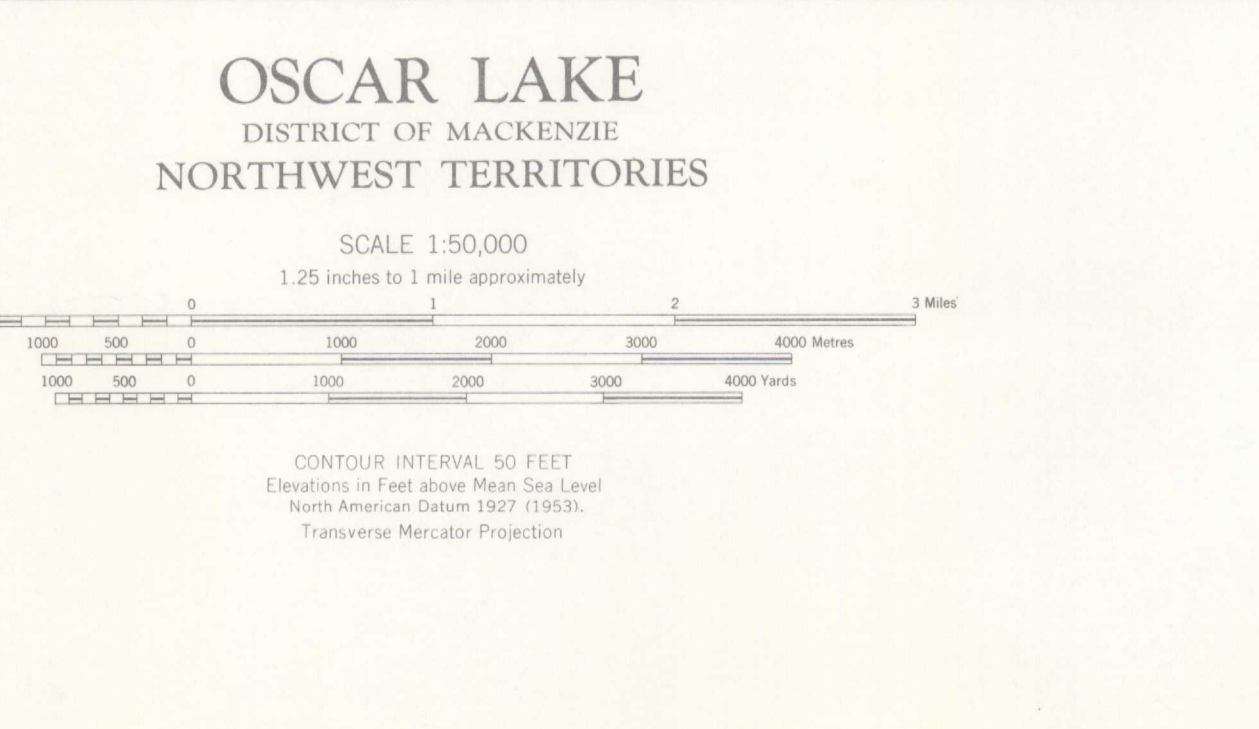
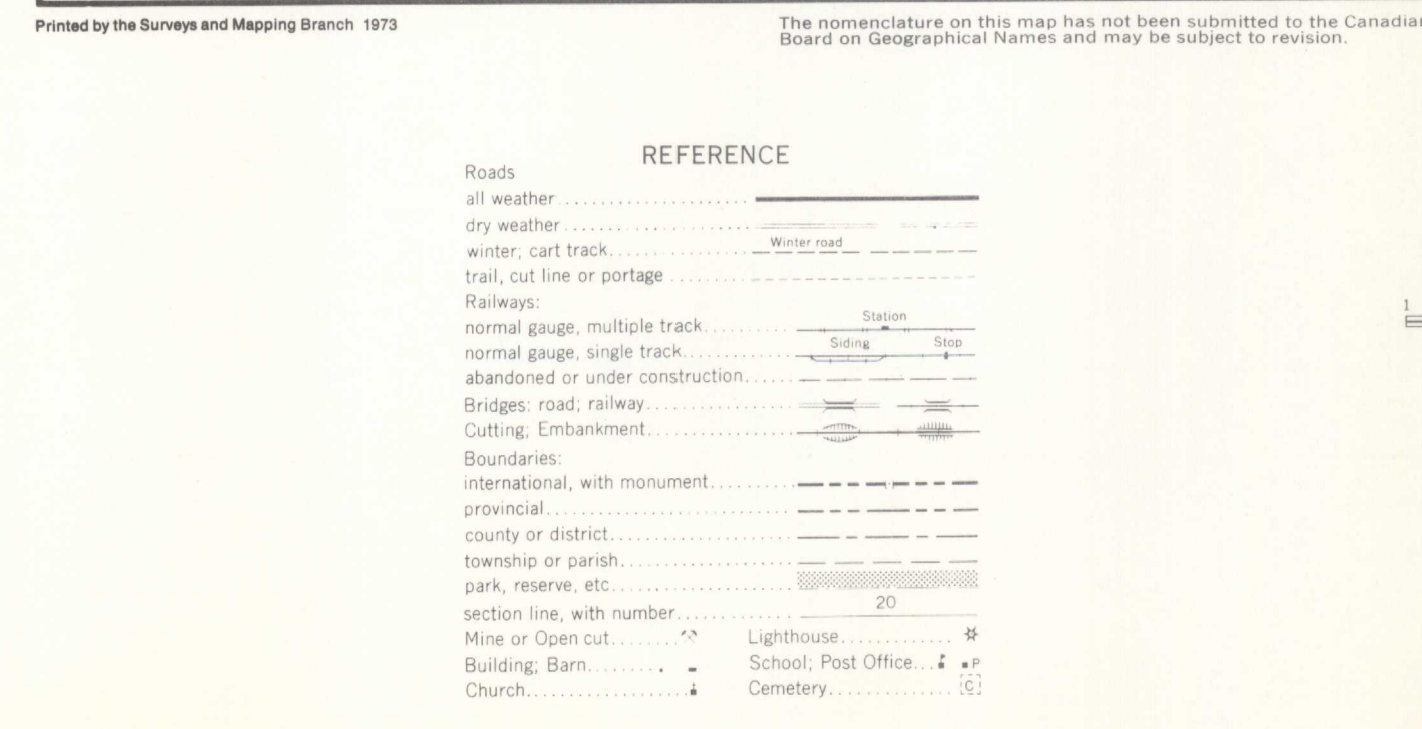
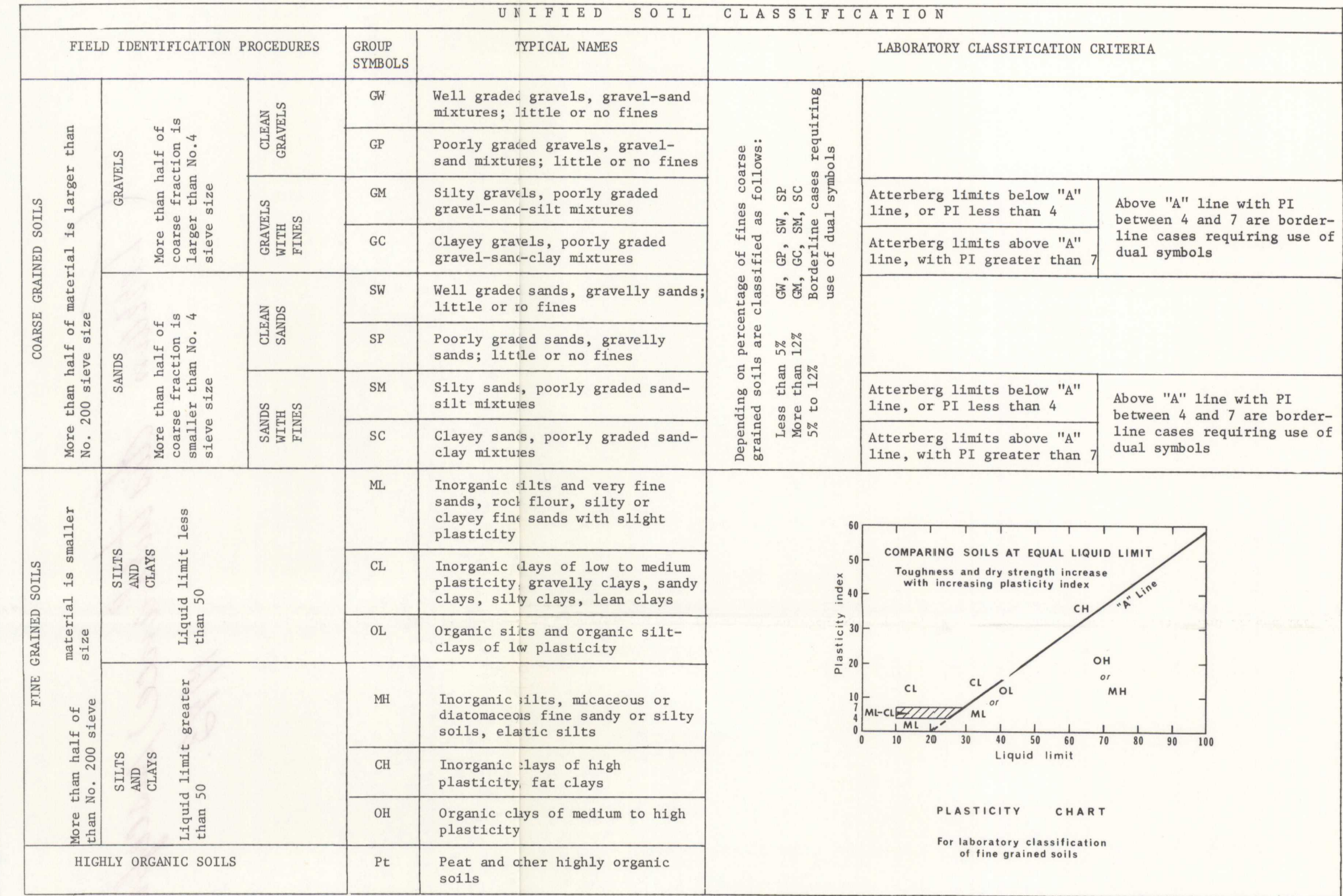


LEGEND

| Susceptibility Rank | Map Unit | Soil type symbol | General description  | Comments  |
|---------------------|----------|------------------|--|---|
| I                   |          |                  | Bedrock - shales, sandstones, carbonates and siltstones. Very low ice content except in shale where fractures are filled with ice to depth of 100-150 ft.  | Competent carbonates and sandstones can be used as source of granular material. Rock falls and slides occur on steep slopes, rotational slumps common on high cliffs of shale. No changes caused by disturbance except on steep slopes of frozen shale. |
| II                  |          | GP               | Gravel - medium to coarse, poorly graded, high permeability. Low ice content in coarse materials; locally ice lenses in finer sediments. Ground ice generally absent in beach sediments.   | Good source of granular material. Locally minor ground ice slumping and thermokarst subsidence can be caused by disturbance.  |
|                     |          | SP               | Sand - fine to medium, poorly graded, moderate to high permeability. Low to moderate ice content, seams of segregated ice.   | Suitable as source of granular material. Minor ground ice slumping and thermokarst subsidence can be caused by disturbance.   |
|                     |          | SM               | Silty sand, sandy silt-fine, poorly graded, low permeability, on slopes <5°. Moderate to high ice content, locally with thin lenses of segregated ice. Discontinuous organic cover up to 10 ft.  | Poor source of borrow material, can be improved by artificial drying. Minor ground ice slumping, gullying, and thermokarst subsidence can be caused by disturbance.   |
| III                 |          | CL               | Clayey to silty till - fine, low to medium plasticity, low permeability, on slopes <5°. Moderate ice content with thin seams and locally thicker lenses of segregated ice. Discontinuous organic cover up to 10 ft.  | Suitable as borrow material (fill) only where ice content is low. Low to moderate susceptibility to thermokarst subsidence, gullying and ground ice slumping due to disturbance.  |
|                     |          | SM, ML           | Silty sand, sandy silt - fine, poorly graded, low permeability, on slopes >5°. Moderate to high ice content, locally with thin lenses of segregated ice. Locally overlain by patches of organic cover.   | Poor source of borrow material, can be improved by artificial drying. Moderate susceptibility to thermokarst subsidence; gullying and ground ice slumping due to disturbance.   |
| IV                  |          | Pt               | Peat and fen complex - porous, high compressibility, extremely high moisture content. Peat - moderate to high ice content, up to 50% of segregated ice, locally unfrozen from 1 to 3 ft. Fen - commonly unfrozen to depth of 6 ft., locally some segregated ice at greater depths. | Unfavorable for construction purposes. High susceptibility to terrain subsidence due to disturbance.  |
|                     |          | CL               | Clayey to silty till - fine, low to medium plasticity, low permeability, on slopes >5°. Moderate ice content with thin seams and locally thicker lenses of segregated ice. Irregular patches of organic cover.   | Suitable as borrow material (fill) only where ice content is low. Moderate to high susceptibility to thermokarst subsidence, gullying and ground ice slumping due to disturbance; locally superficial mudflows and flow slides.                         |
| V                   |          | OH, CH           | Organic and inorganic clay, clayey silt - very fine, low permeability, high plasticity, on slopes <5°. Moderate to high ice content. Up to 10% of segregated ice as thin seams in upper layers, tabular ice bodies at greater depths. Discontinuous organic cover up to 10 ft.     | Very poor source of fill material. High susceptibility to major thermokarst slumping and rapid gullying due to disturbance.   |
| VI                  |          | OH, CH           | Organic and inorganic clay, clayey silt - very fine, low permeability, high plasticity, on slopes >5°. Moderate to high ice content. Up to 10% of segregated ice as thin seams in upper layers, tabular ice bodies at greater depths. Irregular patches of organic cover.          | Very poor source of fill material. High susceptibility to major thermokarst slumping and rapid gullying due to disturbance; large detachment slides and retrogressive flow slides common.   |

Note: Soil symbols according to Unified Soil Classification System.



TERRAIN DISTURBANCE SUSCEPTIBILITY MAPS

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