A Catalogue of Selected Waterbodies Adjacent to the Northwest Territories Highway Systems, 1979-80
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A CATALOGUE OF SELECTED WATERBODIES ADJACENT TO THE NORTHWEST TERRITORIES HIGHWAY SYSTEMS, 1979-80 by M.M. Roberge and D.V. Gillman

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## ABSTRACT

ROBERGE, M.M., and D.V. GILLMAN. 1986. A catalogue of selected waterbodies adjacent to the Northwest Territories highway systems, 1979-80. Can. Data Rep. Fish. Aquat. Sci. 613: $v+40 \mathrm{p}$.

A survey of the Northwest Territories highway system was conducted during July to September, 1979 and 1980 to determine the location and types of water bodies in proximity to the highways. A total of 1686 kilometers were surveyed and 564 lakes, ponds, rivers or streams recorded. Preliminary assessments were made on the potential of enclosed water bodies for future fisheries development. Physical, chemical and biological investigations were conducted on a limited basis for a small percentage of the observed systems.

Key words: fishery development potential; fishery surveys; lake morphology; oxygen/temperature profiles.

RESUME
ROBERGE, M.M., and D.V. GILLMAN. 1986. A catalogue of selected waterbodies adjacent to the Northwest Territories highway systems, 1979-80. Can. Data Rep. Fish. Aquat. Sci. 613: v + 40 p.

Une ētude du réseau routier des Territoires du Nord-Ouest a été effectuée de juillet à septembre, en 1979 et en 1980, afin dêterminer à quel endroit il y avait des plans d'eau à proximité des routes et quel en était le type. Au total, 1686 kilomètres de route ont été parcourus et 5641 lacs , ētangs, rivières et ruisseaux ont étē recensēs. Des ēvaluations prēliminaires ont ēté faites en vue d'établir le potentiel de développement futur des pêches dans des systēmes fermés de plans d'eau intérieurs. Des études physiques, chimiques et biologiques ont étē effectuēes à petite échelle sur un faible pourcentage des systèmes observēs.

Mots-clēs: potentiel de dēveloppement des pêches; évaluations des pêcheries; morphologie des lacs; profils de tempērature/oxygēne.

## INTRODUCTION

Road access sport fisheries in the vicinities of the major communities throughout the Northwest Territories (NWT) are limited since road development is not extensive (Fig. 1). The limited number of angling opportunities and an ever increasing number of sport fishermen may lead to local over-fishing and a decline in fishing quality which is compounded by the fact of the non-resilient nature of northern game fish species (Falk 1981). Continued construction and upgrading of the highway system in the NWT will provide access to numerous lakes and streams which had previously received limited or no fishing pressure.

In 1979, a two-year study was initiated to investigate the possibility of creating new fishing opportunities away from community areas by dispersement of present fishing effort over a wider area and/or the creation of new angling opportunities. This involved the identifying and cataloguing of present or potential sport fishing opportunities in proximity to the NWT highway system. Limited baseline limnological and biological data was collected. These data as well as an assessment of the water bodies potential as a new angling opportunity is presented in this report in tabular and graphic form. Information collected during this study on 41 lakes along the Ingraham Trail is presented in Roberge and Gillman (1984).

## MATERIALS AND METHODS

## STUDY AREA

The survey encompassed all the highways of the Northwest Territories from the Alberta and Yukon borders to the limit of maintained roadway (Fig. 1). For convenience the highway system was broken into 10 distinct sections which were individually surveyed and are described in detail in this section under the heading 'Survey Divisions'.

## SURVEY TECHNIQUES

The water bodies within each section were located using a vehicle and mileages were assigned separately from a designated starting point, usually a junction or major population center. As individual lakes, ponds, streams, rivers and borrow pits were observed the mileage and direction from the road were recorded. An approximate surface area was determined either by pacing or visual estimate and depths determined by sounding and/or observation. Observations were also made on the type and density of aquatic vegetation, bank cover and forest cover in the immediate area. Following these preliminary observations additional physical, chemical and biological sampling was completed if the location was considered worthy of further examination. The survey concentrated on enclosed systems, namely small lakes, ponds and borrow pits as larger lakes, rivers and streams would require intensive and prolonged surveys to accurately assess their potential. Therefore
these larger lakes, rivers and streams were recorded only as to location. The remaining water bodies were separated into three fishery development potential classifications as follows:
I. No development potential - water surface area estimated to be less than 0.02 ha; dry or depth less than 2 m ; poorly defined or shallow bank construction; presence of fish non-existent.
II. Limited development potential - water surface area estimated to be greater than 0.02 ha; water depth $2-3 \mathrm{~m}$ or capacity for greater depth; well-defined banks and basin; resident benthic and zooplankton populations present as well as the possibility of fish populations.
III. Development potential - water surface area estimated to be greater than 0.02 ha; water depth greater than 3 m or capacity for greater depth; resident benthic and zooplankton populations present while fish populations may or may not be present; requires further investigation to determine full potential as to suitability as a new fishing opportunity.

## LIMNOLOGICAL INVESTIGATION

Lakes, ponds and borrow pits that required more intensive surveys were mapped as to shoreline while the presence or absence of islands, inlets and outlets, surrounding land features and type of forest cover were noted. Depth soundings were conducted using a lead line marked in meters for spot soundings and in deeper lakes, a Lowrance Model 051 depth sounder was utilized to determine bottom contour formation. Depth soundings were plotted for each lake and bathymetric contours were drawn at 1-2 m intervals. Surface temperatures were taken using a pocket thermometer and a wahl direct reading thermister. Single readings of dissolved oxygen content were determined by use of a Hach kit (Model AL-36B). Profiles of dissolved oxygen content and temperature at 1 m intervals were obtained using a Yellow Springs Model D400 oxygen-temperature meter. A Beckman pH meter was used to obtain pH readings while water transparency was determined using a Secchi disc ( 20 cm ).

## BIOLOGICAL INVESTIGATION

At least one experimental gillnet set was made at each lake with a maximum depth $>1.0 \mathrm{~m}$. Experimental gillnets were 150 m in length and composed of five equal length panels of 38 mm , $64 \mathrm{~mm}, 89 \mathrm{~mm}, 108 \mathrm{~mm}$ and 139 mm mesh size (stretched measure). Catch was recorded by mesh size and by species. A beach seine ( 10 mm mesh) was used to catch small fish which would otherwise escape the experimental gillnets. In some lakes minnow traps and dipnets were used to capture these fish in the instances where the shoreline or depth precluded seining. In streams or rivers known to have resident fish populations, experimental angling was conducted and catch-effort data collected.

Fish obtained from the above collection methods were sampled for fork length ( $\pm 1 \mathrm{~mm}$ ), round weight ( $\pm 50 \mathrm{~g}$ ), sex and maturity, and age (scales). Sex and relative stage of maturity were determined by examination of the gonads. Relative stages of maturity were coded according to the stages described in Roberge and Read (1986).

Scales were taken from lake whitefish and northern pike as described by Hatfield et al. (1972). Results of the age determinations are not complete and therefore not presented in this report.

Benthic samples were collected using an Eckman dredge ( 15 cm square) and organisms were identified in the field to various taxonomic groups. Plankton samples collected with a Wisconsin plankton net and preserved in 10\% formalin are pending analysis.

Scientific names for fish species follow Scott and Crossman (1973) as: lake whitefish, Coregonus clupeaformis (Mitchill); northern pike, Esox Tucius (Linnaeus); and lake cisco, Coregonus artedii Lesueur.

## SURVEY DIVISIONS

Section 1. Yellowknife Area
During the summer of 1979 and 1980, a number of lakes and ponds were surveyed within the yellowknife area. For convenience the area surveyed was divided into three subdivisions; within an 8 km radius of Yellowknife City (excluding the Cestaurum Road and the Ingraham Trail); the Cestaurum Road immediately north of the city; and the Ingraham Trail. Four lakes were surveyed within the 8 km radius of Yellowknife City area (Fig. 2) and four along the 9.8 km length of the Cestaurum Road (Fig. 3). Forty-one lakes and ponds along the 64 km Ingraham Trail were surveyed and reported in Roberge and Gillman (1984).

Topography throughout the area is similar and typical of the Precambrian Shield with low rocky hills covered with light growths of black spruce interspersed with scattered areas of poplar and birch. Lakes and ponds were frequent and varied in size and depth (Table 1). Borrow pits were infrequent as surface material was used for road construction.

Section 2. Yellowknife to Fort Providence
$\underline{\text { Junction }}$
This section of the Northwest Territories highway system was surveyed during August, 1980, from the Yellowknife airport ( $62-27 \mathrm{~N}, 114-20 \mathrm{~W}$ ) ( km 0) to Fort Providence Junction located at the junction of Highway Nos. 1 and 3 ( $61-05 \mathrm{~N}$, 117-32W), a distance of 352 km (Fig. 4). The area from Yellowknife to Edzo (km 101) is typical of the Precambrian Shield with many small shallow lakes and ponds scattered among abrupt rock outcrops. Spruce, birch and poplar of light density provide forest cover. The topography changes dramatically south of Edzo to lightly forested low rolling hills and near the

Mackenzie River to a low-lying forested plain. Forest cover increases in size and density south across the Mackenzie River while the number of lakes and streams situated near the highway declines.

Along this highway section borrow pits were not suitable for development as construction techniques favored shallow surface scraping and removal of roadside materials rather than the construction of large deep pits (Table 2). Lakes adjacent to the highway were generally shallow, of small surface area and demonstrated heavy vegetative growth. Several larger lakes occur toward the south end of the highway, however they were extremely shallow, alkaline and offered little development potential.

Section 3. Fort Providence Junction to Fort
This section of the Mackenzie Highway was surveyed during September, 1980, from Fort Providence Junction at the junction of Highway Nos. 1 and $3(61-05 \mathrm{~N}, 117-32 \mathrm{~W})(\mathrm{km} 0)$ north to Fort Simpson (61-52N, 121-20W), a distance of 295 km (Fig. 5). The highway passes through a mixture of areas ranging from extensive muskeg flats to ridges and heavily forested hills. Water levels were extremely low at the date of the survey and many small creek beds and borrow pits were dry and subsequently not recorded. Borrow pits along this section of the highway were generally shallow and of limited potential for development (Table 3). No major pits of a favorable surface area size and water content were noted. Few lakes or ponds were noted in the area; however, the highway does cross several major rivers and creeks and mileages were recorded.

## Section 4. Fort Simpson to Camsell Bend

The 78 km section of Mackenzie Highway No. 1 from Fort Simpson (61-52N, 121-20 $)$ ( km 0 ) north to Camsell Bend (62-17N, 123-23W) was Surveyed during August, 1980 (Fig. 6). This section of the road was used by local traffic. only and was not being kept in repair at the time of the survey. No further road survey was attempted to the north of the Mackenzie River as ferry service across the Mackenzie River was not available during the survey.

The area adjacent to this section of the highway was predominantly muskeg with shallow ponds, a few small lakes and numerous small creeks flowing eastward to the Mackenzie River. Borrow pits were infrequent as roadside materials appeared to have been used for bed construction. However, several large gravel pits of good depth and surface area size were noted and although not completely filled with water at the time of the survey could have future development potential (Table 4).

## Section 5. Liard Highway

The Liard Highway was surveyed during August, 1980 from the junction with Highway No. 1 (61-26N, 121-15W) (km 0) westward to the Blackstone River (61-06N, 122-55W), a distance
of 101 km (Fig. 7). Further road survey was not attempted past the Blackstone River as the river bridge was incomplete at the time of the survey.

The survey was restricted to borrow pits as few lakes exist in the area and streams and rivers transecting the highway have been the basis of an impact study in conjunction with the construction of the highway. Detailed information on these streams including topographic descriptions, physical and chemical data, and presence and composition of benthic and fish populations is available in Mckinnon and Hnytka (1979). However only the locations of the major streams and rivers have been included in this report (Table 5).

Some of the borrow pits along the Liard Highway appear to have a limited potential for development as construction techniques favor deep, steep-sided pits, while bank and base materials appear favorable for water retention (Table 5). Estimated sizes ranged from $25-50 \mathrm{~m}$ in width, $100-150 \mathrm{~m}$ in length and 2-15 m in depth. The pits, with the exception of the section east of the Poplar River, are of recent excavation (1976 to 1980) and are not completely filled with water. Those filled or partially filled exhibited clear, cold, well-oxygenated water and some vegetative and insect life according to the duration from pit construction. Pit banks were generally clay-gravel mixtures with shale bottoms (observed in recent excavations). Bank cover was a mixture of spruce, birch and poplar trees and ranged from medium to heavy in density in some locations. All pits were located within walking distance of the highway.

Section 6. Enterprise to Fort Providence
This section of the highway, surveyed during August, 1980, begins at Enterprise ( $60-33 \mathrm{~N}$, 116-08W) (km 0) at the junction of Highway Nos. 1 and 2 and ends 104 km to the west at the Fort Providence Junction ( $61-05 \mathrm{~N}, 117-32 \mathrm{~W}$ ) at the junction of Highway Nos. 1 and 3 (Fig. 8).

Topography of this section was initially a low forested plain that gradually changed to gently sloping ridges and small hills in the western section. Forest cover was of medium density and consisted of black spruce, poplar and birch. Gravel and sandy clays provided ideal roadbed material and therefore borrow pits were generally shallow in depth with gently sloping sides and of small size averging approximately $20-30 \mathrm{~m}$ in width and 100 m in length. Lakes were infrequent and shallow. No lakes or pits with development potential were noted along this section of the highway. Rivers and streams were recorded as to location only (Table 6).

## Section 7. Hay River Junction to NWT-Alberta

During August, 1980, a 116 km section of highway was surveyed from the junction of Highway Nos. 2 and 5 ( $60-47 \mathrm{~N}, 115-50 \mathrm{~W}$ ) (km.0) south to the Northwest Territories-Alberta boundary ( $60-00 N, 116-59 W$ ) (Fig. 9). The highway follows
the west side of the Hay River valley along its entire length to the border. Topography is similar throughout and typical of the forested Mackenzie lowlands. Black spruce, poplar and birch occur in medium to heavy densities with a thick undercover in most areas. Small lakes, streams and borrow pits are abundant. Borrow pits were generally small (estimated surface area $\leq 0.2$ ha and $2-3 \mathrm{~m}$ in depth) and with little water content. Few water bodies demonstrated sufficient size or depth to be classified as having a potential for future development. However during years of greater rainfall a couple of the pits in the Enterprise area may have limited potential for fisheries development (Table 7).

Section 8. Hay River Junction to Fort Smith
Northwest Territories Highway No. 5 runs from the Hay River Junction, located at the junction of Highway Nos. 2 and $5(60-47 \mathrm{~N}, 115-$ 50W) (km 0), east for a distance of 261 km to Fort Smith ( $60-01 \mathrm{~N}, 111-55 \mathrm{~W}$ ) (Fig. 10). Water bodies adjacent to the highway were surveyed during August, 1980. The highway runs through a heavily wooded low-lying plain immediately south of Great Slave Lake. Black spruce, poplar and birch are the dominant cover species. Past the Little Buffalo River the forest cover is occasionally broken by open marshes and grassy meadows.

Construction techniques precluded any potential fisheries development of the borrow pits along the highway (Table 8). Pits and the few lakes noted in the area were extremely shallow and often dry. Major rivers and streams along the highway were noted and recorded only as to location and mileage.

Section 9. Pine point Junction to Fort
Northwest Territories Highway No. 6, surveyed during August, 1980, runs from the junction at Highway No. 5 ( $60-44 \mathrm{~N}, 114-50 \mathrm{~W}$ ) (km 0) to Fort Resolution (61-10N, 113-45W), a distance of 91 km (Fig. 11). The highway follows the south shore of Great Slave Lake through a lowlying forested area of black spruce, poplar and birch, and open marshy areas adjacent to the lake shore as it nears Fort Resolution. Water bodies were infrequent and borrow pits and ponds were shallow and exhibited no potential for development (Table 9). Only one river, the Little Buffalo, was recorded on this section of the highway. Streams encountered were noted and recorded only as to location and mileage.

Section 10. Dempster Highway
The Dempster Highway was surveyed during August, 1979, from Inuvik (68-22N, 133-52W) (km 0 ) to the NWT-Yukon Boundary ( $64-05 \mathrm{~N}, 141-00 \mathrm{~W}$ ) a distance of 258 km (Fig. 18). The highway remains on the east side of the Mackenzie River to Arctic Red River at which point ferry service is used to cross the Mackenzie River from Inuvik and the road continues uninterrupted to the peel River ferry crossing at Fort McPherson. This area is a low-lying plain of muskeg flats and small rocky ridges, both covered with a thin
growth of stunted black spruce. Once past the Peel River the highway enters the Richardson Mountains, an area of barren alpine meadows and rock escarpments with only occasional small growths of black spruce. There are few lakes and borrow pits along the length of the Dempster Highway none of which demonstrated any potential for development (Table 10). There are several major streams and rivers, particularly on the east side of the Mackenzie River, which had good flow rates and clear waters. Names and locations of these and other water bodies along the Dempster were recorded and noted.

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Table 1. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated in the Yellowknife area, NWT, 1979-80.

| Location <br> No. | Water Body |
| :--- | :--- | :--- |

Table 2. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along Northwest Territorial Highway No. 3 from Yellowknife to Fort Providence Junction, 1980.

| Location No. | Water Body | $\begin{gathered} \text { Distance } \\ (\mathrm{km}) \end{gathered}$ | Direction from road | Surface Area (ha) | Max. Depth (m) | Mean Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| 1 | Pond | 6.4 | R | 0.4 | 1 | - | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Pond | 6.8 | R | 0.4 | 1 | - | I |
| 3 | Borrow Pit | 8.3 | R | 0.4 | 1 | - | I |
| 4 | Borrow Pit | 8.4 | L | 0.4 | 1 | - | I |
| 5 | Pond | 8.6 | R | 0.4 | 1 | - | I |
| 6 | Pond | 9.1 | L | 8.1 | 0 | - | I |
| 7 | Borrow Pit | 9.1 | L | 0.4 | 1 | - | 1 |
| 8 | Pond | 10.2 | R | 0.4 | 1 | - | I |
| 9 | Borrow Pit | 10.4 | L | 0.4 | 1 | - | 1 |
| 10 | Borrow Pit | 11.9 | R | 0.4 | 1 | - | I |
| 11 | Pond | 12.1 | R | 0.4 | 1 | - | 1 |
| 12 | Borrow Pit | 14.3 | R | 0.4 | 1 | - | I |
| 13 | Borrow Pit | 14.5 | R | 0.4 | 1 | - | I |
| 14 | Borrow Pit | 14.9 | R | 0.4 | 1 | - | I |
| 15 | Pond | 15.5 | R | 0.4 | 1 | - | 1 |
| 16 | Pond | 16.4 | R | 1.2 | 1 | - | I |
| 17 | Pond | 16.6 | R | 0.4 | 1 | - | 1 |
| 18 | Pond | 18.7 | R | 0.4 | 1 | - | I |
| 19 | Pond | 19.0 | R | 0.4 | 1 | - | I |
| 20 | Pond | 19.1 | R | 0.4 | 1 | - | I |
| 21 | Pond | 20.6 | L | 0.4 | 1 | - | I |
| 22 | Pond | 21.4 | L | 0.4 | 1 | - | I |
| 23 | Unnamed Lake | 22.4 | L | 2.0 | 0 | - | I |
| 24 | Pond | 23.2 | R | 0.4 | 1 | - | I |
| 25 | Borrow Pit | 23.5 | R | 0.4 | 1 | - | I |
| 26 | Pond | 24.0 | L | 1.2 | 1 | - | I |
| 27 | Borrow Pit | 24.8 | L | 0.4 | 1 | - | I |
| 28 | Pond | 24.9 | R | 0.4 | 1 | - | I |
| 29 | Borrow Pit | 26.6 | R | 0.4 | 1 | - | I |
| 30 | Pond | 26.6 | L | 0.4 | 1 | - | I |
| 31 | Borrow Pit | 29.3 | R | 0.4 | 1 | - | I |
| 32 | Borrow Pit | 31.5 | R | 0.4 | 1 | - | I |
| 33 | Pond | 32.6 | L | 0.4 | 1 | - | 1 |
| 34 | Pond | 32.9 | $L$ | 0.4 | 1 | - | I |
| 35 | Pond | 33.1 | R | 0.4 | 1 | - | I |
| 36 | Pond | 34.0 | L | 0.4 | 1 | - | I |
| 37 | Boundary Crk. | 34.1 | L |  | - | - | - |
| 38 | Borrow Pit | 35.7 | L | 0.4 | 1 | - | I |
| 39 | Pond | 36.0 | $L$ | 0.4 | 1 | - | 1 |
| 40 | Pond | 36.5 | $L$ | 0.4 | 1 | - | 1 |
| 41 | Pond | 36.3 | R | 0.4 | 1 | - | I |
| 42 | Pond | 38.3 | L | 0.4 | 1 | - | I |
| 43 | Pond | 40.0 | L | <1.2 | 1 | - | I |
| 44 | Pond | 40.5 | R | <1.2 | 1 | - | I |
| 45 | Pond | 41.6 | R | 2.0 | 1 | - | I |
| 46 | Pond | 43.2 | L | 0.4 | 1 | - | I |
| 47 | Pond | 44.0 | R | 2.0 | 1 | - | I |
| 48 | Unnamed Stream | 47.0 | - | - | - | - |  |
| 49 | Pond | 49.4 | L | 0.4 | 1 | - | I |
| 50 | Borrow Pit | 49.6 | R | 0.4 | 1 | - | I |
| 51 | Pond | 50.2 | L | 0.4 | 1 | - | I |
| 52 | Borrow Pit | 51.2 | L | 0.4 | 1 | - | I |
| 53 | Pond | 53.3 | L | 0.4 | 1 | - | I |
| 54 | Pond | 53.4 | R | 0.4 | 1 | - | I |
| 55 | Pond | 53.5 | L | 0.4 | 1 | - | I |
| 56 | Pond | 55.7 | L | 0.4 | 1 | - | I |
| 57 | Fishing Creek | 57.1 |  |  | - | - | - |

Table 2 Continued.

| Location No. | Water Body | $\begin{gathered} \text { Distance } \\ (\mathrm{km}) \end{gathered}$ | Direction from road | surface Area (ha) | Max. Depth (m) | Mean <br> Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58 | Pond | 58.1 | R | 0.4 | 1 | - | I |
| 59 | Pond | 59.8 | $R$ | 0.4 | 1 | - | I |
| 60 | Pond | 60.8 | R | 0.4 | 1 | - | I |
| 61 | Pond | 61.8 | R | 0.4 | 1 | - | 1 |
| 62 | Pond | 62.2 | L | 0.4 | 1 | - | I |
| 63 | Pond | 64.2 | L | 0.4 | 1 | - | 1 |
| 64 | Pond | 65.0 | L | 0.4 | 1 | - | I |
| 55 | Pond | 65.4 | R | 0.4 | 1 | - | 1 |
| 66 | Pond | 66.1 | L | 0.4 | 1 | - | I |
| 67 | Pond | 66.6 | R | 0.4 | 1 | - | I |
| 68 | Pond | 67.4 | R | 0.4 | 1 | - | 1 |
| 69 | Pond | 67.8 | R | <1.2 | 1 | - | 1 |
| 70 | Pond | 69.1 | L | 0.4 | 1 | - | I |
| 71 | Pond | 73.1 | R | <1.2 | 1 | - | I |
| 72 | Pond | 74.9 | R | 0.4 | 1 | - | I |
| 73 | Pond | 75.0 | L | <1.2 | 1 | - | 1 |
| 74 | Pond | 75.2 | L | <1.2 | 1 | - | I |
| 75 | Pond | 77.4 | L | <1.2 | 1 | - | I |
| 76 | Pond | 80.5 | L | 0.4 | 1 | - | I |
| 77 | Jackfish Crk. | 82.6 | - | - | - | - | - |
| 78 | Pond | 83.0 | $R$ | 0.4 | 1 | - | I |
| 79 | Pond | 83.7 | R | 0.4 | 1 | - | I |
| 80 | Stagg River | 84.3 | - | - | - | - | - |
| 81 | Pond | 85.3 | R | 0.4 | 1 | - | I |
| 82 | Pond | 88.6 | L | 0.4 | 1 | - | I |
| 83 | Pond | 89.9 | L | <1.2 | 1 | - | I |
| 84 | Pond | 92.5 | R | 0.4 | 1 | - | I |
| 85 | Pond | 92.7 | L | <1.2 | 1 | - | 1 |
| 86 | Pond | 93.1 | L | 0.4 | 1 | - | I |
| 87 | Frank Channel | 96.0 | - | - | - | - | - |
| 88 | Pond | 99.0 | R | 0.4 | 1 | - | I |
| 89 | Pond | 101.6 | R | <1.2 | 1 | - | I |
| 90 | Borrow Pit | 101.9 | $R$ | <0.8 | 2 | - | I |
| 91 | Mosquito Crk. | 109.6 | - | - | - | - | - |
| 92 | Borrow Pit | 114.6 | L | 0.4 | 1 | - | 1 |
| 93 | Pond | 121.7 | R | 0.8 | 1 | - | I |
| 94 | Pond | 123.8 | L | 0.4 | 1 |  | I |
| 95 | Pond | 125.6 | L | <2.0 | 1 |  | I |
| 96 | Pond | 126.7 | L | 0.8 | 1 | - | 1 |
| 97 | Pond | 131.0 | R | 203.0 | - | - | 1 |
| 98 | Borrow Pit | 184.5 | L | 0.6 | 1 | - | 1 |
| 99 | Pond | 185.6 | $R$ | - | 0 | - | 1 |
| 100 | Pond | 189.9 | L | - | 0 | - | 1 |
| 101 | Unnamed Lake | 192.3 | L | 203.0 | 0 | - | 1 |
| 102 | Pond | 195.7 | R | 121.5 | 0 | - | 1 |
| 103 | Pond | 210.4 | R |  | 0 | - | I |
| 104 | Pond | 211.5 | R | - | 0 | - | I |
| 105 | Pond | 214.9 | R | 0.2 | 1 | - | I |
| 106 | Birch Lake | 216.8 | R | - | 1 | - | 1 |
| 107 | Pond | 220.3 | L | 12.2 | 0 | - | I |
| 108 | Pond | 225.4 | R | 0.4 | 0.5 | - | I |
| 109 | Borrow Pit | 227.2 | R | 0.4 | 0.5 | - | 1 |
| 110 | Borrow Pit | 227.7 | R | 0.4 | 0.5 | - | I |
| 111 | Borrow Pit | 229.8 | L | 0.4 | 0.5 | - | 1 |
| 112 | Borrow Pit | 231.4 | R | 0.4 | 0.5 | - | I |
| 113 | Borrow Pit | 232.8 | R | 0.4 | 0.5 | - | 1 |
| 114 | Borrow Pit | 235.2 | L | 0.4 | 0.5 | - | 1 |
| 115 | Borrow Pit | 235.6 | L | 0.4 | 0.5 | - | I |
| 116 | Borrow Pit | 236.6 | R | 0.4 | 0.5 | - | 1 |

Table 2 Continued.

| Location No. | Water Body | $\begin{gathered} \text { Distance } \\ (\mathrm{km}) \end{gathered}$ | Direction from road | Surface Area (ha) | Max. Depth (m) | Mean Temp. ( ${ }^{\circ} \mathrm{C}$ ) | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 117 | Borrow Pit | 237.4 | R | 0.4 | 0.5 | - | I |
| 118 | Borrow Pit | 238.1 | R | 0.4 | 1 | - | 1 |
| 119 | Borrow Pit | 240.1 | L | 0.4 | 1 | - | 1 |
| 120 | Borrow Pit | 240.6 | L | 0.4 | 1 | - | 1 |
| 121 | Borrow Pit | 245.9 | R | 0.4 | 1 | - | 1 |
| 122 | Borrow Pit | 247.2 | L | 0.4 | 1 | - | I |
| 123 | Borrow Pit | 248.6 | L | 0.4 | 1 | - | 1 |
| 124 | Borrow Pit | 250.6 | R | 0.4 | 1 | - | 1 |
| 125 | Borrow Pit | 255.0 | L | 0.4 | 1 | - | I |
| 126 | Caen Lake | 259.4 | - | - | - | - | 1 |
| 127 | Borrow Pit | 264.3 | R | 0.4 | 1 | - | I |
| 128 | Borrow Pit | 273.7 | R | 0.4 | 1 | - | 1 |
| 129 | Borrow Pit | 275.0 | R | 0.4 | 1 | - | 1 |
| 130 | Borrow Pit | 276.0 | R | 0.4 | 1 | - | 1 |
| 131 | Borrow Pit | 280.5 | L | 0.4 | 1 | - | 1 |
| 132 | Bluefish Crk. | 297.4 | - | - | - | - | - |
| 133 | Borrow Pit | 322.7 | L | - | - | - | I |
| 134 | Borrow Pit | 322.9 | L | - | - | - | 1 |
| 135 | Mackenzie R. | 323.8 | - | - | - | - | - |
| 136 | Borrow Pit | 324.7 | L | - | - | - | I |

Table 3. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along Northwest Territorial Highway No. 1 from Fort Providence Junction to Fort Simpson, 1980.

| Location No. | Water Body | Distance (km) | Direction from road | Surface Area (ha) | Max. Depth (m) | Mean Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Pond | 14.2 | L | 4.1 | 0 | - | I |
| 2 | Pond | 17.4 | R | - | 0 | - | 1 |
| 3 | Pond | 20.4 | L | - | 0 | - | , |
| 4 | Pond | 21.6 | R | - | - | - | I |
| 5 | Borrow Pit | 25.5 | R | - | - | - | I |
| 6 | Borrow Pit | 26.1 | L | - | - | - | I |
| 7 | Borrow Pit | 27.0 | R | - | - | - | I |
| 8 | Borrow Pit | 31.7 | L | - | 0 | - |  |
| 9 | Borrow Pit | 34.0 | R | - | - | - | I |
| 10 | Borrow Pit | 37.0 | R | - | - | - | I |
| 11 | Borrow Pit | 41.0 | L | - | - | - | I |
| 12 | Borrow Pit | 42.0 | L | - | - | - |  |
| 13 | Borrow Pit | 45.9 | L | - | - | - | 1 |
| 14 | Borrow Pit | 49.1 | L | - | 0 | - | 1 |
| 15 | Borrow Pit | 50.6 | R | - | - | - | I |
| 16 | Borrow Pit | 52.4 | L | - | - | - | I |
| 17 | Unnamed Stream | 54.5 | - | - | - | - | - |
| 18 | Unnamed Stream | 68.5 | - | - | - | - | - |
| 19 | Borrow Pit | 69.3 | R | - | - | - | I |
| 20 | Borrow Pit | 76.3 | R | - | 0 | - | 1 |
| 21 | Borrow Pit | 77.6 | R | - | - | - | I |
| 22 | Unnamed Stream | 80.0 | - | - | - | - | - |
| 23 | Bouvier River | 97.2 | - | - | - | - | - |
| 24 | Wallace Crk. | 109.7 | - | - | - | - | - |
| 25a | Redknife River | 115.7 | - | - | <1 | 9.6 | - |
| 25b | Borrow Pit | 121.2 | R |  | - | - | I |
| 26 | Morrisey River | 134.1 | - | - | - | - | - |
| 27 | Borrow Pit | 136.4 | 1 | - | 0 | - | 1 |
| 28 | Borrow Pit | 137.3 | L | - | 0 | - | II |
| 29 | Borrow Pit | 138.7 | R | - | 0 | - | I |
| 30 | Borrow Pit | 139.3 | L | - | - | - | 1 |
| 31 | Borrow Pit | 140.0 | L | - | - | - | 1 |
| 32 | Borrow Pit | 141.3 | L | - | 0 | - | 1 |
| 33 | Borrow Pit | 142.4 | L | - |  | - | I |
| 34 | Borrow Pit | 144.6 | L | 0.5 | 4 | - | II |
| 35 | Trout River | 145.8 | - | - | - | - | - |
| 36 | Borrow Pit | 154.2 | L | - | - | - | 1 |
| 37 | Borrow Pit | 155.8 | L | - | - | - | II |
| 38 | Borrow Pit | 157.7 | L | - | - | - | I |
| 39 | Borrow Pit | 162.3 | R | - | - | - | 1 |
| 40 | Borrow Pit | 162.8 | L | - | 0 | - | 1 |
| 41 | Borrow Pit | 164.2 | L | - | 0 | - | 1 |
| 42 | Borrow Pit | 165.3 | R | - | 0 | - | 1 |
| 43 | Borrow Pit | 166.1 | L | 0.4 | 2 | - | II |
| 44 | Borrow Pit | 166.8 | L | - | - | - | I |
| 45 | Borrow Pit | 176.9 | L | - | - | - | I |
| 46 | Borrow Pit | 181.4 | L | - | - | - | I |
| 47 | Borrow Pit | 182.0 | $L$ | - | 0 | - | I |
| 48 | Borrow Pit | 184.0 | L | - | - | - | I |
| 49 | Borrow Pit | 186.1 | L | - | - | - | 1 |
| 50 | Borrow Pit | 194.1 | L | - | - | - | I |
| 51 | Borrow Pit | 205.9 | L | - | - | - | 1 |
| 52 | Borrow Pit | 216.4 | L | - | - | - | I |
| 53 | Borrow Pit | 219.9 | L | - | - | - | 1 |
| 54 | Borrow Pit | 221.6 | L | - | - | - | I |
| 55 | Borrow Pit | 223.4 | R | 0.2 | - | - | I |
| 56 | Borrow Pit | 224.8 | L | - |  | - | I |
| 57 | Borrow Pit | 227.5 | 1 | 0.2 | 3 | - | I |
| 58 | Jean Marie R. | 235.5 | - | - | 1 | - | - |
| 59 | Borrow Pit | 244.8 | L | - | 1 | 8.6 | II |
| 60 | Borrow Pit | 248.5 | L | - | - | - | I |
| 61 | Liard River | 283.0 | - | - | - | - | - |

Table 4. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along Northwest Territorial Highway No. l from fort Simpson north to Camsell Bend, 1980.

| Location No. | Water Body | Distance (km) | Direction from road | Surface Area (ha) | Max. Depth (m) | Mean <br> Temp. <br> $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Unnamed Stream | 15.0 | - | - | - | - | I |
| 2 | Martin River | 18.1 | - | - | 1 | 8.7 | - |
| 3 | Unnamed Stream | 21.4 | - | - | - | - | - |
| 4 | Pond | 24.8 | $L$ | - | - | - | 1 |
| 5 | Pond | 32.6 | L | - | - | - | 1 |
| 6 | Unnamed Stream | 33.2 | - | - | - | - | - |
| 7 | Unnamed Stream | 39.5 | - | - | - | - | - |
| 8 | Unnamed Stream | 41.8 | - | - | - | - | - |
| 9 | Unnamed Stream | 48.6 | - | - | - | - | - |
| 10 | Borrow Pit | 49.2 | R | - | - | - | 1 |
| 11 | Borrow Pit | 49.4 | L | - | - | - | I |
| 12 | Unnamed Stream | 50.2 | - | - | - | - | - |
| 13 | Unnamed Stream | 51.5 | - | - | - | - | - |
| 14 | Unnamed Stream | 52.8 | - | - | - | - | - |
| 15 | Unnamed Stream | 53.3 | - | - | - | - | - |
| 16 | Unnamed Stream | 54.6 | - | - | - | - | - |
| 17 | Unnamed Stream | 56.5 | - | - | - | - | - |
| 18 | Unnamed Stream | 58.1 | - | - | - | - | - |
| 19 | Borrow Pit | 58.2 | R | - | - | - | I |
| 20 | Borrow Pit | 58.2 | R | - | - | - | I |
| 21 | Borrow Pit | 58.2 | $R$ | - | - | - | I |
| 22 | Unnamed Stream | 58.6 | - | - | - | - | - |
| 23 | Shale Creek | 59.4 | - | - | 1 | 8 | - |
| 24 | Borrow Pit | 61.7 | R | - | - | - | - |
| 25 | Unnamed Stream | 61.9 | - | - | - | - | - |
| 26 | Unnamed Stream | 63.4 | - | - | - | - | - |
| 27 | Unnamed Stream | 65.6 | - | - | - | - | - |
| 28 | Unnamed Stream | 65.9 | - | - | - | - | - |
| 29 | Unnamed Stream | 67.9 | - | - | - | - | - |
| 30 | Unnamed Stream | 70.1 | - | - | - | - | - |
| 31 | Unnamed Stream | 74.2 | - | - | - | - | - |
| 32 | Unnamed Stream | 74.6 | - | - | - | - | - |
| 33 | Borrow Pit | 75.9 | $L$ | - | - | - | 1 |
| 34 | Unnamed Stream | 75.7 | - | - | - | - | - |
| 35 | Borrow Pit | 78.2 | - | - | - | - | - |

Table 5. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along the Liard Highway from the junction with Northwest Territorial Highway No. 1 west to the Blackstone River, 1980.

| Location No. | Water Body | $\begin{aligned} & \text { Distance } \\ & (\mathrm{km}) \end{aligned}$ | Direction from road | Surface Area (ha) | Max. Depth (m) | Mean Temp. ( ${ }^{\circ} \mathrm{C}$ ) | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Borrow Pit | 1.8 | L | - | - | - | I |
| 2 | Borrow Pit | 3.3 | R | - | - | - | 1 |
| 3 | Borrow Pit | 3.9 | $R$ | - | - | - | 1 |
| 4 | Borrow Pit | 6.1 | L | 0.3 | 0 | - | 1 |
| 5 | Borrow Pit | 6.1 | L | 0.1 | 0.3 | - | I |
| 6 | Borrow Pit | 7.2 | R | - | 0.3 | - | I |
| 7 | Borrow Pit | 8.1 | $R$ | 0.3 | 1 | - | I |
| 8 | Borrow Pit | 9.4 | L | 1.0 | 2 | - | I |
| 9 | Borrow Pit | 12.2 | R | 0.3 | 1 | - | I |
| 10 | Unnamed Stream | 12.8 | - | - | - | - | - |
| 11 | Borrow pit | 12.9 | R | 0.2 | 1 | - | I |
| 12 | Borrow Pit | 13.2 | R | 0. | - | - | I |
| 13 | Borrow Pit | 14.5 | R | 0.5 | 2 | - | [ |
| 14 | Borrow Pit | 15.4 | R | 0.2 | 1 | - | I |
| 15 | Borrow Pit | 16.7 | R | 0.4 | 2 | - | I |
| 16 | Borrow Pit | 17.1 | R | . | 0 | - | I |
| 17 | Borrow Pit | 17.8 | L | 0.7 | 2 | - | I |
| 18 | Borrow Pit | 19.3 | R | 0.1 | 1 | - | I |
| 19 | Borrow Pit | 20.4 | L | - | - | - | I |
| 20 | Unnamed Stream | 21.6 | - | - | - | - | - |
| 21 | Borrow Pit | 21.8 | R | 0.2 | 2 | - | I |
| 22 | Borrow Pit | 22.0 | R | - | 0 | - | I |
| 23 | Borrow Pit | 22.8 | $R$ | - | - | - | I |
| 24 | Borrow Pit | 25.7 | R | - | - | - | I |
| 25 | Borrow Pit | 27.2 | $R$ | 0.7 | 2 | - | I I |
| 26 | Borrow Pit | 28.4 | L | 0.1 | 2 | - | I |
| 27 | Borrow Pit | 32.1 | R | 0.2 | 2 | - | I |
| 28 | Poplar River | 34.4 | - | - | 2 | 11.2 | - |
| 29 | Borrow Pit | 36.2 | L | - | - | - | I |
| 30 | Borrow Pit | 37.3 | R | - | - | - | II |
| 31 | Borrow Pit | 38.0 | R | - | - | - | I |
| 32 | Borrow Pit | 40.0 | - | - | - | - | - |
| 33 | Borrow Pit | 41.4 | $R$ | - | - | - | I I I |
| 34 | Unnamed Stream | 42.4 | - | - | - | - | - |
| 35 | Borrow Pit | 45.0 | R | - | - | - | I |
| 36 | Borrow pit | 50.3 | R | - | - | - | II |
| 37 | Birch River | 52.0 | - | - | 1 | - | - |
| 38 | Borrow Pit | 53.2 | L | - | - | - | I |
| 39 | Borrow Pit | 53.9 | L | - | - | - | I |
| 40 | Borrow Pit | 61.2 | R | - | - | - | I |
| 41 | Borrow Pit | 63.8 | $R$ | - | - | - | I1 |
| 42 | Borrow Pit | 65.9 | L | - | - | - | II |
| 43 | Borrow Pit | 73.1 | $R$ | - | 2 | - | I |
| 44 | Borrow Pit | 74.4 | R | - | - | - | I |
| 45 | Borrow Pit | 83.2 | L | - | 0.3 | - | I |
| 46 | Borrow Pit | 83.9 | L | - |  | - | I |
| 47 | Borrow Pit | 91.2 | $R$ | 0.3 | - | - | II |
| 48 | Borrow Pit | 94.0 | L | - | - | - | II |
| 49 | Borrow Pit | 96.6 | R | 4.0 | 1 | - | I I |
| 50 | Blackstone R. | 101.0 | - | - | - | - | - |

Table 6. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along Northwest Territorial Highway No. 1 from Enterprise to the Fort Providence Junction, 1980.

| Location No. | Water Body | Distance (km) | Direction from road | Surface Area (ha) | Max. Depth (m) | Mean Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Borrow Pit | 13.7 | R | - | - | - | I |
| 2 | Borrow Pit | 21.2 | R | - | - | - | I |
| 3 | Pond | 24.2 | L | - | - | - | I |
| 4 | Borrow Pit | 30.1 | R | - | - | - | I |
| 5 | McGillvray Crk. | 35.0 | - | - | - | - | - |
| 6 | Pond | 43.3 | L | 0.8 | - | - | I |
| 7 | Pond | 49.4 | R | 0.8 | - | - | I |
| 8 | Unnamed Stream | 50.2 | - | - | - | - | - |
| 9 | Borrow Pit | 65.0 | L | 0.4 | - | - | I |
| 10 | Borrow Pit | 66.8 | R | 0.8 | - | - | I |
| 11 | Pond | 76.4 | L | 0.8 | - | - | I |
| 12 | Borrow Pit | 82.8 | L | 0.4 | - | - | I |
| 13 | Unnamed Stream | 83.4 | R | - | - | - | - |
| 14 | Kakisa River | 85.0 | - | - | - | - | - |
| 15 | Pond | 88.2 | R | 0.8 | 0 | - | , |
| 16 | Pond | 91.2 | L | 0.4 | 0 | - | I |
| 17 | Pond | 93.4 | L | 2.0 | 0 | - | I |
| 18 | Pond | 101.3 | R | 0.4 | 0 | - | I |
| 19 | Pond | 101.8 | L | 1.0 | 0 | - | I |

Table 7. Summary of infomation on location, surface area, maximum depth, mean temperature and classification for water bodies situated along Northwest Territorial Highway No. l from the Hay River Junction south to the NWT-Alberta boundary, 1980.

| Location No. | Water Body | $\begin{gathered} \text { Distance } \\ (\mathrm{km}) \end{gathered}$ | Direction from road | Surface Area (ha) | Max. Depth (m) | Mean <br> Temp. <br> $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Borrow Pit | 0.6 | L | <0.1 | 0 | - | I |
| $2$ | Borrow Pit | 2.8 | L | 0.1 | 0 | - | I |
| 3 | Borrow Pit | 4.3 | R | 0.1 | 0 | - | I |
| 4 | Borrow Pit | 6.3 | L | 0.1 | 0 | - | I |
| 5 | Borrow Pit | 6.5 | L | 0.1 | 0 | - | I |
| 6 | Borrow Pit | 8.0 | L | 0.2 | - | - | I |
| 7 | Borrow Pit | 8.7 | L | 0.3 | - | - | I |
| 8 | Borrow Pit | 9.1 | L | 0.3 | 0 | - | I |
| 9 | Borrow Pit | 9.6 | L | 0.5 | 0 | - | 1 |
| 10 | Borrow Pit | 10.1 | L | 0.3 | 0 | - | I |
| 11 | Borrow Pit | 10.6 | R | 0.7 | 0 | - | I |
| 12 | Borrow Pit | 11.3 | L | 0.2 | 0 | - | I |
| 13 | Borrow Pit | 11.7 | R | $<0.1$ | - | - | I |
| 14 | Borrow Pit | 11.8 | L | $<0.1$ | 0 | - | I |
| 15 | Borrow Pit | 13.2 | L | 0.1 | 0 | - | I |
| 16 | Borrow Pit | 15.1 | L | 0.1 | 0 | - | I |
| 17 | Borrow Pit | 15.9 | L | 0.1 | 0 | - | I |
| 18 | Borrow Pit | 16.1 | R | 0.1 | 0 | - | I |
| 19 | Borrow Pit | 16.9 | L | $<0.1$ | 0 | - | I |
| 20 | Borrow Pit | 17.5 | L | $<0.1$ | - | - | I |
| 21 | Borrow Pit | 18.2 | L | 0.1 | - | - | 1 |
| 22 | Borrow Pit | 18.7 | R | 0.1 | 0 | - | I |
| 23 | Borrow Pit | 18.7 | R | 0.2 | 0 | - | II |
| 24 | Borrow Pit | 18.9 | R | 0.2 | 3 | - | II |
| 25 | Borrow Pit | 19.1 | L | $<0.1$ | - | - | I |
| 26 | Borrow Pit | 19.6 | L | 0.1 | - | - | I |
| 27 | Borrow Pit | 21.8 | L | - | 0 | - | I |
| 28 | Borrow Pit | 22.5 | L | 0.1 | 0 | - | I |
| 29 | Borrow Pit | 23.2 | L | 0.1 | 0 | - | I |
| 30 | Borrow Pit | 24.3 | R | 0.1 | - | - | I |
| 31 | Borrow Pit | 25.5 | $R$ | 0.1 | - | - | I |
| 32 | Borrow Pit | 25.7 | L | 0.1 | - | - | I |
| 33 | Borrow Pit | 26.1 | L | 0.1 | 0 | - | I |
| 34 | Borrow Pit | 27.7 | L | 0.1 | 0 | - | I |
| 35 | Borrow Pit | 28.7 | L | 0.1 | - | - | I |
| 36 | Borrow Pit | 28.7 | R | 0.1 | - | - | I |
| 37 | Borrow Pit | 28.7 | L | <0.1 | - | - | I |
| 38 | Borrow Pit | 28.9 | R | <0.1 | - | - | I |
| 39 | Borrow Pit | 29.8 | L | $<0.1$ | 0 | - | I |
| 40 | Borrow Pit | 30.9 | R | 0.2 | - | - | I |
| 41 | Borrow Pit | 30.9 | L | 0.2 | - | - | I |
| 42 | Borrow Pit | 31.5 | L | 0.2 | - | - | I |
| 43 | Borrow Pit | 33.5 | L | - | 0 | - | I |
| 44 | Borrow Pit | 39.3 | L | 0.2 | 0 | - | I |
| 45 | Escarpment Crk. | 38.2 |  |  | - | - | I |
| 46 | Borrow Pit | 43.9 | L | 0.2 | 0 | - | I |
| 47 | Borrow Pit | 44.5 | L | 0.2 | 0 | - | I |
| 48 | Borrow Pit | 45.0 | L | 0.1 | 0 | - | I |
| 49 | Borrow Pit | 48.3 | R | 0.1 | 0 | - | I |
| 50 | Mink Creek | 50.8 | - | - | - | - | I |
| 51 | Borrow Pit | 53.3 | R | $<0.1$ | 0 | - | I |
| 52 | Borrow Pit | 54.3 | L | <0.1 | 0 | - | I |
| 53 | Borrow Pit | 54.8 | L | <0.1 | 0 | - | I |
| 54 | Borrow Pit | 55.9 | R | 0.1 | - | - | I |
| 55 | Borrow Pit | 56.4 | L | 0.1 | $\overline{0}$ | - | 1 |
| 56 | Borrow Pit | 56.7 | $R$ | $<0.1$ | 0 | - | 1 |
| 57 | Borrow Pit | 59.5 | $R$ | <0.1 | 0 | - | I |

Table 7 Continued.

| Location No. | Water Body | Distance (km) | Direction <br> from road | Surface Area (ha) | Max. Depth (m) | Mean <br> Temp. <br> $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58 | Borrow Pit | 60.2 | L | 0.1 | 0 | - | I |
| 59 | Borrow Pit | 65.7 | R | <0.1 | - | - | I |
| 60 | Borrow Pit | 67.8 | R | 0.1 | - | - | 1 |
| 61 | Borrow Pit | 68.5 | R | - | 0 | - | I |
| 62 | Borrow Pit | 69.4 | L | - | 0 | - | I |
| 63 | Borrow Pit | 70.6 | R | - | 0 | - | I |
| 64 | Borrow Pit | 72.3 | R | 0.1 | 0 | - | 1 |
| 65 | Borrow Pit | 72.8 | R | 0.1 | 0 | - | I |
| 66 | Borrow Pit | 73.8 | R | <0.1 | 0 | - | 1 |
| 67 | Swede Creek | 75.0 | - | - | - | - | - |
| 68 | Borrow Pit | 78.9 | R | 0.1 | 0 | - | 1 |
| 69 | Borrow Pit | 80.0 | R | 0.1 | 0 | - | I |
| 70 | Borrow Pit | 80.6 | R | 0.2 | 0 | - | 1 |
| 71 | Borrow Pit | 82.6 | R | 0.2 | 0 | - | 1 |
| 72 | Borrow Pit | 99.5 | L | 0.2 | 0 | - | 1 |
| 73 | Borrow Pit | 100.9 | L | $<0.1$ | , | - | 1 |
| 74 | Borrow Pit | 103.7 | R | 1.5 | 0 | - | I |
| 75 | Borrow Pit | 109.7 | R | 0.2 | 0 | - | 1 |
| 76 | Borrow Pit | 110.9 | R | 0.1 | 0 | - | I |
| 77 | Borrow Pit | 111.5 | R | 1.0 | 0 | - | I |
| 78 | Borrow Pit | 111.9 | R | 0.1 | 0 | - | 1 |
| 79 | Reindeer Crk. | 113.6 | - | - | - | - | - |

Table 8. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along Northwest Territorial Highway No. 5 from the Hay River Junction east to Fort Smith, 1980.

| Location <br> No. | Water Body | Distance <br> $(\mathrm{km})$ | Direction <br> from road | Surface <br> Area <br> (ha) | Max. <br> Depth <br> (m) | Mean <br> Temp. <br> $\left({ }^{\circ} \mathrm{C}\right)$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 1 | Hay River | 2.0 | - | - | 3 | 14 | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Sandy Creek | 8.7 | - | - | 2 | 15 | - |
| 3 | Borrow Pit | 8.9 | R | 0.1 | 0 | - | I |
| 4 | Borrow Pit | 9.0 | L | 0.1 | 0 | - | I |
| 5 | Borrow Pit | 10.2 | L | 0.1 | 0 | - | I |
| 6 | Borrow Pit | 10.3 | L | <0.1 | 0 | - | I |
| 7 | Borrow Pit | 10.3 | R | <0.1 | 0 | - | 1 |
| 8 | Borrow Pit | 10.3 | R | <0.1 | 0 | - | I |
| 9 | Borrow Pit | 12.5 | R | 0.1 | 0 | - | I |
| 10 | Borrow Pit | 12.6 | L | 0.1 | 0 | - | I |
| 11 | Borrow Pit | 13.5 | R | 0.1 | 0 | - | I |
| 12 | Borrow Pit | 13.8 | L | 0.2 | 0 | - | I |
| 13 | Borrow pit | 13.9 | R | 0.1 | 0 | - | I |
| 14 | Barrow Pit | 13.9 | R | 0.1 | 0 | - | I |
| 15 | Borrow Pit | 14.1 | L | 0.1 | 0 | - | I |
| 16 | Borrow Pit | 14.4 | L | 0.1 | 0 | - | I |
| 17 | Borrow Pit | 14.8 | R | 0.2 | 0 | - | I |
| 18 | Borrow Pit | 16.0 | R | 0.2 | 0 | - | I |
| 19 | Borrow Pit | 16.5 | R | 0.1 | 0 | - | I |
| 20 | Borrow Pit | 16.5 | R | 0.1 | 0 | - | I |
| 21 | Borrow Pit | 16.9 | L | 0.2 | 0 | - | I |
| 22 | Borrow Pit | 17.4 | R | <0.1 | 0 | - | I |
| 23 | Borrow Pit | 17.9 | L | 0.1 | 0 | - | I |
| 24 | Borrow Pit | 18.4 | R | 0.1 | 0 | - | I |
| 25 | Borrow Pit | 18.9 | R | 0.2 | 0 | - | 1 |
| 26 | Borrow pit | 20.1 | R | 0.1 | 0 | - | 1 |
| 27 | Borrow Pit | 20.1 | R | 0.1 | 0 | - | 1 |
| 28 | Borrow Pit | 20.5 | L | 0.1 | 0 | - | 1 |
| 29 | Borrow Pit | 20.9 | R | <0.1 | 0 | - | 1 |
| 30 | Borrow Pit | 21.4 | R | <0.1 | 0 | - | I |
| 31 | Borrow Pit | 21.6 | R | 0.4 | 0 | - | 1 |
| 32 | Borrow Pit | 21.9 | R | 0.1 | 0 | - | 1 |
| 33 | Borrow Pit | 22.8 | L | 0.1 | 0 | - | 1 |
| 34 | Borrow Pit | 23.0 | R | 0.2 | 0 | - | 1 |
| 35 | Borrow Pit | 24.6 | R | <0.1 | 0 | - | 1 |
| 36 | Borrow Pit | 27.6 | R | 0.1 | 0 | - | 1 |
| 37 | Birch Creek | 28.0 | - | - | - | - | - |
| 38 | Borrow Pit | 28.1 | R | <0.1 | 0 | - | 1 |
| 39 | Borrow Pit | 29.3 | L | 0.1 | 0 | - | I |
| 40 | Borrow Pit | 29.7 | R | 0.1 | 0 | - | 1 |
| 41 | Borrow Pit | 30.0 | L | <0.1 | 0 | - | I |
| 42 | Borrow Pit | 30.5 | L | 0.1 | 0 | - | I |
| 43 | Borrow Pit | 31.9 | R | 0.1 | 0 | - | I |
| 44 | Borrow Pit | 32.8 | L | 0.2 | 0 | - | 1 |
| 45 | Borrow Pit | 33.4 | R | 0.2 | 0 | - | I |
| 46 | Borrow Pit | 34.3 | L | 0.2 | 0 | - | I |
| 47 | Borrow Pit | 35.0 | R | 0.1 | 0 | - | I |
| 48 | Borrow Pit | 36.4 | L | <0.1 | 0 | - | I |
| 49 | Borrow Pit | 36.7 | L | <0.1 | 0 | - | 1 |
| 50 | Borrow Pit | 36.8 | L | <0.1 | 0 | - | I |
| 51 | Borrow Pit | 37.2 | R | - | - | - | I |
| 52 | Borrow Pit | 37.6 | L | 0.1 | 0 | - | I |
| 53 | Borrow Pit | 38.1 | L | 0.2 | 0 | - | I |
| 54 | Twin Creek | 39.1 | - | - | - | - | - |
| 55 | Borrow Pit | 39.9 | L | 0.1 | 0 | - | I |
| 56 | Borrow Pit | 40.3 | R | <0.1 | 0 | - | I |
| 57 | Borrow Pit | 40.6 | L | 0.1 | 0 | - | I |

Table 8 Continued.

| Location No. | Water Body | $\begin{gathered} \text { Distance } \\ (\mathrm{km}) \end{gathered}$ | Direction <br> from rosd | Surface Area (ha) | Max. Depth (m) | Mean Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 58 | Borrow Pit | 41.5 | L | 0.1 | 0 | - | I |
| 59 | Borrow Pit | 41.9 | R | 0.1 | 0 | - | . |
| 60 | Borrow Pit | 44.2 | L | 0.1 | 0 | - | I |
| 61 | Borrow Pit | 44.5 | L | <0.1 | 0 | - | I |
| 62 | Borrow Pit | 47.5 | R | 0.2 | 0 | - | 1 |
| 63 | Borrow Pit | 49.9 | L | <0.1 | 0 | - | I |
| 64 | Borrow Pit | 51.7 | $R$ | <0.1 | 0 | - | [ |
| 65 | Borrow Pit | 51.7 | R | <0.1 | 0 | - | I |
| 66 | Borrow Pit | 53.1 | R | 0.1 | 0 | - | I |
| 67 | Borrow Pit | 54.1 | R | 4.5 | 0 | - | I |
| 68 | Borrow Pit | 54.6 | L | $<0.1$ | 0 | - | I |
| 69 | Borrow Pit | 54.7 | R | <0.1 | 0 | - | 1 |
| 70 | Borrow Pit | 55.2 | R | <0.1 | 0 | - | I |
| 71 | Buffalo River | 56.3 | - | - | 1 | 19 | - |
| 72 | Borrow Pit | 58.5 | R | 0.1 | 0 |  | 1 |
| 73 | Borrow Pit | 60.0 | L | <0.1 | 0 | - | I |
| 74 | Borrow Pit | 68.5 | R | 0.1 | 0 | - | 1 |
| 75 | Borrow Pit | 69.9 | R | <0.1 | 0 | - | I |
| 76 | Borrow Pit | 70.7 | $R$ | 0.2 | 0 | - | I |
| 77 | Borrow Pit | 71.8 | R | 0.4 | 0 | - | I |
| 78 | Borrow Pit | 72.9 | R | 0.1 | 0 | - | I |
| 79 | Borrow Pit | 74.4 | R | 0.1 | 0 | - | I |
| 80 | Borrow Pit | 77.5 | L | <0.1 | 0 | - | I |
| 81 | Borrow Pit | 78.4 | L | 0.2 | 0 | - | I |
| 82 | Borrow Pit | 87.3 | L | <0.1 | 0 | - | I |
| 83 | Borrow Pit | 88.0 | $L$ | <0.1 | 0 | _ | 1 |
| 84 | Borrow Pit | 93.7 | R | <0.1 | 0 | - | I |
| 85 | Borrow Pit | 96.9 | R | <0.1 | 0 | - | I |
| 86 | Borrow Pit | 100.4 | L | 0.2 | 0 | - | 1 |
| 87 | Borrow Pit | 103.0 | $L$ | 0.1 | 0 | - | I |
| 88 | Borrow Pit | 105.2 | R | - | 0 | - | I |
| 89 | Nyarling River | 122.1 | - | - | - | - | - |
| 90 | Borrow Pit | 129.0 | R | 0.1 | 0 | - | I |
| 91 | Borrow Pit | 129.8 | R | 0.1 | - | - | I |
| 92 | Borrow Pit | 132.8 | R | 0.1 | 0 | - | 1 |
| 93 | Borrow Pit | 133.2 | R | 0.2 | 0 | - | 1 |
| 94 | Borrow Pit | 141.4 | R | 0.1 | - | - | I |
| 95 | Borrow Pit | 142.7 | R | 0.2 | 0 | - | I |
| 96 | Borrow Pit | 143.8 | R | 0.3 | 0 | - | I |
| 97 | Borrow Pit | 147.1 | L | $<0.1$ | 0 | - | I |
| 98 | Borrow Pit | 148.9 | L | $<0.1$ | 0 | - | I |
| 99 | Borrow Pit | 151.0 | L | <0.1 | 0 | - | I |
| 100 | Borrow Pit | 151.7 | L | $<0.1$ | 0 | - | 1 |
| 101 | Unnamed Pond | 151.9 | R | 0.2 | 0 | - | I |
| 102 | Unnamed Pond | 154.9 | L | 0.2 | 0 | - | I |
| 103 | Unnamed Pond | 156.5 | R | 0.1 | 0 | - | 1 |
| 104 | Unnamed Pond | 167.8 | R | <0.1 | 0 | - | I |
| 105 | Unnamed Pond | 180.5 | R | 0.1 | 0 | - | I |
| 106 | Sass River | 181.6 | - | - | - | - | - |
| 107 | Preble Creek | 190.2 | - | - | - | - | - |
| 108 | Borrow Pit | 199.4 | R | 0.4 | 0 | - | I |
| 109 | Borrow Pit | 211.5 | R | $<0.1$ | 0 | - | 1 |
| 110 | Little <br> Buffalo River | 214.7 | - | - | 2 | 14 | - |
| 111 | Salt River | 241.7 | - | - | - | 1 | - |
| 112 | Borrow Pit | 248.6 | L | $<0.1$ | 0 | - | 1 |

Table 9. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along Northwest Territorial Highway No. 6 from Pine Point Junction east to Fort Resolution, 1980.

| Location No. | Water Body | Distance (km) | Direction from road | Surface Area (ha) | Max. (m) | Mean Temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Borrow pit | 8.9 | L | 0.6 | 0 | - | 1 |
| 2 | Borrow pit | 11.7 | R | 0.1 | 0 | - | I |
| 3 | Borrow Pit | 11.7 | R | $<0.1$ | 0 | - | I |
| 4 | Unnamed Stream | 12.3 | - | - | - | - | - |
| 5 | Borrow Pit | 26.9 | R | 0.3 | 0 | - | I |
| 6 | Borrow Pit | 28.7 | R | 0.2 | 0 | - | I |
| 7 | Borrow Pit | 30.7 | R | 0.5 | 4 | - | , |
| 8 | Borrow Pit | 32.9 | L | 0.3 | 3 | - | I |
| 9 | Unnamed Stream | 56.7 | - | - | - | - | - |
| 10 | Borrow Pit | 57.5 | L | 0.1 | $\bar{\square}$ | - | , |
| 11 | Pond | 57.7 | L | <0.1 | 0 | - | I |
| 12 | Borrow Pit | 66.4 | R | 0.1 | - | - | 1 |
| 13 | Borrow Pit | 66.4 | L | <0.1 | - | - | I |
| 14 | Little |  |  |  |  |  |  |
|  | Buffalo River | 68.9 | - | - | - | - | - |

Table 10. Summary of information on location, surface area, maximum depth, mean temperature and classification for water bodies situated along the Dempster Highway from Inuvik to the NWT-Yukon boundary, 1979.

| Location <br> No. | Water Body | Distance <br> $(\mathrm{km})$ | Direction <br> from road | Surface <br> Area <br> (ha) | Max. <br> Depth <br> (m) | Mean <br> Temp. <br> $\left({ }^{\circ} \mathrm{C}\right)$ | Classification |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Table 11. Number, mean length and weight of fish, by species, caught by experimental gillnets from waterbodies situated in the Yellowknife area, 1979-80.

| Lake | Lake Whitefish |  |  | Lake Cisco |  |  | Northern Pike |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Mean Length (mm) | Mean Weight (g) | No. | Mean Length (mm) | Mean Weight (g) | No. | Mean Length (mm) | Mean Weight (g) |
| YK Area |  |  |  |  |  |  |  |  |  |
| Fault | - |  |  | - |  |  | - |  |  |
| Fiddler | 24 | 316 | 567 | - |  |  | 10 | 584 | 1590 |
| Frame | - |  |  | - |  |  | - |  |  |
| Stock | 6 | 535 | 2517 | - |  |  | 18 | 613 | 1603 |
| Cestaurum Road |  |  |  |  |  |  |  |  |  |
| Daigle | - |  |  | 16 | 156 | 50 | - |  |  |
| Finger | - |  |  | - |  |  | - |  |  |
| Rater | - |  |  | - |  |  | - |  |  |
| Trapper | - |  |  | - |  |  | - |  |  |



Fig. 1. Map of the Northwest Territorial Highway System illustrating the individual survey sections, 1979-80.


Fig. 2. Map of Survey Section 1 showing the location of water bodies surveyed within an 8 km radius of Yellowknife City, 1979-80.


Fig. 3. Map of Survey Section 1 showing the location of water bodies surveyed along the Cestaurum Road, 1979-80.


Fig. 4. Map of Survey Section 2 showing the locations of water bodies situated along Northwest Territorial Highway No. 3 from Yellowknife to Fort Providence Junction, 1980.


Fig. 5. Map of Survey Section 3 showing the locations of water bodies situated along Northwest Territorial Highway No. 1 from Fort Providence Junction to Fort Simpson, 1980.


Fig. 6. Map of Survey Section 4 showing the locations of water bodies situated along Northwest Territorial Highway No. 1 from Fort Simpson to Camsell Bend, 1980.


Fig. 7. Map of Survey Section 5 showing the locations of water bodies situated along the Liard Highway to the Blackstone River, 1980.


Fig. 8. Map of Survey Section 6 showing the locations of water bodies situated along Northwest Territorial Highway No. 1 from Enterprise to the Fort Providence Junction, 1980.


Fig. 9. Map of Survey Section 7 showing the locations of water bodies situated along Northwest Territorial Highway No. 1 from the Hay River Junction to the NWT-Alberta boundary, 1980.


Fig. 10. Map of Survey Section 8 showing the locations of water bodies situated along Northwest Territorial Highway No. 5 from the Hay River Junction to Fort Smith, 1980.


Fig. 11. Map of Survey Section 9 showing the locations of water bodies situated along Northwest Territorial Highway No. 6 from Pine Point Junction to Fort Resolution, 1980.


Fig. 12. Map of Survey Section 10 showing the locations of water bodies situated along the Dempster Highway from Inuvik to the NWT-Yukon boundary, 1979.


Fig. 13. Bathymetric map of Daigle Lake.


## DAIGLE LAKE

Fig. 14. Vertical profiles of temperature and dissolved oxygen for Daigle Lake, 1980 .


Fig. 15. Bathymetric map of Fault Lake.


Fig. 16. Bathymetric map of Fiddlers Lake.


Fig. 17. Vertical profiles of temperature and dissolved oxygen for Fiddlers Lake, 1980.


FINGER LAKE


## DEPTH IN METERS

Fig. 18. Bathymetric map of Finger Lake.


FRAME LAKE


Fig. 19. Bathymetric map of Frame Lake.


Fig. 20. Bathymetric map of Stock Lake.


## STOCK LAKE

Fig. 21. Vertical profiles of temperature and dissolved oxygen for Stock Lake, 1980-81.


STOCK LAKE

Fig. 21. Cont'd.

