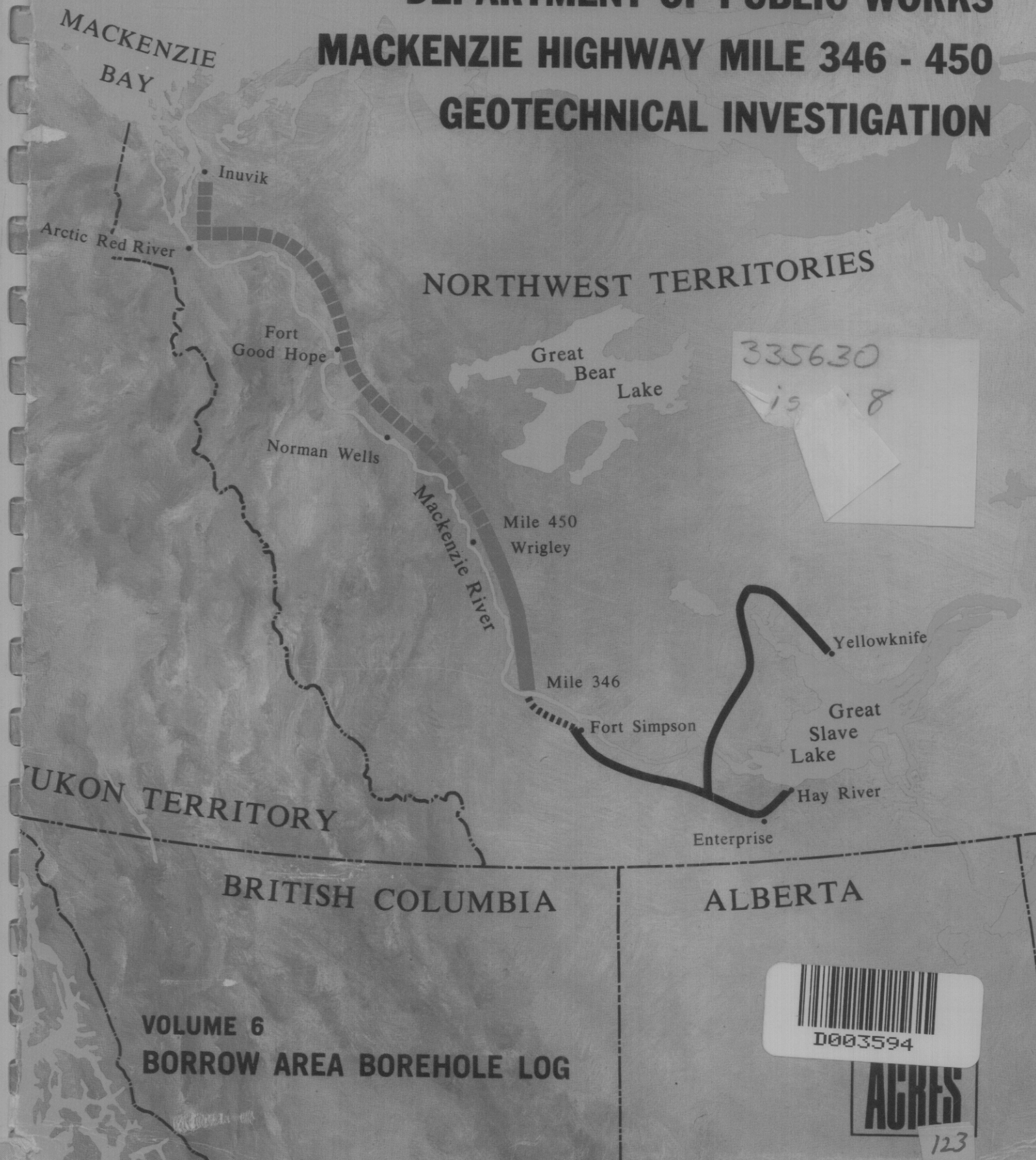


BEAUFORT SEA

BANKS
ISLAND

VICTORIA
ISLAND

DEPARTMENT OF PUBLIC WORKS MACKENZIE HIGHWAY MILE 346 - 450 GEOTECHNICAL INVESTIGATION



VOLUME 6
BORROW AREA BOREHOLE LOG



D003594

ACRES

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 7/3/77 | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|--|-------|--|-----------|--|---------------------|------|------|--------|---|-------------------------|---------|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-6 | | CHAINAGE: | | OFFSET: | | ELEV: | | TEST HOLE | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | | | | | | | | | | | | | | | | | | | | |
| 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) | | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | | | | |
| | | | | | | | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | | | | |
| | | | | | | | | | | | | | | | | % | % | % | % | | | | | | | | | | |
| | | | | | PE | PEAT | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | ML-CL | BROWN SILT TILL, CLAYEY AND SANDY WITH SOME GRAVEL AND COBBLES | F | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | | | | ML-CL | | F | V _x | 10 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 14 | 3 | | | | | BROWN GREY | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 18 | 4 | | | | ML-CL | | F | V _r | 20 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | END OF HOLE AT 20' | | | | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 7/3/77 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|--|------|-----------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-6 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | ML-CL | BROWN SILT TILL, CLAYEY AND SANDY WITH SOME GRAVEL AND A TRACE OF BOULDERS | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 2 | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | F | N _{bn} | 10 | | | | | | | |
| 12 | 3 | | | | ML-CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | 4 | | | | | | | N _f | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 7/3/73 | | AIRPHOTO NO: A22771-6 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML-CL | BROWN SILT TILL, CLAYEY AND SANDY WITH SOME GRAVEL AND COBBLES | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | ML-CL | | | N _{bn} | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|---------------------|--|------------------------|--|---|--|---------------------|--|---|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|----------|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED 8/3/73 | | AIRPHOTO NO: A22771-7 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | | | |
| | | | | | | | | | | | | | | | | | | | | CLAY % | | SILT % | | SAND % | | GRAVEL % | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 0.3' OF PEAT | | | | | | | | | | | | | | | | | |
| 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | BROWN SANDY SILT TILL WITH SOME CLAY AND A TRACE OF GRAVEL AND BOULDERS | | F | | N _{bn} | | 2 | | | | | | | | | | | |
| 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | | | | | | | 4 | | | | | | | | | | | |
| 6 | | 6 | | 6 | | 6 | | 6 | | 6 | | | | | | | | 6 | | | | | | | | | | | |
| 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | | | | | | | 8 | | | | | | | | | | | |
| 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | CL | | | | | | 10 | | | | | | | | | | | |
| 12 | | 12 | | 12 | | 12 | | 12 | | 12 | | | | | | | | 12 | | | | | | | | | | | |
| 14 | | 14 | | 14 | | 14 | | 14 | | 14 | | | | | | | | 14 | | | | | | | | | | | |
| 16 | | 16 | | 16 | | 16 | | 16 | | 16 | | | | | | | | 16 | | | | | | | | | | | |
| 18 | | 18 | | 18 | | 18 | | 18 | | 18 | | | | | | | | 18 | | | | | | | | | | | |
| 20 | | 20 | | 20 | | 20 | | 20 | | 20 | | END OF HOLE AT 20' | | | | | | 20 | | | | | | | | | | | |
| 22 | | 22 | | 22 | | 22 | | 22 | | 22 | | | | | | | | 22 | | | | | | | | | | | |
| 24 | | 24 | | 24 | | 24 | | 24 | | 24 | | | | | | | | 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 8/3/73 | | AIRPHOTO NO: A22771-7 | | CHAINAGE: 470+00 | | OFFSET: 300' E | | TEST HOLE | | | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 Cat | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE | B,C,S | NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | |
| | | | | | | 0.3' OF PEAT | | | | | | | | | | | | |
| 2 | | | | | | BROWN SANDY SILT TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | | | | | | |
| 4 | 1 | | | | CL | | | | 4 | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | |
| 8 | | | | | | END OF TRENCH AT 6.5' | | | 8 | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 8/3/73 | | AIRPHOTO NO: A22771-6 | | CHAINAGE: 427+00 | | OFFSET: 1,200' E | | TEST HOLE | | | | |
| CKD: | | TECH: | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | PT | PEAT | | | | | | | | | | |
| 2 | | | | | ML CL | BROWN SILT TILL, CLAYEY AND SANDY WITH SOME GRAVEL AND COBBLES | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | 22 | 44 | 27 | 7 | | | |
| 6 | | | | | | END OF TRENCH AT 6' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 8/3/78 | | AIR PHOTO NO: A22771-7 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A.B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 1 | | | | | ML | BROWN SANDY SILT WITH SOME ORGANIC MATTER | | N _{bn} | 2 | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | 2 | | | | GW | BROWN SAND AND GRAVEL WITH A TRACE OF COBBLES | F | N _f | 4 | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | 3 | | | | | | | | 6 | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | END OF HOLE AT 7' | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-----------------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 8/3/73 | | AIRPHOTO NO: A22771-7 | | CHAINAGE: 487+00 | | OFFSET: 300' E | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE 356, S, C, S, NUMBER 1 | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | PT 0.3' OF PEAT | | | | | | | | | | |
| 2 | 1 | | | | ML | BROWN SANDY SILT TILL WITH SOME GRAVEL AND A TRACE OF CLAY, COBBLES AND SMALL BOULDERS | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 8 | | | | | | END OF TRENCH AT 7' | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 8/3/73 | | AERPHOTO NO: A22771-7 | | CHAINAGE: 507+00 | | OFFSET: 1,200' SE | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | 0.3' OF PEAT | | | | | | | | | | |
| 2 | 1 | | | | ML | FINE SANDY SILT | | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | BROWN, INTERLAYERED VERY FINE SANDY GRAVEL, COARSE | | N _f | 4 | | | | | | | |
| 6 | 2 | | | | GW | GRAVELLY SAND AND SANDY GRAVEL | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | END OF TRENCH AT 9' | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|----|--|
| OWN: | | FIELD ENG: | | DATE DRILLED: 7/3/74 | | AERIAL PHOTO NO: | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: AB | | ELEV: | | MILE B,C,S NUMBER | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT | | | | | | | | |
| 2 | | | | | | BROWN SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL, COBBLES AND BOULDERS | F | N _{bn} | 2 | | | | | 15 | 40 | 35 | 10 | |
| 4 | | | | | | | | | 4 | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | |
| 10 | 1 | | | | ML-CL | | | | 10 | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| END OF HOLE AT 20' | | | | | | | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 7/3/73 | | AIRPHOTO NO: A22771-7 | | CHAINAGE: 720+00 | | OFFSET: 1,200' W | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | PT | PEAT | | | | | | | | | | |
| 2 | | | | | ML-CL | BROWN SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL, COBBLES AND BOULDERS | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | END OF TRENCH AT 7' | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED 4/3/73 | | AIRPHOTO NO: A22782-67 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML | BROWN SILTY AND SANDY TILL WITH SOME CLAY AND GRAVEL | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 5 | | | | | | | | | 5 | | | | | | | |
| 6 | 2 | | | | ML | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | ML | | F | N _{bn} | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 15 | | | | | | | | | 15 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | ML | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|-------------------|--|------------------------|--|---|--|---------------------|--|---|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|----------|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22782-67 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | | | |
| | | | | | | | | | | | | | | | | | | | | CLAY % | | SILT % | | SAND % | | GRAVEL % | | | |
| 2 | | 1 | | | | | | | | ML | | BROWN SILTY AND SANDY TILL WITH CLAY AND GRAVEL | | | | | | 2 | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| 6 | | 2 | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | 10 | | | | | | | | | | | |
| 12 | | 3 | | | | | | | | ML | | | | | | | | 12 | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | |
| 20 | | | | | | | | | | | | END OF HOLE AT 20' | | | | | | 20 | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | 22 | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | 24 | | | | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 7/3/73 | | AIRPHOTO NO: A22782-65 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W. R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: ABD | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | SP | BROWN SILTY SAND | | N _{bn} | 2 | | | | | | | |
| 4 | 1 | | | | SM | BROWN SILTY SANDY TILL WITH FINE GRAVEL | F | N _{bn} | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | 6 | 24 | 40 | 30 | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | | | | | 14 | | | | | | | |
| 16 | | | | | SM | DO | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 7/3/73 | | AIRPHOTO NO: A22782-65 | | CHAINAGE: 820+00 | | OFFSET: 450' E | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | SM | FINE ORGANIC SILTY SAND | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | ML | BROWN SILTY AND SANDY TILL WITH SOME GRAVEL AND A TRACE OF CLAY, COBBLES AND SMALL BOULDERS | F | Nbn | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+ | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | 1 | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | END OF TRENCH AT 6.5' | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 4/3/73 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22782-64 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: No. 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT | | | | | | |
| 2 | 1 | | | | SM | BROWN SILTY SAND TILL WITH SOME GRAVEL | F | Nbn | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SC | BROWN SILTY TILL, SANDY WITH SOME GRAVEL AND A TRACE OF COBBLES | UF | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 15 | | | | | | END OF HOLE AT 15' | | | 15 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | |
|---|--|-------------------------|--|----------------------|--|---|--|---|--|---------------------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 7/3/73 | | AIRPHOTO NO: A22782-64 | | CHAINAGE: 881+00 | | OFFSET: 350' E | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | |
| 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 | | TEST HOLE | |
| | | | | | | | | | | MILE B,C,S NUMBER | |
| | | | | | | | | | | 363 BT 1 | |
| | | | | | | | | | | REMARKS | |
| 2 | | 1 | | SM | | FINE ORGANIC SILTY SAND | | | | | |
| 4 | | | | ML | | BROWN SILTY AND SANDY TILL WITH SOME GRAVEL AND A TRACE OF COBBLES AND SMALL BOULDERS | | N _{bn} | | | |
| 6 | | | | | | END OF TRENCH AT 6' | | | | | |
| 8 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|----------------------------|----------------------------|---|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 3/3/72 | | AIRPHOTO NO: A22782-62 | | CHAINAGE: 932+00 | | OFFSET: 300'E | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | SM FINE ORGANIC SILTY SAND | | | | | | | | | | |
| 2 | | | | | | | | N _{bn} | 2 | | | | | | | |
| 4 | 1 | | | | | SP BROWN GRAVELLY SAND | F | N _f | 4 | | | | | | | |
| 6 | | | | | | END OF TRENCH AT 6' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 11/3 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22782-61 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: No. 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SC | BROWN SANDY TILL WITH SOME CLAY, SILT AND GRAVEL | F | Nbn | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | SC | | F | Nbn | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | 3 | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|------|-----------|--------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 3/3/73 | | AIRPHOTO NO: A22037-43 | | CHAINAGE: 1162+00 | | OFFSET: 250' E | | TEST HOLE | | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | |
| | | | | | | | | | | % | % | % | % | | | | |
| 2 | | | | | SM | FINE SILTY SAND WITH SOME ORGANIC MATTER AND A TRACE OF GRAVEL | | N _{bn} | 2 | | | | | | | | |
| 4 | 1 | | | | SP | MEDIUM TO COARSE GRAINED SAND WITH SOME FINE GRAVEL | | N _f | 4 | | 0 | 3 | 85 | 12 | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|---|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 3/3/73 | | AIRPHOTO NO: A23037-40 | | CHAINAGE: 1230+50 | | OFFSET: 250' E | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| | | | | | SM | FINE ORGANIC SILTY SAND | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | ML | BROWN SILT TILL, SANDY WITH A TRACE OF CLAY, GRAVEL AND SMALL BOULDERS | F | N _{bn} | 2 | | | | | 8 | 54 | 34 | 4 | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|----------------------------------|-----------------|------------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/3/78 | | AIRPHOTO NO: A22777-175 | | CHAINAGE: 1382+50 | | OFFSET: 500' E | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | SM | ORGANIC SILTY SAND | | | | | | | | | | |
| 2 | | | | | GW | BROWN SAND AND GRAVEL WITH SOME COBBLES AND A TRACE OF SILT | | N _{bn} | 2 | | | | | | | |
| 4 | 1 | | | | | | | N _{bn} - N _f | 4 | | | | | | | |
| 6 | | | | | | END OF TRENCH AT 6' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/3/73 | | AIRPHOTO NO: A22777-175 | | CHAINAGE: 1412+00 | | OFFSET: 1,000' | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | SM | ORGANIC SILTY SAND | | | 2 | | | | | | | | | | | | | | | | | | | | |
| | | | | | GP | BROWN SAND AND GRAVEL WITH OCCASIONAL COBBLES AND SILT | F | N _{bn} | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | | | | SP | BROWN POORLY GRADED MEDIUM GRAINED SAND | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | END OF TRENCH AT 5' | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 28/2 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22777-174 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | |
| CKD: | | TECH: M.H.R. | | RIG: No. 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: AB1 | | ELEV: | | MILE B,C,S NUMBER | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | |
| 2 | 1 | | | | GM | BROWN SANDY GRAVEL WITH LARGE COBBLES | F | N _f | 2 | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">○ = WATER CONTENT (% OF DRY WEIGHT)</div> <div style="margin-right: 10px;">△ = ICE CONTENT (% OF SAMPLE VOLUME)</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">PLASTIC LIMIT</div> <div style="margin-right: 10px;">LIQUID LIMIT</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">20</div> <div style="margin-right: 10px;">40</div> <div style="margin-right: 10px;">60</div> <div style="margin-right: 10px;">80</div> <div style="margin-right: 10px;">100</div> <div>100+</div> </div> | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | |
| 6 | | | | | | END OF HOLE AT 5' | | | 6 | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 28/2 | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|-------------------------|----------------------------|---|-----------------|--|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22777-174 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: N.H.R. | | RIG: No. 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: AB | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | GP | BROWN SANDY GRAVEL | F | N _f | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | GP | | | | 8 | ○ | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | END OF HOLE AT 12' | | | 14 | | | | | | | |
| 16 | | | | | | * (CAVING IN) | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 28/2 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22777-174 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: No. 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: AB | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT | | | | | | |
| 2 | | | | | SP | BROWN FINE TO COARSE SAND AND GRAVEL | F | Nbn | 2 | | | | | | | |
| 4 | | | | | | | UF | W.T. | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 15 | | | | | | | | | 15 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 27/2/73 | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|---|------|---|--------|-------------------------|-------------------------|---------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-51 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: No. 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT | | | | | | | | | | | |
| 3 | | | | | ML | | F | Nbn | 2 | | | | | | | | | | | | |
| 6 | | | | | | END OF HOLE AT 30' | | | 4 | | | | | | | | | | | | |
| 8 | | | | | | | | | 6 | | | | | | | | | | | | |
| 10 | | | | | | | | | 8 | | | | | | | | | | | | |
| 12 | | | | | | | | | 10 | | | | | | | | | | | | |
| 14 | | | | | | | | | 12 | | | | | | | | | | | | |
| 16 | | | | | | | | | 14 | | | | | | | | | | | | |
| 18 | | | | | | | | | 16 | | | | | | | | | | | | |
| 20 | | | | | | | | | 18 | | | | | | | | | | | | |
| 22 | | | | | | | | | 20 | | | | | | | | | | | | |
| 24 | | | | | | | | | 22 | | | | | | | | | | | | |
| | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 27/2/73 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|-------------------|--|---|--|------------------------|--|---------------------|--|-------------------|--|---|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|----------|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-51 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: No. 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | | | |
| | | | | | | | | | | | | | | | | | | | | CLAY % | | SILT % | | SAND % | | GRAVEL % | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 1 | | | | | | | | | | SM | | BROWN SILTY SANDY TILL WITH SOME GRAVEL AND A TRACE OF CLAY | | F Nbn | | 2 | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | 10 | | | | | | | | | | | |
| 12 | | 2 | | | | | | | | | | | | | | | | 12 | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | 20 | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | 22 | | | | | | | | | | | |
| 24 | | 3 | | | | | | | | | | | | | | | | 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 27/2/73 | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|--|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-66 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: R.G. | | RIG: No. 2 | | SURFACE DRAINAGE: GOOD | | | | VEGETATION: A | | ELEV: | | MILE | B,C,S | NUMBER | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | |
| 2 | 1 | | | | ML | BROWN SILTY TILL WITH SOME GRAVEL SAND AND CLAY | F | Nbn | 2 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | 2 | | | | ML | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | 3 | | | | | | | | 24 | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 1/3/73 | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-51 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: No. 2 | | SURFACE DRAINAGE: POOR | | VEGETATION: A B | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | Pt | PEAT | | V _x | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 1 | | | | SM | BROWN SANDY SILTY TILL WITH SOME CLAY AND GRAVEL | F | Nbn | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | SM | | | | 12 | | | | | | | |
| 14 | 2 | | | | | | F | Nbn | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 1/3/73 | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-51 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: No. 2 | | SURFACE DRAINAGE: POOR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | Pt | PEAT | | V _x | 2 | | | | | | | |
| 4 | 1 | | | | SM | | F | Nbn | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | SM | BROWN SANDY SILTY TILL WITH SOME GRAVEL AND SMALL BOULDERS | F | Nbn | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 1/3/73 | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | |
|--|--|-------------------------|--|-------------------|--|------------------------|--|---|--|---------------------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-51 | | CHAINAGE: | | OFFSET: | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: POOR | | VEGETATION: B | | ELEV: | |
| 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 | | TEST HOLE | |
| | | | | | | | | | | MILE B,C,S NUMBER | |
| | | | | | | | | | | 382 B K | |
| | | | | | | | | | | REMARKS | |
| 2 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 6 | | 1 | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 14 | | 2 | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|------|---|--------|----------------------|--|----------------------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-51 | | CHAINAGE: | | OFFSET: | | ELEV: | | TEST HOLE | | | | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | | | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | | |
| | | | | | | | | | | % | % | % | % | | | | | | | | |
| | | | | | | | | | | REMARKS | | | | | | | | | | | |
| | | | | | Pt | PEAT | | | | | | | | | | | | | | | |
| 2 | | | | | | | | V _x | 2 | | | | | | | | | | | | |
| 4 | 1 | | | | SM | BROWN SANDY SILTY TILL WITH SOME GRAVEL AND COBBLES | | | 4 | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | |
| 10 | | | | | | | F | Nbn | 10 | | | | | | | | | | | | |
| 12 | 2 | | | | CL | BROWN SILTY SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | | | 12 | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 1/3/78 | | AIRPHOTO NO: A22771-55 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | O = WATER CONTENT (% OF DRY WEIGHT) Δ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 40 60 80 100 100+ LIQUID LIMIT 80 | | | | | | |
| | | | | | | | | | | 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | ML | SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | ML | BROWN GREY | F | N _{bn} | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | ML | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | ML | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 26/2/73 | | AIRPHOTO NO: A22771-55 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SM | GREY SILTY SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SM | | F | N _{bn} | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 3 | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|---|-------------|-------------------------|-------------------------|---------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 26/2/73 | | AIRPHOTO NO: A22771-55 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B D | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | |
| 2 | 1 | | | | SM | BROWN SILTY SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | |
| 6 | | | | | | BROWN GREY | | | 6 | | | | | | | | | | | | |
| 8 | 2 | | | | SM | | F | N _{bn} | 8 | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | |
| 12 | 3 | | | | SM | | | | 12 | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | |
| 18 | 4 | | | | SM | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | 5 | | | | SM | | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | END OF HOLE AT 25' | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|---|---------------------|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 26/2/73 | | AIRPHOTO NO: A22771-55 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+ | | | | | | | |
| | | | | | Pt | PEAT | | | | | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | 1 | | | | ML | BROWN SILTY SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | V _C | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | ML | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 26/2/73 | | AIRPHOTO NO: A22771-55 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B F | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | Pt | PEAT | | V _x | | | | | | | | |
| 2 | 1 | | | | SM | GREY SILTY SANDY TILL WITH A TRACE OF CLAY AND GRAVEL | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | SM | | F | N _{bn} | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|------------------------|-----------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 26/2/73 | | AIRPHOTO NO: A22771-55 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | |
| 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 | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | | | |
| 2 | 1 | | | | SM | GREY SILTY SANDY TILL WITH A TRACE OF CLAY AND GRAVEL | F | N _f | 2 | | | | | |
| 4 | | | | | | | | | 4 | | | | | |
| 6 | | | | | | | | | 6 | | | | | |
| 8 | 2 | | | | SM | | F | N _f | 8 | | | | | |
| 10 | | | | | | | | | 10 | | | | | |
| 12 | | | | | | | | | 12 | | | | | |
| 14 | | | | | | | | | 14 | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | |
| 18 | | | | | | | | | 18 | | | | | |
| 20 | | | | | | | | | 20 | | | | | |
| 22 | | | | | | | | | 22 | | | | | |
| 24 | | | | | | | | | 24 | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|---|------------------|----------------|---------------|---------------------------|------------------------|---|----------------------------|--------------------|--|---------------------|------|------|---------|-------------------------|-------------------------|------|-------|--------|
| DWN: | | FIELD ENG: | DATE DRILLED: | AIRPHOTO NO: A22771-55 | CHAINAGE: | OFFSET: | | ELEV: | | | | | | | | | | |
| CKD: | | TECH: M.H.R. | RIG: 2 | SURFACE DRAINAGE: FAIR | VEGETATION: A B | | | TEST HOLE | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | MILE | B,C,S | NUMBER |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | | |
| | | | | | | | | | | | | | REMARKS | | | | | |
| 2 | 1 | | | | ML | BROWN SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | | | 2 | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | 2 | | | | ML | | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-57 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | |
| 2 | | | | | Pt | PEAT | | V _x | 2 | | | | | | | |
| 4 | 1 | | | | ML | SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | BROWN GREY | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 2 | | | | ML | | F | N _{bn} | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | END OF HOLE AT 25' | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 1/3/73 | | AIRPHOTO NO: A22771-57 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 40 60 80 100 100+ | | | | | | |
| 2 | | | | | Pt | PEAT | | V _x | 2 | | | | | | | |
| 4 | 1 | | | | ML | GREY SILT TILL, CLAYEY AND SANDY WITH A TRACE OF GRAVEL | F | N _{bn} | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | ML- CL | | F | N _{bn} | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | END OF HOLE AT 25' | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|--------------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 1/3/73 | | AIRPHOTO NO: A22771-57 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | Pt | PEATY TOP SOIL | | V _x | 2 | | | | | | | |
| 4 | 1 | | | | ML | GREY SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | F | N _{bn} | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | ML | | | | 14 | | | | | | | |
| 16 | | | | | | | F | N _{bn} | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|-----------------------|---|----------------------------|---|-----------------|--|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 1/3/73 | | AIRPHOTO NO: A22771-57 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| DEPTH (FEET) | SAMPLE NUMBER | SAMPLE TYPE | % RECOVERY | PENETRATION RESISTANCE | UNITED SOIL SYMBOL | SOIL DESCRIPTION | LIMITS OF FROZEN GROUND | ICE DESCRIPTION | DEPTH (FEET) | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | Pt | PEAT | | V _x | 2 | | | | | | | |
| 4 | 1 | | | | ML | BROWN SANDY SILTY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 2 | | | | ML | | F | N _{bn} | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-61 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML-CL | BROWN SANDY SILTY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 2 | | | | CL | GREY CLAYEY SILTY AND SANDY TILL WITH SOME GRAVEL AND A TRACE OF COBBLES | F | N _{bn} | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|----------------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DOWN: | | FIELD ENG: | DATE DRILLED: 2/2/73 | AIRPHOTO NO: A22771-62 | CHAINAGE: | OFFSET: | | TEST HOLE | | | | | | | | |
| CKD: | | TECH: R.S. | RIG: 1 | SURFACE DRAINAGE: GOOD | VEGETATION: A | ELEV: | | MILE | B,C,S | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SM | BROWN SANDY SILTY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | V _x | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | CL | GREY SILT TILL, CLAYEY AND SANDY WITH A TRACE OF GRAVEL | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | CL | | F | V _x | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/78 | | AIRPHOTO NO: A22771-61 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE 387 B.C.S NUMBER M | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML-CL | BROWN SANDY SILTY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | 23 | 44 | 31 | 2 | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 2 | | | | ML-CL | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | ML-CL | | F | N _{bn} | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-62 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML | SILTY AND SANDY TILL WITH SOME CLAY AND GRAVEL | | | 2 | | | | | | | |
| 4 | | | | | | | F | N _{bn} | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | ML | | F | N _{bn} | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-62 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B D | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | ML | SILTY AND SANDY TILL WITH SOME CLAY AND GRAVEL AND A TRACE OF COBBLES | F | N _{bn} | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | BROWN GREY | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | 2 | | | | ML | | F | N _{bn} | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-60 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B D | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML | SILT AND SAND TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | ML | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 3 | | | | ML | | F | N _{bn} | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|---|---------|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22859-91 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | |
| 2 | 1 | | | | ML-CL | SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | 21 | 38 | 33 | 8 | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | |
| 8 | 2 | | | | ML-CL | | F | N _{bn} | 8 | 18 | 44 | 37 | 1 | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | |
| 14 | 3 | | | | ML-CL | | | | 14 | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|-----------|-------|--------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/3/73 | | AIRPHOTO NO: A22859-97 | | CHAINAGE: | | OFFSET: | | | | | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: | | VEGETATION: A | | ELEV: | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | TEST HOLE | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | MILE | B,C,S | NUMBER |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | |
| 2 | 1 | | | | SM | BROWN SAND AND GRAVEL WITH SOME SILT AND A TRACE OF COBBLES | | N _{bn} | 2 | | | | | | | | | |
| 4 | | | | | | | | N _f | 4 | | | | | | | | | |
| 6 | 2 | | | | | | | | 6 | | | | | | | | | |
| 8 | 3 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | END OF HOLE AT 7.5' | | | 10 | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |
| | | | | | | | | | | | | | | REMARKS | | | | |
| | | | | | | | | | | | | | | HOLE KEPT CAVIN IN | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-66 | | CHAINAGE: 0/S @ 824+80 | | OFFSET: 2700' W | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | Pt | PEAT AND SOME FINE SILTY SAND | | V _x | 2 | | | | | | | |
| 4 | 1 | | | | ML-CL | CLAYEY SILTY, AND SANDY TILL WITH A TRACE OF GRAVEL | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | ML-CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

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|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|--|--|--|--|
| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | |
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-66 | | CHAINAGE: 0/S @ 824+80 | | OFFSET: 1500' E | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | |
| TEST HOLE | | | | | | | | | | | | | |
| | | | | | | | | | | MILE B,C,S NUMBER | | | |
| | | | | | | | | | | 391 B F | | | |
| 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+ | | | |
| 2 | 1 | | | | ML-CL | BROWN SANDY SILTY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | | N _{bn} | 2 | | | | |
| 4 | | | | | | | | | 4 | | | | |
| 6 | | | | | | | | | 6 | | | | |
| 8 | 2 | | | | ML-CL | | | | 8 | | | | |
| 10 | | | | | | | | | 10 | | | | |
| 12 | 3 | | | | ML-CL | | | | 12 | | | | |
| 14 | | | | | | | | | 14 | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | |
| 18 | | | | | | | | | 18 | | | | |
| 20 | | | | | | | | | 20 | | | | |
| 22 | | | | | | | | | 22 | | | | |
| 24 | | | | | | | | | 24 | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-----------------------------------|----------------------------|---------------------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-67 | | CHAINAGE: 879+00 | | OFFSET: 2300' W | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | SP | FINE BROWN SAND | F | N _{bn} | 2 | | | | | | | | HOLE IS ALONG SEISMIC LINE 2300' WEST OF PROPOSED CENTRE- LINE | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | | | | SM | FINE BROWN SAND WITH SOME SILT | | N _{bn} -N _f | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | 3 | | | | SM | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-----------------------------------|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 2/2/73 | | AIRPHOTO NO: A22771-67 | | CHAINAGE: 0/5 @ 879+00 | | OFFSET: 2800' W | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | | | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SP | FINE BROWN SAND WITH SOME SILT | F | N _f | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|-----------------------|--|------------------------|--|---|--|---------------------|--|-------------------|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 29/1/73 | | AIRPHOTO NO: A22771-69 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--------------------------------|----------------------------|--------------------|-----------------|--|------|---|--------|-------------------------|-------------------------|---------|--|--|--|--|--|
| OWN: | | FIELD ENG: | | DATE DRILLED: 29/1/73 | | AIRPHOTO NO: A22771-69 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | | | | |
| 2 | 1 | | | | SP | FINE BROWN SAND WITH SOME SILT | | N _{bn} | 2 | 0 | 15 | 85 | 0 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | |
| 6 | 2 | | | | SP | | | | 6 | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | |
| 10 | | | | | | | F | N _f | 10 | 0 | 5 | 95 | 0 | | | | | | | | |
| 12 | 2 | | | | SP | | | | 12 | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | |
|---|------------------|----------------------|------------------------|---|------------------------|--------------------|----------------------------|--------------------|-----------------|---|------|------|--------|-------------------------|-------------------------|-----------|-------|--------|
| DWN: | FIELD ENG: | DATE DRILLED: 2/2/73 | AIRPHOTO NO: | CHAINAGE: | OFFSET: | | | | | | | | | | | | | |
| CKD: | TECH: W.R. | RIG: 1 | SURFACE DRAINAGE: FAIR | VEGETATION: A B D | ELEV: | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | TEST HOLE | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | MILE | B,C,S | NUMBER |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+ | % | % | % | % | | | | |
| 2 | 7 | | | | SM | | F | N _{bn} | 2 | | 3 | 40 | 57 | 0 | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | |
| 6 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 3/2/73 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|------------------------|-----------|-------------------------|-------------------------|---------|-----------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22859-94 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: | | ELEV: | | | | | |
| 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 | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | | | | SAND % |
| 2 | 1 | | | | SP | FINE UNIFORM SAND WITH SOME SILT | F | $N_f - N_{bn}$ | 2 | | | | | | |
| 4 | 2 | | | | | | | | 4 | 1 | 10 | 87 | 0 | | |
| 8 | 3 | | | | SM | FINE GREY SILTY SAND | | | 8 | 3 | 42 | 55 | 0 | | |
| 12 | 4 | | | | SP | FINE GREY SAND WITH A TRACE OF SILT | UF | | 12 | 2 | 10 | 88 | 0 | | |
| 18 | 5 | | | | SP | | | | 18 | 0 | 7 | 93 | 0 | | |
| 22 | 6 | | | | SP | | | | 22 | 0 | 8 | 92 | 0 | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-----------------------------------|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SM | | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 2 | | | | SM | BROWN FINE SAND WITH SILT, WET | UF | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 3 | | | | SM | SANDY SILT | UF | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 4 | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | END OF HOLE AT 25' | | | 24 | | | | | | | |

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

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

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---|------|-----------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 3/2/78 | | AIRPHOTO NO: | | CHAINAGE: | | OFFSET: 4450' E of CL | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | SP | FINE GREY SAND | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SM | FINE GREY SILTY SAND, WET | UF | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 3 | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | SM | FINE GREY SILTY SAND WITH A TRACE OF CLAY | UF | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 5 | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|---------------|-------------|------------|------------------------|---------------------|---|-------------------------|---|--------------|---------------------|------|-------------------|--------|----------------------|----------------------|--|
| DOWN: | | FIELD ENG: | | DATE DRILLED: 3/2/73 | | AIRPHOTO NO: A22859-94 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| | | | | | | | | | | | | 392 B P | | | | |
| | | | | | | | | | | | | 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | % | % | % | % | | | |
| 2 | | | | | Pt | 1' OF PEATY TOP SOIL | F | N _{bn} | 2 | | | | | | | |
| 4 | 1 | | | | SM | FINE BROWN SAND WITH SOME SILT AND A TRACE OF CLAY, WET | UF | | 4 | 7 | 29 | 64 | 0 | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SM | | | | 8 | 7 | 25 | 68 | 0 | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | SM | | F | N _{bn} | 12 | 6 | 30 | 64 | 0 | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | SM | | UF | | 18 | 5 | 30 | 65 | 0 | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 5 | | | | SM | | F | N _{bn} | 22 | 7 | 26 | 67 | 0 | | | |
| 24 | | | | | | | UF | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|---------------|-------------|------------|-----------------------|---------------------|------------------------|-------------------------|-----------------|--------------|-----------------|--|---------|---|---------------------|--------|-----------|----------|----------------------|----------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 3/2/70 | | AIRPHOTO NO: A22859-94 | | CHAINAGE: | | | | OFFSET: | | | | TEST HOLE | | | | |
| CKO: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | | | VEGETATION: A B | | | | ELEV: | | | | | | |
| DEPTH (FEET) | SAMPLE NUMBER | SAMPLE TYPE | % RECOVERY | PENETRANCE RESISTANCE | UNIFIED SOIL SYMBOL | SOIL DESCRIPTION | LIMITS OF FROZEN GROUND | ICE DESCRIPTION | DEPTH (FEET) | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 6 | | | | SM | | UF | | 2 | | | | | 7 | 26 | 67 | 0 | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | |
| 30 | | | | | | | | | 6 | | | | | | | | | | | |
| 6 | 7 | | | | SM | | | | 6 | | | | | 8 | 25 | 67 | 0 | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | |
| 35 | | | | | | | | | 10 | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | |
| 12 | 8 | | | | SM | | UF | | 12 | | | | | 7 | 30 | 63 | 0 | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | |
| 40 | | | | | | | | | 16 | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | |
| 18 | 9 | | | | SM | | | | 18 | | | | | | | | | | | |
| 45 | | | | | | | | | 20 | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | |
| 22 | 10 | | | | SM | | | | 22 | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | |
| 50 | | | | | | END OF HOLE AT 50' | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 3/2/78 | | AIRPHOTO NO: | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SM | BROWN FINE SILTY SAND | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | SM | | UF | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 3 | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 3/2/78 | | AIRPHOTO NO: | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | 4 | | | | SM | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 5 | | | | SM | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |
| 50 | | | | | | END OF HOLE AT 50' | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 4/2/73 | | AIRPHOTO NO: A22859-94 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKO: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B | | ELEV: | | MILE | | B,C,S | | NUMBER | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| 2 | 1 | | | | SM | | F | N _{bn} | 2 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | 2 | | | | SM | BROWN SILTY SAND (FINE AND WET') | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | | | | | | | UF | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | 3 | | | | SW | BROWN AND GREY SAND WITH SOME SILT, AND GRAVEL AND A TRACE OF CLAY | | | 18 | | | | | | | | |
| 20 | | | | | | | UF | | 20 | | | | | | | | |
| 22 | 4 | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 4/2/73 | | AIRPHOTO NO: A22859-94 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SP | FINE BROWN SAND WITH A TRACE OF SILT AND GRAVEL | | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | F | N _f | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SP | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | SP | | | | 12 | | | | | | | |
| 14 | | | | | | | F | N _f | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | SP | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 5 | | | | SP | | F | N _f | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 3/2/73 | | AIRPHOTO NO: | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SM | BROWN FINE SAND WITH SOME SILT AND A TRACE OF CLAY | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 2 | | | | SM | | UF | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 3 | | | | SM | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|--------------------------|-------------|-------------------------|---|---------|--|--|--|--|--|--|--|--|
| OWN: | | FIELD ENG: | | DATE DRILLED: 9/3/73 | | AERIAL PHOTO NO: A22771-69 | | CHAINAGE: 902+00 | | OFFSET: 3,300' E | | TEST HOLE | | | | | | | | | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE 393 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 | DEPTH (FEET) | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | |
| 0.8' | | | | | PT | PEAT | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | N _{bn} | 2 | | | | | | | | | | | | | | | |
| 4 | 1 | | | | SP | BROWN, MEDIUM GRAINED SAND WITH HORIZONTAL BEDDING | F | N _f | 4 | | 0 | 8 | 91 | 1 | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | |
| 8 | | | | | | END OF TRENCH AT 7' | | | 8 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---------------------------------------|----------------------------|--------------------|---|---------------------|---------|-------|--|-------------------------|-------------------------|---------|-------|--------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 31/1/73 | | AIRPHOTO NO: A22771-71 | | CHAINAGE: | | | OFFSET: | | | | TEST HOLE | | | |
| CKD: | | TECH: V.S. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | | VEGETATION: A B G | | | ELEV: | | | | MILE | B,C,S | NUMBER |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT | | | | | | | | | |
| | | | | | | | | | 20 40 60 80 100 100+ | | | | | | | | | |
| 2 | 1 | | | | SP | BROWN SILTY SAND | F | N _{bn} | 2 | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 6 | 2 | | | | SC | GREY SILTY CLAYEY TILL WITH FINE SAND | F | V _x | 4 | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 12 | 3 | | | | SC | | | N _{bn} | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | DRILL HOLE REPORT | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|-------------------------------|--------------------|-----------------|------------------------------|---|---------------------|-------|---|-----------|-------------------------|-------------------------|---------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 31/1/73 | | AIRPHOTO NO: A22771-73 | | CHAINAGE: | | | | OFFSET: | | | TEST HOLE | | | | | |
| CKD: | | TECH: V.S. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | | | VEGETATION: B G | | | ELEV: | | | | | | | |
| DEPTH (FEET) | SAMPLE NUMBER | SAMPLE TYPE | % RECOVERY | PENETRATION RESISTANCE | UNIFIED SOIL SYMBOL | SOIL DESCRIPTION | LIMITS OF FROZEN GROUND | ICE DESCRIPTION | DEPTH (FEET) | PLASTIC LIMIT — LIQUID LIMIT | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | |
| | | | | | | | | | | | % | % | % | % | | | | | | |
| 2 | | | | | SM | BROWN SILTY SAND | F | N _{bn} | 2 | | | | | | | | | | | |
| 4 | 1 | | | | ML | BROWN SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 4 | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | |
| 12 | 2 | | | | ML | | F | N _{bn} | 12 | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 31/1/73 | | AIRPHOTO NO: A22771-73 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: | | VEGETATION: | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | GM | BROWN SILTY AND SANDY TILL WITH SOME CLAY GRAVEL, AND COBBLES | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | ML | | F | N _{bn} | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 3 | | | | ML | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|---|--|---------------------|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 7/2/78 | | AIRPHOTO NO: A22771-73 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 2 | 4 | | | | SM | | UF | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---|
| DWN: | | FIELD ENG: | | DATE DRILLED: 8/2/73 | | AIRPHOTO NO: A22771-73 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | O = WATER CONTENT (% OF DRY WEIGHT) Δ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+ | | | | | | |
| 2 | 1 | P | | 38/11" | SM | BROWN SILTY AND GRAVELLY SAND TILL WITH SOME COBBLES AND CLAY, AND A TRACE OF BOULDERS | F | N _f | 2 | | | | | | | SPLIT SPOON SAMPLING COULD NOT PENETRATE THE FULL 18" BECAUSE OF COBBLES AND BOULDERS |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | P | | 23/6" | SM | | | | 10 | 10 | 25 | 35 | 30 | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | 3 | | | | SM | | F | N _f | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|----------------------|--|---|--|------------------------|--|---------------------|--|--|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|----------|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 8/2/73 | | AIRPHOTO NO: A22771-73 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | | | |
| | | | | | | | | | | | | | | | | | | | | CLAY % | | SILT % | | SAND % | | GRAVEL % | | | |
| 2 | | | | | | | | | | | | SILT WITH SOME CLAY AND A TRACE OF SAND AND GRAVEL | | F | | N _{bn} | | 2 | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| 6 | | 1 | | P | | | | 73 | | ML-CL | | BROWN GREY | | | | | | 6 | | 22 | | 72 | | 6 | | 9 | | | |
| 8 | | | | | | | | | | | | | | | | | | 8 | | | | | | | | | | | |
| 10 | | 2 | | | | | | | | ML-CL | | | | F | | N _{bn} | | 10 | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | 12 | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | |
| 18 | | 3 | | | | | | | | SM | | GREY SILTY SANDY TILL WITH SOME CLAY AND GRAVEL | | F | | N _{bn} | | 18 | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | 20 | | | | | | | | | | | |
| 22 | | 4 | | | | | | | | SM | | | | | | | | 22 | | 20 | | 30 | | 40 | | 10 | | | |
| 24 | | | | | | | | | | | | | | | | | | 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22771-73 | | CHAINAGE: 55+00 | | OFFSET: 1,000' E | | TEST HOLE | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | 0.3' OF PEAT BROWN GRAVEL WITH SOME SILT, SAND AND COBBLES, AND A TRACE OF CLAY AND BOULDERS | | Nbn | | | | | | | | |
| 2 | 1 | | | | GW | | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | END OF TRENCH AT 5' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | OFFSET: 500' E | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: | | GOOD | | VEGETATION: A B D | | ELEV: | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | PT | 2' OF PEAT | F | V _x | | | | | | | | |
| 2 | | | | | CL | DARK BROWN TO BLACK CLAYEY SILT TILL WITH SOME SAND AND GRAVEL (DOMINANTLY OF WEATHERED SHALE PARTICLES) SOME WEATHERED SHALE BOULDERS TOWARDS BEDROCK SURFACE. | F | N _{bn} | 2 | | | | | | | |
| 4 | 1 | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | | | | | 8 | | | | | | | |
| 10 | | | | | CL | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | 3 | | | | CL | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 4 | | | | | SOFT DARK GREY SHALE BEDROCK, WEATHERED AND FISSILE | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | PT | ORGANIC SILTY SAND | | N _{pn} | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | 1 | | | | | SOFT DARK GREY SHALE BEDROCK, FISSILE, WITH WEATHERED LAYERS ESPECIALLY IN UPPER 10' ALSO WEATHERED ALONG CLEAVAGE AND JOINT PLANES. HARDER AND MORE COMPETENT WITH DEPTH | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 3 | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-80 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| 2 | 4 | | | | | | | | 2 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|-------------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | OFFSET: 1050' E | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV. | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML | BROWN SANDY SILT WITH SOME CLAY AND BOULDERS (DOMINANTLY OF WEATHERED GREY SHALE) | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 18 | 2 | | | | | SOFT DARK GREY SHALE BEDROCK, WEATHERED AND FISSILE | F | N _{bn} | 18 | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | |
| 34 | 3 | | | | | | | | 34 | | | | | | | |
| 36 | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|---|-----------------|--|------|---------|--------|-------------------------|-------------------------|-----------|-------|--------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | | | OFFSET: | | | | | | |
| CKD: | | TECH: W.R. | | RIG: I | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | TEST HOLE | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | MILE | 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+ | | | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|---|----|--------------|----|-------|------|---------------------|--------|---|---|---|-------------------------|---------|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: | | VEGETATION: | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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) | | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT | | LIQUID LIMIT | | CLAY | SILT | SAND | GRAVEL | | | | | | | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | % | % | % | % | | | | | | | | | | |
| 2 | 4 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-78 | | CHAINAGE: | | OFFSET: 1000' W | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | Pt | 3' OF PEAT | F | V _x | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 1 | | | | ML | GREY SILTY TILL WITH SOME SAND, CLAY AND GRAVEL AND A TRACE OF COBBLES | F | N _{bn} | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 2 | | | | ML | | UF | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 3 | | | | ML | DARK SOFT GREY SHALE BED ROCK, FISSILE. EXTREMELY WEATHERED IN UPPER 12 FT. | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 4 | | | | ML | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|---|---------------------|--|-------------------|-----------|-------------------------|-------------------------|-------------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | CLAY % | SILT % | SAND % | GRAVEL % | |
| 2 | | | | | PT | 2' OF PEAT | | V _x | 2 | | | | | | | | |
| 4 | | | | | SC | GREY TO BLACK, MOTTLED, CLAYEY AND SILTY TILL WITH SOME SAND AND GRAVEL. (MOSTLY COMPOSED OF SHALE FRAGMENTS.) | F | N _{dn} | 4 | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | 2 | | | | SC | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | 2A | | | | CL | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | 3 | | | | | SOFT DARK GREY SHALE BEDROCK, WEATHERED AND FISSILE | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

PI = 17.7

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/79 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | | OFFSET: | | | TEST HOLE | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | | ELEV: | | | MILE | B,C,S | NUMBER |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 3 | | | | | | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 30 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | |
|--|---------------|-------------|----------------------|------------------------|---------------------|---|-------------------------|-----------------|--------------|
| DWN: | | FIELD ENG: | DATE DRILLED: 6/2/71 | AIRPHOTO NO: A22771-73 | CHAINAGE: | OFFSET: 900' W | | TEST HOLE | |
| CKD: | | TECH: W.R. | RIG: 1 | SURFACE DRAINAGE: GOOD | VEGETATION: A | ELEV: | | MILE | B,C,S |
| 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 | | N _{bn} | 2 |
| 4 | | | | | CL | BROWN CLAYEY, SILTY AND SANDY TILL WITH A TRACE OF GRAVEL | | N _{bn} | 4 |
| 6 | 1 | | | | | | | N _{bn} | 6 |
| 8 | | | | | | | | N _{bn} | 8 |
| 10 | | | | | | | | N _{bn} | 10 |
| 12 | | | | | | | | N _{bn} | 12 |
| 14 | 2 | | | | CL | | | N _{bn} | 14 |
| 16 | | | | | | | | N _{bn} | 16 |
| 18 | | | | | | | | N _{bn} | 18 |
| 20 | | | | | | SOFT DARK GREY SHALE BEDROCK, WEATHERED AND FISSILE | | N _{bn} | 20 |
| 22 | 3 | | | | | | | N _{bn} | 22 |
| 24 | | | | | | | | N _{bn} | 24 |

PI = 17.0

PI = 18.4

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|---|---|-----------|---|-------|---|---------------------|------|------|--------|-------------------------|-------------------------|---------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-73 | | CHAINAGE: | | OFFSET: 900' W | | TEST HOLE | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | |
| 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) | | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | |
| | | | | | | | | | | % | % | % | % | % | % | % | % | | | | | | | |
| 2 | 4 | | | | | | | | 2 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|---|----|--------------|----|-------|------|---------------------|--------|---|---|---|-------------------------|---------|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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) | | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT | | LIQUID LIMIT | | CLAY | SILT | SAND | GRAVEL | | | | | | | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | % | % | % | % | | | | | | | | | | |
| 2 | 3 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|--|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|------------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/71 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| <p>○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME)</p> <p>PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+</p> | | | | | | | | | | | | | | | | |
| 2 | | | | | | BROWN SILTY SANDY TILL WITH SOME CLAY AND GRAVEL | F | N _{bn} | 2 | | | | | | | |
| 4 | 1 | | | | CL- ML | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | CL- ML | | F | N _{bn} | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | SOFT DARK GREY SHALE BEDROCK, WEATHERED AND FISSILE, HARDER AND MORE COMPETENT WITH DEPTH | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|---|-----------------|--|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-76 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 3 | | | | | | | | 2 | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">○ = WATER CONTENT (% OF DRY WEIGHT)</div> <div style="margin-right: 10px;">△ = ICE CONTENT (% OF SAMPLE VOLUME)</div> <div style="margin-right: 10px;">PLASTIC LIMIT</div> <div style="margin-right: 10px;">LIQUID LIMIT</div> </div> | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|------------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/3/73 | | AERPHOTO NO: A22771-76 | | CHAINAGE: 205+00 | | OFFSET: 850' W | | TEST HOLE | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | CL | BROWN CLAYEY SILT WITH SOME SAND AND A TRACE OF GRAVEL | F | N _{bn} | 2 | 30 | 53 | 13 | 4 | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | END OF TRENCH AT 4.5' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | |
|---|---------------|-------------|------------|------------------------|---------------------|---|-------------------------|-----------------|--------------|--|---------------------------------------|-----------------------------|--------|--------|--------|----------|----------------------|----------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-78 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B D | | ELEV: | | MILE B,C,S NUMBER | | | | | | | |
| | | | | | | | | | | | | 399 B H | | | | | | | |
| | | | | | | | | | | | | 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) ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | PLASTIC LIMIT 20 40 60 80 100 100+ | LIQUID LIMIT 80 100 100+ | CLAY % | SILT % | SAND % | GRAVEL % | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| 2 | 1 | | | | ML | BROWN SANDY SILT TILL WITH SOME CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | 19 | 48 | 30 | 3 | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | |
| 14 | 2 | | | | SM | GREY SILTY SAND TILL WITH SOME CLAY AND GRAVEL; GRAVEL COMPOSED MAINLY OF SHALE: DEPOSIT GETS SLIGHTLY COARSER GRAINED WITH DEPTH | F | N _{bn} | 14 | | | | 18 | 27 | 47 | 8 | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | |
| 24 | 3 | | | | SM | | F | N _{bn} | 24 | | | | 13 | 27 | 44 | 16 | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|----------------------|--|------------------------|--|---|--|---------------------|--|-------------------|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22771-78 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B D | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|----|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22771-80 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | |
| CKD: | | TECH: W.R. | | RIG: I | | SURFACE DRAINAGE: GOOD | | VEGETATION: B D | | ELEV: | | MILE B,C,S NUMBER | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | |
| 2 | 1 | | | | SW | BROWN SAND AND GRAVEL WITH SOME SILT AND A TRACE OF CLAY WITH LITTLE SILT | F | N _{bn} | 2 | | | | | 6 | 12 | 54 | 28 | |
| 4 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 10 | 2 | | | | SW | | F | N _f | 10 | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | |
| 20 | 3 | | | | SP | GREY SAND AND GRAVEL | | N _f | 20 | | | | | 0 | 1 | 69 | 30 | |
| 22 | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | |

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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|---------------|-------------|------------|------------------------|---------------------|--|-------------------------|---|--------------|---------------------|------|-------------------|--------|----------------------|----------------------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/78 | | AIRPHOTO NO: A22771-78 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B D | | ELEV: | | MILE B,C,S NUMBER | | | |
| | | | | | | | | | | | | 400 B H | | | |
| | | | | | | | | | | | | 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | |
| | | | | | | | | | | % | % | % | % | | |
| 2 | | | | | | CLAYEY SILTY AND SANDY TILL WITH A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | | | |
| 4 | 1 | | | | | | | | 4 | 30 | 40 | 26 | 4 | | |
| 6 | | | | | | | | | 6 | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | |
| 10 | | | | | | BROWN GREY | | | 10 | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | |
| 16 | 2 | | | | | | | | 16 | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | |
| 24 | 3 | | | | | | | | 24 | 34 | 35 | 29 | 2 | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22771-78 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| | | | | | | | | | | % | % | % | % | | | |
| 25 | 3 | | | | CL | | F | N _{bn} | 2 | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|---|---------------------|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22771-78 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 2 | | | | | SM | 1' OF BROWN SILTY SAND WITH SOME ORGANIC MATTER | | | 2 | | | | | | | |
| 4 | | | | | CL | GREY CLAYEY SILTY AND SANDY TILL WITH A TRACE OF GRAVEL | F | N _{bn} | 4 | 32 | 32 | 32 | 4 | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 1 | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | 30 | 33 | 34 | 3 | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 3 | | | | CL | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|--|------|-------------------|--------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 10/3/73 | | AERIAL PHOTO NO: A22771-78 | | CHAINAGE: 270+00 | | OFFSET: 500' W | | TEST HOLE | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B.C.S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | CL | BROWN CLAYEY AND SANDY SILT TILL WITH SOME GRAVEL AND A TRACE OF COBBLES, SOME ORGANIC MATTER IN UPPER FOOT | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | 25 | 37 | 28 | 10 | | | |
| 6 | | | | | | END OF TRENCH AT 5' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|--------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 6/2/73 | | AIRPHOTO NO: A22772-94 | | CHAINAGE: | | | OFFSET: | | | TEST HOLE | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | | VEGETATION: A B | | | ELEV: | | | MILE | B,C,S | NUMBER |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 6 | 1 | | | | SC | BROWN SILTY AND SANDY TILL WITH SOME CLAY AND GRAVEL | F | N _{bn} | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | 2 | | | | SC | | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 15 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|---|-------------|-------------------------|-------------------------|---------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/13 | | AIRPHOTO NO: A22772-94 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | |
| | | | | | | 2' OF PEAT AND ICE | | V _x | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | | | | | | |
| 4 | 1 | | | | SC | SILTY SAND TILL WITH SOME CLAY AND GRAVEL | | | 4 | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | |
| 10 | | | | | | | F | N _{bn} | 10 | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | |
| 14 | 3 | | | | SC | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | 4 | | | | ML- CL | | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/72 | | AIRPHOTO NO: A22772-94 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | 1 | | | | SC | SANDY AND SILTY TILL WITH SOME CLAY AND GRAVEL | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | SC | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 3 | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 9/2/72 | | AERIAL PHOTO NO: A22772-94 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 1 | | | | SC | SILTY SAND TILL WITH SOME CLAY AND GRAVEL | F | N _{bn} | 6 | 15 | 26 | 55 | 4 | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | SC | | F | N _{bn} | 14 | 18 | 28 | 40 | 12 | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 3 | | | | SC | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22772-95 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | |
| 2 | | | | | | SILTY SAND TILL WITH SOME CLAY AND GRAVEL | F | N _{bn} | 2 | | | | | | | | | |
| 4 | 1 | | | | SC | | | | 4 | | | 15 | 28 | 53 | 4 | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | |
| 12 | | | | | | | F | N _{bn} | 12 | | | | | | | | | |
| 14 | 2 | | | | SC | 14 | | | | | 18 | 28 | 39 | 15 | | | | |
| 16 | | | | | | 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | 3 | | | | | | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|--|---|------|---|----------------------|-----------|----------------------|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22772-95 | | CHAINAGE: | | OFFSET: | | ELEV: | | TEST HOLE | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| | | | | | | | | | | ○ = 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 | 3 | | | | | | | | 2 | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | |

| MILE | B,C,S | NUMBER |
|---------|-------|--------|
| 403 | B | A |
| REMARKS | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|---------------|-------------|------------------------|------------------------|---------------------|---|-------------------------|-----------------|--------------|--|---------------------|----------------------|----------------------|-------------|--|
| DWN: | | FIELD ENG: | DATE DRILLED: 9/2/73 | AIRPHOTO NO: A22772-96 | CHAINAGE: | OFFSET: | | TEST HOLE | | | | | | | |
| CKD: | TECH: R.S. | RIG: 1 | SURFACE DRAINAGE: FAIR | | VEGETATION: B | ELEV: | | MILE | B,C,S | | | | | | |
| 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) ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | GRAIN-SIZE ANALYSIS | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | |
| 2 | 1 | | | | ML-CL | CLAYEY SILT AND SAND TILL WITH SOME GRAVEL AND OCCASIONAL BOULDER | | | 2 | 22 | 35 | 33 | 10 | | |
| 4 | | | | | | | | | 4 | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | |
| 10 | 2 | | | | ML-CL | | F | N _{bn} | 10 | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | |
| 22 | 3 | | | | ML-CL | | | | 22 | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|---|-----------------|---|------|-----------|--------|-------------------------|-------------------------|------|-------|--------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22772-96 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B | | ELEV: | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | MILE | B,C,S | NUMBER |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | |
| | | | | | | | | | | % | | | | | | | | |
| 2 | 3 | | | | ML-CL | | | | 2 | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22772-96 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | ELEV: | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 60 80 100 100+ | | | | | | | |
| 2 | | | | | SM | - 6" BROWN SAND - - - - | | | 2 | | | | | | | | |
| 4 | | | | | | SILTY SAND TILL WITH SOME GRAVEL AND OCCASIONAL COBBLE AND SMALL BOULDER | | | 4 | | | | | | | | |
| 6 | 1 | | | | SC | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | F | N _{bn} | 12 | | | | | | | | |
| 14 | 2 | | | | SC | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | 3 | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|-----------------------|---|----------------------------|---|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/3/73 | | AIRPHOTO NO: A22772-97 | | CHAINAGE: 457+00 | | OFFSET: 250' E | | TEST HOLE | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | | | | | |
| DEPTH (FEET) | SAMPLE NUMBER | SAMPLE TYPE | % RECOVERY | PENETRATION RESISTANCE | UNITED SOIL SYMBOL | SOIL DESCRIPTION | LIMITS OF FROZEN GROUND | ICE DESCRIPTION | DEPTH (FEET) | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | SM | BROWN FINE SILTY SAND WITH SOME ORGANIC MATTER | | | | | | | | | | |
| 2 | 1 | | | | CL | BROWN SILTY TILL, CLAYEY, SANDY AND GRAVELLY OCCASIONAL BOULDERS | F | N _{bn} | 2 | 20 | 33 | 26 | 21 | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--------------------------------|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22772-96 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 25 | 4 | | | | | SC SANDY CLAY WITH SILT (TILL) | | | 2 | 15 | 26 | 51 | 8 | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|------------------------|-----------|---|-------------------------|---------|-----------|
| OWN: | | FIELD ENG: | | DATE DRILLED: | | AERPHOTO NO: | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | |
| 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 | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | | | | SAND % |
| 2 | 1 | | | | Pt | PEAT TOP SOIL AND SOME SILTY SAND | F | V _x | 2 | | | | | | |
| 4 | 2 | | | | SC | SILTY, SANDY AND GRAVELLY TILL WITH SOME CLAY | F | N _{bn} | 4 | 15 | 30 | 30 | 25 | | |
| 8 | 3 | | | | CL | ---BROWN--- GREY CLAYEY, SILTY AND SANDY TILL WITH SOME GRAVEL AND OCCASIONAL BOULDERS | F | | 8 | 25 | 30 | 30 | 15 | | |
| 18 | 4 | | | | CL | | F | | 18 | 26 | 26 | 36 | 12 | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | |
|---|------------------|----------------|------------------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|----|
| DWN: | | FIELD ENG: | DATE DRILLED: 9/2/73 | AIRPHOTO NO: A22772-97 | CHAINAGE: | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | TECH: R.S. | RIG: 1 | SURFACE DRAINAGE: FAIR | VEGETATION: A D | ELEV: | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| 1 | | | | | Pt | PEATY TOP SOIL | | | | | | | | | | | |
| 2 | 2 | | | | | CLAYEY AND SILTY SAND TILL WITH SOME GRAVEL AND OCCASIONAL BOULDER | | | 2 | | | | | | | | |
| 4 | 3 | | | | SC | | | | 4 | | | | | | | | |
| 6 | 4 | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | 5 | | | | SC | | F | N _{bn} | 10 | | | | | 21 | 24 | 37 | 18 |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | 6 | | | | SC | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | 21 | 30 | 40 | 9 |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|----------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22772-97 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B | | ELEV: | | MILE 404 | | B,C,S B | | NUMBER J | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | SM | SILTY SAND & ORGANICS | | | | | | | | | | | |
| 2 | | | | | | SILTY SAND TILL WITH SOME CLAY AND A TRACE OF GRAVEL WITH AN OCCASIONAL BOULDER | | | 2 | | | | | | | | |
| 4 | 1 | | | | SC | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | SC | | F | N _{bn} | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | 3 | | | | SC | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | 16 | 30 | 52 | 2 | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | 4 | | | | SC | | | | 20 | 17 | 26 | 54 | 3 | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 9/2/73 | | AIRPHOTO NO: A22772-97 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 25 | 4 | | | | SC | | | | 25 | | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 30 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | |
|---|---------------|------------------------|------------|---|---------------------|--------------------|-------------------------|-----------------|--------------|---|----|----|----|-----|----------------------|----------------------|--------|--------|----------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | | | | | | | | | | | | | | |
| CKD: | | TECH: W R. | | RIG: 1 | | | | | | | | | | | | | | | |
| | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | | | | | | | | | | | | | | |
| | | | | ELEV: | | | | | | | | | | | | | | | |
| | | | | TEST HOLE | | | | | | | | | | | | | | | |
| | | | | MILE 406 | | | | | | | | | | | | | | | |
| | | | | B,C,S B | | | | | | | | | | | | | | | |
| | | | | NUMBER F | | | | | | | | | | | | | | | |
| | | | | 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 | | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | CLAY % | SILT % | SAND % | GRAVEL % |
| 2 | 3 | | | | SC | | | | 2 | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|------------------------|----------------------------|--------------------|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-99 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
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| 25 | 3 | | | | SC | | | | 2 | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 4 | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-99 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
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| 2 | | | | | | SILTY SAND TILL WITH SOME CLAY AND GRAVEL AND OCCASIONAL COBBLES AND BOULDERS | F | N _{bn} | 2 | | | | | | | | | |
| 4 | 1 | | | | SC | | | | 4 | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|-----------------------|--|---|--|------------------------|--|---------------------|--|-------------------|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-99 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| OWN: | | FIELD ENG: | | DATE DRILLED: 10/3/73 | | AIRPHOTO NO: A22772-102 | | CHAINAGE: 659+00 | | OFFSET: 450' E | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | GW | BROWN SILTY AND SANDY GRAVEL TILL WITH SOME CLAY AND OCCASIONAL BOULDERS | F | Nbn | 2 | 10 | 25 | 25 | 40 | | | | | | | | | | | | | | | | |
| 4 | | | | | | END OF HOLE AT 4' | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
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| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|---|-------------|-------------------------|-------------------------|---------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-104 | | CHAINAGE: | | OFFSET: | | ELEV: | | TEST HOLE | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | |
| 2 | | | | | | SILTY SAND TILL WITH SOME CLAY AND GRAVEL AND OCCASIONAL COBBLES AND BOULDERS | F | N _{bn} | 2 | | | | | | | | | | | | |
| 4 | 1 | | | | SC | | | | 4 | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | |
| 14 | 2 | | | | SC | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | 3 | | | | | | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | |
|---|--|-------------------------|--|-----------------------|--|-------------------------|--|---|--|----------------------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/72 | | AIRPHOTO NO: A22772-104 | | CHAINAGE: | | OFFSET: | |
| CKD: | | TECH: W.R. | | RIG: I | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | |
| 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 | | WET DENSITY (P.C.F.) | |
| | | | | | | | | CLAY | | SILT | |
| | | | | | | | | SAND | | GRAVEL | |
| | | | | | | | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | |
| | | | | | | | | REMARKS | | | |
| 2 | | 3 | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|--------------------|------------------------|-----------|-------------------------|-------------------------|---------|-----------|-------------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-104 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: N.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | |
| | | | | | | | | | | CLAY % | SILT % | | | | SAND % | GRAVEL % |
| 2 | | | | | | SILTY SAND TILL WITH SOME CLAY AND GRAVEL | F | N _{bn} | | | | | | | | |
| 4 | 1 | | | | SC | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 14 | 2 | | | | SC | | | | | | | | 14 | 23 | 48 | 15 |
| 16 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 22 | 3 | | | | SC | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | END OF HOLE AT 25' | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|--|------|--------------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-104 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A D | | ELEV: | | MILE 408 B.C.S. NUMBER K | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | 1 | | | | SC | SILTY SAND TILL WITH SOME CLAY AND GRAVEL AND OCCASIONAL COBBLES | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | F | N _{bn} | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | 2 | | | | SC | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 3 | | | | SC | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-104 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 25 | 3 | | | | SC | | | | 25 | | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 30 | | | | | | | | | 30 | | | | | | | |
| 6 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-104 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | |
| 2 | | | | | | SILTY SAND WITH SOME CLAY AND GRAVEL AND OCCASIONAL COBBLES | F | N _{bn} | | | | | | | | | | | |
| 4 | 1 | | | | SC | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |
| 14 | 2 | | | | SC | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | |
| 22 | 3 | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | |

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

PLASTIC LIMIT LIQUID LIMIT

20 40 60 80 100 100+

21 31 46 2

[illegible]

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|-----------------------|--|-------------------------|--|---|--|---------------------|--|-------------------|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-106 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | |
|---|--|-------------------------|--|-----------------------|--|---|--|---|--|-----------------------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-106 | | CHAINAGE: | | OFFSET: | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | |
| DEPTH (FEET) | | SAMPLE NUMBER | | SAMPLE TYPE | | % RECOVERY | | PENETRATION RESISTANCE | | UNIFIED SOIL SYMBOL | |
| SOIL DESCRIPTION | | LIMITS OF FROZEN GROUND | | ICE DESCRIPTION | | DEPTH (FEET) | | O = WATER CONTENT (% OF DRY WEIGHT) Δ = ICE CONTENT (% OF SAMPLE VOLUME) | | GRAIN-SIZE ANALYSIS | |
| | | | | | | | | PLASTIC LIMIT 40 60 80 100 100+ | | WET DENSITY (P.C.F.) | |
| | | | | | | | | | | CLAY SILT SAND GRAVEL | |
| | | | | | | | | | | % | |
| 2 | | 1 | | | | | | | | ML | |
| 4 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 10 | | 2 | | | | | | | | ML | |
| 12 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 20 | | 3 | | | | | | | | ML | |
| 22 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-------------------------|-------------------------------|--------------------|-----------------|---|---|---|---|-------|--|---------------------|------|------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIRPHOTO NO: A22772-106 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: | | VEGETATION: | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | |
| 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) | | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | % | % | % | % | | | | | | | | | |
| 2 | 3 | | | | ML | | | | 2 | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | |
| 30 | | | | | | END OF HOLE AT 30' | | | 6 | | | | | | | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | | | | | | | |
| 8 | | | | | | | | | 10 | | | | | | | | | | | | | |
| 10 | | | | | | | | | 12 | | | | | | | | | | | | | |
| 12 | | | | | | | | | 14 | | | | | | | | | | | | | |
| 14 | | | | | | | | | 16 | | | | | | | | | | | | | |
| 16 | | | | | | | | | 18 | | | | | | | | | | | | | |
| 18 | | | | | | | | | 20 | | | | | | | | | | | | | |
| 20 | | | | | | | | | 22 | | | | | | | | | | | | | |
| 22 | | | | | | | | | 24 | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|---------------|--------------|-----------------------|-------------------------|---------------------|---|-------------------------|-----------------|--------------|--|------|------|--------|----------------------|----------------------|---------|
| DWN: | | FIELD ENG: | DATE DRILLED: 10/3/73 | AIRPHOTO NO: A22772-105 | CHAINAGE: 775+00 | OFFSET: 1,650' E | | TEST HOLE | | | | | | | | |
| CKD: | | TECH: S.O.M. | RIG: D-7 CAT | SURFACE DRAINAGE: GOOD | VEGETATION: A B | ELEV: | | MILE | B,C,S | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | % | % | % | % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | SM | BROWN SILTY SAND TILL WITH SOME GRAVEL AND A TRACE OF CLAY, SOME ORGANIC MATTER IN UPPER 1.5' | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/2/73 | | AIRPHOTO NO: A22772-107 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | Pt | PEAT | | V _x | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 1 | | | | ML | SILT AND SAND WITH SOME CLAY AND A TRACE OF GRAVEL | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | F | N _{bn} | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | ML | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | DRILL HOLE REPORT | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|------|-----------|--------|---|-------------------------|---------|---|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/3/73 | | AIRPHOTO NO: A22772-107 | | CHAINAGE: 849+00 | | OFFSET: 1,350' | | | | | | | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: FAIR-GOOD | | VEGETATION: B A | | ELEV: | | TEST HOLE | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | |
| | | | | | | | | | | % | % | % | % | | | | | | | |
| 2 | 1 | | | | CI | BROWN CLAYEY SILT WITH SOME SAND, SOME ORGANIC MATTER IN UPPER 1.5' | F | N _{bn} | 2 | <div style="text-align: center;">○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME)</div> <div style="text-align: center;"><div style="display: flex; justify-content: space-between; width: 100%;"><div>PLASTIC LIMIT 20</div><div>LIQUID LIMIT 100+</div></div><div style="position: relative; height: 10px;"><div style="width: 100%; border-bottom: 1px solid black;"></div><div style="position: absolute; left: 10%; top: -5px;">10</div></div></div> | | | | 27 | 62 | 11 | 0 | SOIL VERY DIFFICULT TO EXCAVATE WHEN FROZEN | | |
| 4 | | | | | | END OF TRENCH AT 3.5' | | | 4 | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-------------------------------------|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 10/2/73 | | AIR PHOTO NO: A22781-138 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B F | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | CL | BROWN CLAYEY SILT WITH SOME SAND | | | 2 | | | | | | | |
| 4 | | | | | | | F | N _{bn} | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | CL | | UF | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|----------------------------------|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/2/73 | | AIRPHOTO NO: A22781-138 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B F | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | Pt | PEAT AND SOME CLAYEY SILT | F | V _x | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | CL-ML | BROWN CLAYEY SILT WITH SOME SAND | UF | | 6 | | | | | | | |
| 8 | 1 | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 2 | | | | CL-ML | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 3 | | | | CL-ML | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-------------------------|----------------------------|--------------------|-----------------|---------------------|-----------|---|-------------|-------------------------|-------------------------|---------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/2/73 | | AIRPHOTO NO: A22781-138 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE 412 B,C,S NUMBER N | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | |
| 2 | 1 | | | | | SM FINE SILTY SAND | | | 2 | | | | | | | | | | | | |
| 4 | | | | | | | F | N _{bn} | 4 | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | |
| 10 | 2 | | | | SM | | | | 10 | | | | | | | | | | | | |
| 12 | | | | | | | UF | | 12 | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 14' | | | 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/2/72 | | AERPHOTO NO: A22772-113 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML-CL | BROWN SILTY AND SANDY TILL WITH SOME CLAY AND A TRACE OF GRAVEL | | | 2 | 20 | 35 | 38 | 7 | | | |
| 4 | | | | | ML-CL | | | | 4 | | | | | | | |
| 6 | | | | | ML-CL | | | | 6 | | | | | | | |
| 8 | 2 | | | | ML-CL | | | | 8 | | | | | | | |
| 10 | | | | | ML-CL | | | | 10 | | | | | | | |
| 12 | 3 | | | | ML-CL | | | | 12 | | | | | | | |
| 14 | | | | | ML-CL | | | | 14 | | | | | | | |
| 16 | | | | | ML-CL | | | | 16 | | | | | | | |
| 18 | 4 | | | | ML-CL | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | |
|---|---------------|-------------|-----------------------|-------------------------|---------------------|--|-------------------------|-----------------|--------------|---|------|------|------|--------|----------------------|----------------------|---------|
| DWN: | | FIELD ENG: | DATE DRILLED: 11/2/73 | AIRPHOTO NO: A22772-113 | CHAINAGE: | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: R.G. | RIG: 2 | SURFACE DRAINAGE: GOOD | VEGETATION: A | ELEV: | | MILE | B,C,S | | | | | | | | |
| 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) | CLAY | SILT | SAND | GRAVEL | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| 2 | 1 | | | | ML-CL | SILTY AND SANDY TILL WITH SOME CLAY AND GRAVEL AND OCCASSIONAL COBBLES | | | 2 | 15 | 40 | 35 | 10 | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | 2 | | | | ML-CL | | F | N _{bn} | 8 | 15 | 33 | 40 | 12 | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | 15 | 25 | 40 | 20 | | | | |
| 14 | 3 | | | | ML-CL | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | 25 | 30 | 35 | 10 | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/2/73 | | AIRPHOTO NO: A22772-113 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SM | SILTY SAND TILL WITH SOME CLAY AND GRAVEL | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 2 | | | | SP | SAND WITH SOME GRAVEL AND A TRACE OF SILT | F | N _{bn} | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | SM | SAND WITH SOME SILT AND A TRACE OF CLAY AND GRAVEL | | | 12 | | | | | | | |
| 14 | | | | | | END OF HOLE AT 13' | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|---|-------------|-------------------------|-------------------------|---------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/2/73 | | AIRPHOTO NO: A22772-113 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | |
| 2 | 1 | | | | SM | SILTY SAND TILL WITH SOME CLAY AND GRAVEL | | | 2 | 12 | 24 | 47 | 17 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | |
| 8 | 2 | | | | SM | | | N _{bn} | 8 | 13 | 29 | 47 | 11 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | |
| 12 | 3 | | | | SM | | | | 12 | 8 | 21 | 47 | 24 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | |
| 18 | 4 | | | | SM | | | | 18 | 13 | 24 | 40 | 23 | | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|--|-----------|-----------|-------------|-------------------------|-------------------------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/3/73 | | AIRPHOTO NO: A22772-113 | | CHAINAGE: 1024+00 | | OFFSET: 450' E | | TEST HOLE | | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE | | B,C,S | | NUMBER | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| | | | | | | | | | | % | % | % | % | | | | |
| 1 | 1 | | | | GM | BROWN SILT, SAND, AND GRAVEL TILL WITH SOME CLAY AND OCCASIONAL BOULDERS | F | Nbn | 1 | 14 | 31 | 27 | 28 | | | ABANDONED TRENCH AT DEPTH OF 2 FT BECAUSE OF EXTREMELY SLOW RATE OF EXCAVATION IN THIS FROZEN SOIL | |
| 2 | | | | | | | | | 2 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 12/2/73 | | AIR PHOTO NO: A22772-115 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | | SAND WITH SOME SILT AND A TRACE OF CLAY AND GRAVEL | | | 2 | | | | | | | |
| 4 | 1 | | | | SW | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | F | N _{bn} | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 3 | | | | SW | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/3/73 | | AIRPHOTO NO: A22791-132 | | CHAINAGE: 1155+00 | | OFFSET: 150' E | | TEST HOLE | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | O = WATER CONTENT (% OF DRY WEIGHT) Δ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+ | | | | | | |
| 2 | 1 | | | | GW | BROWN SILTY AND SANDY GRAVEL TILL WITH SOME CLAY, SOME ORGANIC MATTER IN UPPER 1.5' F | | N _{bn} -N _f | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | 9 | 23 | 24 | 44 | | | |
| 6 | | | | | | END OF TRENCH AT 6' | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
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| DWN: | | FIELD ENG: | DATE DRILLED: | AIRPHOTO NO: | CHAINAGE: | OFFSET: | | TEST HOLE | | | | | | | | |
| CKD: | | TECH: | RIG: | SURFACE DRAINAGE: | | VEGETATION: | | ELEV: | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2-1 | | | | | SP | | F | N _{bn} | 2 | | 2 | 9 | 78 | 11 | | |
| 4 | | | | | | | | | | | | | | | | |
| 6 | 2 | | | | SP | SAND WITH SOME GRAVEL AND A TRACE OF SILT. The GRAVEL CONTENT SLIGHTLY INCREASES WITH DEPTH WHILE THE SILT CONTENT DECREASES | F | N _f | 6 | | 2 | 5 | 79 | 14 | | |
| 8 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 12 | 3 | | | | SP | | | | 12 | | 0 | 3 | 75 | 22 | | |
| 14 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 18 | 4 | | | | SP | | | | 18 | | 0 | 4 | 74 | 22 | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|-----------------------|--|-------------------------|--|---|--|---------------------|--|-------------------|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|----------------------|--|----------------------|--|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 13/2/73 | | AIRPHOTO NO: A22772-121 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | |
| 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 | | WET DENSITY (P.C.F.) | | DRY DENSITY (P.C.F.) | | REMARKS | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|---------------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 14/2/73 | | AIRPHOTO NO: A22777-122 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: M.H.R. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B | | ELEV: | | MILE 421 B,C,S B NUMBER H | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SP | BROWN SAND WITH SOME GRAVEL AND A TRACE OF SILT | | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | F | N _f | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SP | | F | N _f | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | END OF HOLE AT 11' (CAVING IN) | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|-----------------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 11/3/73 | | AIRPHOTO NO: A22776-199 | | CHAINAGE: 1487+50 | | OFFSET: 150' E | | TEST HOLE | | | | |
| CKD: | | TECH: S.O.M. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | SM | FINE ORGANIC SILTY SAND | | N _{bn} | | | | | | | | |
| 2 | 1 | | | | SP | MEDIUM TO COARSE GRAINED SAND WITH SOME GRAVEL AND A TRACE OF SILT | F | N _f | 2 | | | | | | | FAIRLY DRY SOIL |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA 15/2/73 | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: | | AIRPHOTO NO: A22776-126 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | ML | BROWN SILTY TILL WITH SOME SAND AND AND CLAY AND A TRACE OF GRAVEL | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | ML | | | | 8 | | | | | | | |
| 10 | | | | | | BROWN GREY | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 3 | | | | ML | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | ML | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | 5 | | | | ML | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | |
|---|--|---------------|--|-----------------------|--|---|--|------------------------|--|---------------------|--|-------------------|--|-------------------------|--|-----------------|--|--------------|--|---------------------|--|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 15/2/73 | | AIRPHOTO NO: A22772-134 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | |
| CKD: | | TECH: V.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B F G | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | |
| 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 | | REMARKS | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---------------------|-----------|---|-------------|-------------------------|-------------------------|---------|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 15/2/73 | | AIRPHOTO NO: A22772-134 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: V.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B F G | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | |
| 2 | | | | | SM | BROWN SILTY SAND WITH SOME ORGANIC MATTER IN UPPER 1 FT. | F | N _{bn} | 2 | | | | | | | | | | | | |
| 4 | 1 | | | | SM | BROWN SILTY SAND TILL WITH SOME CLAY AND A TRACE OF GRAVEL | UF | | 4 | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | |
| 8 | 2 | | | | SM | | | | 8 | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | |
| 12 | 3 | | | | SM | | | | 12 | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 15/2/73 | | AIRPHOTO NO: A22772-137 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: V.S. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B F G | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SM | BROWN SILTY SAND TILL WITH A TRACE OF CLAY AND GRAVEL | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | GREY SILT TILL WITH SOME SAND AND CLAY AND A TRACE OF GRAVEL | F | N _{dn} | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | CL | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-------------------------------------|----------------------------|---|-----------------|---------------------|-----------|--------------------------|-------------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 16/2/73 | | AIRPHOTO NO: A22772-139 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE 429 B.C.S. NUMBER H | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | CL | CLAYEY SILT WITH A TRACE OF SAND | F | V _x | 2 | 29 | 63 | 8 | 0 | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | BROWN GREY | | | 6 | | | | | | | |
| 8 | 2 | | | | CL | | UF | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | 4 | | | | CL | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|----|
| DWN: | | FIELD ENG: | | DATE DRILLED: 19/2/77 | | AIRPHOTO NO: A22772-140 | | CHAINAGE: 1874+00 | | OFFSET: 150' E | | TEST HOLE | | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | |
| 2 | | | | | GM | BROWN SILTY AND SANDY GRAVEL WITH COBBLES AND OCCASIONAL SMALL BOULDERS | | N _{bn} | 2 | | | | | | | | |
| 4 | | | | | GP | BROWN SANDY GRAVEL WITH SOME COBBLES, NO BEDDING VISIBLE | F | N _{bn} -N _f | 4 | | | | | | | | |
| 6 | 1 | | | | | | | | 6 | | | | | 0 | 1 | 22 | 77 |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | | | | | | END OF TRENCH AT 12' | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 20/2/73 | | AIRPHOTO NO: A22772-144 | | CHAINAGE: 2021+50 | | OFFSET: 450' E | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | | | | | GM | BROWN SILT, SAND AND GRAVEL | | Nbn | 2 | | | | | | | |
| 4 | | | | | GF | GRAVEL WITH SOME SAND AND COBBLES, LAYERED IN POORLY GRADED AND BETTER GRADED BEDS | F | Nf | 4 | | | | | | | |
| 6 | 1 | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | END OF TRENCH AT 10.5' | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|----|
| DWN: | | FIELD ENG: | | DATE DRILLED: 21/2/73 | | AIRPHOTO NO: A22771-86 | | CHAINAGE: 2163+00 | | OFFSET: 500' E | | TEST HOLE | | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT | | | | | | | |
| | | | | | SM | BROWN FINE SILTY SAND | | N _{bn} | | | | | | | | | |
| 2 | | | | | GW | BROWN SANDY GRAVEL WITH A TRACE OF COBBLES | | | 2 | | | | | | | | |
| 4 | 1 | | | | GM | BROWN SILTY AND SANDY GRAVEL WITH OCCASIONAL COBBLES, NON-PLASTIC | | N _{bn} -N _f | 4 | | | | | 7 | 24 | 37 | 32 |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | END OF TRENCH AT 9' | | | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/73 | | AIRPHOTO NO: A23004-141 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | SP | BROWN SAND WITH SOME GRAVEL AND A TRACE OF SILT | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SP | | F | N _f | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | SP | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/73 | | AIRPHOTO NO: A23004-141 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | SP | BROWN SAND WITH SOME GRAVEL AND A TRACE OF SILT | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | | | | SM | GREY SILTY SAND WITH SOME GRAVEL | F | N _{bn} | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | 3 | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/73 | | AIRPHOTO NO: A23004-141 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | |
| 2 | | | | | SP | BROWN SAND AND FINE GRAVEL WITH A TRACE OF SILT | | | 2 | | | | | | | |
| 4 | 1 | | | | ML | GREY SILTY TILL WITH SOME CLAY, SAND AND GRAVEL | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | ML | | F | N _{bn} | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | ML | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|------------------------|-----------|-------------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 21/2/77 | | AIRPHOTO NO: A22771-88 | | CHAINAGE: 2231+00 | | OFFSET: 450' E | | TEST HOLE | | | | |
| CKD: | | TECH: B.P.S. | | RIG: D-7 CAT | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE 437 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 | DEPTH (FEET) | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | PT | 0.3' ORGANIC SOIL | | | | | | | | | | |
| 2 | | | | | SM | BROWN-FINE-SILTY-SAND | | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | BROWN, FINE GRAINED SANDY GRAVEL. CONTAINS SOME THIN LOCALIZED SAND LENSES | | | 4 | | | | | | | |
| 6 | | | | | GP | | F | N _f | 6 | | | | | | | |
| 8 | 1 | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | SM | SILTY SAND LENSE | UF | | 12 | | | | | | | |
| 14 | | | | | | END OF TRENCH AT 12' | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/73 | | AIR PHOTO NO: A23004-142 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: W.R. | | RIG: 1 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | | | | | | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | SP | BROWN SAND AND GRAVEL WITH A TRACE OF SILT | F | N _{bn} | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | F | N _f | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | 2 | | | | SP | | UF | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/73 | | AIRPHOTO NO: A23004-142 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | Pt | PEATY TOP SOIL | F | N _{bn} | | | | | | | | |
| 2 | 1 | | | | SP | BROWN GRAVELLY SAND WITH A TRACE OF SILT GETS LESS GRAVELLY WITH DEPTH. OCCASIONAL COBBLES AND BOULDERS | F | N _f | 2 | | | | | | | |
| 4 | | | | | SP | | | | 4 | | | | | | | |
| 6 | | | | | SP | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | SAND WITH A SMALL TRACE OF GRAVEL AND SILT | | | 10 | | | | | | | |
| 12 | 3 | | | | SP | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | 4 | | | | SP | | | | 16 | | | | | | | |
| 18 | | | | | | END OF HOLE AT 18' | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|------|--------------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/73 | | AIRPHOTO NO: A23004-142 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B | | ELEV: | | MILE 438 B.C.S. NUMBER H | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | O = WATER CONTENT (% OF DRY WEIGHT) Δ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 40 LIQUID LIMIT 60 100 100+ | | | | | | |
| | | | | | | | | | | 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | ML | BROWN SANDY SILT WITH A TRACE OF CLAY AND GRAVEL | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | SW | SAND WITH SOME SILT AND A TRACE OF GRAVEL THE SILT CONTENT DECREASES WITH DEPTH | F | N _f | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 3 | | | | SW | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | SANDY GRAVEL WITH A TRACE OF SILT | | | 18 | | | | | | | |
| 20 | 4 | | | | GP | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|--|---|------|-----------|--------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AIRPHOTO NO: A23004-143 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | |
| | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | |
| 2 | | | | | | BROWN SILT AND CLAY WITH A TRACE OF GRAVEL | | | 2 | | | | | | | | |
| 4 | 1 | | | | CL | | | | 4 | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | F | N _{dn} | 10 | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|---------------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 19/2/73 | | AIRPHOTO NO: A23004-143 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: V.S. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B G | | ELEV: | | MILE 439 B,C,S NUMBER B B | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | CL | GREY SILT WITH SOME CLAY AND SAND | F | V _x | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | CL | GREY CLAYEY SILT WITH A TRACE OF SAND | F | V _x | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | 3 | | | | CL | GREY SILT AND CLAY WITH A TRACE OF SAND | F | V _x | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-----------------------------------|----------------------------|--------------------|-----------------|---|--------------|-----------|-------------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 19/2/73 | | AIRPHOTO NO: A23004-143 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: V.S. | | RIG: 1 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B G | | ELEV: | | MILE | | B,C,S | | NUMBER | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT | LIQUID LIMIT | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | | |
| 2 | 1 | | | | PT | BLACK PEATY SILT WITH SOME SAND | F | V _x | 2 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 6 | 2 | | | | | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | 3 | | | | CL | GREY SILT WITH SOME CLAY AND SAND | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | END OF HOLE AT 18' | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/7/73 | | AIRPHOTO NO: A23004-143 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | F | N _{bn} | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AIRPHOTO NO: A23004-143 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT | % | % | % | % | | |
| 2 | | | | | | BROWN CLAYEY SILT WITH A TRACE OF SAND | F | N _{bn} | 2 | | | | | | | |
| 4 | 1 | | | | CL | | UF | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|--|------|-----------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AERPHOTO NO: A22772-150 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | CL | LIGHT BROWN CLAYEY SILT WITH A TRACE OF SAND | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | F | N _{dn} | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|----|--------------|----|---------------------|------|--------|--------|-------------------------|-------------------------|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AERPHOTO NO: A22772-150 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| DEPTH (FEET) | SAMPLE NUMBER | SAMPLE TYPE | % RECOVERY | PENETRATION RESISTANCE | UNIFIED SOIL SYMBOL | SOIL DESCRIPTION | LIMITS OF FROZEN GROUND | ICE DESCRIPTION | DEPTH (FEET) | O = WATER CONTENT (% OF DRY WEIGHT) Δ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT | | LIQUID LIMIT | | CLAY | SILT | SAND | GRAVEL | | | | | | | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | % | % | % | % | | | | | | | | | | |
| 2 | | | | | | LIGHT BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | 1 | | | | CL | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|--|-----------|-------------------|-------------|-------------------------|-------------------------|---|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/73 | | AIRPHOTO NO: A22772-150 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | Pt | PEAT | | V _x | 2 | | | | | | | NO SAMPLE WOULD BLOW OUT PAST 10' DEPTH |
| 4 | 1 | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | F | N _{bn} | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | CL | | | | 8 | | | | | | | |
| 10 | | | | | | | UF | | 10 | | | | | | | |
| 12 | | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|-------------------------------|---|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AIRPHOTO NO: A22772-151 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| 2 | 1 | | | | CL | BROWN CLAYEY SILT WITH A TRACE OF SAND AND AN OCCASIONAL BOULDER | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | F | N _{bn} | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 2 | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---|----|-----------|----|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|-------------|------------|-------------|--|--|--|--|
| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | | | | | | | |
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AIRPHOTO NO: A22772-151 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | | | | | | | | | | | |
| 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) | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | MILE 442 | B,C,S B | NUMBER J | | | | |
| | | | | | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | | | | | | | | | | | |
| 2 | 1 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | F | N _{bn} | 2 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | |
| 8 | 2 | | | | CL | | UF | | 8 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | |
|---|--|------------|--|-----------------------|--|-------------------------|-------------------|-----------|--|-----------------|---|---------|--|-----------|-------|--------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 28/2/73 | | AIRPHOTO NO: A22772-151 | | CHAINAGE: | | | | OFFSET: | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | | | VEGETATION: B D | | | | ELEV: | | |
| | | | | | | | | | | | | | | TEST HOLE | | |
| | | | | | | | | | | | | | | MILE | B,C,S | NUMBER |
| | | | | | | | | | | | | | | 442 | B | U |
| REMARKS | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-------------------------|---|--|--|--|---------------|--|----|--|--|---------|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|
| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
| DWN: | | | FIELD ENG: | | | DATE DRILLED: | | | AIRPHOTO NO: A22772-151 | | | | | CHAINAGE: | | | | | OFFSET: | | | | | TEST HOLE | | | | | |
| CKD: | | | TECH: J.M. | | | RIG: 2 | | | SURFACE DRAINAGE: FAIR | | | | | VEGETATION: B | | | | | ELEV: | | | | | | | | | | |
| 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) <div style="text-align: center; margin-top: 5px;"> PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ </div> | | | | | | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | |
| | | | | | | | | | | | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | |
| 2 | 1 | | | | Pt | PEAT | | V _x | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | | F | N _{bn} | 4 | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | 2 | CL | | | | | | | | 6 | | | | | | | | | | | | | | | |
| 8 | CL | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 3 | | | | | | | | | | | | | | | 10 | | | | | | | | | | | | | |
| 12 | | | | | CL | | | 12 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---------------------|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 24/2/03 | | AIRPHOTO NO: A22772-151 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | Pt | PEAT | | V _u | | | | | | | | |
| 2 | 1 | | | | CL | DARK BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | 2 | | | | CL | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 18' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|--|------|-------------------|--------|-------------------------|-------------------------|---|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AERIAL PHOTO NO: A22772-154 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B D | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | Pt | PEAT | | | 2 | | | | | | | THIS SOIL IS DRILLED WITH OUT EFFORT, AT A QUICK PACE, NO SAMPLE WOULD COME UP PAST 15 FT DEPTH ALTHOUGH HOLE WAS ADVANCED TO 25' |
| 4 | | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | F | Vx | 4 | | | | | | | |
| 6 | 2 | | | | CL | | UF | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22772-156 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R. G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT | | | | | | |
| 2 | 1 | | | | Pt | DARK BROWN PEATY SILT WITH SOME CLAY | F | V _x | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | F | N _{bn} | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | END OF HOLE AT 20' | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|---|------|-----------|--------|-------------------------|-------------------------|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: POOR | | VEGETATION: B | | ELEV: | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | MILE 446 B,C,S B NUMBER F | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 | | | | | | | |
| | | | | | Pt | PEAT | F | V x | | | | | | | | SOIL COULD NOT BE BLOWN OUT PAST 10' DEPTH | |
| 2 | 1 | | | | CL | BROWN CLAYEY SILT WITH A TRACE OF SAND | UF | | 2 | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | |
| 8 | 2 | | | | | | F | V x | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | 3 | | | | CL | | UF | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|------|---|--------|-------------------------|-------------------------|--------|--|--|--|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/13 | | AIR PHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: POOR | | VEGETATION: A D | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | |
| 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 | | | | | | | | | | REMARKS | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 40 LIQUID LIMIT 60 100 100+ 20 40 60 80 100 100+ | | | | | | | | | | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | | | | | | |
| | | | | | | | | | | % | % | % | % | | | | | | | | |
| 2 | | | | | Pt | PEATY SOIL | | | 2 | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | |
| 6 | 1 | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND, SOME ORGANIC MATTER IN UPPER 3 FT. | | | 6 | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | |
| 12 | 2 | | | | CL | | | | 12 | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | |
| 18 | 3 | | | | CL | | | | 18 | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-------------------|-------------|-------------------------|---|---------|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: B | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | |
| 2 | 1 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | | | 2 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | |
| 10 | | | | | | | F | N _{bn} | 10 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | | | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|------|-------------------|--------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | | | | | | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT ——— LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | | | | | | | | | | | | | | |
| | | | | | Pt | PEAT | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND, SOME ORGANIC MATTER IN UPPER 3 FT. | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | | | | CL | | F | V _x | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | UF | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | 4 | | | | CL | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | END OF HOLE AT 23' | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | |
|---|---------------|-------------|------------|------------------------|---------------------|---|-------------------------|-----------------|---|---|---------|--------|-----------|----------------------|----------------------|---|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | | OFFSET: | | TEST HOLE | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | | ELEV: | | MILE | B,C,S | NUMBER | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | O = WATER CONTENT (% OF DRY WEIGHT) Δ = ICE CONTENT (% OF SAMPLE VOLUME) | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | | ICE ON SURFACE | F | | | PLASTIC LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | NO SAMPLE WOULD BLOW OUT PAST 10' DEPTH |
| 1 | | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | UF | | 4 | | | | | | | |
| 4 | | | | | | | | | 6 | | | | | | | |
| 6 | | | | | | | | | 8 | | | | | | | |
| 2 | | | | | CL | | F | V _x | 8 | | | | | | | |
| 10 | | | | | | | UF | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: B | | ELEV: | | MILE | | B,C,S | | NUMBER | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | F | N _{bn} | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | 2 | | | | CL | | UF | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|---|-----------------|--|------|-----------|--------|-------------------------|-------------------------|---------|
| OWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: POOR | | VEGETATION: D B | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | Pt | PEATY CLAYEY SILT | F | V _x | 2 | | | | | | | |
| 4 | | | | | | | UF | | 4 | | | | | | | |
| 6 | 2 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND, SOME ICE CRYSTALS RECOVERED IN SAMPLE NO. 2 | F | V _x | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | UF | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 15' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|-------------------------------------|----------------------------|---|-----------------|---------------------|-----------|-----------|-------------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22771-102 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A | | ELEV: | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | |
| | | | | | Pt | PEAT | | | | | | | | | | |
| 2 | 1 | | | | CL | CLAYEY SILT WITH A TRACE OF SAND | F | V _x | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | 2 | | | | CL | <u>LIGHT BROWN</u> DARK BROWN | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | UF | | 10 | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | END OF HOLE AT 16' | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|----|-----------------|----|-----|---|---|---|---|---|---------------------|--|------|------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 22/2/73 | | AIRPHOTO NO: A22771-104 | | CHAINAGE: | | OFFSET: | | ELEV: | | | | | | | | TEST HOLE | | | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: FAIR | | VEGETATION: A B | | | | | | | | | | | | | | | | | | |
| 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) | | | | | | | | | | GRAIN-SIZE ANALYSIS | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | PLASTIC LIMIT | | LIQUID LIMIT | | | | | | | | | | CLAY | SILT | | | |
| | | | | | | | | | | 20 | 40 | 60 | 80 | 100 | 100+ | % | % | % | % | | | | | | | |
| | | | | | Pt | PEAT | F | V _x | 2 | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | CL | BROWN SILT WITH SOME CLAY AND A TRACE OF SAND | | | 4 | | | | | | | | | | | | | | | | | |
| 6 | 2 | | | | CL | | UF | | 6 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | | | | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | | | | | | | | | |
| 16 | 4 | | | | CL | | | | 16 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | | | | | DRILL HOLE REPORT | | | | | | | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | |
|---|---------------|-------------|------------|------------------------|---------------------|--|-------------------------|-------------------|--------------|---|------|-------------------------|--------|----------------------|----------------------|---------|--|--|--|---|--|--|--|--|--|--|--|--|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 23/2/73 | | AIRPHOTO NO: A22771-104 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | | | | | | | | | | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A B D | | ELEV: | | MILE 447 B,C,S NUMBER J | | | | | | | | | | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | | | | | | | | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+ | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | Pt | PEAT | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | CL-CH | BROWN CLAY AND SILT WITH A TRACE OF SAND ALSO A TRACE OF GRAVEL BELOW 14 FT. | F | V _x | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | | | | CL-CH | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | CL-CH | | | | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | 3 | | | | CL-CH | | UF | | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | CL-CH | | | | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | CL-CH | | | | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | 4 | | | | CL-CH | | | | 16 | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | CL-CH | | | | 18 | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | CL-CH | | | | 20 | | | | | | | | | | | | | | | | | | | | |
| 22 | 5 | | | | CL | LIGHT BROWN SILT WITH SOME CLAY AND A TRACE OF SAND AND GRAVEL | | | 22 | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | CL | | | | 24 | | | | | | | | | | | | | | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|--|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 21/2/73 | | AIRPHOTO NO: A22771-104 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | |
| | | | | | | | | | | PLASTIC LIMIT LIQUID LIMIT 20 40 60 80 100 100+ | | | | | | |
| 2 | 1 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | F | N _{bn} | 2 | | | | | | | |
| 4 | | | | | | | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | 2 | | | | CL | | | | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|---|-----------------|---------------------|------|-------------------|--------|-------------------------|-------------------------|---------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 21/2/73 | | AIRPHOTO NO: A22771-104 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | MILE B,C,S NUMBER | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | |
| | | | | | Pt | PEAT | | | | | | | | | | |
| 2 | | | | | | | | | 2 | | | | | | | |
| 4 | 1 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | | | 4 | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | |
| 10 | | | | | | | F | N _{bn} | 10 | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | |
| 14 | 2 | | | | CL | | | | 14 | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | |

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | DRILL HOLE REPORT | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|---|----------------------------|--------------------|-----------------|---|------|------|--------|-------------------------|-------------------------|-----------|-------|--------|
| DWN: | | FIELD ENG: | | DATE DRILLED: 21/2/72 | | AIRPHOTO NO: A22771-106 | | CHAINAGE: | | OFFSET: | | | | | | | | |
| CKD: | | TECH: R.G. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | TEST HOLE | | |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | MILE | B,C,S | NUMBER |
| | | | | | | | | | | CLAY | SILT | SAND | GRAVEL | | | | | |
| | | | | | | | | | | % | % | % | % | | | | | |
| | | | | | | | | | | PLASTIC LIMIT 20 40 60 80 100 100+ LIQUID LIMIT 80 100 100+ | | | | | | | | |
| | | | | | | | | | | ○ = WATER CONTENT (% OF DRY WEIGHT) △ = ICE CONTENT (% OF SAMPLE VOLUME) | | | | | | | | |
| 2 | | | | | Pt | PEAT | | | 2 | | | | | | | | | |
| 4 | 1 | | | | CL | DARK BROWN CLAYEY SILT WITH A TRACE OF SAND | | | 4 | | | | | | | | | |
| 6 | | | | | | | | | 6 | | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | | |
| 10 | 2 | | | | CL | | | | 10 | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | | |
| 18 | | | | | | | | | 18 | | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | | |
| 22 | | | | | | END OF HOLE AT 20' | | | 22 | | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | | |
| REMARKS | | | | | | | | | | | | | | | | | | |

[illegible]

| ACRES CONSULTING SERVICES LIMITED CALGARY, ALBERTA | | | | | | DRILL HOLE REPORT | | | | DEPARTMENT OF PUBLIC WORKS, CANADA MACKENZIE HIGHWAY | | | | | | | |
|---|------------------|----------------|------------|---------------------------|------------------------|--|----------------------------|--------------------|-----------------|---|-----------|-----------|-------------|-------------------------|-------------------------|---------|--|
| DWN: | | FIELD ENG: | | DATE DRILLED: 21/2/73 | | AIRPHOTO NO: A22771-101 | | CHAINAGE: | | OFFSET: | | TEST HOLE | | | | | |
| CKD: | | TECH: J.M. | | RIG: 2 | | SURFACE DRAINAGE: GOOD | | VEGETATION: A | | ELEV: | | | | | | | |
| 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 | | | | WET DENSITY (P.C.F.) | DRY DENSITY (P.C.F.) | REMARKS | |
| | | | | | | | | | | CLAY % | SILT % | SAND % | GRAVEL % | | | | |
| | | | | | Pt | PEAT | | | | | | | | | | | |
| 2 | 1 | | | | CL | BROWN CLAYEY SILT WITH A TRACE OF SAND | F | V _x | 2 | | | | | | | | |
| 4 | | | | | | | UF | | 4 | | | | | | | | |
| 6 | 2 | | | | CL | | | | 6 | | | | | | | | |
| 8 | | | | | | | | | 8 | | | | | | | | |
| 10 | | | | | | | | | 10 | | | | | | | | |
| 12 | 3 | | | | CL | | | | 12 | | | | | | | | |
| 14 | | | | | | | | | 14 | | | | | | | | |
| 16 | | | | | | | | | 16 | | | | | | | | |
| 18 | | | | | | END OF HOLE AT 16' | | | 18 | | | | | | | | |
| 20 | | | | | | | | | 20 | | | | | | | | |
| 22 | | | | | | | | | 22 | | | | | | | | |
| 24 | | | | | | | | | 24 | | | | | | | | |