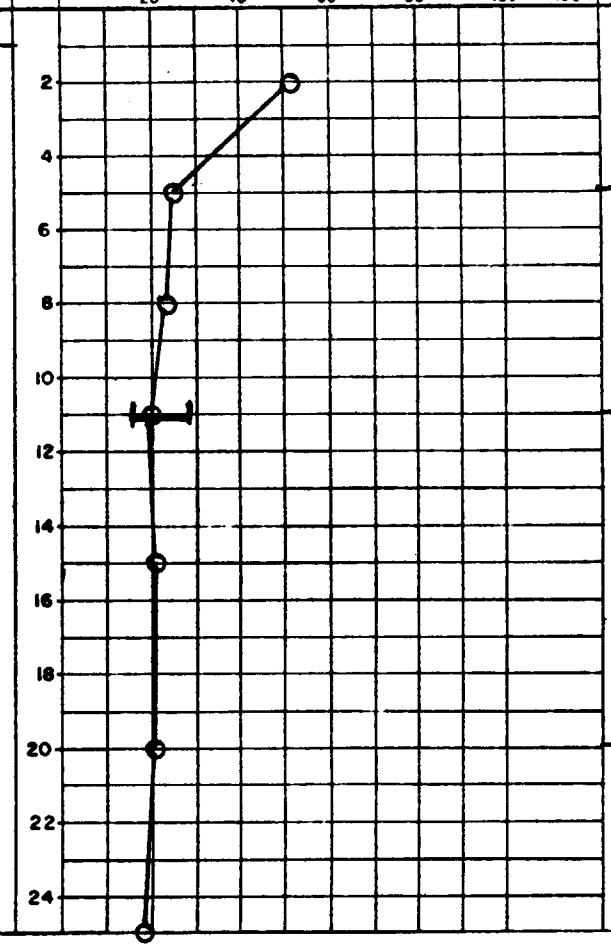
DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV:

TEST HOLE 7
MILE: B.P. | B,C,S: | NUMBER: 118

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'	F	
1						CLAY-SILTY ORGANIC TO 5'		
2								
3						LOW-MED. PLASTIC		
4								
5						SANDY-PEBBLES		
6					CL			
7								
8					CL			
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				WET		
75	25	0		WET		
				H.I.B WET		
81	17	2		DAMP		
				DAMP		
93	6	1		DAMP		
				DAMP		

R073

Bottom of Hole - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 11/3/TS | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		119

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		V_s
2–3					CL	CLAY-SILTY ORG. TO 2'3		
3–12					SW	SAND - SILTY GRAVELLY		$V_c - V_r$
12–24					CL	CLAY - SILTY SANDY GRAVELLY Low PLASTIC	F	V_x

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2							FREE WATER
4							WET
8	22	43	35				WET
10							WET
15	56	32	12				DAMP
20							DAMP
24	56	33	11				DAMP

DAMP

BOTTOM OF HOLE - 30'

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 5" | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P		119

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		Vc-Vr
2–4					CL	CLAY - SILTY		
4					CL	— 4'		
4–8					SW	SAND - GRAVELLY	F	
8–14					SM	SILTY PEBBLES		
14						— 15'		
14–16						BOTTOM OF HOLE - 15'		

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	96	4	0				DAMP
4							DAMP
8	7	79	14				WET
10							SAT
14	22	74	4				FREE WATER

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 11/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 5" | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		119

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		LOW
2–4					CL	CLAY - SILTY SANDY — 4'		
4–8					GW	GRAVEL - SANDY	F	
8–15						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4–6	9	50	41		DAMP	
8					DAMP	
10–12	11	37	52		WET	
14					WET	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: Reynolds | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE 9
MILE: B.P | B,C,S: | NUMBER: 119

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT — 1'									
2						CLAY - SILTY SANDY			73	27	0				FREE WATER
4															
6															DAMP
8						PEBBLES			80	19	1				MOIST
10						LOW PLASTIC		?							
12															DAMP
14					CL				59	31	10				DAMP
16															
18															
20															DAMP
22															
24									54	37	9				DAMP

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DAMP

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH. BERNARDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		119

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2					CL	CLAY - SILTY MED. PLASTIC		
4						4	F	Vx
6					GC	GRAVEL - SAND - CLAY MIX		
8						9'		
10						CLAY - SILTY SANDY GRAVELLY LOW PLASTIC		
12								
14								
16					CL		F	PARTIALLY FROZEN
18								
20								
22						PEBBLES		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	91	9	0				MOIST
4							DAMP
8	24	37	39				DAMP
10							DAMP
16	53	35	12				DAMP
20							DAMP
24	59	39	2				DAMP

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH. REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		119

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2						SILT-		V_C-V_r
4						CLAYEY		I
6					ML			V_S
8							F	
10								
12								
14								
15								
16					SM	SAND - SILTY		
					ML	SILT - SANDY		
18								
						CLAY - SILTY SANDY PEBBLES		
20								
22								
24								V_X

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
				WET	
				MOIST	
9	1	9	0		
				SAT	
9	2	8	0		
5	3	4	7	0	WET
				DAMP	
6	1	3	5	4	DAMP

DAMP

BOTTOM OF HOLE - 30

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P		120

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		V_s
2						CLAY - SILTY SANDY GRAVELLY	F	
6					CL	LOW PLASTIC		
12						12' BOTTOM OF HOLE - 12' REFUSAL		

O = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	70	17	13				FROST
6							WET
8	57	20	13				DAMP
12							DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH QUIRK | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		120

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					CL	CLAY-SILTY LOW PLASTIC	F	Vs
4								
6						SANDY PEBBLES 9'		?
8						BOTTOM OF HOLE - 9'		
10						REFUSAL		
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	9	4	60		SAT.	
4					WET	
8	6	1	33	6	DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED | AIRPHOTO NO: | CHAINAGE | OFFSET

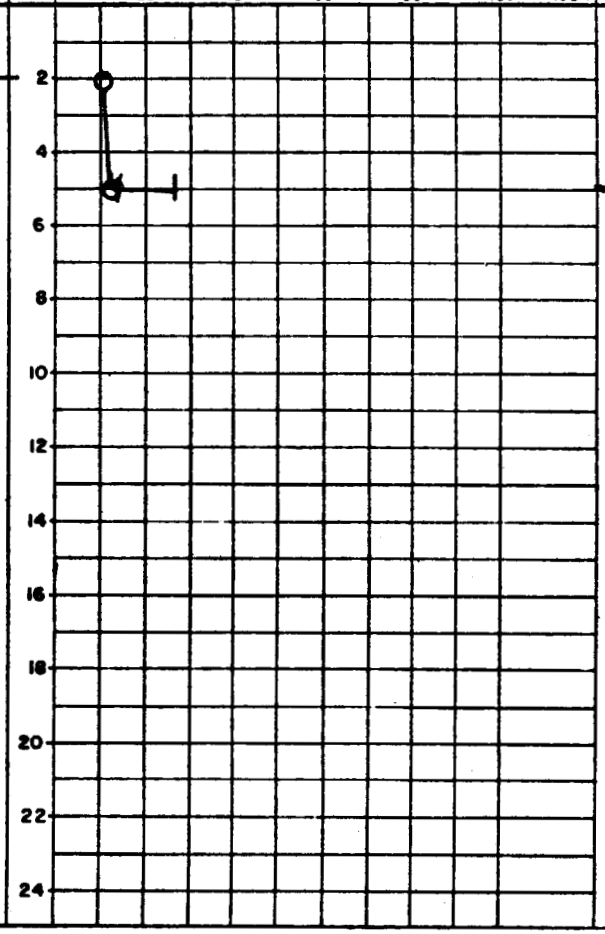
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		120

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 5'		
2					CL	CLAY - SILTY SANDY PEBBLES LOW PLASTIC	F	Vx
4								
6						— 7'		
8						BOTTOM OF HOLE - 7'		
10						REFUSAL		
12								
14								
16								
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS					
CLAY	SILT	SAND	GRAVEL	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
%	%	%	%		
				DAMP	
61	35	4		DAMP	

RDP3

DRILL HOLE REPORT

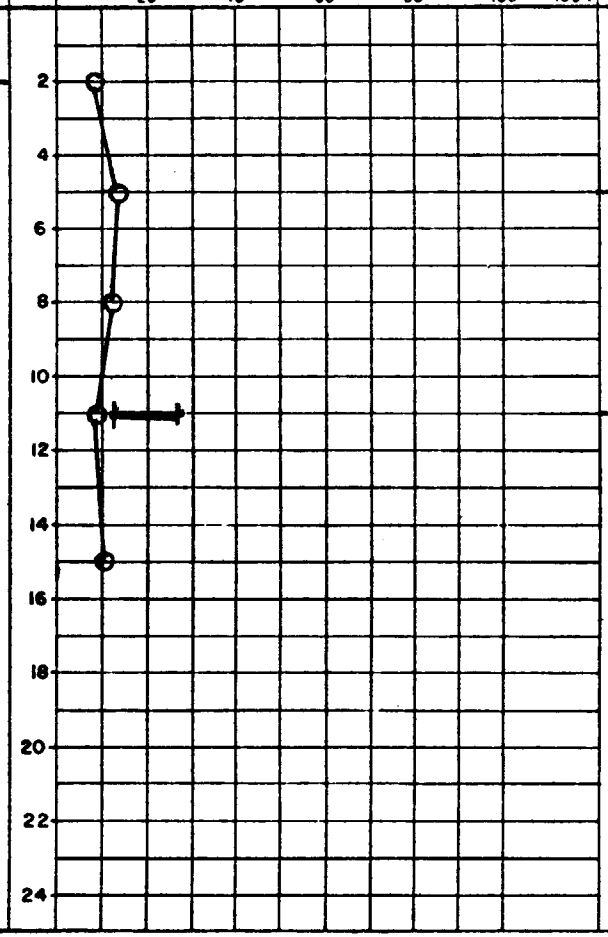
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE - TAMARACK | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P		120

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'	F	VK
2						CLAY - SILTY/ SANDY PEBBLES		
4						LOW PLASTIC		
6					CL			
8								
10						GRAVELLY		
12								
14								
16						17'		
18						BOTTOM OF HOLE - 17		
20						REFUSAL		
22								
24								



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2							DAMP
4							DAMP
6	62	29	9				
8							DAMP
10							
12	46	26	28				DAMP
14							
16							DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 9/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH CURRIE	RIG: ALI GER	SURFACE DRAINAGE:	VEGETATION SPRUCE + BIRCH	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P		120

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2						CLAY - SILTY		
4						SANDY		
6						GRAVELLY	F	Vx
8					CL	LOW PLASTIC		
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18						REFUSAL		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	91	9	0		DAMP	
4					DAMP	
8	47	27	26		DAMP	
10					DAMP	
14	58	33	9		DAMP	
					H.I.B	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

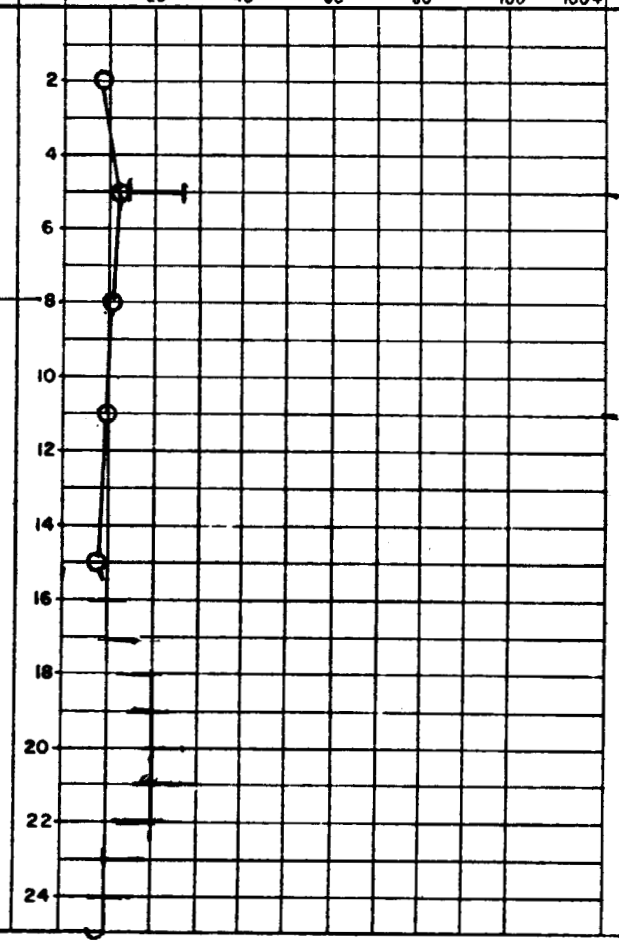
DWN: | FIELD ENG: | DATE DRILLED: [illegible]/31/[illegible] | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: CURRIE | RIG: AUGER | SURFACE DRAINAGE: | VEGETATION: SPRUCE 3" | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		120

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	PEAT .5'		
2						CLAY - SILTY SANDY PEBBLES	F	Vx
4								
6						LOW PLASTIC		
8					CL			
10						GRAVELLY		
12								
14								
16								
18						BOTTOM OF HOLE: 17'		
20						REFUSAL		
22								
24								



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				DAMP	
56	36	8		DAMP	
				DAMP	
46	28	32		M.I.B.	
				DAMP	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 7/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH CURRIE | RIG AUGER | SURFACE DRAINAGE: | VEGETATION BIRCH & SPRUCE | ELEV

TEST HOLE 7

MILE	B,C,S	NUMBER
B.P.		120

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT .5'		
2					ML / CL	CLAY - SILT - SAND		
4						CLAY - SILTY SANDY PEBBLES	F	Vx
6								
8						9'		
10						BOTTOM OF HOLE 9'		
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					MOIST		
4	49	30	21		DAMP		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

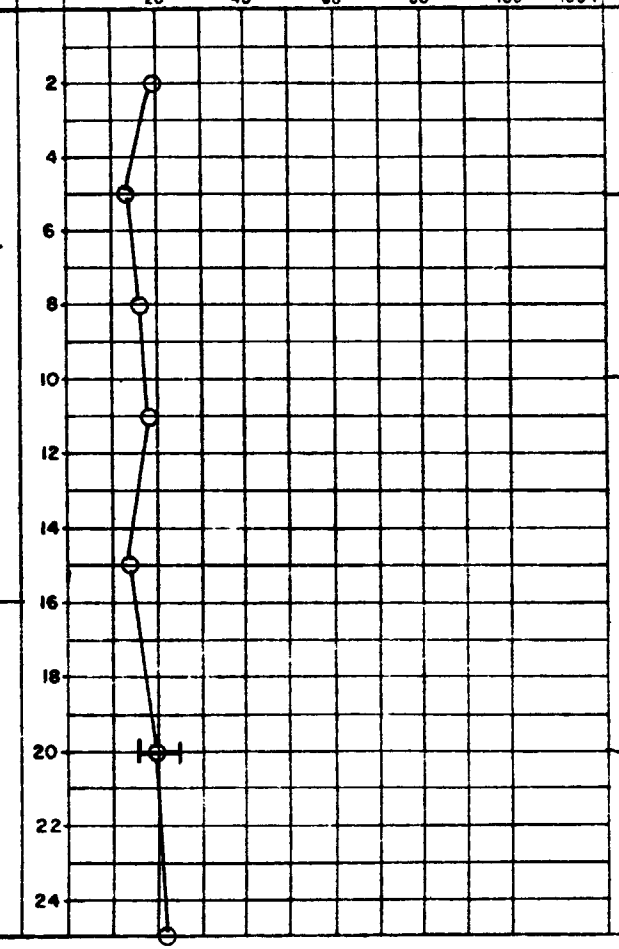
DWN | FIELD ENG. | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH CURRIE | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: POPLAR + SPRUCE 12' | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
~~191~~		2

BP REMARKS 121

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					SM	SAND - SILTY MED. TO FINE GRAINED		
4								
6								Vc - Vr
8					Sc	CLAYEY	F	
10								
12					Sm			
14								
16								
18								
20						— 20'		
22					CL	CLAY - SILTY SANDY LOW PLASTIC		
24								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					SAT.	
2						
4	15	85	0		H.L.B.	
6						
8					H.L.B.	
10	25	75	0		SAT.	
12						
14					MOIST SAT.	
16						
18						
20	87	13	0		MOIST	
22						
24					MOIST	

BOTTOM OF HOLE. 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 18/3/73 | AIRPHOTO NO: | CHAINAGE: | OFFSET

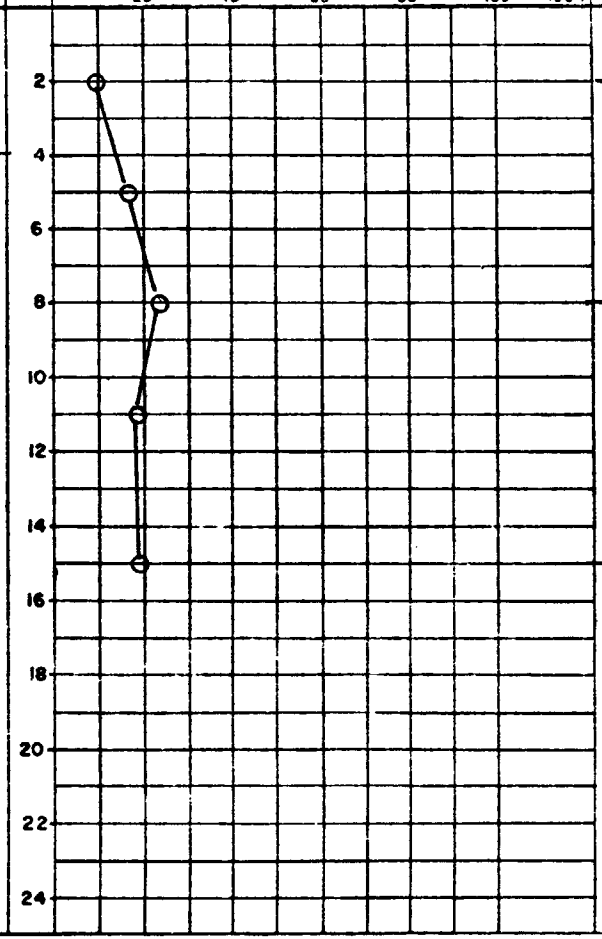
CKD | TECH D. CURRIE | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: POPLAR & SPRUCE | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		121

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						.5'		
2					SM	SAND - SILTY	F	Vx
4								
6					SP	FINE - MED. GRAINED		
8								
10								
12								
14								
						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
	4	6	53	1	Moist	
					Moist	
	7		92	1	SAT.	
					WET	
	5		95	0	WET	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

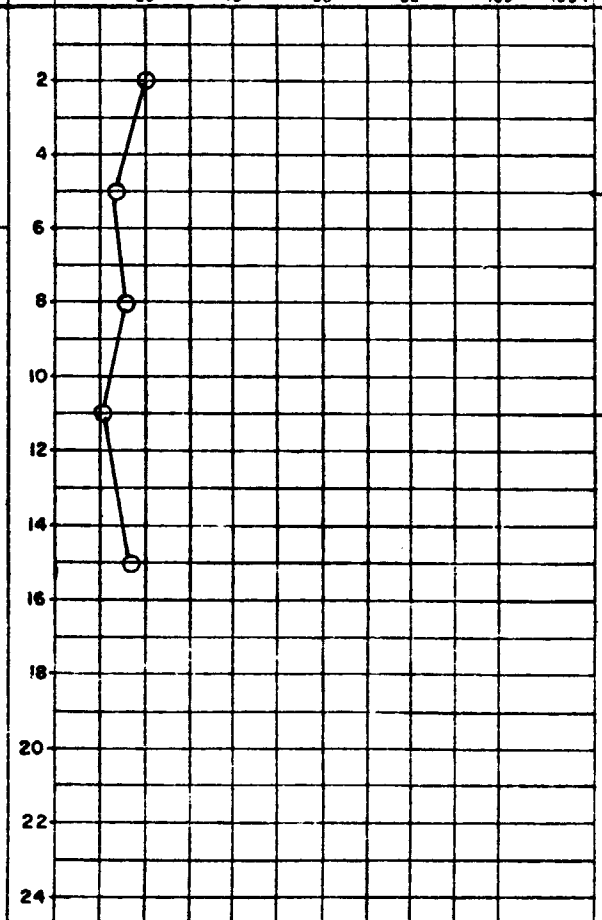
DWN	FIELD ENG	DATE DRILLED 18/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH D. CURRIE	RIG B-50	SURFACE DRAINAGE:	VEGETATION: POPLAR & SPRUCE 12"	ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
P.P.		121

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT .5'		
2					SM	SAND - SILTY	F	VS
4								
6								
8								
10					SW	SAND - FINE - MED.		
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT	
4	20	79	1		SAT	
6						
8					WET	
10						
12	4	95	1		WET	
14						
16					WET	
18						
20						
22						
24						

ROP3

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH	RIG	SURFACE DRAINAGE	VEGETATION	ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		121

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 5'	F	
2						SAND - SILTY		
4								
6					SP	FINE - MED. GRAINED		
8								
10								
12								
14						SATURATED		
						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2	20	79	1		WET		
4					WET		
6							
8	3	97	0		WET		
10							
12					WET		
14							
16	6	93	1		WET		
18							
20							
22							
24							

R079

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 19/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH D. CURRIE	RIG B 50	SURFACE DRAINAGE:	VEGETATION: POPLAR & SPRUCE	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		121

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT — .5'									
2					ML	SILT - SANDY	F	Vs					SAT.		
4						SAND - SILTY			85-	15	0		WET		
6															
8					SM								WET		
10									45-	55	0		WET		
12															
14						15'							WET		
16						BOTTOM OF HOLE - 15'									
18															
20															
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		122

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0–2					Pt	PEAT 2'							SAT.		FREE WATER
2–4					SM	SAND - ORGANIC SILTY 4'			22	77	1		SAT.		
4–6						SAND - SILTY	F	VS							
8					SM			&	10	90	0		WET		
10													SAT.		
12								VC - VR							
14–16									19	81	0		WET		
18					SM										
20													SAT.		
22–24									6	94	0		WET		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

WET

BOTTOM OF HOLE. 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/5/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		122

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		
2–14					SM	SAND - SILTY	F	Vs
14						15'		
14–16						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	21	78	1		WET	
4					WET	
8	22	78	0		SAT.	
12					SAT.	
16	16	84	0		SAT.	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 19/2/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH Reynolds	RIG: Air	SURFACE DRAINAGE: Flat	VEGETATION: Spruce	ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		122

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'		
4						SAND - SILTY		
6								
8					SM		F	
10								Vs
12								
14								
16								
18								
20					SM			
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					MOST	
4					SAT.	
6	18	82	0			
8					WET	
10	16	84	0		SAT.	
12						
14					SAT.	
16						
18						
20	37	63	0		WET	
22						
24					SAT.	

F

9-91-0 Free water

Bottom of Hole. 30

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		122

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT									FREE WATER
2						2'									
						SAND-SILTY									
4									11	89	0				WET
6							F								
8					SM										SAT.
10								V_s	11	89	0				SAT
12															
14															SAT
16															
18															
20									28	72	0				FREE WATER
22															
24															FREE WATER

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

CL CLAY-SILTY SANDY F

-75-25-0 WET

BOTTOM OF HOLE 30'

OLD SEISMIC LINE

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED MAY 9/75	AIRPHOTO NO:	CHAINAGE OLD SEISMIC LINE	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE: FLAT	VEGETATION: SPRUCE	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		122

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'	F	
2						SAND - SILTY MED - FINE		
4								
6						SILTY		
8					SM			
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2							MOIST
4							MOIST
6	10	90	0				
8							SAT.
10							FREE WATER
12	14	86	0				
14							MOIST H.I.B.
16							
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 19/3/76 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: A113 | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.D.		122

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–4					Sc	SAND - SILTY CLAYEY	F	Vs
4–6								
6–8					SM	SILTY		
8–10								
10–12								
12–14								
14–16								
16–18					SM			
18–20								
20–22								
22–24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS					
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	35	65	0				FREE WATER
4							WET
8	13	87	0				SAT.
10							SAT
14	13	87	0				SAT
20							FREE WATER
24	9	91	0				FREE WATER

F

WET

BOTTOM OF HOLE 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 18/3/TS	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH D. CURRIE	RIG A-50	SURFACE DRAINAGE:	VEGETATION: SPRUCE & BIRCH	ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		123

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					Pt	PEAT .5'									
2					SM	SILT - SAND MIX		VL-VY	2					WET	
4									4						
6					ML	SILT - SANDY 6'			6	66	34	0		H.I.B	
8						CLAY - SILTY MED. PLASTIC			8					MOIST	
10									10						
12					CI		F		12	95	5	0		MOIST	
14									14						
16									16					WAT	
18									18						
20								VL	20	97	3	0		SAT.	
22									22						
24									24					SAT.	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 18/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH D. CURRIE | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE - BIRCH 8" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		123

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT — .5'		
2					CL	CLAY - SILTY SANDY LOW PLASTIC		
6					CI	MED. PLASTIC	F	$V_c - V_r$
						15' BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	55	45	0		H.I.B		
6					WET		
8	78	22	0		WET		
10					H.I.B		
14	95	5	0		H.I.B		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 18/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH D. CURRIE | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE - BIRCH 6" | ELEV

TEST HOLE 3

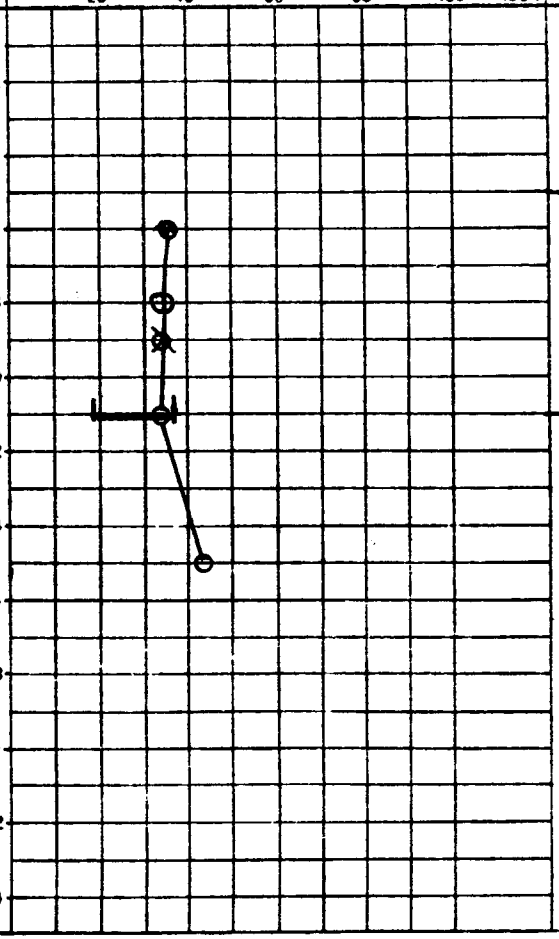
MILE | B,C,S | NUMBER
B.P. | | 123

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SM	SAND - SILTY A=BBLES		
4					SM			
6					SM	— 7'	F	$V_C - V_Y$
8					CL	CLAY - SILTY MED. PLASTIC		
10					CL			
12					CL			
14					CL	— 15'		
16						BOTTOM OF HOLE - 16'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				H.13	
32	67	1		H.13.	
				WET	
98	2	0		WET	
				H.13.	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 19 73 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH D. CURRIE | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: Birch - Spruce & | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		123

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT — 5'								
2					CL	CLAY - SILT - SAND Low Plastic			50	50	0		H.I	B
4													Moist	
6						— 7'	F	Vs						
8					SM	SAND - SILTY			17	83	0		SAT.	
10						CLAYEY								
12					SC								SAT.	
14						— 15'			38	62	0		FREE WATER	
16						BOTTOM OF HOLE. 15'								
18														
20														
22														
24														

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 8/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH D. CURRIE	RIG B-50	SURFACE DRAINAGE:	VEGETATION: Birch & Spruce 8"	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		123

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT 15'		
4						CLAY - SILTY		
6						MED. PLASTIC	F	
8					CI			
10								
12						14'		
14					SM	SAND - SILTY 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					WET		
4							
6	98	2	0		WET		
8					WET		
10							
12	98	2	0		WET		
14							
16					WET		
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 1

CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE | VEGETATION Spruce & Poplar 12" | ELEV | MILE B.P. | B,C,S | NUMBER 124

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT								
2						2'			21	79	0		WET	
4					SM	SAND - SILTY							SAT.	
6														
8									13	86	1		SAT.	
10					Sc	CLAYEY	F	Vs					SAT.	
12														
14						14'			78	22	0		MOIST	
16						CLAY - SILTY SANDY MED. PLASTIC								
18					Cl									
20													WET	
22														
24									66	34	0		WET	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

27'

Bottom of Hole - 27'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 2

CKD | TECH Reynolds | RIG 412 | SURFACE DRAINAGE: | VEGETATION Spruce & Poplar 6" | ELEV | MILE B.P. | B,C,S | NUMBER 124

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt.	Peat 2'		
2						Sand - Silty		
4							F	
6								
8					Sm			
10								Vs
12								
14								
16								
18								
20					Sm			
22								
24								

F

Bottom of Hole 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
4							Freewater
5	15	85	0				Freewater
8							Wet
10	8	92	0				Wet
14							Sat.
20	10	89	1				Freewater
24							Sat
26	13	87	0				Wet

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 14/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG B-50 | SURFACE DRAINAGE | VEGETATION SPRUCE + POPLAR | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		124

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
					Pt	PEAT 1'		VS							
2						CLAY - SILTY SANDY LOW PLASTIC									Freshwater
4									55	44	1				H.I.3.
6							F								
8					CL										WET
10									58	42	0				WET.
12															
14						15'									SAT
16						BOTTOM OF HOLE - 15'									
18															
20															
22															
24															

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG AIR | SURFACE DRAINAGE: | VEGETATION Spruce & Poplar 8" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
		124

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	Peat — 1'								
2					SM	Sand - Silty Med - Fine		Vs &	14	86	0		Moist	
4													Sat.	
6														
8									8	92	0		Wet	
10					SC	Clayey		Vc - Vr					Sat.	
12							F							
14					SP	Med - Fine			6	94	0		Moist	
16														
18														
20					SM	Silty							Sat.	
22														
24									64	36	0		Wet	

CL - Clay - Silty Sandy — 26'

Bottom of Hole - 26'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH	RIG	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		124

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Pt	PEAT 2'							WET	
4						SAND-ORGANIC								
6					ML	SILT		Vs	93	7	0		WET	
8					SC	SAND CLAYEY SILTY		&					SAT.	
10							F							
12								Vc-Vr	43	57	0		WET	
14					SM	SILTY								
16													WET	
18														
20									35	65	0		SAT.	
22														
24													WET	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

BOTTOM OF HOLE - 30'

-30-70-0 SAT.

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		125

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Vs
3'								
4					Sc	SAND - SILTY CLAYEY		
6								
8					SM	SILTY	F	Vc-Vr
10								
11'								
12					ML	SILT - SANDY		
14								
15								
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

599

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				WET	
35	62	0		SAT.	
				MOIST	
60	40	0		WET	
				WET	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 1963 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
BP.		125

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1'		
					Sc	SAND - CLAYEY SILTY		
						— 7'	F	Vs
					ML	SILT - SANDY		
						— 15'		
						BOTTOM OF HOLE -15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	24	76	0				FREE WATER
6							FREE WATER
8	80	20	0				SAT.
12							SAT.
14	19	81	0				FREE WATER

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG 412 | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		125

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					Pt	PEAT 1'								
2					SC	SAND - SILTY CLAYEY							SAT.	
4					SM	SILTY	F	Vs & Vc-Vr	12	88	0		WET	
6														
8													SAT	
10									13	87	0		SAT.	
12														
14													SAT.	
16														
18					SM									
20									13	87	0		WET	
22														
24													WET	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

30'

BOTTOM OF HOLE. 30

- 19 - 81 - 0 WET

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		125

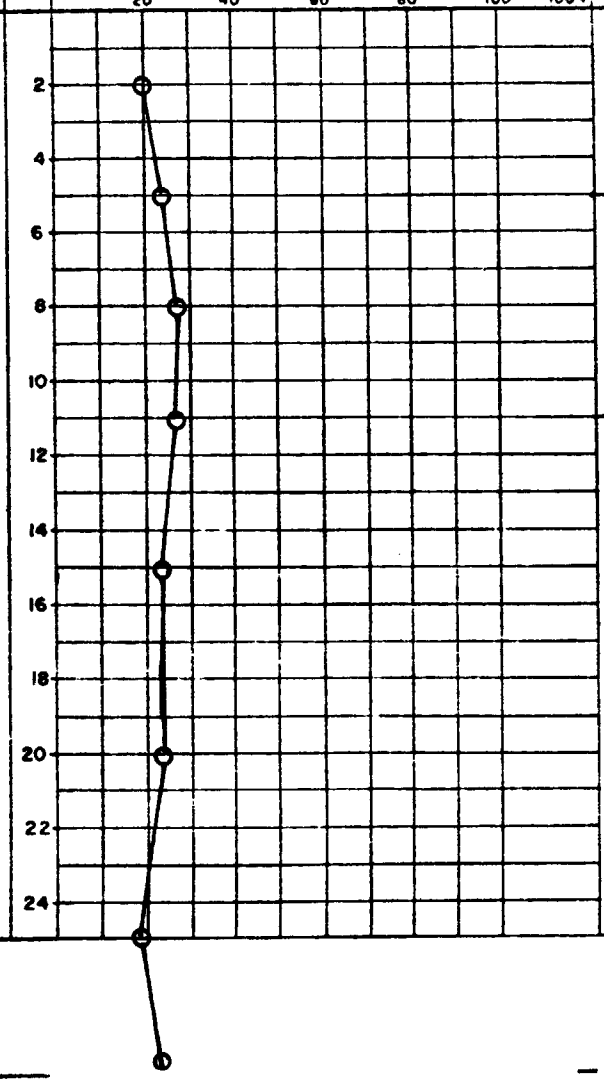
DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						SAND - SILTY AND PINK		
4								
6					SM		F	
8								
10								Vs
12								
14								
16								
18					SM			
20								
22								
24								

F

BOTTOM OF HOLE - 30'

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				SAT.		
						FREE WATER
						FREE WATER
						FREE WATER
						FREE WATER
				SAT.		
				SAT.		

16-84 O

15-85 O

-11-89-O FREE WATER

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 5" | ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
BP.		125

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt.	PEAT 1'		
2					SC	SAND - SILTY CLAYEY		
4					SM	SILTY	F	Vs
6								
8								
10								
12					SM			
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
4	24	76	0			FROST/WATER
8						SAT.
10	13	87	0			SAT.
14						SAT
20	12	88	0			SAT.
24						WET

CLAY - SILTY
CL SANDY F

-80-20-0 Moist

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2015 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: A12 | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		126

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Vx
2					GW	GRAVEL - SAND MIXTURE		
4								
6						— 6'		
8						SAND. PEBBLES FINE - COARSE		
10					SW			
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18						CAVING		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
6	1	57	42		WET	
8					WET	
10	4	93	3		WET	
14					MOIST	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: Flat | VEGETATION: Spruce | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		126

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat 1'	F	
2					SM	Sand - Silty Gravelly		
4						4'		
6						Sand - Gravel Mix.		
8					GP			
10								
12								
14						15'		
16						Bottom of Hole - 15'		
18						Caving		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	20	-	60	20	WET	
4					WET	
6						
8	5	-	51	44	WET	
10					WET	
12						
14	2	-	51	47	WET	
16						
18						
20						
22						
24						

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/7/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH REYNOLDS | RIG: 418 | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE - POPLAR 6" | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		126

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'	F	Vx
2						SAND-GRAVELLY		
4					SW	FINE - COARSE		
6								
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18						CAVING		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
					Moist	
	5	70	25		WET	
					WET	
	2	60	38		WET	
					WET	

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 26/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 8" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		126

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'	F	Vx
					CL	CLAY - SANDY SILTY PEBBLES		
4						4'		
					GW	GRAVEL - SANDY		
8								
10						11'		
					SM	SAND - SILTY GRAVELLY		
14						15'		
16						BOTTOM OF HOLE - 15'		
						CAVING		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	56	37	7		DAMP	
4					WET	
8	3	41	56		WET	
12					WET	
14	12	65	23		WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: Flat | VEGETATION Poplar-Spruce willows | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		126

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — 1'	F	Vx
2					SP	SAND - GRAVELLY		
4								
6								
8								
10						— 11'		
12					GP	GRAVEL - SANDY		
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18						CAVING		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (PCF)	DRY DENSITY (PCF)
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
10		51	39	WET	
				WET	
2		45	53	WET	
				WET	

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: POPLAR & SPRUCE | ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		126

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'	F	Vc–Vf
2						SAND - SILTY PEBBLES		
4								
6					SM			
8								
10								
12					ML	SILT - SANDY GRAVELLY — 12'		
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18						CAVING		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	11	80	9		WET	
4					WET	
8	4	84	12		WET	
12					WET	
14	48	26	26		WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/76 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG D18 | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.D.		127

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					H	PEAT .5'		
2					SM	SAND - SILTY	F	Vx
4								
6								
8						8'		
10					ML	SILT - SANDY CLAYEY		
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				MOIST		
27	73	0		WET		
				WET		
79	21	0		SAT.		
				WET		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE-POPLAR | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		127

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2					SP	SAND - FINE	F	Vc-Vr
4								
6					SM	SILTY		
8								
10					SP	FINE		
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18						CAVING		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	7	93	0		WET	
4					WET	
6						
8	15	85	0		WET	
10					WET	
12						
14						
16	5	95	0		WET	
18						
20						
22						
24						

ROTS

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/3/75 | AIRPHOTO NO | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE FLAT | VEGETATION POPLAR & SPRUCE | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
BP		127

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
						5'		
2					CL	CLAY - SANDY SILTY LOW PLASTIC	F	Vc - Vv
						4'		
4						SAND - SILTY CLAYEY		
6								
8					ML			
10								
12								
14								
						15'		
16						BOTTOM OF HOLE - 15'		
18						CAVING		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0						
2					WET	
4	44	56	0		MOIST	
6						
8					MOIST	
10						
12	40	60	0		WET	
14						
15					WET	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20 & 15 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 8' | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		127

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT .5'									
2					SM	SAND - SILTY	F	Vx	36	64	0		MOIST		
4													MOIST		
6															
8									39	61	0		MOIST		
10					SM										
12													MOIST		
14															
16													MOIST		
18															
20													WET		
22															
24					SP	FINE			4	96	0		WET		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

WET

BOTTOM OF HOLE - 30

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE & POPLAR | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		127

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT .5'		
2					SC	SAND - SILTY CLAYEY	F	Vx
4					GM	SILTY		
6					SP	FINE		
8								
10								
12								
14						PEBBLES 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	36	64	0		MOIST	
4					MOIST	
8	2	98	0		MOIST	
10					WET	
14	7	89	4		WET	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

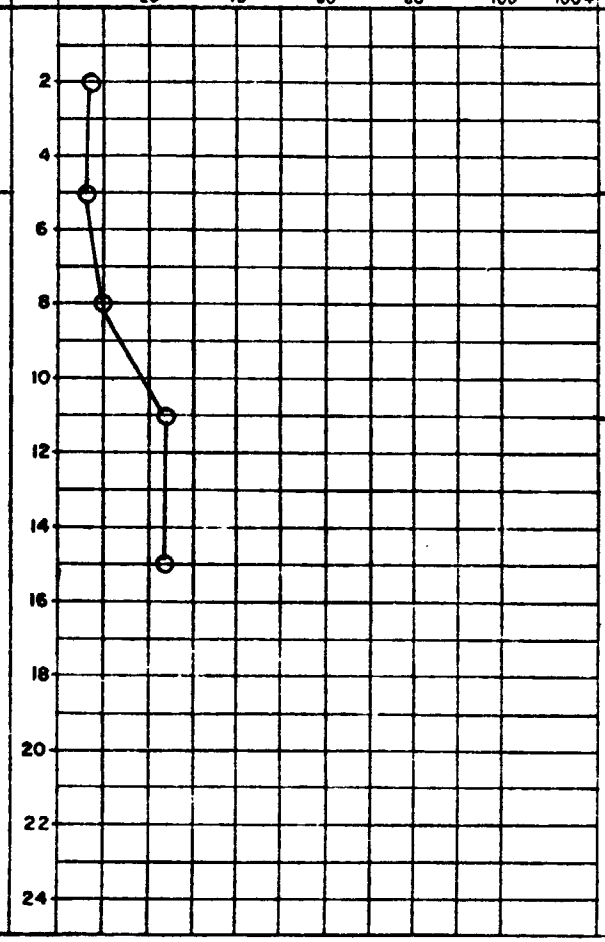
CKD | TECH Raynolds | RIG 412 | SURFACE DRAINAGE: FLAT | VEGETATION: Spruce + Poplar 6' | ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P		127

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Palsa		
						5'		
2					Sp	SAND - Fine	F	Vx
4								
6								
8								
10					Sc	Clayey Silty		
12								
14								
						15'		
16						Bottom of Hole - 15		
18								
20								
22								
24								



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	
0							
2							Moist
4							Moist
6							
8							Moist
10							
12							
14							Sat.
16							
18							
20							
22							
24							

7 - 93 0

19 - 81 0 Free Water

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 2-13-75	AIRPHOTO NO:	CHAINAGE CNJ. WINTER ROAD	OFFSET
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE 7

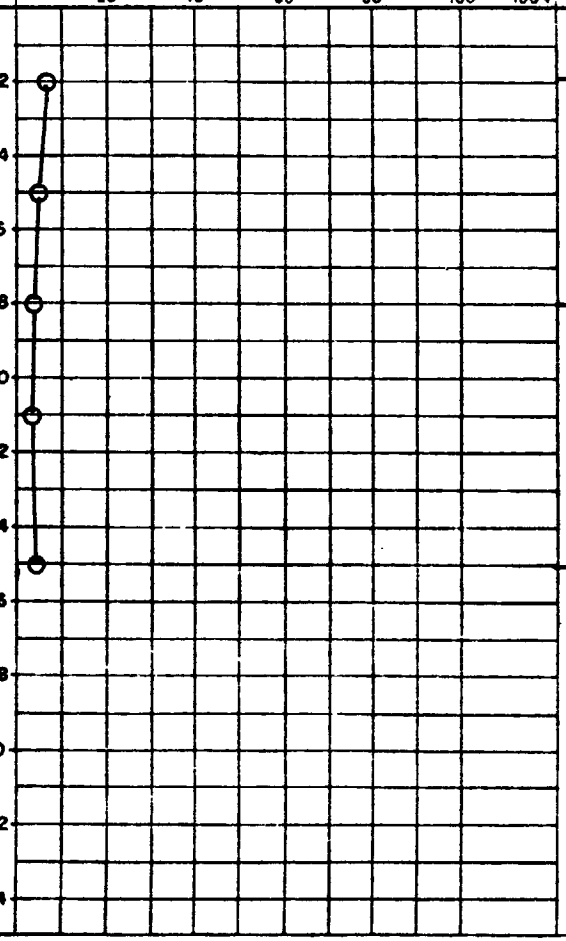
MILE	B,C,S	NUMBER
BP		127

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT — 5'								
2					SM	SAND - SILTY CLAYEY	F	Vx	13	86	1		Moist	
4													Moist	
6					SP	FINE								
8									2	98	0		Moist	
10													Moist	
12														
14									3	97	0		Moist	
15						BOTTOM OF HOLE 15'								
16						CAVING								
18														
20														
22														
24														

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 10/3/75 | AIRPHOTO NO: | CHAINAGE: C.N.T. LINE | OFFSET

CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV

TEST HOLE 8

MILE	B,C,S	NUMBER
B.R		127

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 5'		
2					ML	SILT - CLAYEY SANDY — 3'	F	
4					SM	SAND - SILTY		
6								
8						— 8'		
10					CL	CLAY - SILTY SANDY LOW PLASTIC		
12								
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					MOIST	
4	12	88	0		WET	
6						
8					MOIST	
10	54	46	0		MOIST	
12						
14						
16					DAMP	
18						
20						
22						
24						

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

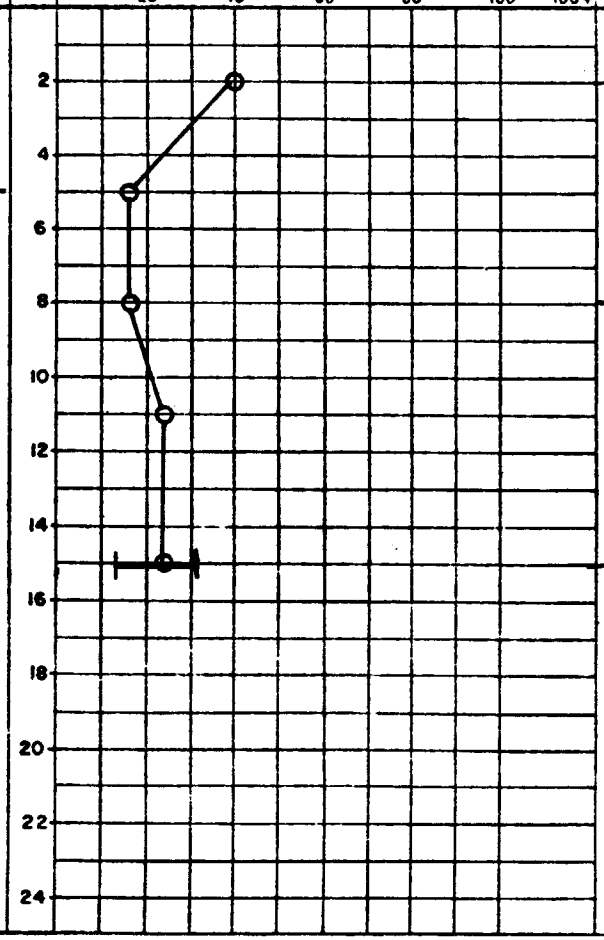
DWN	FIELD ENG	DATE DRILLED 20/3/75	AIRPHOTO NO:	CHAINAGE C.N.T. LINE	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE: FLAT	VEGETATION	ELEV

TEST HOLE 9

MILE	B,C,S	NUMBER
B.P.		127

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 5'		
2					CL	CLAY - SANDY SILTY ORGANIC — 3'	F	Vs
4					SC	SAND - CLAYEY SILTY		
6								
8								
10						— 11'		
12					CL / CI	CLAY - SILTY - SANDY MED. PLASTIC		
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS					
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
52	47	1		SAT.	
				WET	
17	83	0		WET	
				WET	
67	33	0		WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: FLAT | VEGETATION: Spruce 8" | ELEV

TEST HOLE 2

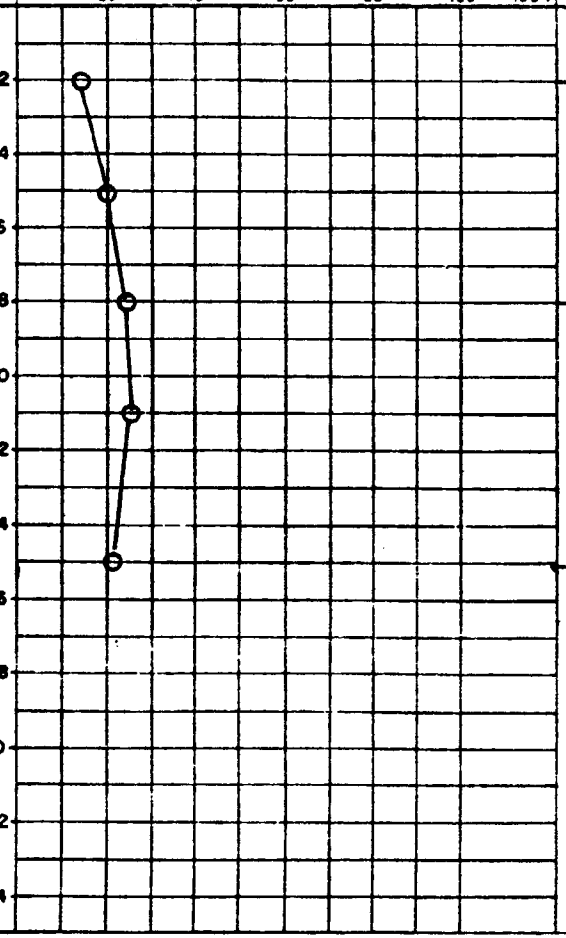
MILE	B,C,S	NUMBER
B.P.		128

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–15					SM	SAND. SILTY	F	Vs
2–8					SP	FINE - MED		
8–15					SM	SILTY		
15						BOTTOM OF HOLE. 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	29	71	0			
6					WET	
8	5	95	0		SAT.	
12					SAT.	
15	15	85	0		SAT.	

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE - POPLAR | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P		128

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'		
4					SM	SAND - SILTY FINE		V_3
6								
8					SP	FINE	F	
10								
12								
14						WET		
16						15'		
18						BOTTOM OF HOLE - 15'		
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT.	
4						
6	14	86	0		WET	
8					WET	
10						
12	8	92	0		WET	
14						
16					WET	
18						
20						
22						
24						

ROT3

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 9/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION: SPRUCE + POPLAR	ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		128

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–4					SM	SAND - SILTY ORG.		
4–12					SM	SAND - SILTY FINE	F	Vs
12–24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
5	[illegible]				SAT.	
8	12	-	88	0	SAT.	
11	[illegible]				FREE WATER	
15	22	-	78	0	WET	
20					SAT.	
23	13	-	87	0	SAT	

F

WET

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 19/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG A12 | SURFACE DRAINAGE: FLAT | VEGETATION POPLAR & SPRUCE 12" | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		128

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2					Pt	2' ORGANICS PEAT		
4					SM	4 SAND - SILTY FINE	F	Vs
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								

F

BOTTOM OF HOLE - 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2					SAT.	
4					WET	
8					14-86 0 FREE WATER	
10					WET	
14					15-85 0 FREE WATER	
20					SAT.	
24					WET	

WET

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONY CH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		129

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	POST 2"		
2						SAND - SILTY FINE		
4								
6					SM			
8								
10							F	Vs
12						~~FREE WATER AFTER 11~~		
14								
16								
18						SATURATED		
20						20		
22						BOTTOM OF HOLE - 20		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT

DEPTH (FEET)	20	40	60	80	100	100+
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					MOIST		
4					WET		
6	17	83	0				
8					SAT.		
10	19	81	0		SAT.		
12							
14					FREE WATER		
16							
18							
20	20	80	0		SAT.		
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 2

CKD | TECH Bronych | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE + POPLAR 4" | ELEV | MILE B.P. | B,C,S | NUMBER 129

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2"		
2					SP	SAND - FINE	F	Vx
4								
6								
8								
10						FREE WATER AFTER 11'		
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

DEPTH (FEET) | ○ = WATER CONTENT (% OF DRY WEIGHT) | △ = ICE CONTENT (% OF SAMPLE VOLUME) | PLASTIC LIMIT | LIQUID LIMIT | 20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
						MOIST
10	90	0				MOIST
						WET
8	92	0				WET
						WET

R079

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & POPLAR 8" | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		129

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
					PT	PEAT 2"										
2					SP	SAND - FINE - MEDIUM	F	Vs		3	97	0		MOIST		
4														WET		
6																
8										10	90	0		WET		
10														SAT.		
12																
14										8	92	0		SAT.		
16						FREE WATER AFTER 17'										
18																
20						20' BOTTOM OF HOLE - 20'									SAT		
22																
24																

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

REMARKS

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/2/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PROWYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & POPLAR 6" | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		129

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0						2"		
2					SM	SAND - SILTY FINE	F	V_c - V_f
4								
6					SP	FINE		
8								
10						FREE WATER AFTER 10'		
12								
14								
16								
18								
20						20'		
						BOTTOM OF HOLE - 20'		
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
12	88	0		MOIST	
				WET	
9	91	0		WET	
				SAT	
7	93	0		WET	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 5
CKD | TECH Ronvich | RIG B-50 | SURFACE DRAINAGE: | VEGETATION Spruce + Poplar 6" | ELEV | MILE | B,C,S | NUMBER
BP. | 129

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat — 2"		
2					SM	Sand - Silty		
4					SP	Fine		Vs & Vc - Vr
6							F	
8								
10								
12								
14					SM	Silty Saturated @ 15 Free H_2O @ 17'		
16								
18								
20						20' Bottom of Hole - 20'		
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	13	87	0		Moist	
4					Wet	
8	8	92	0		Wet	
10					Sat.	
14	26	74	0		Wet	
20					Wet	

REMARKS

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 20/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH FRANCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE, BURN AREA | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.D		129

REMARKS: FOREWATER

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					PT	POST 2"								
2					SP	SAND - FINE		Vc-Vr	8	92	0		MOIST	
4													MOIST	
6					SM	SILTY FINE								
8									11	89	0		WET	
10							F						WET	
12														
14									40	60	0		SAT.	
16					SM	SILTY		Vs						
18														
20						20'								
22						BOTTOM OF HOLE - 20'								
24														

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/8/76 | AIRPHOTO NO: | CHAINAGE NORTH SIDE OF CREEK | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: | VEGETATION | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		130

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2					SP	SAND. Fine		NOT FROZEN	8	-	92	0	MOIST	
4													MOIST	
6														
8									10	-	90	0	WET	
10							F						SAT.	
12														
14					SM	SILTY		Vs	50	-	50	0	SAT	
16														
18														
20													WET	
22														
24									11	-	89	0	WET	

F

D

WET

Bottom of Hole - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		130

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2								
2–14					SP	SAND - FINE-MEDIUM		NOT FROZEN
14–24					SM	SILTY - FINE	F	VS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS						
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	5	95	0		MOIST	
4					WET	
8	8	92	0		SAT	
10					SAT	
14	12	88	0		SAT.	
20					FREE WATER	
24	14	86	0		FREE WATER	

F

BOTTOM OF HOLE - 30'

FREE WATER

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 20 Aug 75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: REYNOLDS | RIG: AIR | SURFACE DRAINAGE: TOP OF RIDGE | VEGETATION: | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		130

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SM	SAND - SILTY FINE				11	-	89	0	MOIST	
4														MOIST	
6															
8					SP	FINE - MEDIUM				3	-	97	0	MOIST	
10														MOIST	
12															
14										4	-	96	0	MOIST	
16															
18							F	VX							
20					SM									MOIST	
22															
24										4	-	96	0	MOIST	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

MOIST

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET

CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE & POPLAR 8" | ELEV

TEST HOLE 9

MILE	B,C,S	NUMBER
B.P.		130

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0–6					SP	SAND - FINE - MED.			6	94	0		MOIST	
6–8					SP								MOIST	
8–10					SP				4	96	0		MOIST	
10–12					SP								MOIST	
12–14					SP		F	VL-VI						
14–16					SP		F	VL-VI	10	90	0		WET	
16–20					SP								MOIST	
20–24					SP				5	95	0		MOIST	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: SPRUCE 10" | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		130

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2						SAND - FINE		NOT
4					SP			FROZEN
6								
8								
10								
12								Vc - Vr
14							F	
16								&
18						FINE - MEDIUM		
20								Vs
22					SP			
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				MOIST	
4		96	0	MOIST	
				WET	
10		90	0	WET	
				WET	
8		92	0	SAT.	
				SAT.	

F

BOTTOM OF HOLE - 30'

-6-94-0 H.1.3.

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH Roy CH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION Poplar + Spruce 6" | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		131

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	Peat — 2"								
2						SAND - Fine		Vx					Damp	
4									4	96	0		Damp	
6														
8					SP		F						Damp	
10									7	93	0		Moist	
12														
14								Vc-Vr					Wet	
16														
18														
20						20'			8	92	0		Wet	
						BOTTOM OF HOLE - 20'								
22														
24														

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PROWYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		131

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					PT	PEAT 2'										
2					SP	SAND - FINE	F	Vx								DAMP
4										4	96	0				DAMP
6																
8																DAMP
10										10	90	0				MOIST
12								Vc-Vr								
14																WET
16																
18																
20						20'				9	91	0				WET
22						BOTTOM OF HOLE - 20'										
24																

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION POPLAR & SPRUCE 8" | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
BP		131

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	WATER CONTENT (% OF DRY WEIGHT) / ICE CONTENT (% OF SAMPLE VOLUME) — PLASTIC LIMIT / LIQUID LIMIT (20, 40, 60, 80, 100, 100+)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
					Pt	PEAT 2"											
2						SAND - FINE			2								DAMP
4							F		4		5	95	0				DAMP
6								Vx	6								
8					SP				8								DAMP
10									10		4	96	0				DAMP
12									12								
14									14								DAMP
16									16								
18					SP				18								
20									20		5	95	0				MOIST
22									22								
24									24								MOIST

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 21/3/74 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH Pronych | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION Spruce + Poplar 10" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		131

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt Peat			
2						SAND - Fine 2"		
4								Vx
6								
8					SP		F	
10								
12								
14								
16								Vc-Vr
18								
20						20'		
22						BOTTOM OF HOLE - 20'		
24								

O = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	11		89	0	DAMP		
4					DAMP		
8	4		96	0	MOIST		
10					MOIST		
14	10		90	0	WET		
16							
20					WET		
22							
24							

ROTH

DRILL HOLE REPORT

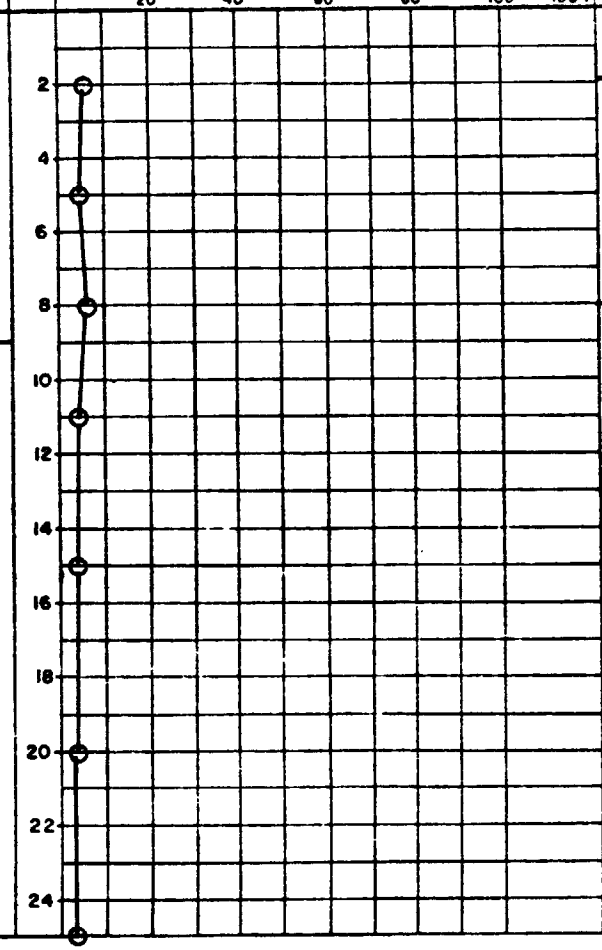
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 21/3/65	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH PROWSE	RIG: B-50	SURFACE DRAINAGE:	VEGETATION: POPLAR & SPRUCE	ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		131

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT 2"		
2					SP	SAND - FINE	F	VX
4								
6					SM	SILTY FINE		
8								
10								
12					SP	FINE		
14								
16								
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	7	93	0		DAMP		
4					DAMP		
6							
8	13	87	0		DAMP		
10					DAMP		
12							
14	5	95	0		DAMP		
16							
18							
20					MOIST		
22							
24					MOIST		

BOTTOM OF HOLE. 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 2/13/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH Pronych	RIG B-50	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		131

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					PT	Peat — 2"									
2						SAND - Fine			2					DAMP	
4					SP				4	5	95	0		DAMP	
6								Vx	6						
8							F		8					DAMP	
10						Fine - Medium			10	2	98	0		DAMP	
12									12						
14									14					MOIST	
16									16						
18					SP				18						
20									20					MOIST	
22									22						
24									24					MOIST	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

Bottom of Hole - 25

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 1

CKD | TECH Mronych | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: Poplar, Spruce 12" | ELEV | MILE B.P. | B,C,S | NUMBER 132

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	PEAT 2"		
2					SM	SAND - SILTY		
4						FINE	F	Ux
6								
8					SP			
10								
12								
14								
16					SP			
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
17	83	0		MOIST		
				DAMP		
5	95	0		MOIST		
				MOIST		
4	96	0		DAMP		
				DAMP		
6	94	0		DAMP		

BOTTOM OF HOLE -25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/11/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Pronych | RIG B-50 | SURFACE DRAINAGE: | VEGETATION Poplar + Spruce 6" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
		132

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2					Pt	Peat 2"			2						
4						SAND - Fine	F	Vx	4	5	95	0		DAMP	
6									6						
8									8					DAMP	
10					SP				10	7	93	0		MOIST	
12									12						
14									14					MOIST	
16									16						
18									18						
20					SP				20	4	96	0		MOIST	
22									22						
24									24					MOIST	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

BOTTOM OF HOLE - 25'

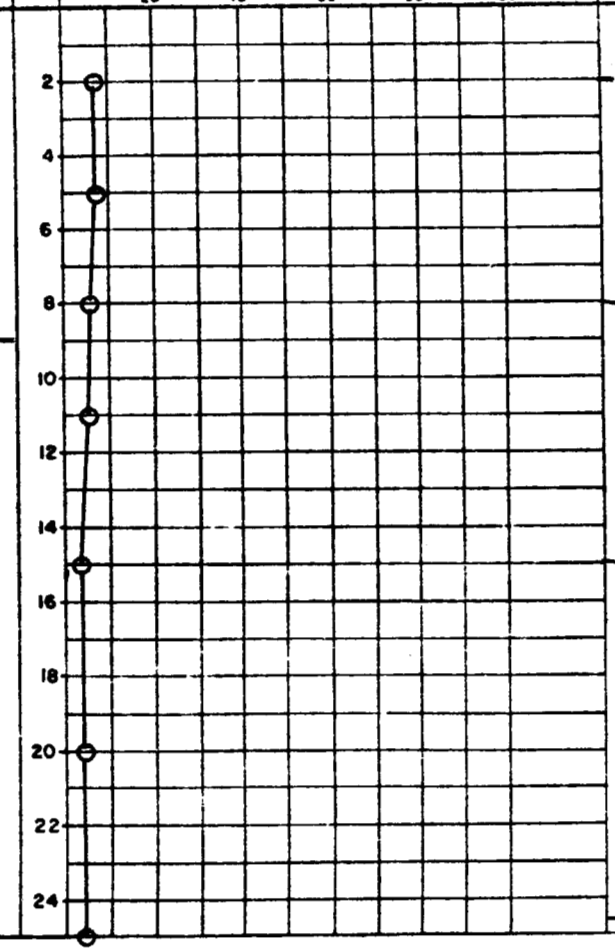
DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/3/25 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 3

CKD | TECH Pronych | RIG B-50 | SURFACE DRAINAGE: | VEGETATION | ELEV | MILE B.C.S | NUMBER B.D. 132

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 2"		
2						SAND - Fine		
4							F	
6					SP			Vx
8								
10								
12								
14								
16								
18					SP			
20								
22								
24								



GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
9	91	0		DAMP		
				DAMP		
3	97	0		DAMP		
				DAMP		
4	96	0		DAMP		
				DAMP		
3	97	0		DAMP		

R073

Botton of Hole - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED 2/3/76 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD: | TECH DRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: POPLAR + SPRUCE | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		132

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2"		
2						SAND - FINE		
4							T	
6					SP			Vx
8								
10								
12								
14								
16								
18					SP			
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2						DAMP	
4						DAMP	
6	4	96	0			DAMP	
8						DAMP	
10						DAMP	
12	7	93	0			DAMP	
14						DAMP	
16							
18							
20	4	96	0			DAMP	
22							
24						DAMP	

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 9/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION Poplar & Spruce 6" | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		132

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
					Pt	Peat — 2"									
2					SM	SAND - Silty	F	V_X	2	18	82	0		Moist	
4									4					Moist	
6						Fine			6						
8					SP				8	6	94	0		Moist	
10									10					Damp	
12									12						
14									14	6	94	0		Moist	
16									16						
18									18						
20									20					Moist	
22									22						
24					SM	Silty			24	26	74	0		Moist	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

Bottom of Hole - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 1

CKD | TECH Pronych | RIG B-50 | SURFACE DRAINAGE: | VEGETATION Poplar & Spruce | ELEV | MILE B.P. | B,C,S | NUMBER 133

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT: 20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	Peat — 1"									
2						SAND - Fine							Moist		
4					SP			?	5	95	0		Moist		
6													Wet		
8							F								
10									10	90	0		Sat		
12															
14					SP								Wet		
16															
18															
20						Bottom of Hole - 20'								Sat.		
22															
24															

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 22/3/73 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PROWYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION POPLAR & SPRUCE | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		133

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1"	F	
2						SAND - FINE		
4								?
6					SP			
8								
10							F	
12								
14								
16					SP			
18								
20						20'		
						BOTTOM OF HOLE - 20		
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2							Moist
4							Moist
6	6	94	0				
8							Moist
10							Moist
12	5	95	0				
14							
16							Wet
18							
20	6	94	0				Wet
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		133

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	PEAT — 1'		
2					SP	SAND - FINE	F	Vx
4								
6								
8								
10								NOT FROZEN
12								
14							F	Vc - Vr
16								
18					SM	SILTY		
20						20'		
22						BOTTOM OF HOLE - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					MOIST	
4	5	95	0		MOIST	
6						
8					MOIST	
10	5	95	0		MOIST	
12						
14					WET	
16						
18						
20	13	87	0		WET	
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE & BIRCH 6" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
BP.		133

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat 1"		
2					SP	SAND- FINE	F	Vx
4								
6								Vx-Vs
8					SM	SILTY FINE		
10							F	
12								Vs
14								
16					SM			
18								
20						20'		
22						BOTTOM OF HOLE - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					MOIST	
4	8	92	0		WET	
6						
8					WET	
10	13	87	0		WET	
12						
14						
16					SAT.	
18						
20	15	85	0		SAT.	
22						
24						

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: POPLAR & SPRUCE 6" | ELEV

TEST HOLE 1

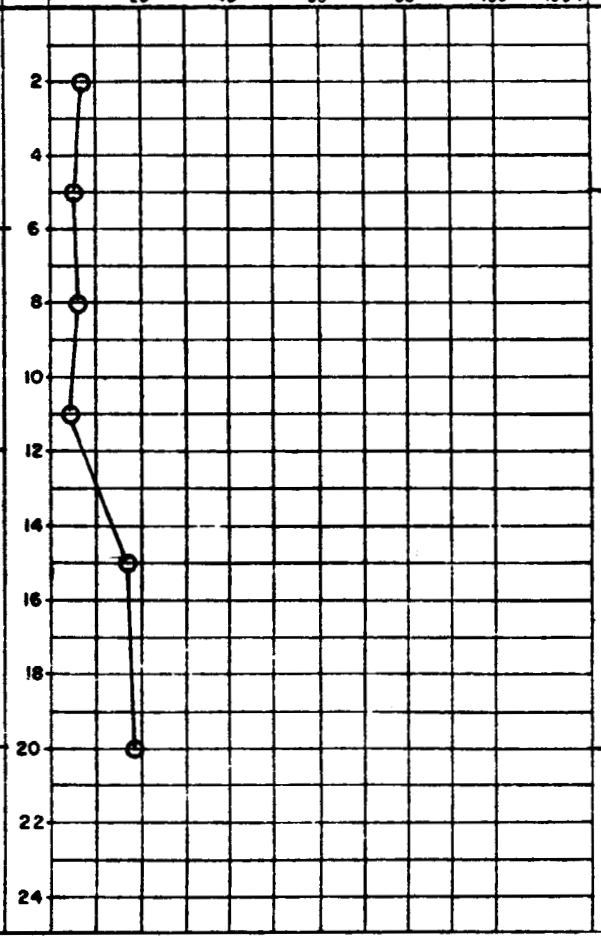
MILE	B,C,S	NUMBER
B.P.		134

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SP	SAND - FINE	F	Vx
4								
6								
8								NOT FROZEN
10					SP			
12								
14							F	Vc - Vr
16								
18					SM	SILTY — 20'		
20						BOTTOM OF HOLE - 20'		
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
6	6	94	0		MOIST	
8					MOIST	
12					MOIST	
16					WET	
20	14	86	0		WET	

R073

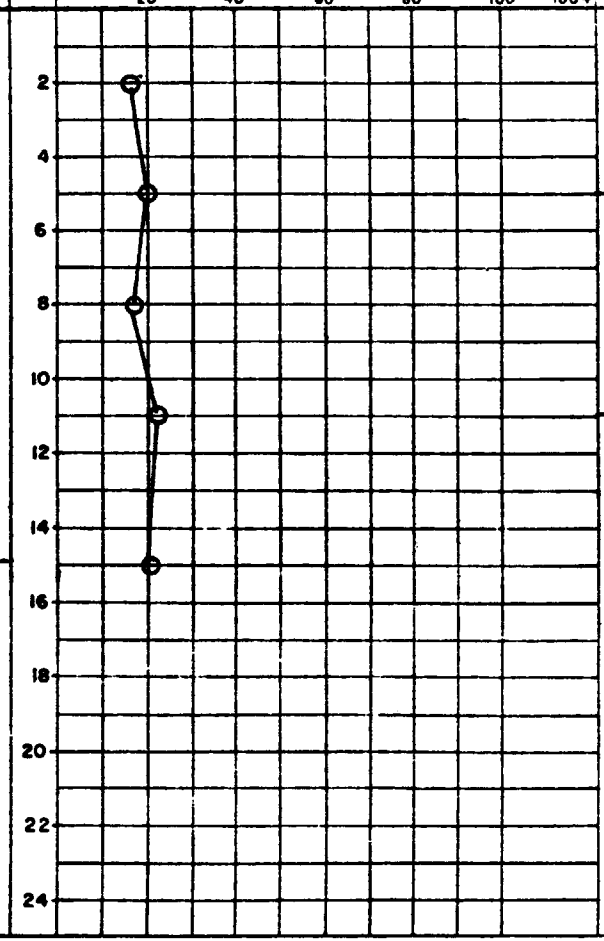
DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2-9-73 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 2

CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & POPLAR | ELEV | MILE B.P. | B,C,S | NUMBER 134

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 1"		
2					SM	SAND - SILTY FINE	F	V_C-V_T
4								
6								
8								
10								V_S
12								
14						15'		
16						BOTTOM OF HOLE. 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
				WET		
14	86	0		WET		
				WET		
18	82	0		SAT		
				SAT.		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH	RIG	SURFACE DRAINAGE:	VEGETATION:	ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		134

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT — 1'									
2						SAND - SILTY Fine			20	80	0		SAT.		
4													SAT		
6					SM										
8							F	Vs	20	80	0		SAT		
10													WET		
12															
14						— 15'			16	84	0		SAT		
16						BOTTOM OF HOLE - 15'									
18															
20															
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 2/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH PRONYCH	RIG: T5-50	SURFACE DRAINAGE:	VEGETATION SPRUCE - POPLAR 8"	ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		134

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1"		
2						SAND - Fine		Vc - Vr
4								
6					SP		F	To
8								
10								
12								Vs
14						15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	20	40	60	80	100	100+
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
CLAY %	SILT %	SAND %	GRAVEL %		
				Moist	
12	88	0		Moist	
				Sat.	
9	91	0		Sat	
				Sat	

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG | DATE DRILLED 25/5/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH Pranych | RIG B-50 | SURFACE DRAINAGE: | VEGETATION Spruce-Birch-Poplar | ELEV

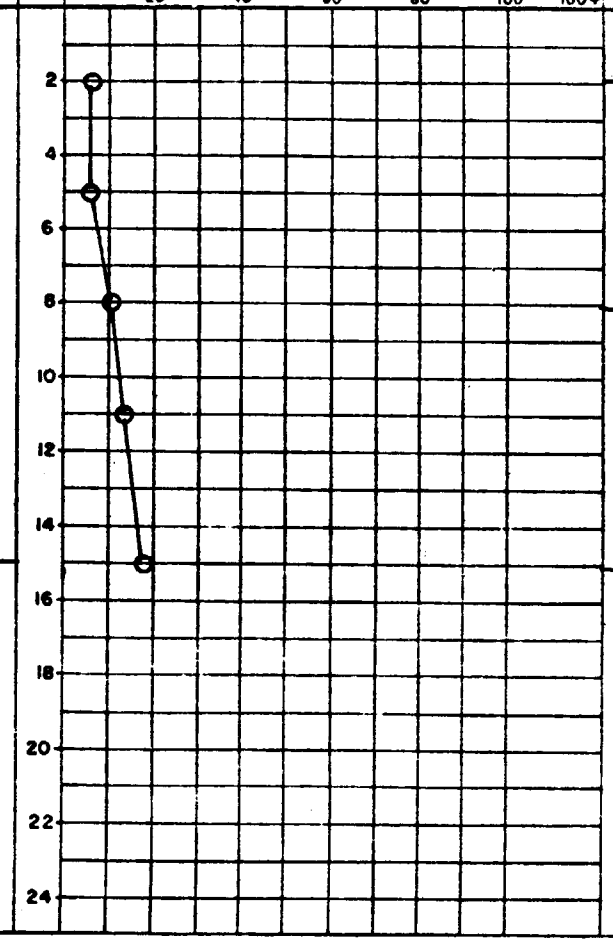
TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		134

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 1"		
2					SM	SAND - Silty Fine		Vx
4								
6								
8							F	
10								
12								Vc-Vr
14						5'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

O = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
12	-	88	0	DAMP		
				DAMP		
10	-	90	0	DAMP		
				MOIST		
22	-	78	0	WET		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/3/15 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 6

CKD | TECH BRANCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE-BIRCH 8" | ELEV | MILE B.P. | B,C,S | NUMBER 134

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
0					PT	PEAT — 1'			
2					SM	SAND - SILTY FINE	TT	Vx	2
4									4
6								To	6
8									8
10									10
12								Vc-Vr	12
14						15'			14
16						BOTTOM OF HOLE - 15'			16
18									18
20									20
22									22
24									24

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				DAMP		
9	91	0		DAMP		
				MOIST		
12	88	0		WET		
				WET		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/76 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Pronych | RIG B-60 | SURFACE DRAINAGE: | VEGETATION Spruce & Poplar 10" | ELEV

TEST HOLE 7

MILE	B,C,S	NUMBER
B.P.		134

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 2"		
2					SM	SAND - Silty Fine		V_x
4								
6								
8							F	
10								$V_c - V_r$
12								I
14								V_s
						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	15	85	0		DAMP	
4					MOIST	
8	20	80	0		WET	
12					SAT.	
14						
16	20	80	0		WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: | FIELD ENG: | DATE DRILLED: 22/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH: Prony LH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: Spruce & Poplar 6" | ELEV:

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		135

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 1'		
2						SAND - SILT		Vx
4						Fines		
6					SM		F	To
8								
10								Vs
						— 11'		
12						Bottom of Hole - 11'		
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	20	40	60	80	100	100+
2						
4						
6						
8						
10						
12						
14						
16						
18						
20						
22						
24						

GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
				DAMP	
15	85	0		WET	
				UNF	
22	78	0		SAT.	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 8/9/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE & POPLAR 6" | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		135

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0						Peat 2"									
2					SM	SAND - SILTY Frost	F	Vx	2					DAMP	
4									4	-20-	80	0		SAT.	
6								Vs	6						
8									8					WET	
10						11'			10	-21-	79	0		WET	
12						Bottom of Hole - 11'			12						
14									14						
16									16						
18									18						
20									20						
22									22						
24									24						

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 23/3/76	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH POLONYCH	RIG: B-50	SURFACE DRAINAGE:	VEGETATION: Poplar & Spruce 5"	ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		135

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	PEAT		
2						SAND - SILTY FINE	F	VS
4					SM			
6								
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT.	
4						
6	17	83	0		WET	
8					WET	
10						
12	20	80	0		SAT.	
14						
16					SAT.	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 22/3/15 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & POPLAR 6" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		135

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1"		
2					SM	SAND SILTY FINE		VX
4								
6							F	
8								
10					SC	CLAY SILTY		VS
12					SM	SILTY		
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2'	16	84	0		DAMP	
4'					MOIST	
8'	21	79	0		WET	
10'					SAT	
14'	24	76	0		SAT	

R079

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 22/8/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH PRONYCH	RIG B-50	SURFACE DRAINAGE	VEGETATION SPRUCE-BIRCH-WILLOW	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P		135

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0						Peat 1"		
2					SM	SAND. SILTY Fine.	F	Vx
4								
6								
8								
10						Free Water After 11'		
12								
14						15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					DAMP	
4						
6	11	89	0		DAMP	
8					DAMP	
10						
12	26	74	0		DAMP	
14						
16					SAT.	
18						
20						
22						
24						

ROTH

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 22/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH PRONYCH	RIG: B-50	SURFACE DRAINAGE:	VEGETATION Spruce - Small	ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P		135

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT — 3"		
2						SAND - SILTY		
4						FINE		
6					SM		F	Vs
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	19	81	0		SAT.	
4					WET	
6						
8	27	73	0		WET	
10						
12					WET	
14						
16	34	66	0		SAT.	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23 3 75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Raynolds | RIG: Air | SURFACE DRAINAGE: FLAT | VEGETATION Spruce & Birch | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
BP.		136

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–4					SM	SAND - SILTY Fine		
4–6								
6–8						SILT - SANDY		Vc-Vr
8–10								
10–12					ML		F	
12–14					SM			
14–16								
16–18								
18–20								
20–22								
22–24					ML			

2'

F

27

SAND - SILTY
SM
BOTTOM OF HOLE - 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2						WET
4	34	66	0			WET
6						WET
8						
10	81	19	0			MOIST
12						
14						
16						DAMP
18						
20	68	32	0			WET
22						
24	21	79	0			DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH Reynolds | RIG: A12 | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE & Birch 6" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		136

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		
2–6					ML	SILT - SANDY		
6–10					SM	SAND - SILTY / FINE	F	Vc-Vr
10–24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
8	7	4	24	0	H.I.B.	
					WET	
10	32	68	0		H.I.B.	
14					WET	
20	29	71	0		DAMP	
24					H.I.B.	

SP Fine

Bottom of Hole - 30'

-6 9 4 - 0 DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 3

CKD | TECH REYNOLDS | RIG ~~B-50~~ A112 | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE & BIRCH 6" | ELEV | MILE B.P. | B,C,S | NUMBER 136

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 3'	F	Vc - Vr
4					ML	SILT - SANDY — 6'		
6								
8						SAND - SILT) FINE		Vs
10								
12								
14					SM			
16								
18								
20								
22								NOT FROZEN
24								

F FROZEN

Bottom of Hole - 30'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

208

-19-21-0

-25-75-0

-35-65-0

-16-84-0 Moist

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					WET		
4	19	21	0		H.W.		
6							
8					H.W.		
10	25	75	0		WET		
12							
14							
16					H.W.		
18							
20	35	65	0		SAT.		
22							
24					DAMP		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/2/15 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE + BIRCH 8" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		136

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT	F	V_c-V_r
2–6					ML	SILT	F	
6–12					SM	SAND - SILTY FINE	F	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4	92	8	0		WET	
6					WET	
8						
10	35	65	0		WET	
12						
14					DAMP	
16						
18						
20	13	87	0		DAMP	
22						
24					DAMP	

BOTTOM OF HOLE - 30'

-15-85-0
DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/4/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE, BIRCH 8" | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P		136

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2'	F	V_x
4					ML	SILT - SANDY		
6						6'		
8					SM	SAND - SILTY FINE		
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT

20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0							
2					DAMP		H.I.B.
4							
6	72	28	0		MOIST		
8					DAMP		
10							
12	22	78	0		DAMP		
14							
16					DAMP		
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 2/3/75	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION: SPRUCE & BIRCH	ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		136

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0–2					Pt	PEAT								
2–16					SM	SAND-SILTY FINE	F	$V_c - V_f$	48	52	0		WET	
16–24					SP	FINE			7	93	0		DAMP	
24–30													DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT → LIQUID LIMIT

20 40 60 80 100 100+

BOTTOM OF HOLE - 30'

RO73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE: Seismic Line | OFFSET

CKD | TECH Reynolds | RIG: Air | SURFACE DRAINAGE: FLAT | VEGETATION: | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		137

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
0–1					Pt	PEAT 1'									
1–4					OL	ORGANIC SILT 3'		$V_c - V_f$					H.I.B.		
4–6						CLAY, SILTY							WET		
6–8					CL – CI				99	1	0		MOIST		
8–10							F	V_s							
10–12													MOIST		
12–14															
14–16									99	1	0		WET		
16–18															
18–20															
20–22													WET		
22–24															
24–26									96	4	0		SAT.		

PLASTIC LIMIT 20–40 | LIQUID LIMIT 60–100+

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

F

WET

Bottom of Hole - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 23/3/75	AIRPHOTO NO:	CHAINAGE: SEISMIC LINE	OFFSET
CKD	TECH KEYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION:	ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		137

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					Pt	PEAT		Vs					SAT.	
4						5'							WET	
6					OL	ORGANIC SILT 7'								
8						~~CLAY - SILTY~~	F		90	4	0		MOIST	
10						SILT - CLAYEY							MOIST	
12					ML									
14						SANDY			80	20	0		SAT.	
16														
18														
20						CLAYEY								
22														
24									98	2	0		WET	

ROTS

SILT -

F

WET

BOTTOM OF HOLE = 30'

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

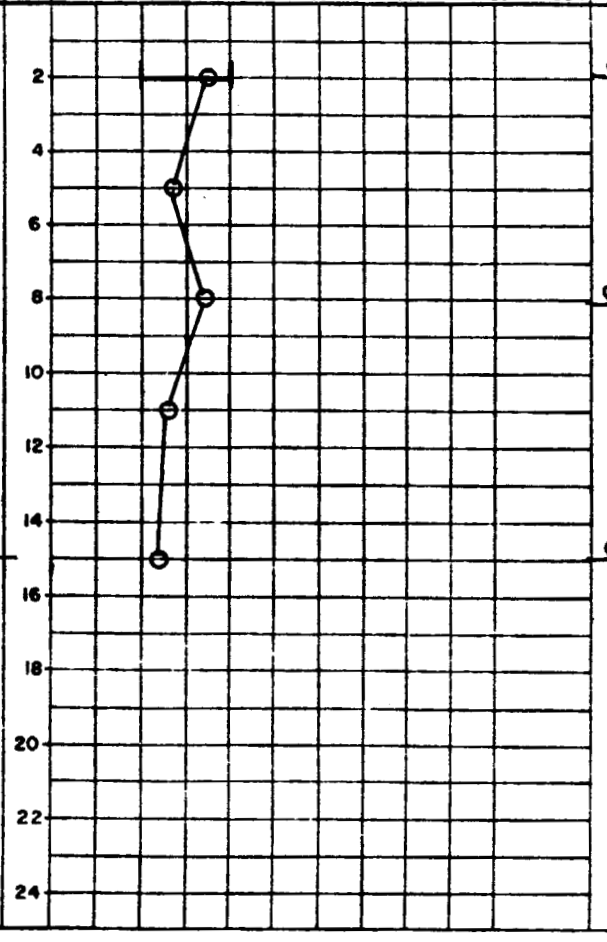
DWN | FIELD ENG | DATE DRILLED 2-9-3-75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: D112 | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 8" | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		137

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		
4						CLAY - SILTY		
6					Cl	MED. PLASTIC	F	V_C - V_r
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 16		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS					
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
96	4	0		WET	
				WET	
98	2	0		WET	
				WET	
98	2	0		MOIST	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 25/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH R. REYNOLDS	RIG: A12	SURFACE DRAINAGE: FLAT	VEGETATION: SPRUCE 8"	ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		137

REMARKS

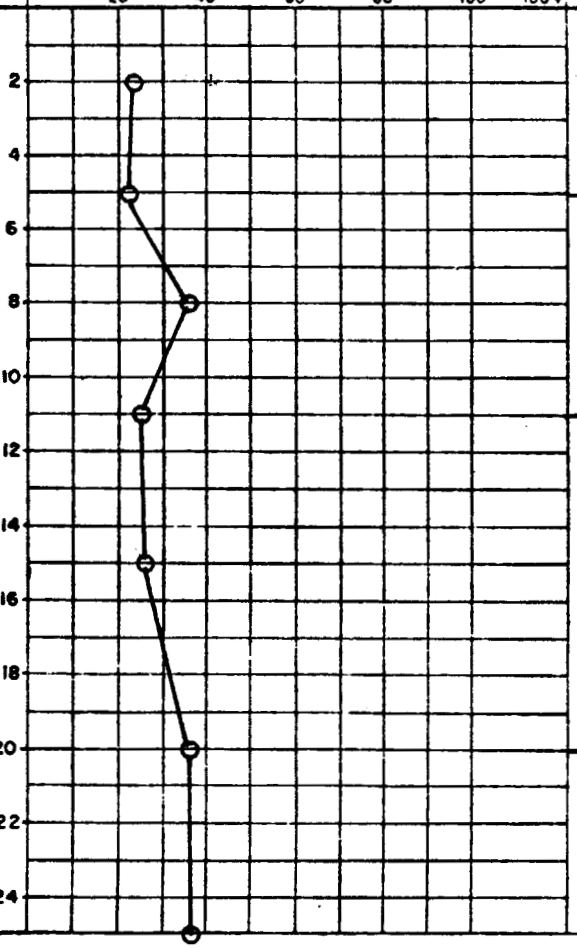
DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2"		
2					CL	CLAY - SILTY SANDY		
4					CL	LOW-MED. PLASTIC		
6					CI			
8						— 9'		
10						SILT - SANDY	F	
12								
14					ML			
16						CLAYEY		
18								
20						— 20'		
22						CLAY - SILTY		
24					CL	LOW-MED. PLASTIC		
					CI			

F

BOTTOM OF HOLE -26'

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4	70	30	0		WET	
6						
8					MOIST	
10	75	25	0		MOIST	
12						
14						
16					MOIST	
18						
20	99	1	0		WET	
22						
24					WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 23/3/65	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH REYNOLDS	RIG AIR	SURFACE DRAINAGE: FLAT	VEGETATION SPRUCE 12"	ELEV

TEST HOLE 51

MILE	B,C,S	NUMBER
B.P.		137

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT: 20, 40, 60, 80, 100, 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
0					Pt	PEAT 1.5'									
2					CL	CLAY - SILTY		2	93	7	0				DAMP
4						MED. PLASTIC									POND WATER
6															
8					CL				99	1	0				MOIST
10															
12															MOIST
14					ML	SILT - SANDY			70	30	0				WET
16															
18															
20															
22															
24															

ROPS

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

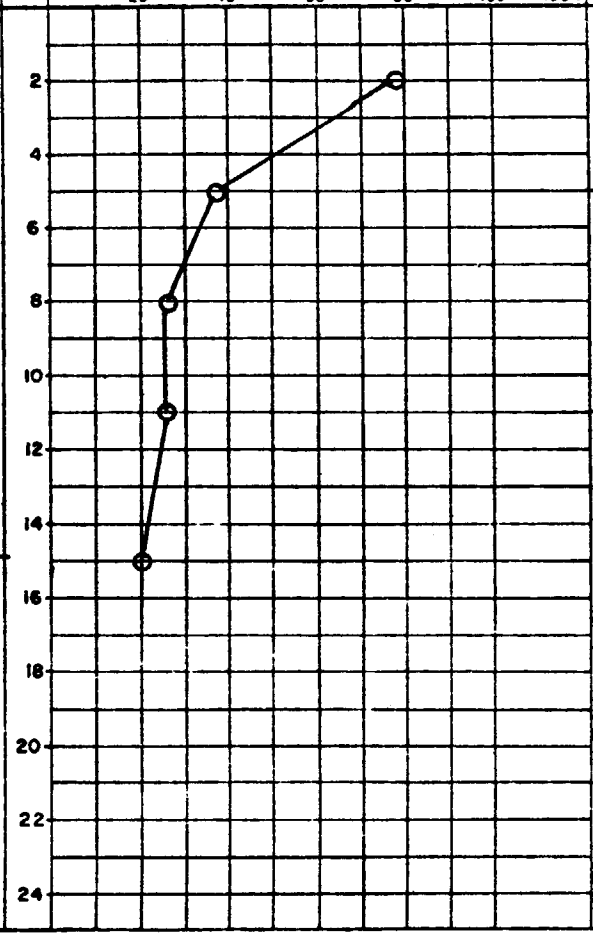
DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE + BIRCH 40' | ELEV:

TEST HOLE 6

MILE	B,C,S	NUMBER
B.P.		137

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		VS
2					OL	ORGANIC CLAY — 3'		
4					CL	CLAY - SILTY LOW PLASTIC TO	F	
6								
8					ML	SILT		Vc-Vf
10						— 11'		
12					ML	SILT		
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2							FREE WATER
4	96	4	0		WET		
8					MOIST		
10	98	2	0		WET		
14					WET		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: | VEGETATION: BIRCH & SPRUCE 12" | ELEV

TEST HOLE 7

MILE	B,C,S	NUMBER
B.P.		137

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		VS
2–7					ML	SILT		1
7–15					CL	CLAY - SILTY LOW PLASTIC	F	Vc - Vr
15						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	86	14	0		SAT.	
4					WET	
6						
8	95	5	0		DAMP	
10					WET	
12						
14	95	5	0		WET	
16						
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 28/3/75 | AIRPHOTO NO | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE FLAT | VEGETATION SPRUCE & WILLOW | ELEV

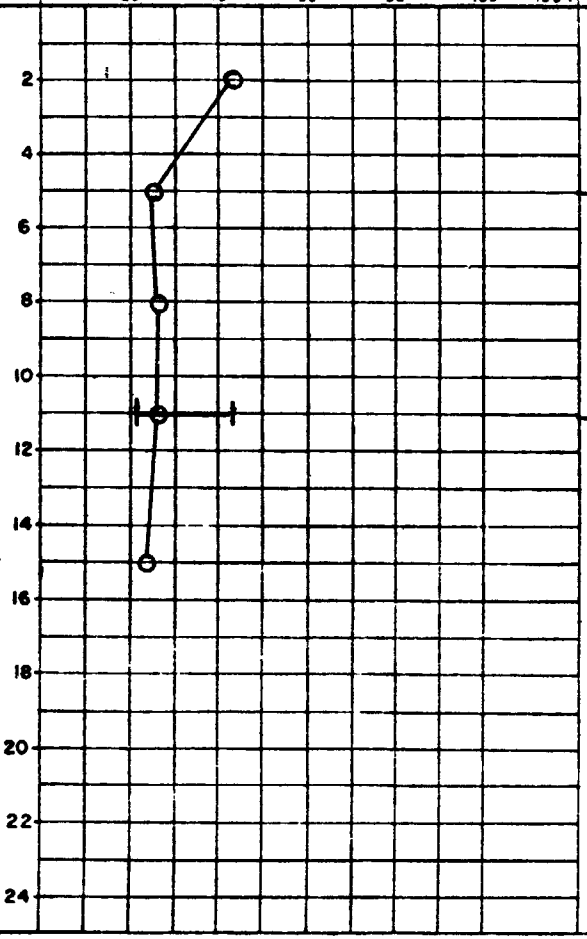
TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		138

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT — 2'		Vs
4						CLAY-SILTY		
6						MED. PLASTIC	F	
8					Cl			Vc-Vs
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				SAT.		
100	0	0		MOIST		
				MOIST		
97	3	0		MOIST		
				WET		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG.	DATE DRILLED 23/8/75	AIRPHOTO NO:	CHAINAGE:	OFFSET:
CKD	TECH REYNOLDS	RIG: AIR	SURFACE DRAINAGE: FLAT	VEGETATION SPRUCE 8"	ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		138

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–4					ML	SILT - SANDY		
4–15					CL	CLAY - SILTY MED. PLASTIC	F	Vs
15						BOTTOM OF HOLE 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	80	20	0	WET			
4				SAT.			
8	97	3	0	SAT.			
12				SAT.			
14							
15	98	2	0	SAT.			

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN: FIELD ENG | DATE DRILLED 25/3/16 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: TECH Reynolds | RIG: Air | SURFACE DRAINAGE: FLAT | VEGETATION: Spruce | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
BP.		138

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	Peat — 2'		Vs
2–15					Cl	Clay - Silty Med. Plastic	F	Vc - Vr
15						Bottom of Hole - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT.	
4–6	90	10	0		WET	
8					Moist	
10–12	98	2	0		Moist	
14					Damp	

ROTO

DRILL HOLE REPORT

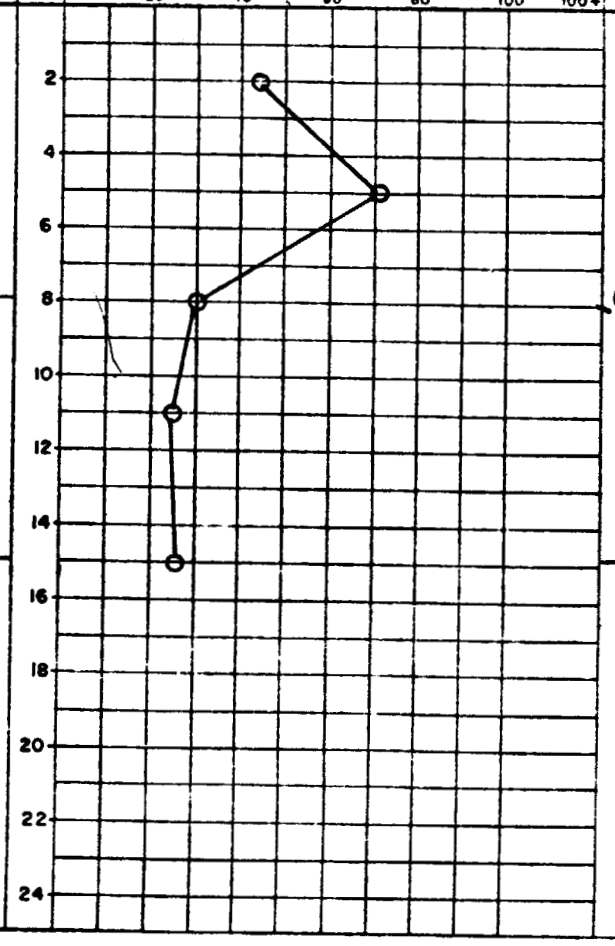
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH	RIG	SURFACE DRAINAGE	VEGETATION	ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		138

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						CLAY - SILTY		Vs
4						MED. PLASTIC		
6					Cl		F	
8								Vc-Vr
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	
						Moist
						Groundwater
96	4	0				Wet
						Moist
100	0	0				Moist

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		139

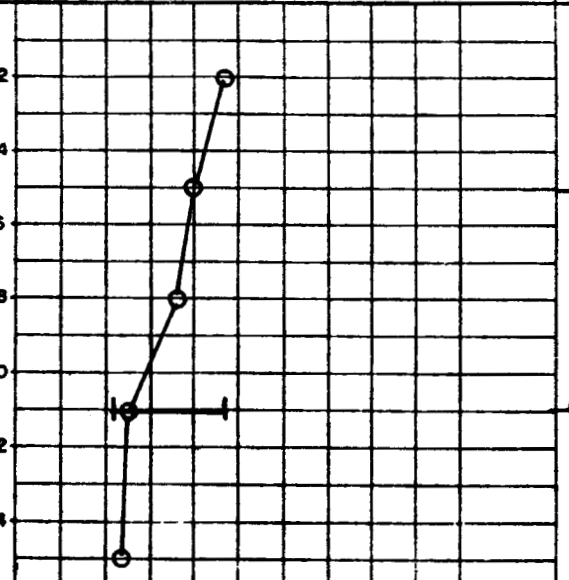
DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2					CL	CLAY - SILTY SANDY		Vs
4					SM	SAND - SILTY	F	
6								
8								
10					CI	CLAY - SILTY MED. PLASTIC		Vx
12								
14								
16						BOTTOM OF HOLE - 15		
18								
20								
22								
24								

2'
4'
10'
15'

DEPTH (FEET)

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS

CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
						FROZEN
46	54	0				FROZEN
						FROZEN
98	2	0				MOIST
						DAMP

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 25/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 2

CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE & BIRCH | ELEV | MILE BP | B,C,S | NUMBER 139

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		V_s
2–15					Cl	CLAY-SILTY SANDY SILTY MED. PLASTIC	F	$V_c - V_r$
15–16						BOTTOM OF HOLE-15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	64	36	0		Free water		
4–6					Wet		
8	96	4	0		Wet		
10–12					Damp		
14	94	6	0		Moist		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

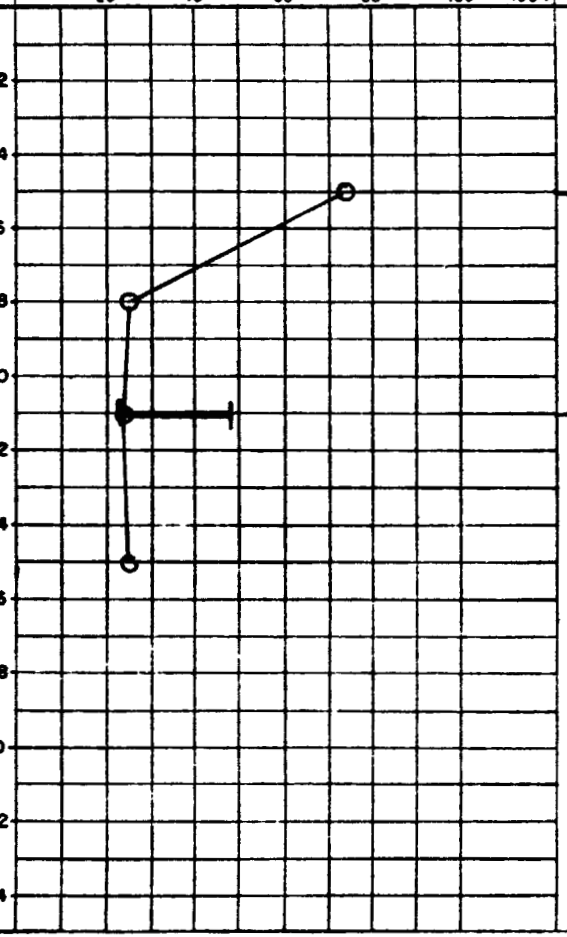
DWN | FIELD ENG | DATE DRILLED 23/9/65 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 3

CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV | MILE B.P. | B,C,S | NUMBER 139

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 2'		
2					SM	SILT - CLAYEY SANDY	F	Vs
10						— 11'		
12					Cl	CLAY - SILTY MED. PLASTIC		Vx
14						— 15'		
16						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
77	23	0		FREE WATER		
				SAT.		
99	1	0		DAMP		
				DAMP		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 25/3/15 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: BIRCH & SPRUCE 6" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		139

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		Vs
2–11					ML	SILT - CLAYEY SANDY	F	
11–15					CI	CLAY - SILTY MED. PLASTIC		Vc–Vr
15						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	86	14	0				FREE WATER
6							FREE WATER
8	58	42	0				WET
11							DAMP
15	96	4	0				DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH Reynolds	RIG	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		139

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
0					Pt	PEAT — 2'		Vc-Vr					Moist	
2					CL	SILTY CLAY - SILTY SANDY LOW PLASTIC SILTY	F	& Vs	80	20	0		Sat.	
4														
6													Moist	
8														
10									96	4	0		Moist	
12														
14						15'							Wet	
16						BOTTOM OF HOLE - 15'								
18														
20														
22														
24														

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P		140

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1'		
2						CLAY - ORGANIC SILTY		
4								
6								
8					CL	CLAY - SILTY		
10						LOW - MED. PLASTIC	F	Vs
12								
14					CI			
16								
18								
20						21'		
22						BOTTOM OF HOLE 21'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
	95	5	0			

REMARKS

FREE WATER
WET
SATURATED
MOIST
SAT.

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

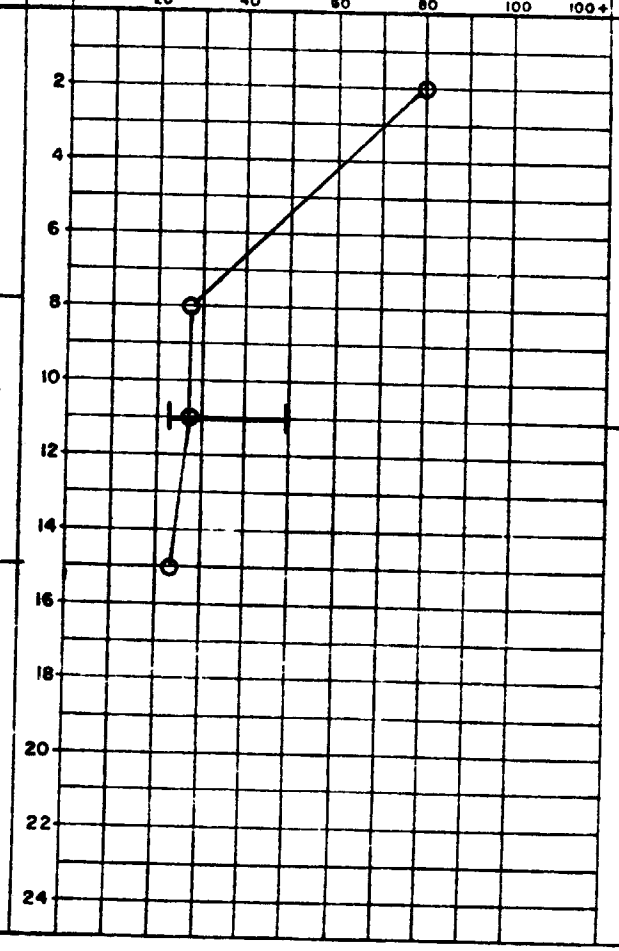
DWN | FIELD ENG | DATE DRILLED 24/8/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG: A18 | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		140

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					SC	SAND - SILTY CLAYEY	F	VS
8						— 8'		
10					CL CH	CLAY - SILTY MED-HIGH PLASTIC		Vc - Vr
15						— 15'		
16						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2							FREE WATER
8							MOIST
12	98	2	0				MOIST
16							MOIST

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET

CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: FLAT | VEGETATION: SPRUCE 6" | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
		140

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					PT	PEAT 1'		
2						SILT - SANDY		
4					ML			Vs
6								
8							F	
10								Vc - Vr
12						SILT		
14						15'		
16						BOTTOM OF HILL - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
	9A-	6	0		FREE WATER	
	85-	15	0		WET	
					MOIST	
	99-	0	0		WET	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG: B50 | SURFACE DRAINAGE: | VEGETATION SPRUCE + BIRCH 4' | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P		140

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 4"		
2					CL	CLAY - SILTY SANDY 3'		Vs
4								
6						DISCONTINUOUS		
8					ML	SILT - SANDY	F	
10						10'		Vs
12					CI	SILTY CLAY - MED. PLASTIC		
14						15'		
16						BOTTOM OF HOLE -15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT | LIQUID LIMIT
20 40 60 80 100 100+

211

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	81	19	0				FREE WATER
4							FREE WATER
8	80	20	0				CAT.
12							WET
14	99	1	0				WET

ROTH

DRILL HOLE REPORT

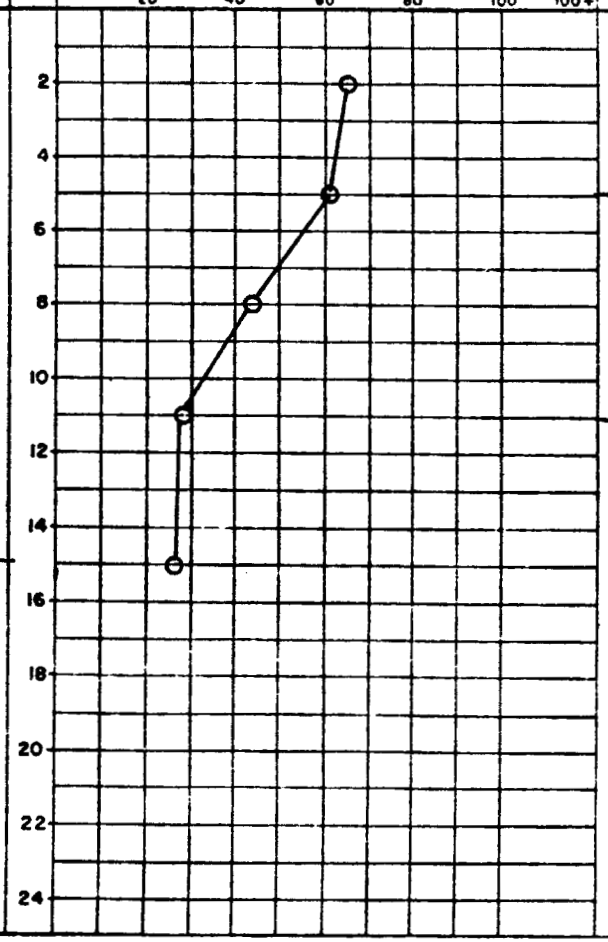
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH	RIG	SURFACE DRAINAGE:	VEGETATION	ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
BP.		40

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT		
2						2.5'		
4						SILT - SANDY		
6								
8					ML	ORGANICS	F	Vs
10						NO ORGANICS		
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS						REMARKS
CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	
				WET		
70	30	0		FREE WATER		
				WET		
61	39	0		WET		
				WET		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/76 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & BIRCH 6" | ELEV

TEST HOLE 7

MILE	B,C,S	NUMBER
B.P.		140

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					PT	PEAT									
2					ML	SILT - SANDY		VS	70	30	0		H.I.B.		
4								TJ							FRESHWATER
6					SM	SAND - SILTY									
8							F	VC-VR	36	64	0		WET		
10					ML	SILT - CLAYEY							WET		
12															
14						15'			99	1	0		WET		
16						BOTTOM OF HOLE - 15'									
18															
20															
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & BIRCH 5" | ELEV

TEST HOLE 1

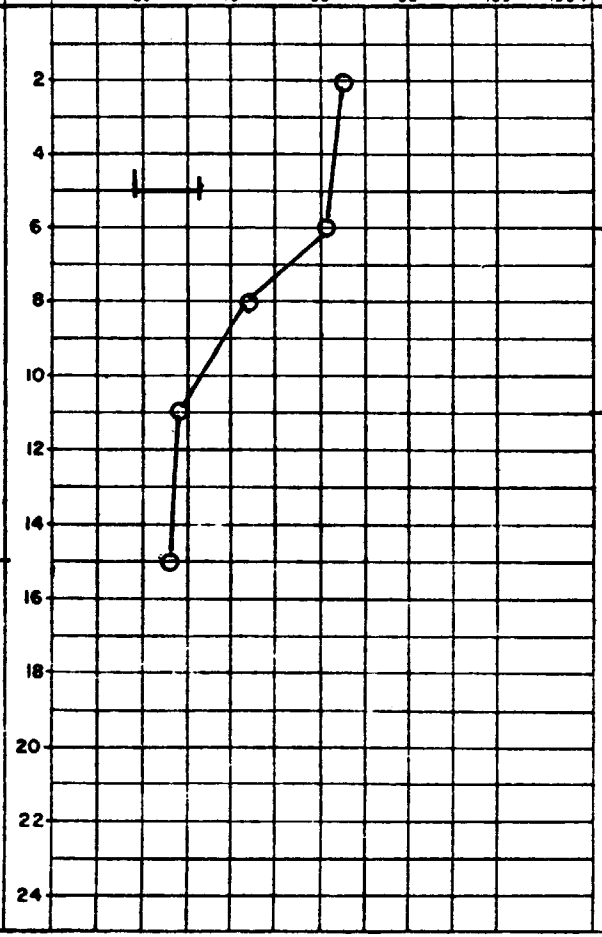
MILE	B,C,S	NUMBER
B.P.		141

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — .5'		
2						CLAY - SILTY SANDY		Vs
4						SOME ORGANICS TO 11'		
6					CI	MED. PLASTIC	F	
8								Vc - Vr
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				MOIST		
82	18	0		SAT - FREE WATER		
				WET		
90	10	0		WET		
				MOIST		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2-9-13-15 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH KRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE & BIRCH | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		141

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 8"		
						CLAY - SILTY		Vs
						SANDY		
						MED. PLASTIC		
					Cl		F	Vc - Vr
						15'		
						BOTTOM OF HOLE - 15		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	81	19	0				FREE WATER
4							SAT.
8	88	12	0				MOIST
10							MOIST
14	100	0	0				MOIST

116

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 23/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		141

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT 4"		
2–14					CL	CLAY - SILTY SANDY MED-HIGH PLASTIC	F	V_c-V_f
					CL	SILTY		
15'						BOTTOM OF HOLE - 15		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2					WET	
6	82	18	0		SAT.	
10					MOIST	
12	99	1	0		MOIST	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 23/3/74 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH 5" | ELEV

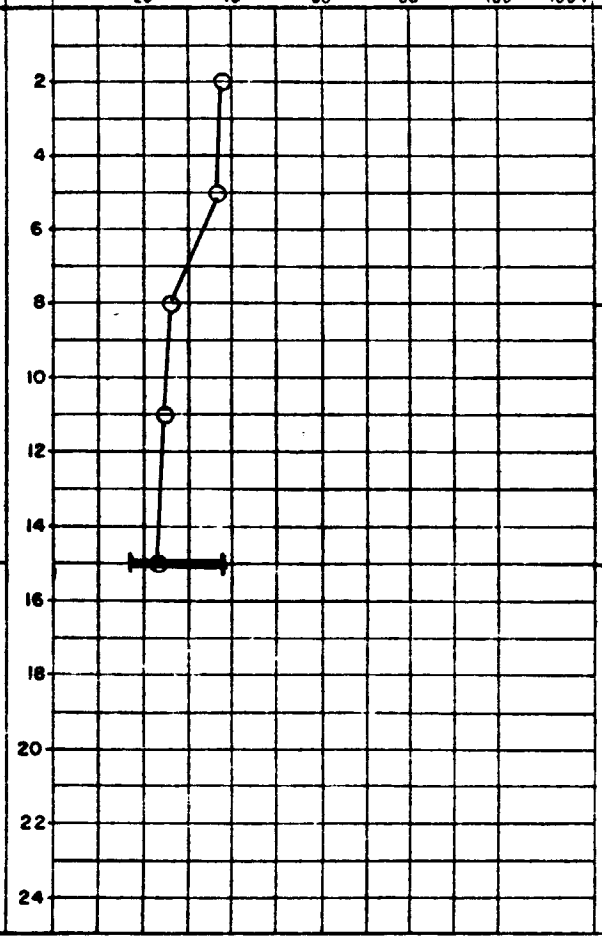
TEST HOLE 4

MILE	B,C,S	NUMBER
		141

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 3"		
2					OL-ML	SILT - ORGANIC CLAYEY		Vs
4						4'		
6					G	CLAY - SILTY SANDY	F	To
8						MED. PLASTIC		
10						SILTY		Vc-Vs
12								
14						15'		
16						BOTTOM OF HOLE. 15		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				Moist		
				Sat.		
84	16	0		Wet		
				Moist		
98	2	0		Damp		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 23/3/15	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH PRONYCH	RIG B-50	SURFACE DRAINAGE	VEGETATION SPRUCE	ELEV

TEST HOLE 5

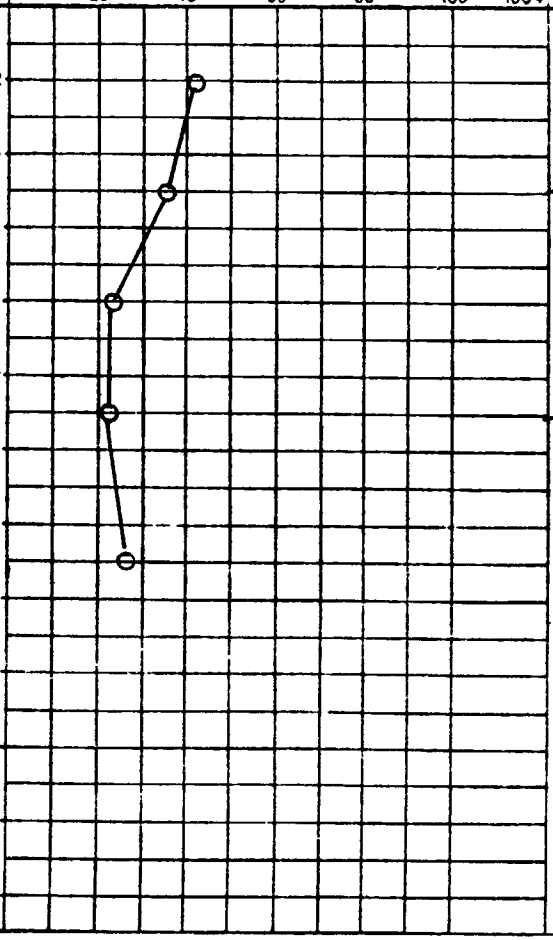
MILE	B,C,S	NUMBER
B.P		141

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 4"		
2						CLAY - SILTY		Vs
4						MED. PLASTIC		
6							F	
8					Cl			
10								Vc-Vl
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					SAT.	
4	98	2	0		SAT	
6						
8					WET	
10						
12	98	2	0		WET	
14						
16					WET	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 23/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH PRONYCH	RIG B-50	SURFACE DRAINAGE:	VEGETATION: SPRUCE	ELEV

TEST HOLE 6

MILE	B,C,S	NUMBER
BP.		141

REMARKS

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0					Pt	PEAT .5'								
2					ML	SILT - CLAYEY SAND 3'			80	20	0		MOIST	
4						CLAY - SILTY							WET	
6						MED. PLASTIC	F	VL - VV						
8					CL				98	2	0		WET	
10														
12													MOIST	
14						15'								
16						BOTTOM OF HOLE - 15'			100	0	0		WET	
18														
20														
22														
24														

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 84/3/15 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE & BIRCH 6" | ELEV:

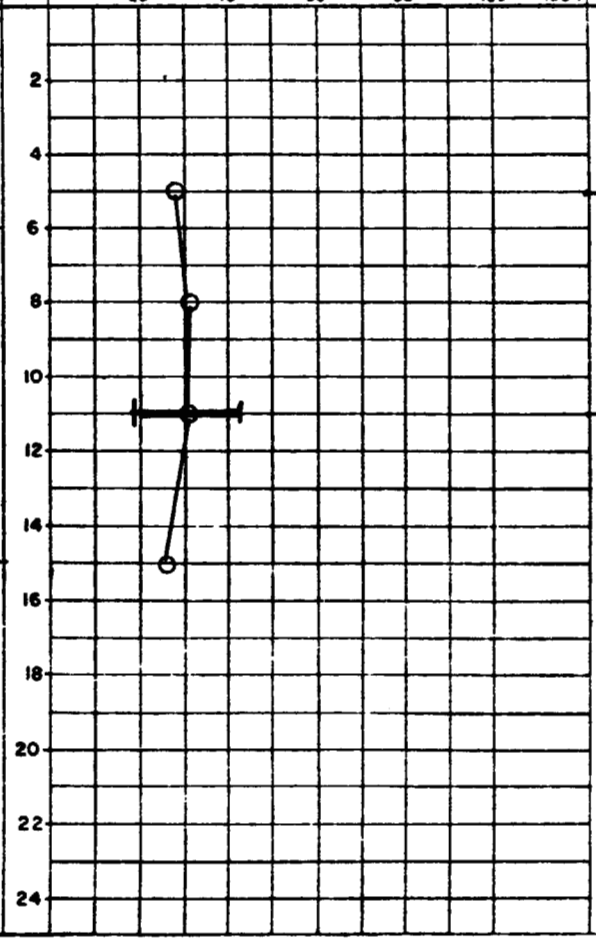
TEST HOLE 1

MILE	B,C,S	NUMBER
B.P		142

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT .5'		
2								Vs
4						CLAY - SILTY SANDY LOW PLASTIC		
6					CL		F	
8								
10								$V_c - V_r$
12					CI	MED. PLASTIC		
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					H.W.T.		
4	78	22	0		FREE WATER		
6							
8					MOIST		
10							
12	98	2	0		MOIST		
14					MOIST		
16							
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG: | DATE DRILLED 24/3/65 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE 10" | ELEV:

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		142

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat 6"		
					CL	Clay - Silty/ Sandy / Silty / Med. Plastic	F	VS / To / Vc-VV
						15' Bottom of Hole - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	83	17	0		SAT.		
6					WET		
8	99	1	0		Moist		
12					Moist		
14	99	1	0		Moist		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P		142

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Vs
4						3'		
6						CLAY - SILTY SANDY		To
8						MED. PLASTIC	F	Vc - Vs
10					Cl	SILTY		
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
4	79	21	0		SAT.		
8					WET		H.I.3.
12	97	3	0		MOIST		
16					MOIST		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED Aug 5/75 | AIRPHOTO NO: | CHAINAGE | OFFSET

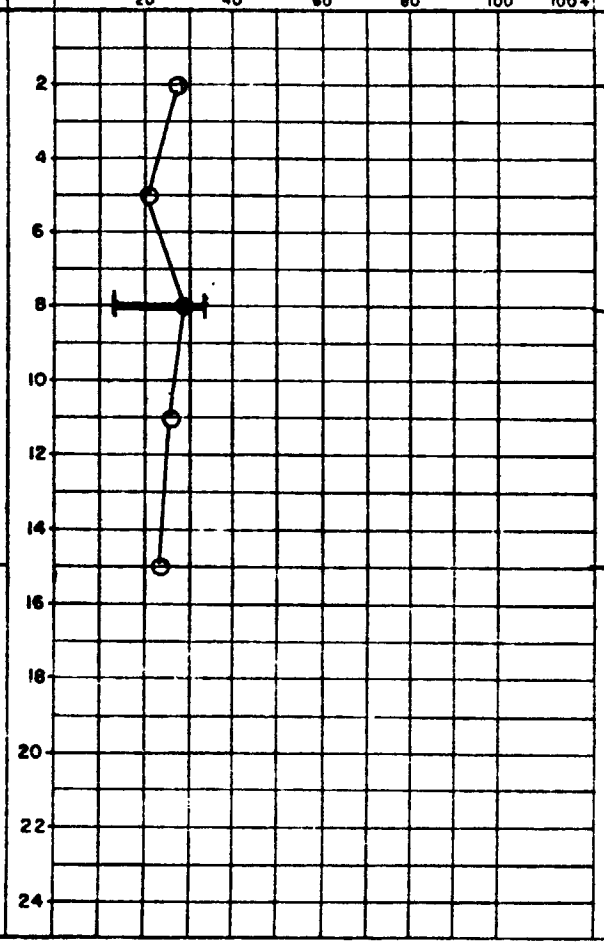
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE 10" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		142

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT — 1'		
2					Mr	SILT - SANDY CLAYEY — 3'		
4						CLAY - SILTY SANDY		
6						MED. PLASTIC	F	Vc - Vr
8					Cl			
10								
12						SILTY		
14						— 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	78	22	0		MOIST	
4					WET	
6						
8	81	19	0		WET	
10						
12					MOIST	
14						
16	96	4	0		DAMP	
18						
20						
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 4/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG: 205 Air | SURFACE DRAINAGE: Flat | VEGETATION: Spruce + Birch 8" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		143

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	Peat 1'									
2						CLAY - Silty		Vs							
4							F		99.	1	0				
6															
8								To							
10						Med. Plastic									
12					Cl				96-	4	0				
14															
16								Vx							
18															
20									100-	0	0				
22															
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

WET DENSITY: DAMP, SAT., WET, DAMP, DAMP
DRY DENSITY: DAMP, DAMP, DAMP

F

Bottom of Hole - 30'

-100-0-0 DAMP

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED May 10/75 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 2

CKD | TECH Reynolds | RIG Air | SURFACE DRAINAGE: Flat | VEGETATION Spruce & Birch 6" | ELEV | MILE B.P. | B,C,S | NUMBER 143

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	DEPTH (FEET)
2					Pt	Peat 2'		Vs	2
4						CLAY-SILTY			4
6								To	6
8						Med. Plastic			8
10					Cl		F		10
12								Vx	12
14									14
16									16
18									18
20									20
22									22
24						24' Bottom of Hole - 24'			24

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
				Sat.		
100	0	0		Wet		
				Wet		
100	0	0		Damp		
				Damp		
99	1	0		Damp		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 29/3/65 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE FLAT | VEGETATION SPRUCE & BIRCH 6" | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
BP.		143

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
0-2					Pt	PEAT		Vs					WET	
2-10					CI	CLAY - SILTY MED. PLASTIC	F	To	98	2	0		SAT.	
10-14									99	1	0		DAMP	
14-20								Vx					DAMP	
20-24									100	0	0		DAMP	
24-30							F						DAMP	

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

-100-0-0 DAMP

BOTTOM OF HOLE - 30'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE & BIRCH 6" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		143

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT		
2–12					CL	CLAY - SILTY SANDY SILTY MED. PLASTIC	F	Vx

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)
PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET M.I.S.	
4	88	12	0		SAT.	
8					MOIST	
10	99	1	0		DAMP	
14					DAMP	
20	100	0	0		DAMP	
24					DAMP	

F

DAMP

BOTTOM OF HOLE - 30

DRILL HOLE REPORT

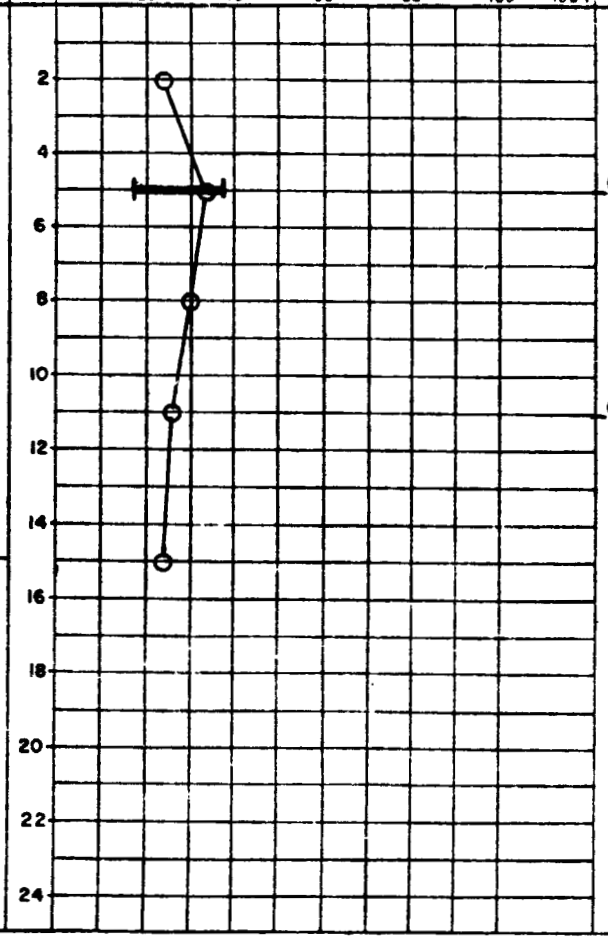
DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 24/3/76	AIRPHOTO NO:	CHAINAGE:	OFFSET
CKD	TECH PRONYCH	RIG B-50	SURFACE DRAINAGE:	VEGETATION SPRUCE & BIRCH 4"	ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		144

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 4"		
2						CLAY - SILTY		
4						MED. PLASTIC		
6					Cl		F	Vc - Vr
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
				Moist		
99	1	0		Wet		H.I.B.
				Moist		
99	1	0		Moist		
				Damp		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

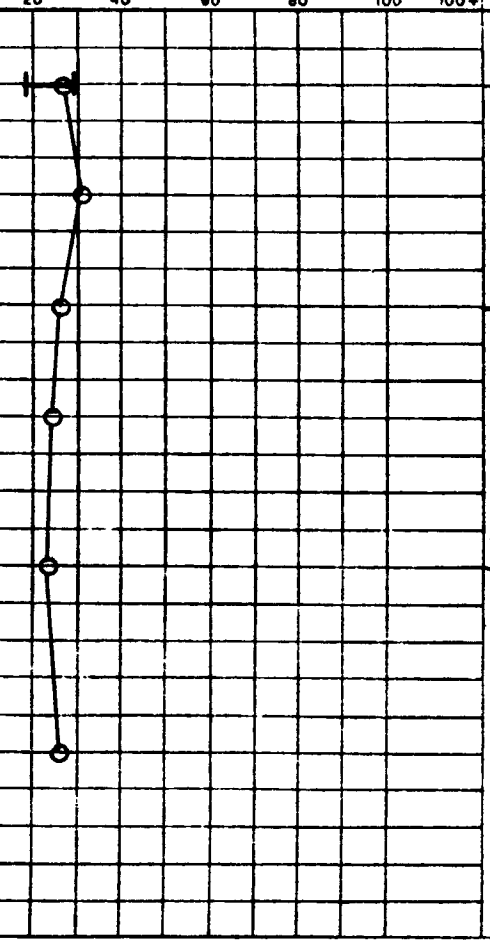
DWN | FIELD ENG | DATE DRILLED 24/8/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYK | RIG B-50 | SURFACE DRAINAGE: | VEGETATION BIRCH + SPRUCE | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		144

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 2"		
2					CL	CLAY - SILTY Low Plastic		
4								
6								
8					CI	MED. PLASTIC		Vc-Vr
10							F	
12								
14								
16								
18								
20						20'		
22						BOTTOM OF HOLE - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	94.	6	0		WET		
4					WET		
6							
8	98.	2	0		Moist		
10					Moist		
12							
14	99.	1	0		Moist		
16							
18							
20					Moist		
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24 3 74 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: | ELEV:

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P.		149

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 4"		
2						CLAY - SILTY		
4						MED PLASTIC		
6					Cl		F	Vc-Vr
8								
10								
12								
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	94	6	0		WET	
4					WET	
6						
8	99	1	0		WET	
10						
12					MOIST	
14						
16	100	0	0		MOIST	
18						
20						
22						
24						

RD93

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 2/4/76 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION Spruce-Birch-Poplar 6" | ELEV

TEST HOLE 9

MILE	B,C,S	NUMBER
B.P.		144

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	Peat — 4"		
2					CL	Clay - Silty		Vs
4								To
6						Med. Plastic	F	
8								V_C-V_f
10								
12								
14						15'		
16						Bottom of Hole - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2					SAT.		
4	97	3	0		WET		
6							
8					WET		
10							
12	97	3	0		Moist		
14							
16					Moist		
18							
20							
22							
24							

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/8/76 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: BIRCH + SPRUCE 8" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P		145

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 2"		
2					Cl	CLAY - SILTY MED PLASTIC	F	$V_c - V_r$
4								
6								
8								
10								
12								
14								
16								
18								
20						20'		
22						BOTTOM OF HOLE - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT ⟷ LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2	94	6	0		Moist	
4					Wet	
8	92	8	0		Moist	
10					Moist	
14	99	1	0		Moist	
20					Wet	

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 2/11/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: BIRCH 8" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		145

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 2"		
2						CLAY-SILTY SANDY		
4								
6						SILTY		
8						MED. PLASTIC		Vc-Vr
10					Cl		F	
12								
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2	71	29	0				DAMP
6							WET
8	98	2	0				WET
10							MOIST
14	99	1	0				MOIST
20							MOIST
24	100	0	0				MOIST

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: Brush 8" | ELEV

TEST HOLE 3

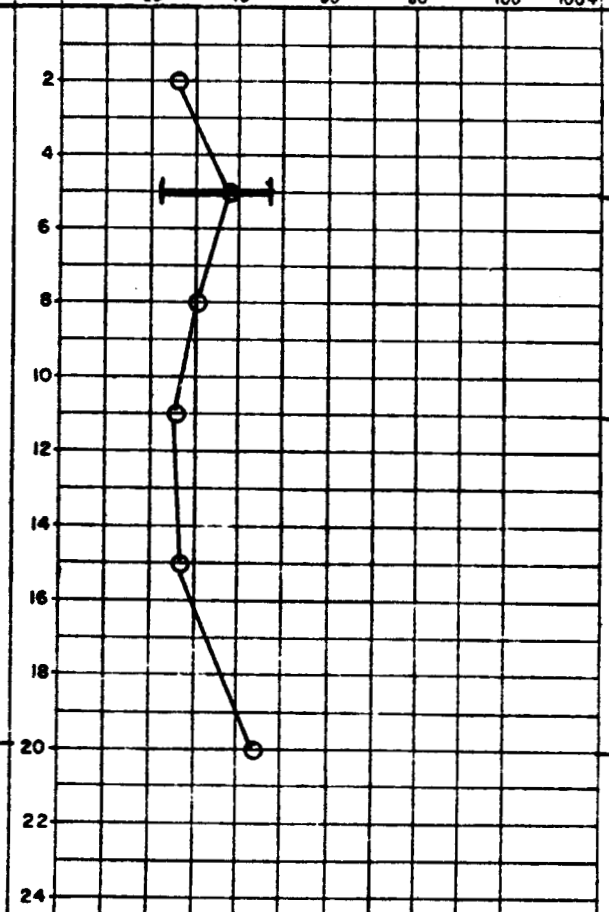
MILE	B,C,S	NUMBER
B.P		145

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	Peat		
2						CLAY - Silty 2' Org. to 3'		
4								
6						Med. Plastic		
8							F	Vc - Vr
10					Cl			
12								
14								
16								
18								
20						20'		Vs
22						Bottom of Hole - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)
2					Mast	
4						
6	99	1	0		Wet	
8					Mast	
10						
12	99	1	0		Mast	
14						
16					Mast	
18						
20	100	0	0		Sat	
22						
24						

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

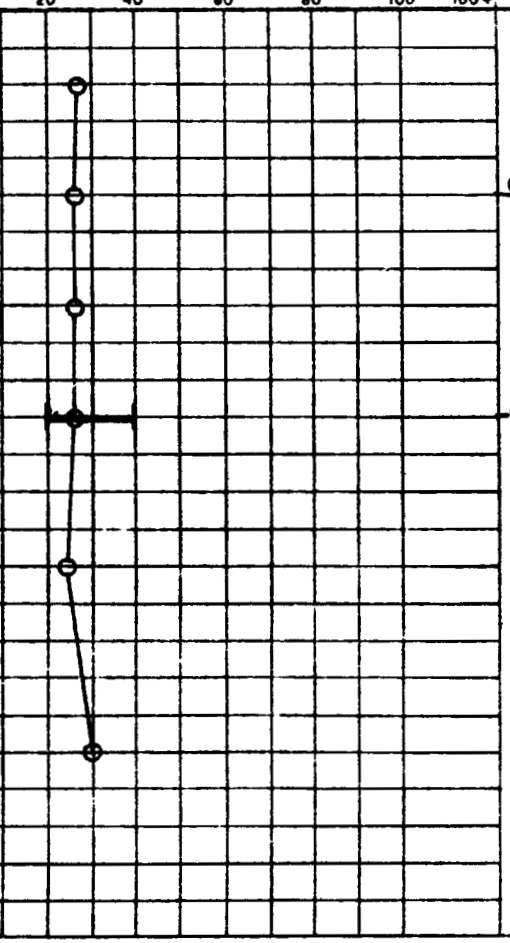
DWN: | FIELD ENG: | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD: | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: BIRCH 8" | ELEV:

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P		145

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					PT	PEAT 2"		
2						CLAY - SILTY		
4								
6						MED. PLASTIC		
8					CL		F	Vc-Vr
10								
12								
14								
16								
18								
20						20'		
22						BOTTOM OF HOLE - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2					WET		
4	91	9	0		MOIST		
6							
8					MOIST		
10	97	3	0		MOIST		
12							
14					MOIST		
16							
18							
20					MOIST		
22							
24							

RD73

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 24/8/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: BIRCH 6" | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		145

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 1"		
2						CLAY - SILTY SANDY		
4								
6						SILTY		
8								Vc-Vs
10						MED. PLASTIC		
12					Cl		F	
14								
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					DAMP	
4	81	19	0		WET	
6						
8					WET	
10						
12	98	2	0		WET	
14						
16					MOIST	
18						
20						
22						
24	100	0	0		MOIST	

BOTTOM OF HOLE - 25

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 25/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH PROVYCH	RIG: B-50	SURFACE DRAINAGE:	VEGETATION: SPRUCE	ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		146

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT 8"		
2						CLAY - SILTY SANDY PEBBLE COBBLES @ 5' SILTY		
8					Cl	MED. PLASTIC	F	$V_C - V_r$
20						20' BOTTOM OF HOLE - 20'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
2	73	21	6		H.I.B.		
6					H.I.B.		SAT.
8	97	3	0		H.I.B.		WET
10					MOIST		
16	100	0	0		MOIST		
20					MOIST		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN	FIELD ENG	DATE DRILLED 25/3/75	AIRPHOTO NO:	CHAINAGE	OFFSET
CKD	TECH PRONYCHI	RIG B-50	SURFACE DRAINAGE:	VEGETATION SPRUCE	ELEV

TEST HOLE 2

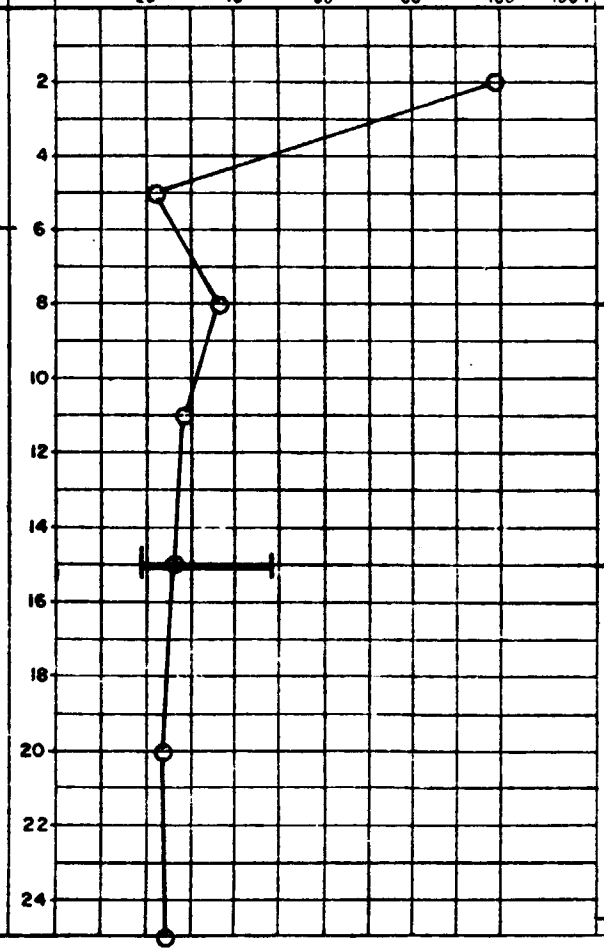
MILE	B,C,S	NUMBER
B.P.		146

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
					Pt	PEAT — 1.5'		
2					CL	CLAY-SILTY ORG. — 3'		V_S
4					SC	SAND-SILTY CLAYEY		
6						— 7'		
8						CLAY - SILTY	F	
10						MED. PLASTIC		V_C - V_r
12								
14					CI			
16								
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS						
DEPTH (FEET)	CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
8	98	2	0			
14	99	1	0			
24	100	0	0			

DEPTH (FEET)	REMARKS
	FREE WATER
	SAT.
8	WET
	MOIST
14	MOIST
	DAMP
24	DAMP

BOTTOM OF HOLE - 25'

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 25/3/15 | AIRPHOTO NO: | CHAINAGE | OFFSET | TEST HOLE 3

CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION SPRUCE | ELEV | MILE B.P. | B,C,S | NUMBER 146

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT									
3'															
4					CL	CLAY - SILTY	F	$V_c - V_r$	100	0	0		WET		
6						MED. PLASTIC									
8													WET		
10									98	2	0		WET		
12															
14															
16													MOIST		
18															
20									100	0	0		WET		
20'															
22						BOTTOM OF HOLE - 20'										
24															

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 26/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH PRONYCH | RIG: B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		146

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2.5'		
2–6					OL / ML	SILT – ORGANIC — 5.5'		
6–12						CLAY - SILTY MED. PLASTIC		
12–24					CL		F	Vc-Vw

BOTTOM OF HOLE - 25'

O = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)
2					WET	
4						
6					H.I.B	
8					MOIST	
10						
12	99	1	0		MOIST	
14						
16					MOIST	
18						
20	100	0	0		MOIST	
22						
24					MOIST	

REMARKS

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 25/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:

CKD | TECH PRONYCH | RIG B-50 | SURFACE DRAINAGE: | VEGETATION: SPRUCE | ELEV

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		146

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0					Pt	PEAT 1'		
2						CLAY - SANDY SILTY		Vs
4								
6						SILTY		
8						MED. PLASTIC		
10					Cl		F	
12								Vc-Vr
14								
16								
18								
20						20		
22						BOTTOM OF HOLE - 20'		
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2	87	13	0		SAT.		
4					SAT.		
8	99	1	0		WET		
12					Most		
14	98	2	0		Most		
20					Most		

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24/7/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH REYNOLDS | RIG: AIR | SURFACE DRAINAGE: | VEGETATION: SPRUCE + BIRCH 6" | ELEV

TEST HOLE 1

MILE	B,C,S	NUMBER
B.P.		147

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
0					Pt	PEAT									
2					CL	CLAY-SILTY SANDY 2'		Vs	82	17	1		SAT.		
4					SM	SAND-SILTY FINE 3'		To					WET		
6							F								
8									13	87	0		WET		
10								Vx							
12						12'							DAMP		
14					CI	CLAY-SILTY MED. PLASTIC									
16									94	6	0		MOIST		
18								Vc-Vr							
20													WET		H.I.B.
22								I							
24								Vs	94	6	0		WET		H.I.B.

O = WATER CONTENT (% OF DRY WEIGHT)
Δ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

F

BOTTOM OF HOLE - 30'

WET

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 24 3 75 | AIRPHOTO NO: | CHAINAGE | OFFSET

CKD | TECH REYNOLDS | RIG 741R | SURFACE DRAINAGE: | VEGETATION SPRUCE + BIRCH 6" | ELEV

TEST HOLE 2

MILE	B,C,S	NUMBER
B.P.		147

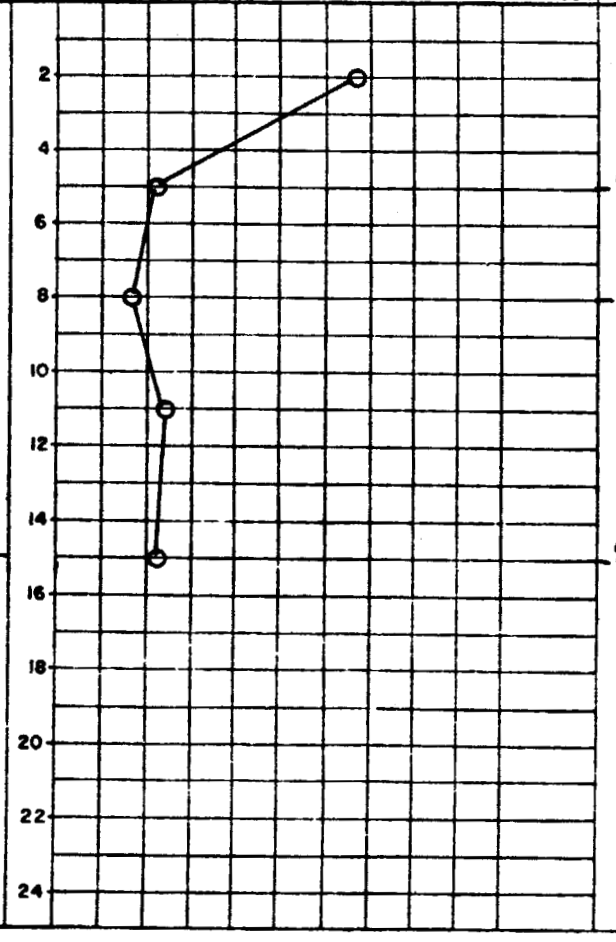
REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		Vs
4						SILTY 5'		
6					Sc	SILT - SANDY CLAYEY	F	To
8								
10					SP	FINE - COARSE		Vc-Vr
12						PEBBLES		
14					CL	CLAY - SILTY SANDY 15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT

20 40 60 80 100 100+



GRAIN-SIZE ANALYSIS				WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	REMARKS
CLAY %	SILT %	SAND %	GRAVEL %			
						FREE WATER
59	41	0				SAT.
66	34	0				MOIST
						WET
59	37	4				MOIST

ROPS

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

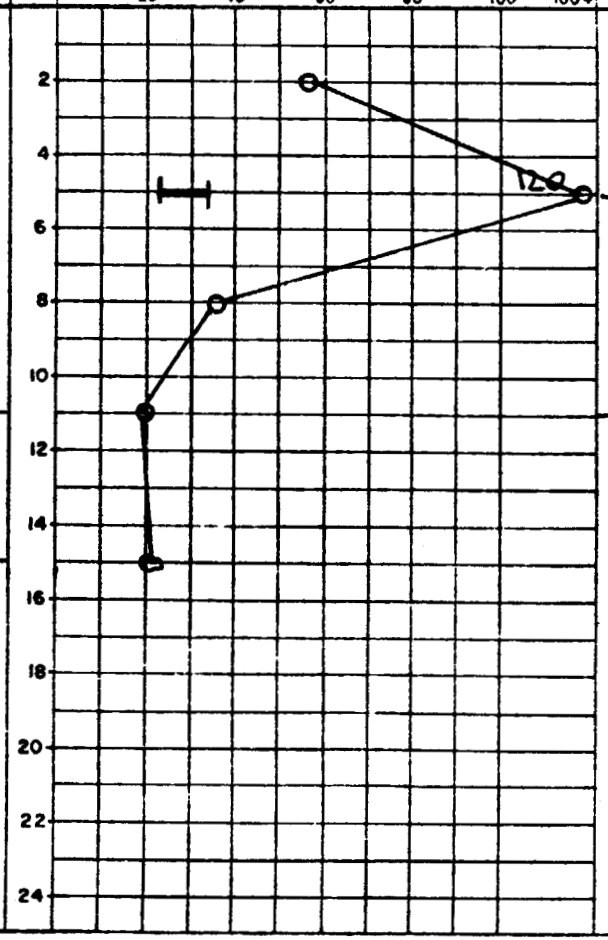
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CKD | TECH REYNOLDS | RIG: A10 | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE + BIRCH | ELEV

TEST HOLE 3

MILE	B,C,S	NUMBER
B.P		147

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2					Pt	PEAT — 2'		
2–11					CI	CLAY - SILTY / MED. PLASTIC Rock's @ 6' 11' — 11'	F	Vs
11–15					ML SM	SILT-SAND MIXTURE PEBBLES — 15'		Vc - Vr
15–24						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)



DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2					SAT.		
6	95	5	0		Free Water		
8					SAT.		
11	49	44	7		WET		
15					WET		

R073

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG | DATE DRILLED 21/3/75 | AIRPHOTO NO: | CHAINAGE | OFFSET
CKD | TECH Reynolds | RIG B-50 | SURFACE DRAINAGE: FLAT | VEGETATION: Spruce & Birch 6" | ELEV

TEST HOLE 4

MILE	B,C,S	NUMBER
B.P.		147

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
0–2						CLAY-SILTY		Vs
2–4						PEBBLES		
4–6								
6–8					CL	LOW PLASTIC	F	
8–10						SILTY		
10–12								
12–14								
14–15'								
15'						BOTTOM OF HOLE - 15'		

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (P.C.F.)	DRY DENSITY (P.C.F.)	
2							FREE WATER
4							FREE WATER
8	88	8	4				SAT.
10							WET
14	94	6	0				WET

150

ROTH

DRILL HOLE REPORT

DEPARTMENT OF PUBLIC WORKS, CANADA
MACKENZIE HIGHWAY

DWN | FIELD ENG. | DATE DRILLED 24/3/75 | AIRPHOTO NO: | CHAINAGE: | OFFSET:
CKD | TECH REYNOLDS | RIG AIR | SURFACE DRAINAGE: FLAT | VEGETATION SPRUCE & BIRCH 6" | ELEV:

TEST HOLE 5

MILE	B,C,S	NUMBER
B.P.		147

REMARKS

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	% RECOVERY	PENETRATION RESISTANCE	UNIFIED SOIL SYMBOL	SOIL DESCRIPTION	LIMITS OF FROZEN GROUND	ICE DESCRIPTION
2					Pt	PEAT		
4						5'		
6						CLAY - SILTY SANDY		Vs
8							F	
10					CL	Pebbles		
12						LOW PLASTIC		
14						15'		
16						BOTTOM OF HOLE - 15'		
18								
20								
22								
24								

○ = WATER CONTENT (% OF DRY WEIGHT)
△ = ICE CONTENT (% OF SAMPLE VOLUME)

PLASTIC LIMIT — LIQUID LIMIT
20 40 60 80 100 100+

125

DEPTH (FEET)	GRAIN-SIZE ANALYSIS CLAY %	SILT %	SAND %	GRAVEL %	WET DENSITY (PCF)	DRY DENSITY (PCF)	REMARKS
2							Groundwater
4	78	22	0				Groundwater
6							
8							H.I.B.
10							
12	62	35	3				Wet
14							Wet
16							
18							
20							
22							
24							

R073

DRAWING No. SHEET No. TOTAL SHEETS

PLAN

ALIGNMENT
TOPOGR. NOTES
PROFILE
BORROW AREAS
STRUCTURES NOTED

	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE

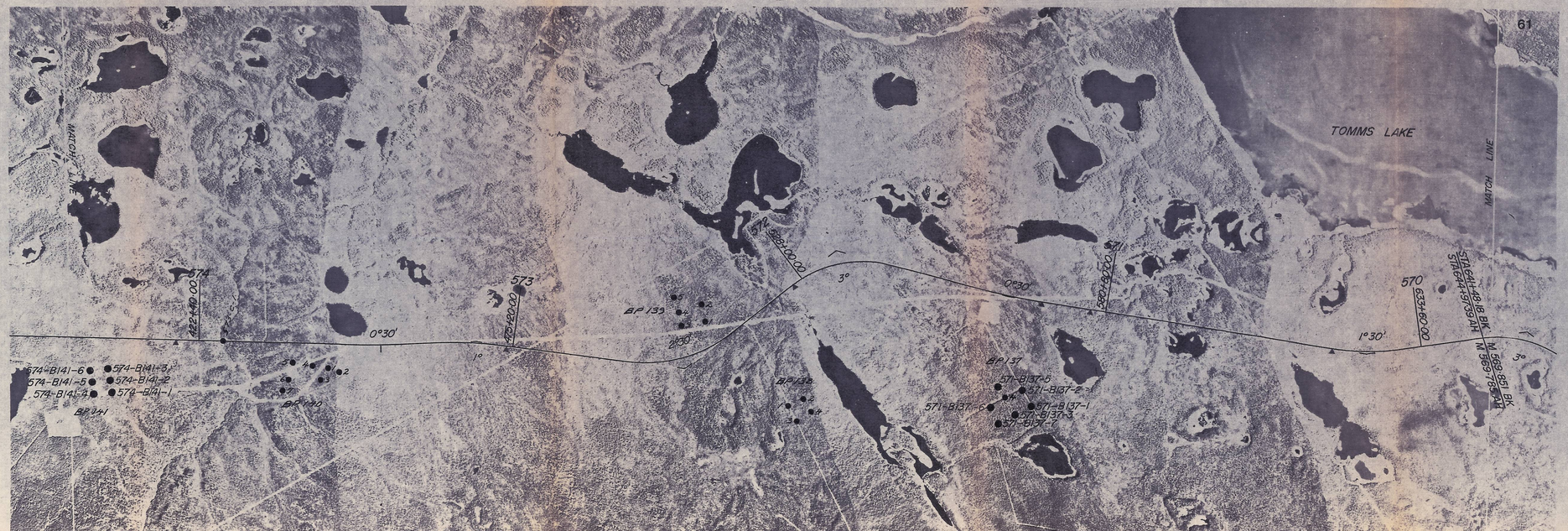
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DRAWING No.	SHEET No.	TOTAL SHEETS

PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
PIPE LINE						
BORROW AREAS						
STRUCTURES NOTED						

BY	DATE



	BY	DATE

PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						



MOSAIC

0 500' 1000'

DRAWING No.

SHEET No.

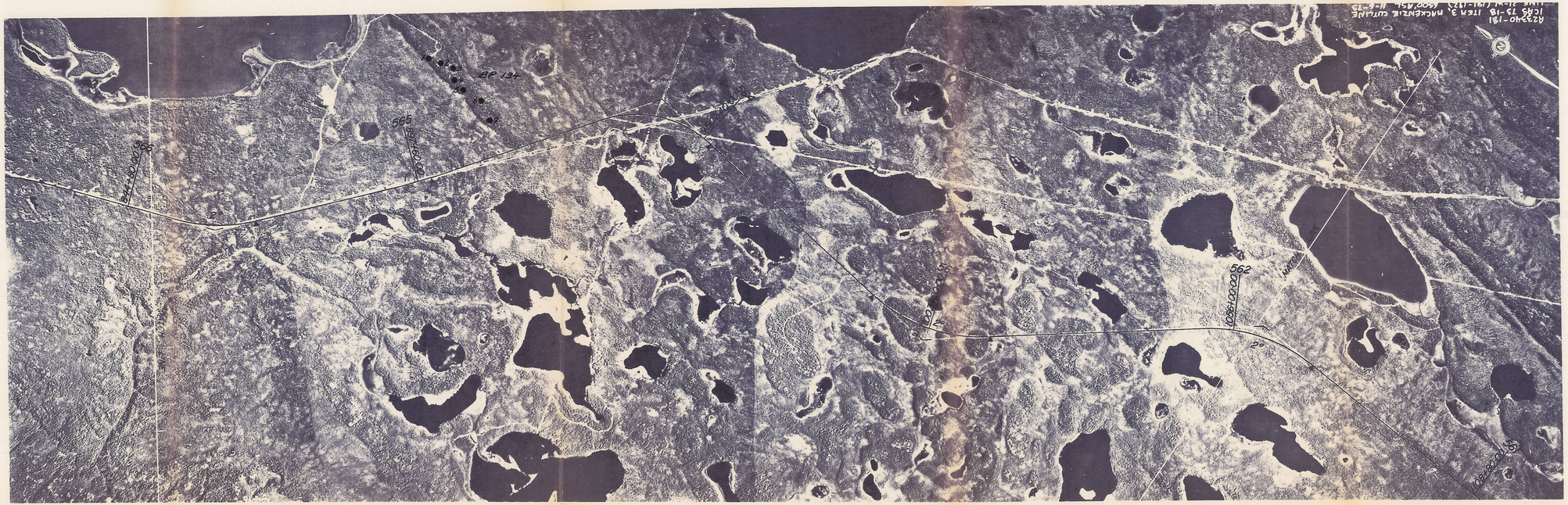
TOTAL SHEETS

DRAWING No. | SHEET No. | TOTAL SHEETS

PLAN
ALIGNMENT
TOPOGR. NOTES
DRAINAGE
BORROW AREAS
STRUCTURES NOTED

	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE

BY	DATE

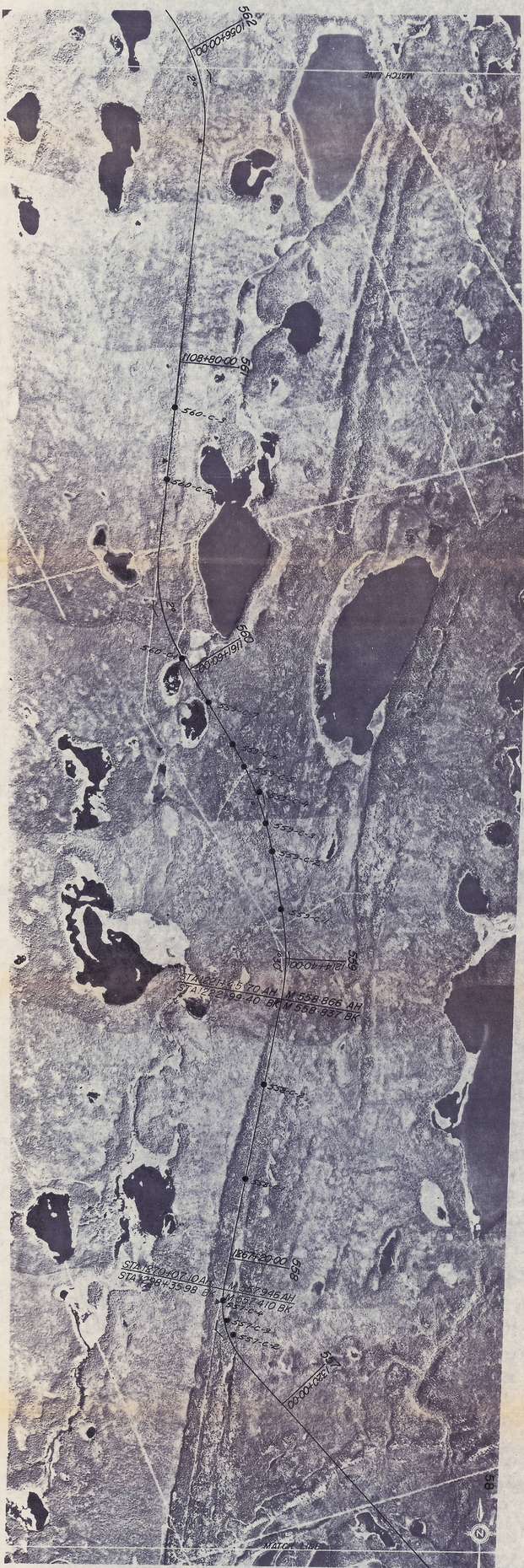


A23340-181
ICAS 75-18 ITEM 3. MCKENZIE OUTLINE
THIS DRAWING (7) IS ATTD. (8) TO REPORT

MOSAIC 0 500' 1000'

BY	DATE

PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						



MOSAIC 0 500' 1000'

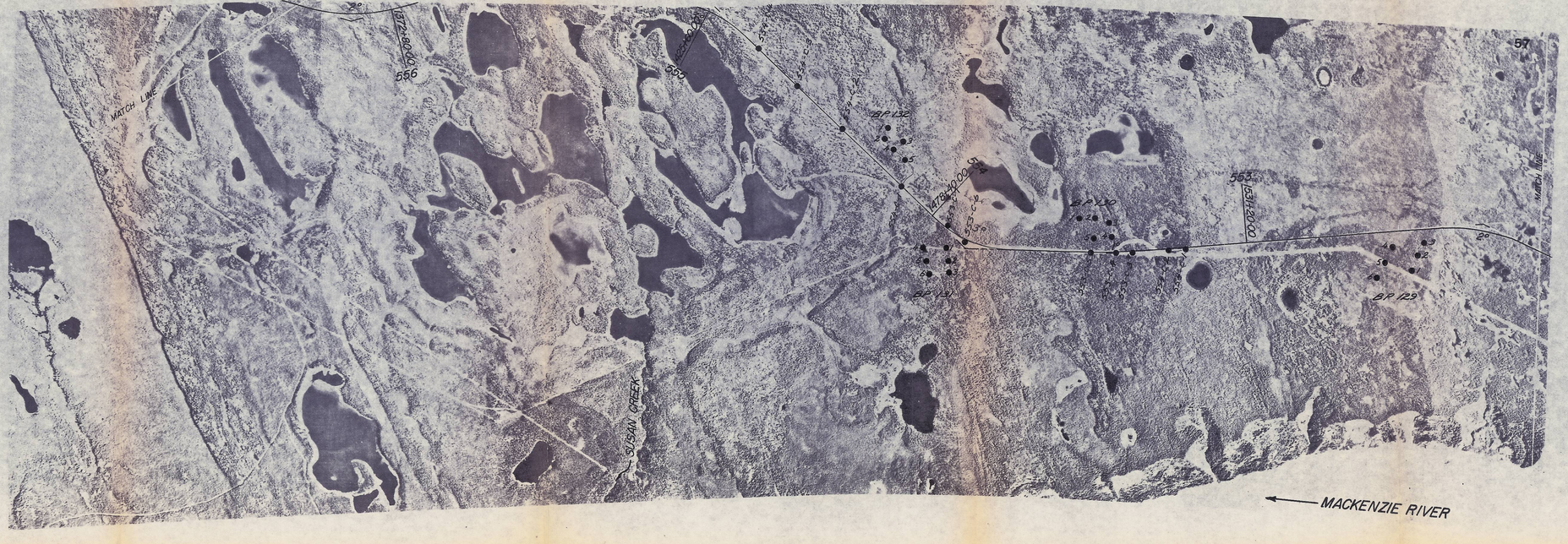
DRAWING No.

SHEET No. TOTAL SHEETS

DRAWING No. | SHEET No. | TOTAL SHEETS

PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
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TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						

BY	DATE

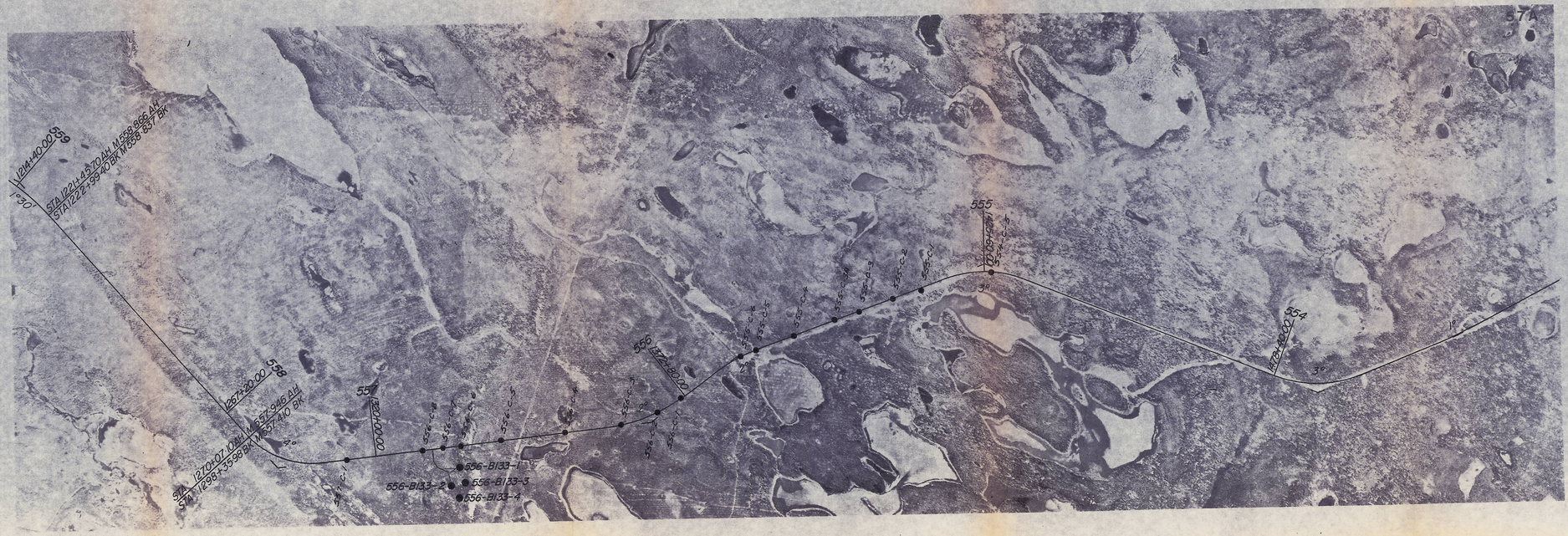


MOSAIC 0 500' 1000'

PLAN
ALIGNMENT
TOPOGR. NOTES
DRAWINGS
BORROW AREAS
STRUCTURES NOTED

	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE

	BY	DATE



MOSAIC 0 500' 1000'

DRAWING No. SHEET No. TOTAL SHEETS

PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						

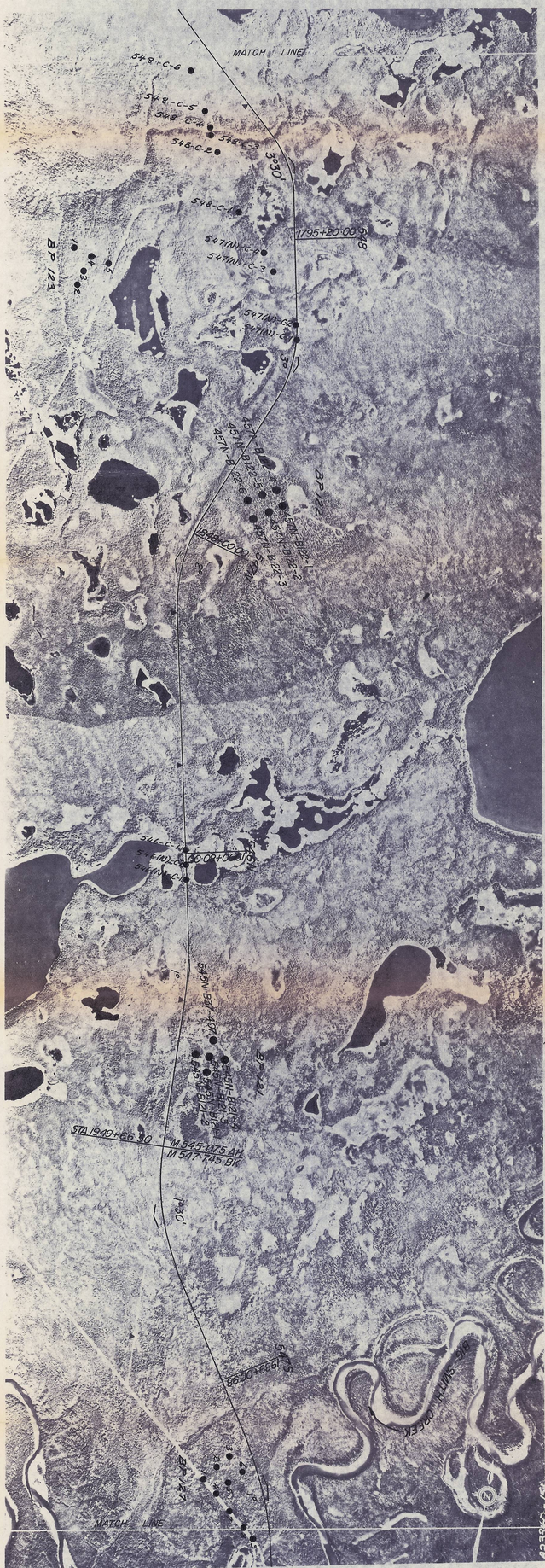
BY	DATE

FIELD



	BY	DATE
FIELD		

PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						



MOSAIC

0 500' 1000'

DRAWING No. SHEET No. TOTAL SHEETS

DRAWING No. SHEET No. TOTAL SHEETS



*MOSAIC

0 500' 1000'

PLAN
ALIGNMENT
COVER NOTES
DRAINAGE
BORROW AREAS
STRUCTURES NOTED

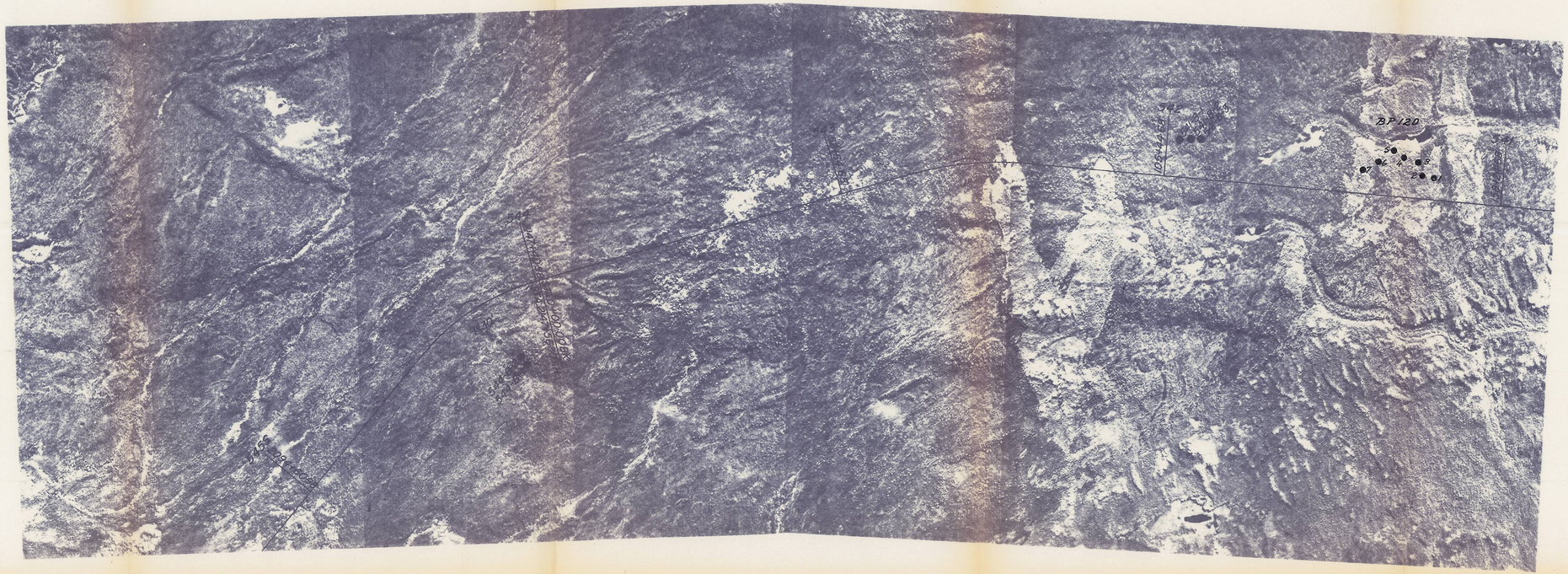
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DATE						

ATION
(N.F.H.D.)

DRAWING No SHEET No TOTAL SHEETS

PLAN
ALIGNMENT
TOPOGR NOTES
DRAINAGE
BRIDGE AREAS
PROFILES (WITH)

DATE SURVEYED DATE INVESTIGATED DATE DRAWN DATE CHECKED



PLAN

ALIGNMENT
TOPSOIL NOTES
DRAINAGE
BORROW AREAS
STRUCTURES NOTED

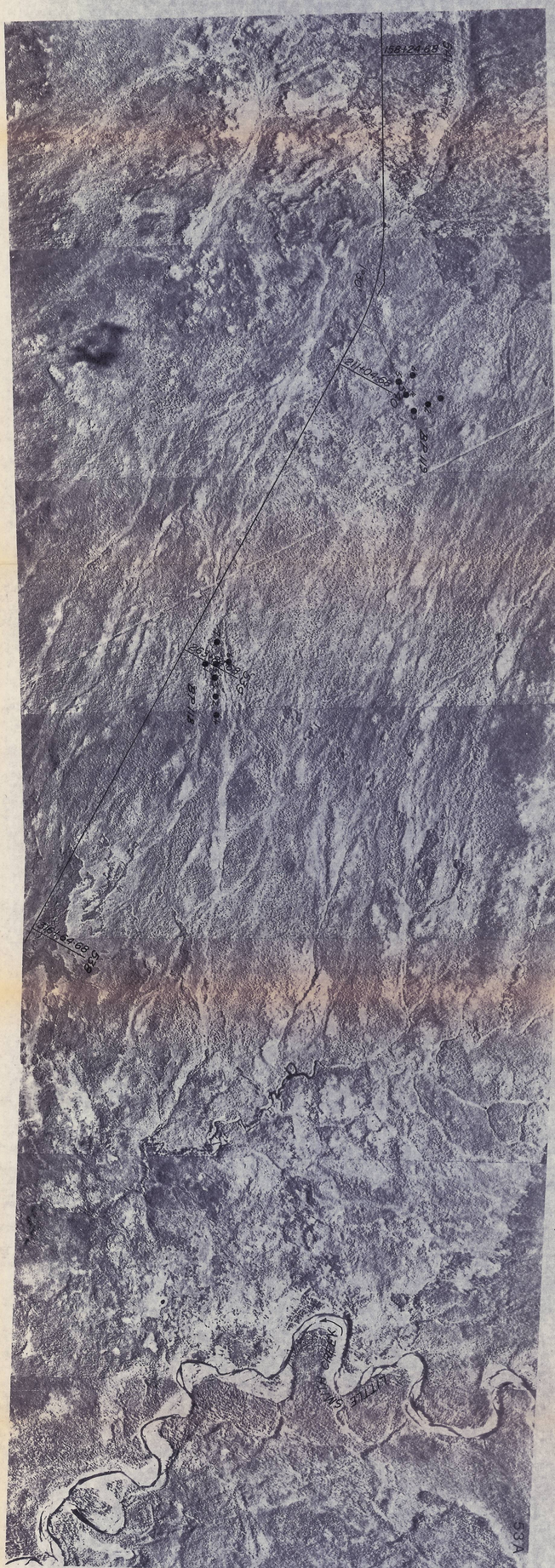
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BY DATE

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...ATED IN FIELD

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PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						



MOSAIC

0 500' 1000'

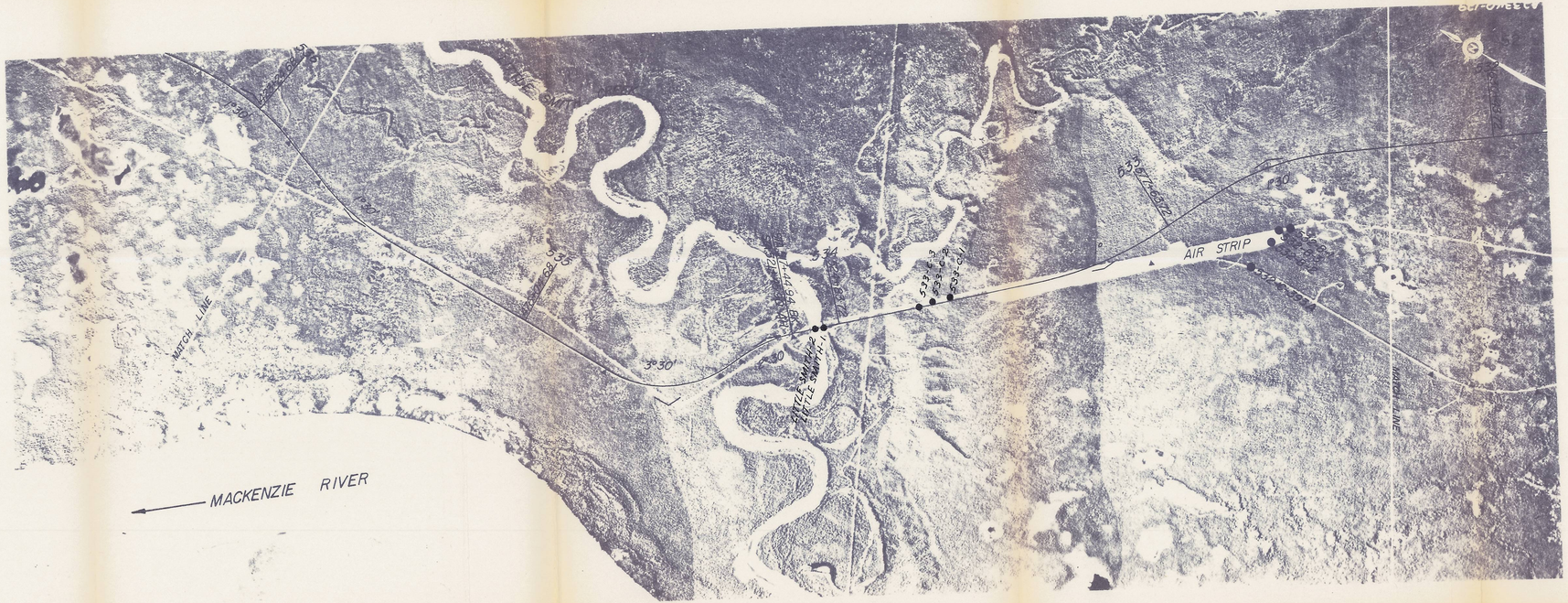
DRAWING No. SHEET No. TOTAL SHEETS

DRAWING No. SHEET No. TOTAL SHEETS

PLAN

1. ROADS
TOWER NOTES
DRAINAGE
BORROW AREAS
PROFILE

SURVEYED DATE REVISED DATE CHECKED DATE



MOSAIC 0 500' 1000'

DRAWING No. SHEET No. TOTAL SHEETS

PLAN

DRAWING No SHEET No TOTAL SHEETS

PLAN



MOSAIC 0 500' 1000'

DRAWING No. SHEET No. TOTAL SHEETS

PLAN
ALIGNMENT
TOPOGR NOTES
DRAINAGE
BORROW AREAS
STRUCTURES NOTED

DATE BY

DATE CHECKED

DATE PLOTTED

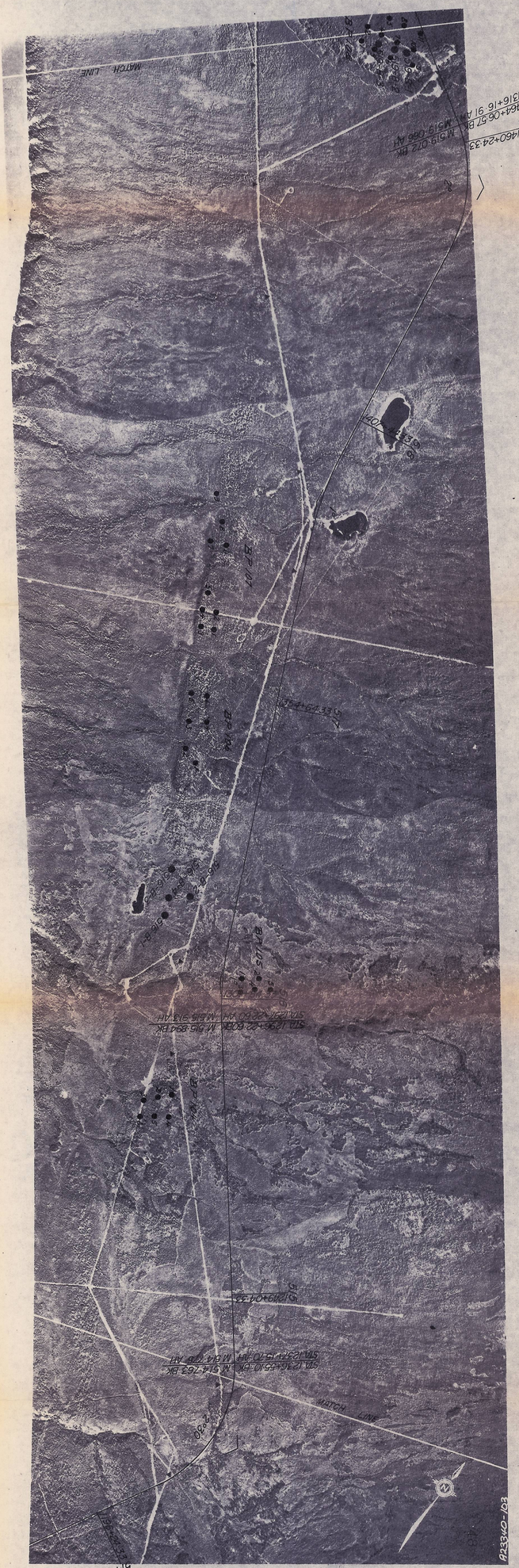
DATE SURVEYED



MOSAIC 0 500' 1000'

PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						

BY	DATE



MOSAIC

0 500' 1000'

DRAWING No. SHEET No. TOTAL SHEETS

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PLAN	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE
ALIGNMENT						
TOPOGR. NOTES						
DRAINAGE						
BORROW AREAS						
STRUCTURES NOTED						

	BY	DATE



MOSAIC 0 500' 1000'

DRAWING No.	SHEET No.	TOTAL SHEETS

PLAN
ALIGNMENT
TOPOGRAPHIC NOTES
DRAINAGE
BORROW AREAS
STRUCTURES NOTED

	SURVEYED	DATE	PLOTTED	DATE	CHECKED	DATE

	BY	DATE
FIELD		

