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Department of Public Works and Highways

ANNUAL REPORT 1986-1987



Prepared by
Policy, Planning and Training Division





Minister of Public Works and Highways



Mr. John H. Parker,
Commissioner,
Government of the Northwest Territories,
Laing 6,
Yellowknife, Northwest Territories
X1A 2L9

Mr. Commissioner:

I have the honour to submit our first Annual Report of the Government of the Northwest Territories Department of Public Works and Highways for the period April 1, 1986 to March 31, 1987.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Gordon Wray".

Gordon Wray,
Minister.



The Honourable Gordon Wray,
Minister,
Department of Public Works and Highways,
Government of the Northwest Territories,
Laing 6,
Yellowknife, Northwest Territories
X1A 2L9

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Respectfully submitted,

Larry Elkin,
Deputy Minister.

Table of Contents

Departmental Overview	7	Transportation Engineering Division	26
Goals and Objectives.....	8	Figure 18: Expenditures on Behalf of Others	28
Figure 1: Departmental Organization Chart	9	Highway Operations Division	29
Regional Structure	10	Figure 19: Highway Operations Highlights	30
Figure 2: The Northwest Territories		Marine Operations Division	31
Administrative Regions	10	Figure 20: Ferry Highlights	30
Historical Summary	11	Appendices	33
Divisional Descriptions:	13	Appendix A:	35
Directorate:		Construction Contracts Awarded on the Basis	
Deputy Minister's Office	13	of the Business Incentive Policy	35
Figure 3: Departmental Privatization	13	Appendix B:	36
Finance Division	13	Construction, Maintenance and Service Contracts:	36
Figure 4: Public Works and Highways		Headquarters	36
Expenditures by Departmental Activity	14	Fort Smith Region	39
Contracts and Capital Planning Division	15	Inuvik Region	42
Figure 5: Departmental 1986/87 Capital		Kitikmeot Region	46
Expenditures on Behalf of Other Departments	14	Keewatin Region	47
Figure 6: Contracts Report Summary	15	Baffin Region	48
Policy, Planning and Training Division	15	Highways and Ferries	51
Figure 7: Personnel by Region and Activity	16	Appendix C:	60
Energy Conservation Division	16	Architectural and Engineering Contracts:	60
		Headquarters	60
Project Management:		Fort Smith Region	60
Architecture Division	17	Inuvik Region	61
Figure 8: Summary of 1986/87 Architecture Division		Kitikmeot Region	61
Projects Greater than \$100,000	18	Keewatin Region	62
Engineering Division	18	Baffin Region	62
Figure 9: Summary of 1986/87 Engineering		Highways and Ferries	63
Division Projects Greater than \$100,000	19	Appendix D:	65
Operations Division	20	Leases Awarded	65
Buildings and Works	20		
Figure 10: Location of Buildings and Works			
Operations and Maintenance Personnel	20		
Figure 11: Residual Heat Recovery Program	21		
Figure 12: Energy Conservation Capital Program	22		
Figure 13: Roof Retrofit Program	22		
Vehicles and Equipment	23		
Figure 14: Types of Vehicles	23		
Accommodation Services	24		
Figure 15: Lease Summary	24		
Highways:			
Transportation Planning Division	26		
Figure 16: Northwest Territories Highways/			
Ferries Map	27		
Figure 17: Northwest Territories Highway Data	26		

Departmental Overview

Introduction

The Department of Public Works and Highways is responsible for the design, construction, acquisition and maintenance of all buildings, works and equipment required by Territorial Government Departments in carrying out their programs and services; for the provision of property management services to the Government; for the design, reconstruction and maintenance of the highway system in the Northwest Territories; and highway regulatory enforcement through the operation of highway weigh scales.

The various programs and services delivered by the Department of Public Works and Highways impact upon all communities in the Northwest Territories, as well as all Territorial Government Departments. Over the past several years, there has been a significant expansion and evolution in the responsibilities and approaches utilized by the Department in delivering buildings, works, highways and equipment programs.

The Department performs much of its work on behalf of other Government of the Northwest Territories Departments, which are the clients/funding agencies for these projects. The capital program which Public Works and Highways carried out for all Territorial Departments and on behalf of the Federal Government was approximately \$52.8 million during 1986/87. The magnitude of work performed for client Departments is detailed in Figure 5: 1986/87 Capital Expenditures on Behalf of Other Departments.

In carrying out its responsibilities, the Department relies on a staff with a wide range of technical expertise. Staff are located in Yellowknife Headquarters, five Regional offices and the Yellowknife District Office, and in practically every community in the Northwest Territories. To further increase involvement in Departmental activities by Regional and local offices, responsibility for project management, property management and energy conservation programs is being decentralized from Yellowknife Headquarters to the five Regional centres. Highway maintenance operations are headquartered in Hay River, a central location for the Northwest Territories highway system.

A further step in the Government of the Northwest Territories' continuous evolution towards fully responsible government was achieved in March 1983 when the Department commenced reporting to an elected Minister, who is a Member of both the Executive Council and the Legislative Assembly. Prior to that, the Department had reported to the Deputy Commissioner. In March 1987 the growing Highways Division was reorganized into four separate Divisions. In 1984, the Department of Public Works had added "Highways" to its official name, in recognition of continuing program transfers from the Federal Government and overall growth in program responsibility.

The Directorate is comprised of the Deputy Minister, two Assistant Deputy Ministers and the Directors of the three administrative services Divisions. The three Divisions which provide central service and administrative control to the entire Department are Policy, Planning and Training; Contracts and Capital Planning; and Finance. A fourth service Division, Transportation Planning, was established in 1986 to provide services to the three expanding Highways Divisions. The seven program Divisions are Architecture, Engineering, Operations, Energy Conservation, Transportation Engineering, Highway Operations and Marine Operations. The magnitude of Divisional activities is indicated in Figure 4: Expenditures by Departmental Activity.

Local Involvement, Economic Development and Privatization

The Department of Public Works and Highways has increasingly become a Department which has major employment creation and economic development goals within the Northwest Territories, in addition to its infrastructure design, construction and maintenance role. This change in emphasis from a service Department to one of both major program and service delivery has occurred rapidly in the last four or five years and has brought about significant change in the Department's approaches to carrying out its capital construction, infrastructure maintenance, operation and leasing programs. The Department has, therefore, become highly involved in developing new and innovative policy directions for the Government. Major examples of this are the Department's Expense and Revenue Leasing Policies and a Local and Northern Involvement Discussion Paper, which was distributed in the Legislative Assembly and to most businesses and to all communities in the Territories. The Department of Public Works and Highways played a major role in developing the Government of the Northwest Territories' Privatization Policy and continues to be a leading Department in identifying privatization opportunities. The Department has been actively involved in the efforts of the Government of the Northwest Territories to achieve more responsible government, through direct negotiations with Ottawa for the transfer of Federal highway programs, and in assessing Federal assets and estimating capital and operations and maintenance requirements for infrastructure being transferred with other programs from the Federal Government to the Government of the Northwest Territories.

To implement these new responsibilities, while still retaining the Department's traditional roles in support of the Government of the Northwest Territories Departments, the Department of Public Works and Highways has established overall objectives which attempt to strike an appropriate balance between the traditional responsibilities of designing, constructing, and maintaining or operating facilities as effectively and efficiently as possible, and the additional responsibilities in respect to employment and business development across the Northwest Territories.

As an indication of the Department's continuing support in 1986/87 for the development of the North's economy, businesses and residents, 81% of 1,199 construction, maintenance and service contracts were awarded to northern contractors. The value of these contracts was \$62.2 million, which represents 82% of the \$75.6 million in contracts awarded to all firms. This compares favourably with the 1985/86 total of 82%, the 1984/85 total of 76% and the 1983/84 total of 66%.

A number of measures recently implemented by the Department are contributing to the achievement of a high level of local involvement. Regular reporting by contractors on the level of local and northern involvement planned for and actually utilized under their contracts is now required. A Departmental Directive establishes criteria to ensure that all tender advertisements are placed in appropriate northern publications providing northern firms with a better opportunity to become aware of, and submit tenders for, upcoming Government construction and maintenance contracts. Another Departmental Directive requires contractors to house their crews in commercial accommodations whenever practical rather than establishing labour camps.

The Department's Directive governing the selection of architectural and engineering service firms provides preference to northern consulting firms. The Department believes this Directive has greatly encouraged the establishment of new northern consulting businesses. In 1986/87, 89% of the total dollar value of all engineering and architectural contracts were awarded to northern consultants.

Resulting from the Government of the Northwest Territories' Native Employment Policy, the Department has developed an Affirmative Action Program which details 27 plans to increase native employment within the Department.

In support of the Government of the Northwest Territories' Privatization Policy and again towards increasing local involvement, seven of fourteen highway maintenance beats are now contracted. As well, winter and ice road construction and maintenance contracts are now awarded for a three year period to allow northern businesses greater economic security and potential for growth.

The recently approved Expense Lease Policy requires that future staff housing needs, office space and group home requirements will be met by leasing space from the private sector.

Programs

Toward further development of fully responsible government for the Government of the Northwest Territories, additional program responsibilities are being transferred from the Federal Government to the Territorial Government. The Department will assume additional responsibility for the design, construction, operation and maintenance of infrastructure related to forestry, airports and highway programs and the operation of the Northern Canada Power Commission. In support of planning for these transfers, extensive asset evaluations were performed during 1986/87 on behalf of the Departments who will be responsible for these programs.

The Department continued to implement five Government of the Northwest Territories priority funded programs. Three of these programs continued to provide Northwest Territories communities with: adequate supplies of gravel resources to facilitate community infrastructure construction; adequate docking facilities for the use of small boats and aircraft, and for resource harvesting and tourist use; and summertime dust control on unpaved community streets. Under another Departmental priority program, the Residual Heat Recovery Program identifies, designs and constructs residual heat recovery systems for heating community buildings with waste heat from Northern Canada Power Commission generating plants. Six systems have been commissioned to date. As well, Energy Management Officers have been established in two Regions to provide assistance on energy conservation matters to residents, businesses and municipalities. Next year, officers will be placed in the other three Regions as well.

Visits were exchanged by Canadian and Soviet architects and engineers participating in the Canada/USSR Arctic Science Exchange Program. Participants in the exchange are currently studying northern construction of buildings and water distribution and sewage collection facilities. The Department has also expanded its presence at the biennial Winter Cities Symposium and participated in the preparation of the second edition of the Cold Climate Utilities Manual in conjunction with other northern jurisdictions. One notable achievement regarding the development of northern engineering technology was the production of 'Water and Sanitation Concept Plans -- Volume 1', which is available free to all firms working on the design and construction of water and sanitation projects.

Much work has been and remains to be accomplished to ensure the establishment and maintenance of an adequate infrastructure for all northerners and their Government. The Department continues to do its utmost in this regard.

Overall Goals and Objectives of the Department

The Department carries out its programs within goals and objectives that are complementary to the Government of the Northwest Territories' priorities, and the programs of other Departments. Overall goals and objectives of this Department include:

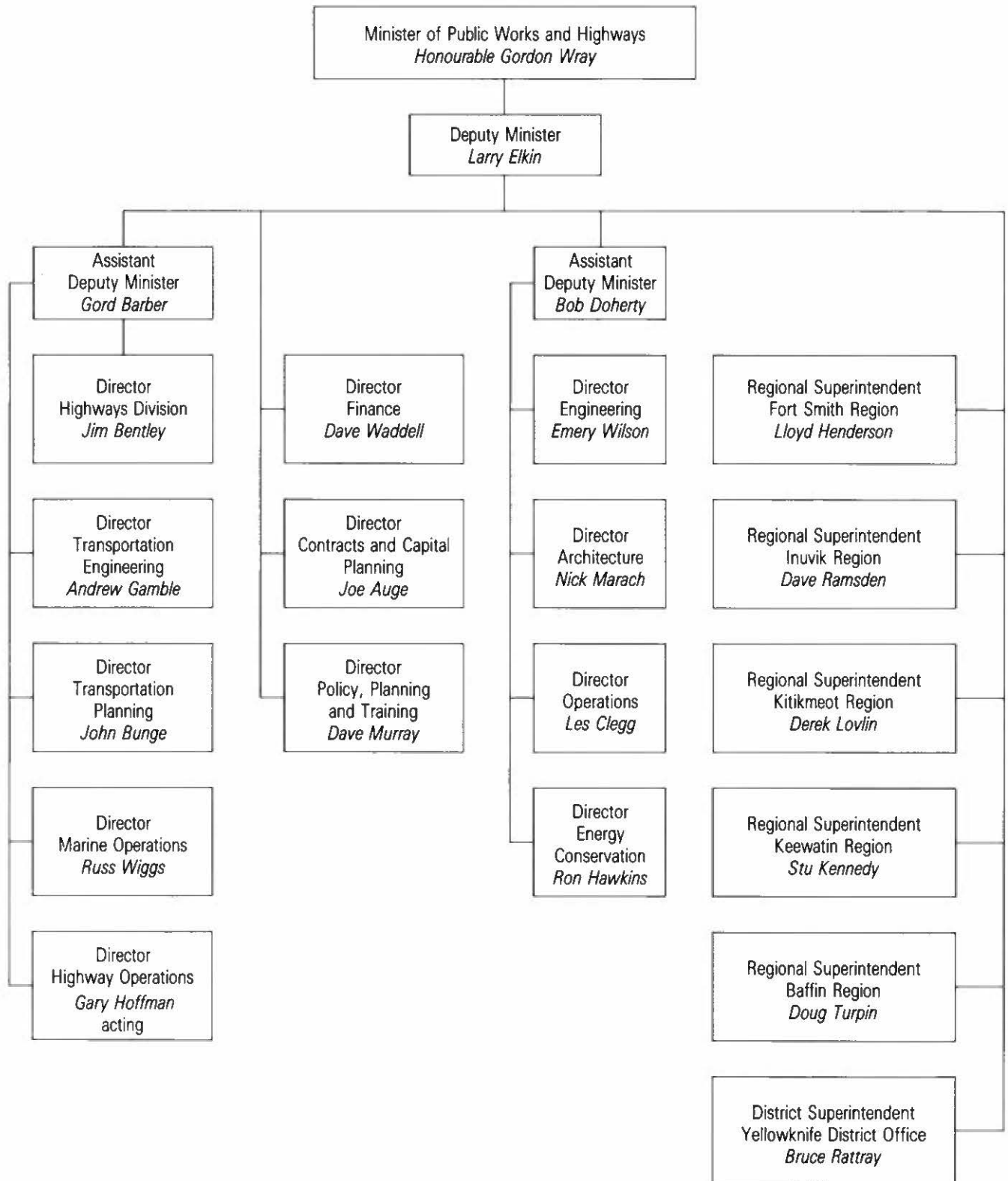
Goals

1. An infrastructure of buildings, works and equipment that is adequate to enable the Government of the Northwest Territories to deliver its programs and services to Northwest Territories residents.
2. An all-weather highway system in the Northwest Territories provided by the Government of the Northwest Territories which provides for the safe and convenient transportation of residents, tourists and goods.
3. The efficient and economical use of energy in the Northwest Territories.

Objectives

1. An infrastructure that is designed, constructed, leased, operated and maintained to quality standards and that incorporates lifetime cost and effectiveness.
2. Standardized system designs to ensure a consistent level of service and cost-effective design, construction, lease, operation and maintenance of facilities and works.
3. Maximum economic benefit to Northwest Territories residents and businesses from government expenditures through their involvement in design, construction, lease, operation or maintenance of Government of the Northwest Territories buildings, works, equipment and highways, through privatization of Departmental programs and services, and by the implementation of programs to increase employment opportunities for designated target groups.
4. Reliable and sure inter-community travel on existing highways through the improvement of reconstruction and maintenance standards, implemented in a cost-effective manner.
5. The transfer of all remaining highways programs from the Federal Government consistent with the Government of the Northwest Territories' priority to assume greater provincial-type responsibilities.
6. A highway and winter road network that benefits isolated communities and facilitates community interaction and renewable and non-renewable resource development including tourism.
7. Efficient and economical use of energy by the Government of the Northwest Territories in its facilities and works.
8. Conservation of energy within the private sector and municipal governments through the provision of information, technical expertise and energy conservation programs.

**Figure 1
Organization Chart**

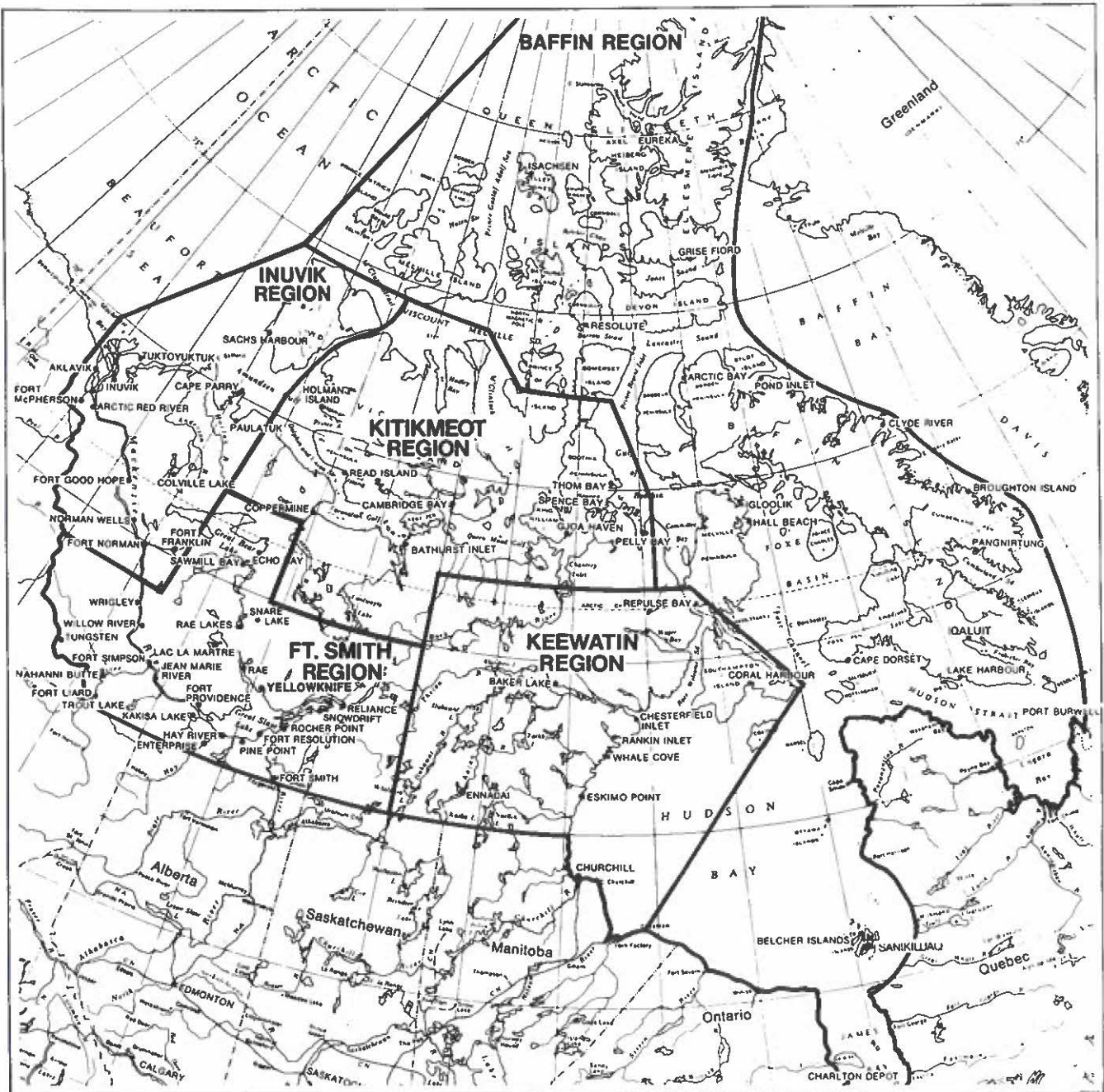


Regional Structure

All Government of the Northwest Territories Departments are headquartered in Yellowknife. In addition, the Territories is divided into five administrative Regions: Baffin, Keewatin, Kitikmeot, Inuvik and Fort Smith as shown in Figure 2. The Department of Public Works and Highways has a Regional Superintendent in each of the Regions who coordinates the Department's activities in the Region. There is also a District Superintendent in Yellowknife who performs a similar function as the Regional Superintendents.

Figure 2:

The Northwest Territories Administrative Regions



Historical Summary

- 1953** • Northern Affairs was added to the Department of National Resources.
- 1957** • Construction on the Mackenzie Highway was begun.
- 1961** • The first permanent ferry, M.V. Johnny Berens, was placed into operation at Fort Providence.
 - The Federal Government's Department of Public Works maintained responsibility for northern infrastructure.
- 1964** • Twenty-eight full-time resident employees were stationed in the Mackenzie District with Regional supervision supplied from District Architects' offices, located in major southern cities.
- 1966** • The Advisory Commission on the Development of Government in the Northwest Territories submitted its report recommending that a Territorial Government be established and that there be a Department responsible for public works.
- 1967** • The Minister of Indian Affairs and Northern Development named Yellowknife as the capital of the Northwest Territories.
 - The Territorial Public Service was established with three service Departments and seven line Departments, one of which was Public Works.
- 1968** • Department of Public Works assumed maintenance responsibility for the Mackenzie Highway System.
 - The Department of Public Works' principal objective was to ensure a capability of assuming all engineering responsibilities in the Mackenzie area.
- 1969** • The Department of Public Works was redefined as a service Department responsible for the provision and maintenance of the physical structures, installations and equipment required to meet the programs of the various Government Departments and Agencies.
 - The Department of Public Works assumed responsibility for operations and maintenance for the Keewatin and Baffin Regions.
- 1970** • A leased tug and barge (the Northwest Territories' second ferry type service) was launched on the Liard River crossing of the highway extension to Fort Simpson.
- 1971** • The Department of Public Works assumed responsibility for construction in the Keewatin and Baffin Regions.
 - The Highways Division assumed responsibility for the Eastern Arctic community roads program.
- 1972** • Design and Construction Divisions amalgamated into one Project Management Division.
- 1973** • The Administrative and Financial Services Division became the Planning and Administration Division, assuming the function of Departmental Planning.
 - The Operations and Maintenance Division was created to coordinate acquisition and operation of heavy equipment and many rental and lease arrangements.
 - Over 1,500 miles of highways, secondary roads, winter roads, ice bridges, and access and service roads served the travelling public.
- 1974** • Maintenance of the Dempster Highway was taken over from the Federal Government.
 - The Department of Public Works assumed operational duties for road construction and maintenance.
 - The Department of Public Works added affiliate membership in American Association of State Highway and Transportation Officials and membership in Western Association of Canadian Highway Officials to its membership in Roads and Transportation Association of Canada.
- 1975** • The Department of Indian Affairs and Northern Development assigned a number of reconstruction projects to Department of Public Works.
- 1976** • Regional Project Officers were established in all Regions to manage the many small capital and operations and maintenance projects.
 - The Operations and Maintenance Division added a section to develop energy conservation guidelines.
- 1977** • A joint residual heat recovery project was completed with Northern Canada Power Commission in Cambridge Bay.
 - The Department of Public Works assumed responsibility in Frobisher Bay (Iqaluit) for the operations and maintenance of the utilidor and the water treatment plant.
- 1978** • The Project Management Division was split into Architectural and Engineering Divisions.
 - The first Northwest Territories structure designed, tendered and constructed in the metric system, Fort Smith Adult Vocational Training Centre, was completed.
 - Problematic gravel pad foundations above the treeline were replaced for the first time on a large scale by steel pipe piles using a special drilling machine suitable for the North.
- 1979** • Work began on the Northwest Territories' first community services centre in Broughton Island, combining community and Government facilities including a gym/social hall, hamlet and Government offices, council chamber, post office and radio station.
- 1980** • A Conservation and Renewable Energy Development and Demonstration Agreement was signed by the Federal and Territorial Governments.
- 1981** • The Department of Public Works assumed full responsibility for the Highway Maintenance Operations Program.

1982 • Responsibility for energy conservation promotion in the public and private sectors was transferred to Department of Public Works.

- Two Assistant Deputy Minister positions were established.
- The Finance Division, the Policy, Planning and Training Division and the Contracts and Capital Planning Division were created.

1983 • The first elected Minister of Public Works was appointed.

1984 • The Department of Public Works' name changed to Public Works and Highways.

- The Department of Public Works and Highways assumed responsibility for the Intra-Territorial Road Reconstruction Program from Department of Indian Affairs and Northern Development.
- The Liard Highway was officially opened, linking the Northwest Territories with British Columbia and forming a circular route with the Mackenzie Highway and Alberta.

1985 • Five Government of the Northwest Territories priority funded, three year programs were initiated to: control summer dust problems on community streets; improve the condition and availability of community small docks; provide adequate supplies of crushed gravel for community and Government projects; design and construct further residual heat recovery facilities; and promote energy conservation in the Regions.

- A preventative maintenance program began in all Regions as part of the Maintenance Management System.

1986 • A new Government of the Northwest Territories Lease Policy emphasized leasing of offices, staff housing and group homes instead of Government of the Northwest Territories construction and ownership.

- The Canada/USSR Arctic Science Exchange Program continued with Engineering Division's visit to the USSR to confer on water distribution and treatment and sewage collection facilities.
- The Highway Weigh Scale Program was transferred to the Department of Public Works and Highways.

Divisional Descriptions

THE DIRECTORATE

The Deputy Minister's Office

Roles and Responsibilities

The Deputy Minister's Office develops long-range plans, policy proposals and operating guidelines on all Public Works and Highways matters. It is responsible for the management of the Department to ensure consistent application of Departmental policies, programs, standards and procedures throughout the Northwest Territories.

Highlights

A major area of senior management emphasis was local and northern involvement. This program implements approaches to maximize employment and business opportunities for northerners, using the Government's capital construction program. The Deputy Minister's Office was involved in the preparation of a Discussion Paper on the topic for presentation to the Legislative Assembly.

To further develop the private sector, support continued to privatize Department of Public Works and Highways services in the Regions. Figure 3 shows the level of privatization by activity.

A visit by a delegation of water and sanitation experts from the USSR as part of the ongoing Canada/USSR Arctic Science Exchange Program was coordinated by the office. This program is designed to allow the exchange of information on unique northern construction and maintenance problems.

A Coordinator of Management Systems was added to the Deputy Minister's Office. This coordinator is overseeing the development of an integrated management system for the Department to encourage more timely and useful methods of information storage and recovery.

A major reorganization of the Highways Program into four Divisions was developed and implemented by the Deputy Minister's Office.

The Office was also responsible for the plans and preparation for the 1987 Western Association of Canadian Highway Officials (WACHO) Conference, which would mark the first time the Northwest Territories would host the conference.

Finance Division

Roles and Responsibilities

The Finance Division was created in 1982 to strengthen the financial planning, forecasting and administration in the Department. The Division provides information, assistance and advice to Departmental management and staff on all financial-related matters. Other responsibilities include monitoring the payment of expenditures and collection of revenues, the processing of all Headquarters financial transactions, and coordinating the development of the annual operations and maintenance and revenue budgets.

The Department's expenditures by activity are detailed in Figure 4.

Figure 3
Department of Public Works and
Highways Privatization

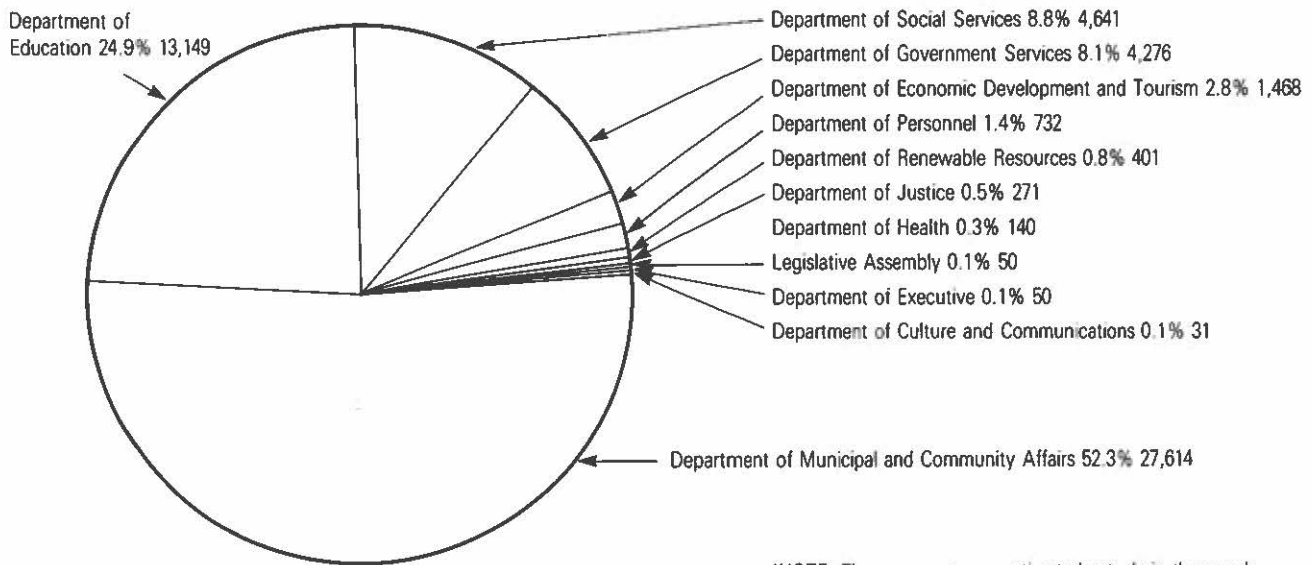
Activity	1985/86 \$000's	1986/87 \$000's	1987/88 \$000's
Highway Operations	7,750	8,483	9,000
Marine Operations	3,500	3,500	3,646
Buildings and Works			
Maintenance	2,787	4,320	4,943
Vehicle Maintenance	537	504	530
Building Leases	15,000	21,701	25,909
Construction	44,000	59,000	86,000
Total	73,574	97,508	130,028
Potential Future Privatization			
Highways Maintenance	\$ 1,765		
Buildings and Works Maintenance	4,397		
Vehicles Maintenance	1,129		
Total	\$ 7,291		

Figure 4
Expenditures by Departmental Activity

Activity	(\$000's)			
	Operations and Maintenance		Capital	
	85/86	86/87'	85/86	86/87'
Directorate	\$ 4,900	\$ 5,271	\$ 210	\$ 54
Project Management	2,809	3,469	0	0
Operations				
Director, Operations	1,203	2,598	506	864
Buildings and Works	13,222	18,529	5,018	740
Utilities	28,550	28,632	0	0
Vehicles and Equipment	3,313	3,092	687	1,007
Accommodation Services	15,696	20,025	1,144	1,160
Transportation Engineering/ Transportation Planning	1,626	1,945	5,134	10,206
Marine Operations	3,881	3,410	657	84
Highway Operations	15,126	16,106	2,135	1,499
Total Department	\$ 90,326	\$ 103,077	\$ 15,491	\$ 15,614

'NOTE: These amounts are estimated actuals in thousands.

Figure 5
1986/87 Capital Expenditures on Behalf of Other Departments'



'NOTE: These amounts are estimated actuals in thousands

Contracts and Capital Planning Division

Roles and Responsibilities

The Contracts and Capital Planning Division is responsible for the tendering of Department of Public Works and Highways construction contracts, acts in an advisory role on contract administration and coordinates the Department's capital planning processes. The Division also maintains the Department's resource centre, the project files and the contract drawings.

Highlights

The Department's capital expenditures on behalf of other Departments are detailed in the preceding Figure 5. Summaries of construction, maintenance and service contracts and architectural and engineering contracts are provided in Figure 6.

Policy, Planning and Training Division

Roles and Responsibilities

The Policy, Planning and Training Division was instituted in 1982 to strengthen the ability and capacity in the policy and program development areas, to perform a coordinating function by providing support and assistance to Department of Public Works and Highways managers in developing policies and directives, and to conduct personnel administration and coordination of Departmental training, human resource planning, and implementation of affirmative action programs.

Highlights

The Native Employment Action Plan for the Department of Public Works and Highways was implemented in a number of areas during the year. The Department was successful in meeting all overall numerical targets for actual totals of and percentage increases in native employees.

Figure 6
Contracts Report Summary for 1986/87

Construction, Maintenance and Service Contracts		
Region	Number of Contracts	Value of Contracts
Yellowknife and Headquarters	167	\$ 3,672,337
Fort Smith	165	5,290,581
Inuvik	187	6,854,044
Kitikmeot	36	5,024,078
Keewatin	59	12,755,039
Baffin	109	19,325,533
Highways and Ferries	476	22,699,137
Totals	1,199	\$ 75,620,749
Total to Northerners	962	\$ 62,232,425
Percentage to Northerners	81%	82%
Architectural and Engineering Contracts		
Region	Number of Contracts	Value of Contracts
Yellowknife and Headquarters	15	\$ 682,063
Fort Smith	16	636,311
Inuvik	24	1,122,610
Kitikmeot	7	317,195
Keewatin	24	1,353,580
Baffin	22	1,650,517
Highways and Ferries	23	773,231
Totals	131	\$ 6,535,507
Total to Northerners	105	\$ 5,897,375
Percentage to Northerners	80%	88%

As part of the Department's Native Employment Action Plan, the Native Employment Engineering Preparation Program got underway. This program was established to increase the representation of aboriginal people in engineering positions in the Government of the Northwest Territories. The program provides participants with an opportunity to upgrade their academic standing and receive a basic knowledge of engineering through various projects within the Department. At the conclusion of the program, candidates are encouraged and supported in applying to full-time university programs in the engineering field. The 1986/87 session of the program was a success with two of the five participants being accepted into the Engineering Access Program at the University of Manitoba.

Development of a Supervisory Trades Training Program commenced. The program will provide management and technically oriented skills training to individuals currently employed in the various trades groups as well to community residents with no formal construction or trades background. The program will be offered to a variety of Government of the Northwest Territories community and private sector employees.

The purpose of the program is to provide:

- tradesmen with basic management skills in order to proceed to Foreman and more senior management level positions.
- individuals with no trades background with trades-oriented skills to allow for their participation in local involvement projects in their home communities.

The following Figure 7 details the Department's personnel by Region and by activity.

Energy Conservation Division

Roles and Responsibilities

During this era of volatile world energy prices and diminishing conventional supplies of petroleum, the Northwest Territories remains particularly vulnerable because of its heavy reliance on petroleum for heating fuel, electricity and vehicles; the high per capita consumption of petroleum in the north; and the high unit cost of that petroleum.

The Government of the Northwest Territories currently spends in excess of 11% of its total operations and maintenance budget on utilities, while the private sector struggles against high operating costs to become economically viable.

The Energy Conservation Division was thus created in 1982 to promote the awareness, understanding and practice of efficient energy use within both the private and public sectors of the Northwest Territories. It achieves this through the provision of information and technical advice, by identifying energy-efficient opportunities for clients, and by assisting clients in implementing such projects.

A range of programs serves the needs of the residential, municipal, commercial, and government sectors. Energy Management Officers in Rankin Inlet, Inuvik and Yellowknife serve interested user groups and individuals at the community level. Similar services will be brought to communities in the other Regions in 1987, with the placement of Energy Management Officers in Iqaluit, Cambridge Bay and Fort Smith.

Prime users of Energy Conservation Division services included: Hamlets interested in reducing their operating expenses; small businesses interested in receiving and/or implementing energy audit recommendations, and in benefitting through assistance offered by the Business Energy Conservation Incentive Program or the Commercial Power Subsidy Program; residents of public housing and private homeowners; students and teachers interested in learning more about how energy can be used efficiently; and operators, maintainers and occupants of Territorial public buildings. Highlights of Divisional activities during 1986/87 are summarized below.

Highlights

Municipalities:

- Energy audits were completed on all buildings in the Hamlets of Spence Bay, Arctic Bay, Fort Norman, Baker Lake, Holman, Coral Harbour and Whale Cove.
- Energy-related project opportunities were prioritized and implementation schedules developed for Rankin Inlet, Holman and Baker Lake.
- Presentations were made to various Hamlet Councils and staff on specific energy conservation opportunities open to them.

Figure 7
Personnel by Region and Activity

Activity	Head-quarters	District Office	Fort Smith	Inuvik	Baffin	Keewatin	Kitikmeot	Total
Directorate	34	6	14	13	13	7	5	92
Project Management	53	2	6	4	9	5	2	81
Accommodation Services	7	3	3	2	3	2	2	22
Buildings and Works	8	21	48	36	45	26	19	203
Vehicles and Equipment	3	2	8	7	5	2	1	28
Utilities	—	—	—	1	2	—	1	4
Transportation Engineering and Planning ¹	41	—	—	—	—	—	—	41
Marine Operations	8	—	—	—	—	—	—	8
Highway Operations	110	—	—	—	3	—	—	113
Operations	5	—	—	—	—	—	—	5
Total Department	269	34	79	63	80	42	30	597

¹Does not include term positions.

- An improved utilities management system was developed and put in place for monitoring and measurement of individual Hamlet building performance.
- Technical "how to" workshops were held for Hamlet building maintainers from Keewatin and Inuvik Region municipalities.

Small Business:

- Energy audits performed for small business: 24
- Projects completed under the Business Energy Conservation Incentive Program: 20
- Workshops for private sector oil burner mechanics: 1
- Numerous meetings with individual businesses, and Chambers of Commerce regarding needs and services.

Residents:

- Home energy audits performed: 30
(on request residents receive a free home energy audit inspection and report)
- Community trade fairs participation: 3
(technical or individual problems addressed)
- Workshops held: 2
- Low Cost Weatherization Project undertaken with Rankin Inlet Housing Association (inexpensive tightening of 10 older houses for increased comfort/economy).
- Telephone enquiries to Rankin Inlet, Inuvik and Yellowknife, from the public regarding technical or program advice.

Schools:

- Presentations to students: 13
- Presentations to teachers: 15

Territorial Public Buildings:

- Workshops for employees: 5
- Projects identified to reduce utility costs: 6

Churches and Halls:

- Energy audits provided: 2

In 1987 a short term agreement was signed with the Federal Government which will allow the development of jointly-funded activities like workshops for residents and maintainers of existing housing, "how to" videos, and other materials for various communities throughout the Territories.

PROJECT MANAGEMENT

Architecture Division

Roles and Responsibilities

The Architecture Division is responsible for the design and construction of most Government buildings including schools, multipurpose community halls, gymnasiums, offices, courthouses, correctional centres, maintenance garages, warehouses, group homes and park shelters. The Division is organized into project management teams, each with a Project Manager and a number of Project Officers. Each team is responsible for various client programs. Most of the design work is conducted by architectural and engineering services firms (consulting firms) while contractors perform the construction. The project teams coordinate the many activities of the clients, consultants and contractors. Continuing design research yields an evolving building technology appropriate for an Arctic environment.

The many steps involved in construction of a building start when a client Department comes to the Department of Public Works and Highways with a program requirement and some basic thoughts on it. The planning, predesign, design, tendering and contract documents, construction, final inspection and warranty stages of the project follow.

The Division also has an Interior Design Section which assists the Project Officer/Project Manager and the Government of the Northwest Territories as a whole with interior design requirements. This includes detailed office planning (use of space, furniture, etc.) and the Visual Identity Program (signs).

Highlights

The Architectural Division implemented approximately \$50 million in capital design and construction projects in 1986/87 to provide new and renovated facilities in 51 communities. The Division directs northern consultants to provide appropriate architectural and engineering design and supports local involvement in construction through the application of the northern Business Incentive Policy and partial authority agreements.

New schools were opened in Arctic Bay, Holman, Nahanni Butte, Snare Lake, Sanikiluaq and Resolute Bay. New elementary schools are planned for Fort Liard, Gjoa Haven, Pond Inlet, Eskimo Point and Rankin Inlet to start construction in 1987. The design of these schools will emphasize cost effectiveness and be based on a standard central core, which will be adapted to the needs of different communities by modular expansion. This will lower capital costs through the establishment of standard spatial programs. Local participation in design is encouraged in part through artwork which reflects each community's special identity. Additions to the Fort Smith Arctic College trades complex and a new married students residence were completed. Design has started on the new campus for the Arctic College at Iqaluit. Accommodation will be provided for Academic facilities including an Applied Arts library and Adult Education. Facilities for Trades Programs are to be added in the next phase of development. Renovated facilities for an Inuvik campus are being provided in existing buildings obtained from the Federal Government. A 34 bedroom addition to Kivallik Hall student residence in Rankin Inlet is planned.

Recreation facilities completed include community gymnasiums in Detah, Snowdrift and Holman. At Jean Marie River a community complex was constructed in part from lumber sawn at a local mill. Design work was completed for standard recreation complexes at Fort Providence, Fort McPherson, Aklavik and Wrigley. These include hockey arenas and community halls. A community gymnasium is planned for Arctic Red River and a community hall in Yellowknife. A new hamlet office has been designed for Holman. These projects are to be constructed in 1987. New community halls are planned for Baker Lake, Chesterfield Inlet and Hall Beach. Hockey arenas are to be provided in Fort Resolution and Sachs Harbour, complete with curling rinks at Cape Dorset and Coral Harbour. A curling rink is designed to be added to the arena at Pond Inlet. An arena is to be provided at Pangnirtung. Recreation complexes at Cambridge Bay and Coppermine and the arena and offices at Eskimo Point are to be upgraded to meet National Building Code standards and current local needs. New hamlet offices were designed for Holman and renovations planned for the office in Whale Cove.

Major projects for the Department of Social Services include residential accommodation for groups with special requirements including handicapped children, families at risk and young offenders. These are being built in Cambridge Bay, Coppermine, Fort Smith, Iqaluit and Hay

River. Major renovations continue at the Yellowknife Correctional Centre and the new regional facility in Iqaluit is now in operation.

The Division continues to act in an advisory capacity to other agencies receiving Government funding including the City of Yellowknife, for the proposed swimming pool and curling rink, School District #1 and the Hospital Board for the Stanton Regional Health Centre. There was a similar involvement in the architecturally acclaimed Northwest Territories pavilion at Expo '86 in Vancouver.

All buildings have been designed to achieve high levels of thermal efficiency and energy conservation. They are compact and economic to build and operate. Construction management of the schools at Nahanni Butte and Snare Lake enabled these communities to achieve 45% local involvement of the total labour cost involved. Effective project management and attention to detail has allowed the Division to provide the highest standard building appropriate to northern conditions at the lowest capital and operational cost. Research and increased contact with other agencies involved in northern development, including the Association of Canadian Universities for Northern Studies, the National Research Council and the Winter Cities Association has made it clear that the Division is in the forefront of construction in the circumpolar region.

A summary of projects, which have total budgets greater than \$500,000 and 1986/87 expenditures greater than \$100,000, follows in Figure 8.

Engineering Division

Roles and Responsibilities

The Engineering Division is responsible for the design and construction of new capital works and upgrading of facilities for water distribution, sewage and solid waste disposal, the storage and dispensing of bulk petroleum products and central heat distribution including the recovery and distribution of heat from diesel-electric power plants. A main objective is to provide facilities that are capable of performing the required function, are simple to operate, easy to maintain, reliable and cost effective. Division staff carry out this responsibility mainly through project management and retain consulting engineering firms to undertake design and provide supervision during construction. Engineering Division has also been assigned to coordinate the development of standards for design and construction of buildings and works.

Local and northern involvement in construction is maximized by tendering work in small packages when this is practical, ensuring that con-

Figure 8

Summary of Architectural Division Projects with 1986/87 Expenditures Greater than \$100,000¹

Community	Facility	Client ²	1986/87 Expenditures ³
Aklavik	Recreation Complex	MACA	130,000
Cape Dorset	Arena	MACA	143,000
Coral Harbour	Arena/Curling Rink	MACA	267,000
Detah	Community Hall	MACA	532,000
Eskimo Point	School	EDUC	500,000
Ft. Good Hope	School Addition	EDUC	2,174,000
Ft. Liard	School	EDUC	257,000
Ft. McPherson	Recreation Complex	MACA	152,000
Ft. Smith	Trades Complex Addition	EDUC	1,552,000
Gjoa Haven	School	EDUC	148,000
Holman	Multi Purpose Hall	MACA	743,000
Holman	Hamlet Offices	MACA	117,000
Igloodik	School Addition	EDUC	169,000
Inuvik	Resource Centre	EDUC	483,000
Inuvik	Grollier Hall Renovation	EDUC	1,283,000
Iqaluit	Correctional Centre	SOC. SERV.	129,000
Iqaluit	Arctic College	EDUC	420,000
Jean Marie River	Gymnasium/Office	MACA	253,000
Pelly Bay	School	EDUC	2,747,000
Pond Inlet	School	EDUC	141,000
Rankin Inlet	School	EDUC	638,000
Rankin Inlet	Kivallik Hall Addition	EDUC	135,000
Sanikiluaq	Community School	EDUC	177,000
Yellowknife	Correctional Centre	SOC. SERV.	1,042,000

¹Only projects which have total budgets greater than \$500,000 are included.

²Municipal and Community Affairs (MACA)
Social Services (SOC. SERV.)
Education (EDUC)

³Amounts are estimated actuals.

tractors are made aware of skills and equipment that are available locally and ensuring that established business incentive policies are followed.

Highlights

Engineering Division was responsible for the implementation of 78 projects with a total 1986/87 budget of \$15 million. A summary of the projects, which had 1986/87 budgets of more than \$100,000, follows in Figure 9.

As part of the Department's plan to decentralize the implementation of capital works, one permanent staff position and management of the construction phase of several major facilities were in the process of being transferred to the Regional offices of Public Works and Highways. Construction of a new water storage reservoir for Pangnirtung, shoreline protection measures at Tuktoyaktuk, expansion of the piped water and sewage systems in Iqaluit and Rankin Inlet, expansion of the water storage facility at Grise Fiord and the fuel storage facility at Rankin Inlet were implemented by the Regions with support from Engineering Division.

The Division also assisted Arctic Airports Division of Municipal and Community Affairs to conduct an inventory of restoration and rehabilitation requirements for Northwest Territories airports as part of negotiations for transfer of responsibility for the Arctic Airports Program from the Federal Government to the Territorial Government. It also arranged for an assessment of the Northern Canada Power Commission's assets in support of negotiations for the takeover of the utility by the Territorial Government and assisted the Department's efforts in the Engineering Access Program by arranging seminars and site visits for participants.

Within the multi-year Canada/USSR Arctic Science Exchange Program, individual members of Engineering Division represented the Department in a notable fashion by taking part in a visit to the Soviet Union. This is part of the subagreement on the continuing exchange of information on northern design and construction.

Members of the Division also achieved recognition by:

- presenting a paper at the workshop on 'Appropriate Wastewater Management Technologies for Rural Areas Under Adverse Conditions' sponsored by the University of Nova Scotia and Environment Canada,
- presenting a paper on piped water and sewer systems in the Northwest Territories to the annual conference of the Canadian Society for Civil Engineering,
- participating in the publication of the Cold Climate Utilities Manual which outlines basic principles of cold climate environmental engineering and will be widely used in Canadian technical institutions,
- participating in the Conference on Cold Regions Environmental Engineering sponsored by the University of Alberta and the Canadian Society for Civil Engineering.

Figure 9
Summary of 1986/87 Engineering Division Projects Greater than \$100,000

Community	Facility	Client ¹	1986/87 Expenditures ²
Arctic Bay	Fuel Facility	Government Services	1,059,000
Broughton Island	Fuel Facility	Government Services	217,000
Iqaluit	Sewage Outfall	MACA	117,000
Iqaluit	Happy Valley Water & Sewer	MACA	1,691,000
Iqaluit	Water & Sewer Connections	MACA	420,000
Pangnirtung	Water Supply	MACA	2,042,000
Grise Fiord	Fuel Facility	Government Services	128,000
Grise Fiord	Water Tank	MACA	690,000
Fort Simpson	Heating Plant Standby Power	DPW&H	154,000
Snowdrift	Water Plant	MACA	471,000
Trout Lake	Fuel Facility	Government Services	202,000
Arctic Red River	Sewage & Solid Waste	MACA	125,000
Norman Wells	Sewage Treatment	MACA	543,000
Tuktoyaktuk	Solid Waste	MACA	244,000
Eskimo Point	Water Reservoir	MACA	724,000
Rankin Inlet	Heat Recovery System	DPW&H	170,000
Rankin Inlet	Water & Sewer	MACA	922,000
Whale Cove	Sewage & Solid Waste	MACA	100,000
Coppermine	Solid Waste	MACA	297,000
Gjoa Haven	Water Treatment	MACA	116,000

¹MACA – means Department of Municipal and Community Affairs
²DPW&H – means Department of Public Works and Highways
²Amounts are estimated actuals

Operations Division

The Operations Division is responsible for overall management and coordination of the acquisition/disposal and operation/maintenance of Territorial Government buildings, works and equipment. The Division is separated into the three following sections: Buildings and Works, Vehicles and Equipment, and Accommodation Services. Each of the Sections has its own manager and is responsible for a distinct program area. The Buildings and Works Section also has responsibility for a Utilities Management Program.

Buildings and Works

Roles and Responsibilities:

The Buildings and Works Section is responsible for co-ordinating the Regional Offices' operation, maintenance and repair of buildings and works owned or leased by the Government of the Northwest Territories. Emphasis is placed on the energy efficient operation of facilities such as schools, hostels, staff houses, office buildings, warehouses, water systems, etc. Maintenance work is contracted out where practical.

To maintain the Government's assets, the Department has personnel located in almost all of the communities in the Territories. The following Figure 10 indicates the distribution of operation and maintenance personnel throughout the Northwest Territories. The total of 234 employees are allocated among Regions as follows:

Baffin — 54;
 Fort Smith — 56;
 Inuvik — 43;
 Keewatin — 28;
 Kitikmeot — 20; and,
 Yellowknife District — 33 (excluding Headquarters staff).

The Section is responsible for the following programs, which are subsequently detailed:

- Residual Heat Recovery Program
- Energy Conservation Capital Program
- Roof Retrofit Program
- Operational Audit Program
- Privatization Program

Figure 10
Location of Buildings and Works Operation and Maintenance Personnel

Community	Employees	Community	Employees
Baffin Region		Inuvik Region	
Broughton Island	2	Aklavik	2
Cape Dorset	2	Arctic Red River	2
Clyde River	1	Fort Franklin	2
Grise Fiord	2	Fort Good Hope	2
Hall Beach	1	Fort McPherson	2
Igloolik	2	Fort Norman	2
Iqaluit		Inuvik	23
(Frobisher Bay)	28	Norman Wells	4
Lake Harbour	1	Paulatuk	1
Nanisivik	6	Sachs Harbour	1
Pangnirtung	3	Tuktoyaktuk	2
Pond Inlet	2	Total	43
Resolute	2		
Sanikiluaq	2	Fort Smith Region	
Total	54	Fort Providence	1
		Fort Resolution	1
Keewatin Region		Fort Simpson	13
Baker Lake	3	Fort Smith	26
Chesterfield Inlet	1	Hay River	9
Coral Harbour	1	Pine Point	1
Eskimo Point	3	Rae	2
Rankin Inlet	19	Snowdrift	2
Repulse Bay	1	Wrigley	1
Total	28	Total	56
		Yellowknife District	
Kitikmeot Region			33
Cambridge Bay	11	Total Personnel	234
Coppermine	3		
Gjoa Haven	2		
Holman	1		
Pelly Bay	1		
Spence Bay	2		
Total	20		

Figure 11
1986/87 Residual Heat Recovery Program

Community	Facility Using Recovered Heat	Project Stage In 1986/87	1986/87 Cost (\$000's)	Total Project Cost (\$000's)	Estimated Annual Energy Saving (\$000's)	Payback Period (Years)
Rankin Inlet	DPW&H office, shops, warehouse	design, construction	137	152	71	2.14
Cambridge Bay Phase I	water plant, arena	design (upgrade) partial construction	49	89	49	1.82
Cambridge Bay Phase II	extend system to school	predesign	17	758	186	4.08
Lac La Martre	school	design	10	—	—	—
Coppermine	water plant	design, partial construction	50	80	23	3.48
Igloodik	school	predesign	31	—	—	—
Fort McPherson	school, water plant	predesign	8	—	—	—
Spence Bay	water plant, school, housing	predesign	19	—	—	—
Total			321	1,079	329	3.28

Residual Heat Recovery Program

Previously a regularly funded program, the Residual Heat Recovery Program has been since 1985 one of the Government's priority funded programs. It is intended to reduce utility costs by utilizing the heat in jacket cooling water and exhaust gases of diesel electrical generating plants operated by the Northern Canada Power Commission. The program includes feasibility studies, design, construction and monitoring of projects at various sites in the Northwest Territories.

A formal Master Agreement between the Government and the Northern Canada Power Commission was signed in 1982 whereby the parties agreed to the exclusive utilization of residual heat by the Government in all Northwest Territories communities. Subsidiary agreements were also signed with the Northern Canada Power Commission for various specific locations.

A list of projects undertaken in 1986/87 appears in Figure 11. The budget of \$321,000 allocated in 1986/87 allowed for the completion of the Rankin Inlet project and commencement of construction for Cambridge Bay Phase I and Coppermine projects.

Energy Conservation Capital Program

The utilities activity under Buildings and Works funds the utility costs for heat, electricity, water, sewage and garbage services for all buildings and works owned and operated by the Government of the Northwest Territories.

The Department instituted the Energy Conservation Capital Program in 1984 to assist in minimizing the growth in Government utility expenditures by performing a variety of retrofit projects throughout the Northwest Territories. Funding provides for the design and construction of projects with short payback periods. Due to competition between several promising projects for funding, priorities are allotted for project pro-

posals based on payback periods. The following Figure 12 indicates projects undertaken in 1986/87 and their benefits in terms of utility/maintenance cost reductions. Total expenditures of \$351,600 are estimated to yield annual savings of \$230,570.

Roof Retrofit Program

The roof repair of various Government buildings had been handled routinely in the past. The Roof Retrofit Program was instituted in 1985 to co-ordinate the efficient and economical repair and/or replacement of roofs on various Government of the Northwest Territories buildings. Investigation, design, repair and replacement of roofs are undertaken. Figure 13 contains a list of projects undertaken in 1986/87.

Operational Audit Program

The Buildings and Works Section initiated in 1985/86 a program to audit the operation and maintenance of Government of the Northwest Territories buildings and other facilities. These audits are designed to identify operational deficiencies and recommend procedural modifications. Any design related observations are referred to the Project Management Divisions. During 1986/87, the Rankin Inlet School and the Yellowknife Government Warehouse were audited and recommendations made. The Section proposes to audit at least one facility in each Region every year.

Privatization Program

The Government of the Northwest Territories is committed to increased privatization of its programs and services where practical. The Buildings and Works Section co-ordinates the privatization of operations and maintenance activities for the buildings and works in the Regions. This activity increases local business participation in providing operation and maintenance services to the Department for various Government of

Figure 12
Energy Conservation Capital Program

Location	Project (Various Buildings)	Capital Cost (\$)	Annual Benefit (\$)	Payback Period (Years)
Yellowknife	Interior/Exterior Lighting Replacement	17,500	28,660	0.61
Pangnirtung	Night Setback Controls	1,500	1,720	0.87
Inuvik	Lamp Replacement	4,000	6,340	0.63
Inuvik/Aklavik	Replacing Oil Burners with Riello Burners	6,800	10,260	0.66
Various (Inuvik)	Night Setback Thermostats	8,700	39,930	0.22
Fort Smith	Exit Sign Replacement	3,000	6,940	0.43
Fort Smith	Reduced Flow Showerheads	600	840	0.71
Fort Smith	Outdoor Lighting Replacement	15,000	8,880	1.69
Rankin Inlet	Upgrading Insulation	12,300	3,440	3.58
Rankin Inlet	Replacing Oil Burners with Riello Burners	1,900	6,020	0.32
Various (Keewatin)	Night Setback Thermostats	18,000	15,000	1.20
Various (Keewatin)	Weatherstripping	3,300	10,000	0.33
Various (Keewatin)	Exterior Lighting Replacement	6,600	11,000	0.60
Holman	Upgrading Insulation	50,000	5,630	8.88
Spence Bay	Upgrading Insulation	60,000	7,530	7.97
Spence Bay	Replacing Electric Hot Water Heaters	22,000	9,680	2.27
Spence Bay	Wallfin Heating in School	120,400	58,700	2.05
Total or Average		351,600	230,570	1.52

Figure 13
Roof Retrofit Program

Community	Building	Capital Cost (\$000's)
Aklavik	Sixplex	\$ 52
Fort McPherson	Chief Julius School and Sixplex	174
Fort McPherson	Hamlet Office	37
Hay River	P.A. School	291
Tuktoyaktuk	School (Design Only)	28
Yellowknife	Sir John Franklin High School	572
Yellowknife	Tallah Building (GNWT Share)	32
Various	Inspections, Designs	145
Total		\$ 1,331

the Northwest Territories buildings. The extent of the Department's privatization is presented in the discussion of the Directorate.

Vehicles and Equipment

Roles and Responsibilities

The Vehicles and Equipment Section is responsible for the acquisition, maintenance and operations of all Government of the Northwest Territories' vehicles and mobile equipment, excluding Highways Divisions vehicles and equipment.

The Vehicles and Equipment Section manages the Departments' capital programs for the purchase of new and replacement mobile equipment units. This Section reviews all Departments' requirements to ensure the appropriate types and numbers of vehicles and equipment are provided.

This activity develops specifications that will ensure new vehicles and equipment purchased by the Government will meet the special challenges of operating in the North. All new vehicles and equipment are inspected at the vendors' premises to ensure the vehicles meet the as-tendered specifications.

Highlights

The number of vehicles and equipment items purchased for all Departments during the fiscal year 1986/87 totalled 124 units costing \$3,860,000 excluding Regionally purchased items. The types of vehicles purchased consist of passenger vehicles, light trucks, municipal vehicles, fuel delivery (POL) vehicles, heavy construction equipment and miscellaneous units. Figure 14 shows the types of vehicles purchased for all Territorial Government Departments.

A number of communities received new vehicles for the first time, which improved and modernized the services in these communities. For example, in the Baffin Region a new school bus was sent to Pangnirtung. The Fort Smith Region received a fuel delivery tank unit for Trout

Lake and a dump truck for Rae Lakes. A new fire truck was purchased for Paulatuk in the Inuvik Region.

Operations and maintenance responsibilities are achieved by providing a Maintenance Management System, training seminars for maintenance personnel, and privatizing Public Works and Highways repair garage facilities.

The implementation of the Maintenance Management System for vehicles and equipment continues to be a Departmental priority. At the annual Maintenance Management System working committee seminar, the committee members reviewed and revised the standards, and implemented an oil analysis program to support the servicing intervals of vehicles and equipment.

Communities and Regional operations were monitored for adherence to the Maintenance Management System by annual visits to each of the Areas and Regions. Training was also provided during these visits. Resident Maintenance Management Officers were hired for each Region to implement and support this program. The manual monitoring of operating costs of vehicles and equipment will be computerized.

A computer program was developed to manage the Government's vehicles and equipment capital asset inventory. It allows a unit to be identified by asset number, location and vehicle status. The asset inventory formed the base for developing a secondary program to calculate the annual operations and maintenance budget.

This Section continues to provide specific training seminars to meet the needs of vehicles and equipment maintenance staff, other Government Departments, and municipalities as requested. The Departments of Justice and Public Works and Highways jointly presented courses for the maintenance, repair, and operation of fire trucks to settlement and hamlet maintenance personnel.

This Section sponsored the annual training seminar which focussed on General Motors Company vehicle computer and fuel injection systems introduced with the 1987 models. This Section also offered three week training courses to communities for the repair, restoration, and painting of damaged body parts.

Figure 14
Types of Vehicles

Vehicle Type ¹	Number of Units	Percent (%)
Light Vehicles	62	50%
Municipal Vehicles	22	18%
Passenger Vehicles	16	12%
P.O.L. Vehicles	11	10%
Miscellaneous	8	6%
Heavy Construction Equipment	5	4%
Total	124	100%

¹NOTE: Definitions of Vehicle Types

Light Vehicles — includes pickups, crew cabs, trades vans and stake trucks under 10,000 lbs. gross vehicle weight

Municipal Vehicles — includes water delivery, sewage pickup, garbage compactors, dump trucks and stake garbage trucks.

Passenger Vehicles — includes sedans, window vans and suburbans.

P.O.L. Vehicles — includes petroleum, oil and lubricant (POL) vehicles such as fuel delivery tank trucks.

Miscellaneous — includes portable heaters, all-terrain vehicles, motor toboggans, cement mixers and portable sanders.

Heavy Construction Equipment — includes graders, front end loaders and bulldozers.

In support of the Government's Privatization Plan, this activity continues to monitor specific locations for privatization as private entrepreneurs develop in the communities. In 1986/87 feasibility studies were conducted for Iqaluit and Rankin Inlet, which were identified for possible privatization during 1987/88.

Accommodation Services

Roles and Responsibilities

The Accommodation Services Section provides Territorial Government Departments and designated Boards and Agencies with office and special purpose space by allocating available space in Government owned buildings or by leasing the required space. Leases are based upon criteria stipulated in the Expense Lease Policy, which was approved by the Executive Council in December, 1986. The Section also rents surplus space in Government owned buildings to private groups according to conditions contained in the Revenue Lease Policy, which is now being developed.

This Section reviews requests for additional space, monitors usage of space in Government owned and leased premises to ensure maximum benefit, and manages the Government's leasing arrangements. Regular inspections of leased properties are carried out to ensure landlord and tenant obligations are observed and implemented under the terms of the lease. Planning and budgeting also form a major portion of the work carried out by this Section.

The total lease budget managed by Accommodation Services in 1986/87 was \$21,700,000. Details of leases awarded in 1986/87 are provided in Appendix D. A summary of all operational leases for the 1986/87 fiscal year follows in Figure 15.

Structure

Property management functions are carried out by a headquarters unit and Regional Property Managers. Property management duties are being decentralized from Yellowknife Headquarters to the five Regional offices and the Yellowknife District office. In the spring of 1986 the Baffin, Inuvik and Fort Smith Regions and the Yellowknife District commenced management of the major portions of their leased space portfolios. By April 1987 the Keewatin and Kitikmeot Regions had staffed their property management positions and had received most of their portfolios.

Planning and Programming

A Manager of Planning and Programming commenced with the Headquarters section early in 1987 to plan office space requirements by reviewing all existing and available office space in the Northwest Territories. Once all reviews are in place, the inventories will be computerized and periodically updated internally or by contract.

The information base will be used to plan for the requirements of Government Departments, Boards and Agencies in a formalized manner and to develop those requirements in advance to facilitate proper delivery of Government programs and services. The allocation of space according to specific criteria is a prime responsibility of this position. The Facilities Programmer is responsible for the detailed review of specific sites to determine the most economic and functional use of the space.

Training

Constant training is essential in the property management field particularly as a result of increasing decentralization and privatization. One trainee position is operating at Headquarters, and as facilities and budgets per-

Figure 15
Accommodation Services Lease Summary 1986/87¹

Region	Accommodation Type	Rent	Operation & Maintenance	Tenant Improvements	Total
Headquarters	Commercial	\$ 4,763,275	\$ 2,108,662	\$ 545,159	\$ 7,417,096
	Residential	1,092,678	416,654	0	1,509,332
Fort Smith	Commercial	660,242	203,676	0	863,918
	Residential	626,163	43,550	13,500	683,213
Inuvik	Commercial	748,487	197,963	99,860	1,046,310
	Residential	498,106	234,792	9,000	741,898
Baffin	Commercial	1,001,577	366,400	30,602	1,398,579
	Residential	1,687,458	1,242,000	45,586	2,975,044
Keewatin	Commercial	281,178	87,728	11,000	379,906
	Residential	213,758	17,993	11,000	242,751
Kitikmeot	Commercial	435,468	251,119	104,829	791,416
	Residential	270,974	6,832	5,300	283,106
Total	Commercial	\$ 7,890,227	\$ 3,215,548	\$ 791,450	\$ 11,897,225
	Residential	\$ 4,389,137	\$ 1,961,821	\$ 84,386	\$ 6,435,344

¹NOTE: All amounts are estimated actual costs per annum.

mit, positions will be established in the Regional offices. The trainees will be enrolled in special courses on the operation and management of property as well as receiving instruction and direction from senior personnel.

An Accommodation Services Manual was produced in 1986 and updated in 1987. The Manual details all procedures to be followed in the provision of adequate property management services. Headquarters is responsible for informing all staff of existing and new procedures thereby ensuring a consistent application of property management throughout the Northwest Territories. An annual seminar is conducted by Headquarters to review the process and procedures as well as to inform new personnel. All Property Managers and Administrative Officers, where possible, attend.

Highlights

The activities of the Accommodation Services Section during this year included the following:

- a) Five build-to-lease office lease tender proposals were developed and implemented. These offices are to provide space for personnel under the Government of the Northwest Territories decentralization program. The offices are located in Iqaluit, Pond Inlet, Baker Lake, Eskimo Point and Coppermine.
- b) A build-to-lease staff accommodation program was also carried out as the beginning of a three year process. Most of the housing is required as a result of decentralization. Programs are completed in Iqaluit, Eskimo Point, Baker Lake, Coppermine, Hay River Reserve, Rae-Edzo, Inuvik, and Tuktoyaktuk. Housing at Fort Liard is delayed pending the acquisition of suitable land sites.
- c) The Departments of Education and Renewable Resources were assisted with major moves. Education now occupies two floors of Lahm Ridge Tower, and Renewable Resources is in three floors of Scotia Tower, both in Yellowknife.
- d) Numerous smaller moves were effected to provide adequate accommodation for the Divisions or Sections involved. Some of these were:
 - Records Management to Northway Building;
 - Science Institute to Scotia Centre;
 - Part of Department of Finance to Searle Building;
 - Women's Secretariat to Scotia Centre;
 - Arctic College headquarters to Scotia Centre;
 - Highway Transport Board/Public Utilities Board to Scotia Centre;
 - Business Development Board.

- e) Court facilities in Inuvik and Fort Smith were developed through the lease-tender process. The Fort Smith facility is complete and functioning. The Inuvik new court space is expected to be operational by July, 1987.

Decentralization

The majority of the lease portfolio for the Fort Smith, Inuvik, and Baffin Regions and Yellowknife District were disbursed to the Regions in mid 1986, with only the active negotiation files being retained at Headquarters. During the year, most of these were completed and forwarded to the Regions as suitable personnel were placed. In April, 1987 the portfolios for Kitikmeot and Keewatin were assumed by those Regions.

Privatization

In several leased premises, the Department previously accepted the responsibility of day-to-day maintenance and operation of the buildings. All new leases are written on a 'gross' basis with escalation clauses, whereby the owner is responsible for all maintenance and operation of the building. This creates employment for local persons as the owners tend to hire local people to maintain their properties. It also relieves the workload of the Department's staff. In some of the existing leases, negotiations have taken place to have the owners assume full maintenance and operational responsibility and engage their own staff.

Devolution

The Section was involved in various transferral activities resulting from the devolution from the Federal to the Territorial Government of forestry and health programs. The transfer of mobile assets, operating costs of properties and real property directly affects the Operations Division. The immediate impact on Accommodation Services is in assisting to appraise the values of properties transferred and arranging the actual transfer to the Government. The initial forestry group comprised 32 housing units located in various communities.

HIGHWAYS

Transportation Planning Division

Roles and Responsibilities

The Transportation Planning Division is a new Division created as a result of the re-organization of the Highways Division. Previously, responsibility for all forward and strategic planning with respect to transportation matters rested with the Federal Department of Indian Affairs and Northern Development. However, with the Government of the Northwest Territories gradually assuming responsibility from the Federal Government for more provincial-type activities, including roads, planning with respect to future highway transportation requirements in the Northwest Territories will now be undertaken by the Transportation Planning Division.

Highlights

The Division has been involved in the preparation of reports detailing the requirements for upgrading and periodic replacement of the existing maintenance facilities along the Inter-Territorial highways, the existing ferry camps (for operating crew accommodation and ferry maintenance), and the ferry fleet itself. The Division has also been participating in the negotiations with Federal officials to achieve transfer.

The Division also represents the Government of the Northwest Territories on a national committee to develop uniform vehicle weights and dimensions for commercial trucking across Canada. As a consequence of this work, it is anticipated that major revisions to the existing large vehicle control regulations will be undertaken in the coming year, which should relax the existing restrictions.

Traffic engineering and control, as well as analysis and evaluation of traffic counts collected by the Highway Operations Division, have been transferred to the Transportation Planning Division. Work is underway on the preparation of a manual to provide guidelines for the erection of official and other signs along public highways in the Northwest Territories.

The Northwest Territories Primary Highway System and associated ferry crossings are shown on the following Figure 16. Summary statistics on road length and usage are provided in Figure 17.

Figure 17
Northwest Territories Highways Data

Length of road:	Paved or sealed	250 km	
	Surface-treated	320 km	
	Gravel	1680 km	
Sub-total			2250 km
	Winter (public)	1200 km	
Total			3450 km

Estimate of annual road usage in the Northwest Territories: approximately 200,000,000 vehicle-km

Transportation Engineering Division

Roles and Responsibilities

Located in Yellowknife Headquarters, the Division has grown significantly over the past few years due to increasing Territorial Government responsibility for highway construction/reconstruction programs and due to the addition of three new community program responsibilities. Planning, development of standards and criteria, design and construction are conducted primarily within the Division, although there has been increasing emphasis on decentralization of community program delivery and on the use of consultants for various aspects of project management support. The Division is organized into four project management groups (Highway Programs, Community Programs, Highway Structures and Design Services) plus administration support.

The Division is involved in the following four capital program areas:

a) Highway Reconstruction Program

The Highway Reconstruction Program is in the process of a staged transfer from the Federal Government, with the final portion to be transferred during the 1987/88 fiscal year. This Program includes the planning, design and construction management of capital projects to preserve existing pavements and structures to approved standards, upgrading of existing substandard roads and structures to approved standards and, where cost-effective, providing asphaltic surfacing of roads.

New road construction remains as a Federal program responsibility with this Division involved in implementing projects on the Federal Government's behalf under the terms of an Engineering Services Agreement. These projects are detailed in the following Figure 18. Negotiations are continuing between the Territorial and Federal Governments for the turnover of responsibility for the balance of highways programs.

b) Community Access Roads

The Community Access Roads Program is currently the responsibility of the Federal Government. As part of the devolution of Federal responsibilities, Department of Public Works and Highways anticipates this program will be transferred to the Government of the Northwest Territories by April 1988. The program includes branch roads off the principal highway system to connect isolated communities such as Jean Marie River and Nahanni Butte. It also provides a community with a link to a specific destination not on the highway system for purposes such as expansion of its economic base or improvement in the quality of life of community residents.

c) Services for Client Departments of the Government of the Northwest Territories

This entails providing consultative, design and construction management to Government of the Northwest Territories client Departments and Agencies for community road, bridge, earthwork, drainage work, land development and airstrip projects in communities across the Northwest Territories. Most work in this area is on behalf of the Department of Municipal and Community Affairs under their Road Construction, Site Development, Land Development and Airports Capital Programs. Other clients include the Marine and Highway Operations Divisions, Federal Transport Canada and Territorial Economic Development and Tourism.

Figure 16
N.W.T Primary Highways and Ferries Map

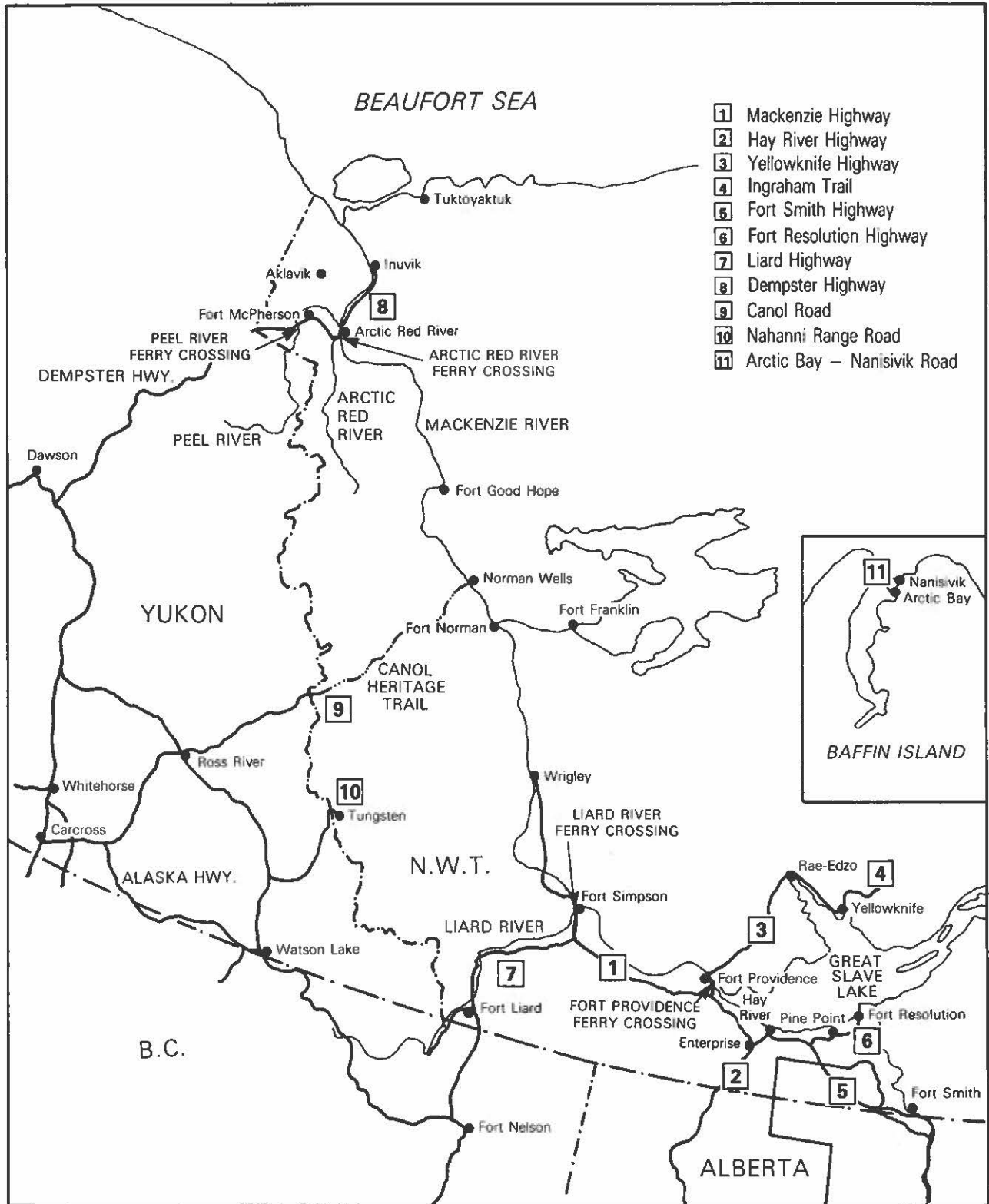


Figure 18
Expenditures on Behalf of Others

(in \$000's)

	1985/86	1986/87 ¹
Geotechnical Studies – Culvert – Dempster Highway	\$ 87	\$ 235
Snow Fence – Dempster Highway	20	–
Major Repairs – Liard Highway	188	–
Calcium Chloride Application – Various	23	14
Reconstruction – Mackenzie Highway	411	–
Land Assembly – Pangnirtung	110	–
Ferry Landing – Peel River	77	118
Modification and Conversion of MV Louis Cardinal Ferry	99	2,119
Supply/Apply Calcium Chloride – Fort McPherson	1	–
Mobile Lighting Tower – Arctic Red River	17	–
Inventory/Priority Rating System	6	17
Victor Bay Road	10	–
Repair Flood Damage – Arctic Red River	32	35
Replace Culvert – Liard Highway	432	151
Cameron River Bridge	1	14
Winter Road Bridge – Mackenzie Highway	123	–
Little Buffalo River Bridge – Fort Resolution	48	947
Pre-Engineering – Mackenzie Highway	–	9
Ferry Camp – Camsell Bend	–	32
Culvert Replacement – Dempster Highway	–	14
Embankment Repair – Escarpment Creek	–	13
Dempster Highway Km 257-286 (Inuvik Airport Road)	–	145
Culvert Replacement – Liard Highway – Km 126	–	78
Liard River Ferry Camp Construction – Fort Simpson	–	90
Grade Repairs – Hay River Highway	–	158
Grade Repairs – Mackenzie Highway – Km 0-13	–	35
Repair and Replace Culvert Couplers – Liard Highway	–	76
Install Winter Road Bridges – Mackenzie Highway	–	59
Community Access Road – Fort Resolution to Nagle Channel	–	89
Community Access Road – Little Buffalo River	–	38
Arctic Bay to Victor Bay Road	–	165
River Between Two Mountains Bailey Bridge	–	34
Martin River Bailey Bridge	–	7
Tuktoyaktuk Granular Study	–	27
Winter Gravel Haul	–	161
Ferry Infrastructure	–	263
NWT Housing Corporation – Iqaluit	15	–
Pre-Engineering – Mackenzie Highway	75	–
Mackenzie Highway – Km 15-35	180	–
Total	\$ 1955	\$ 5143

¹NOTE: Amounts are estimated actuals in thousands.

d) Priority Programs

The Government of the Northwest Territories priority funding has been allocated to various Departments for important program thrusts. In the Department of Public Works and Highways, these include the following three community programs: the construction of community wharves not otherwise accommodated as a Federal Government responsibility, stockpiling of selected granular material in remote communities to facilitate construction schedules and undertaking dust abatement in remote communities.

Highlights

Northwest Territories funded highway reconstruction projects in 1986/87 included: major structural upgrading of the Hay River Highway in preparation for repaving in 1987; replacement of the Birch Creek Bridge on the Fort Smith Highway; and completion of the Ingraham Trail upgrading to Prelude Lake. Granular production occurred in preparation for reconstruction and asphalt surfacing of the Yellowknife Highway between Rae and Edzo, for surface treatment of the Fort Smith Highway from the junction of the Fort Resolution Highway east towards the Wood Buffalo Park boundary, and for surface treatment of the Ingraham Trail from Prosperous Lake to Prelude Lake. Total expenditures for 1986/87 were approximately \$7.2 million.

The Division also managed highway reconstruction projects funded by Federal Department of Indian Affairs and Northern Development under their Northern Roads Program. Major projects included construction of the Little Buffalo River Bridge on the Fort Resolution Highway, the start of construction of the Arctic Bay-Victor Bay Road, repairs to the Dempster Highway and a variety of smaller culvert, bridge and ferry facility projects. Total expenditures by the Division on behalf of Department of Indian Affairs and Northern Development were approximately \$2.1 million.

The 1986/87 Community Wharves Program saw completion of construction of wharves at Snowdrift and Lac La Martre, start of construction at Arctic Bay and Baker Lake, a contribution for construction by the Hamlet of Broughton Island, as well as completion of pre-engineering and design studies at a number of other communities. Total expenditures for 1986/87 were \$325,000.

Under the Community Granular Program, material was stockpiled in 12 communities with engineering studies undertaken in an additional 12 communities. Total expenditures for 1986/87 were \$1.9 million.

Under the Community Dust Control Program, full scale implementation of street dust control measures was achieved in three communities. More importantly, materials and equipment were delivered to an additional 14 communities for implementation in 1987. Total expenditures for 1986 were \$730,000.

The Division also managed the design and construction of approximately 70 projects in 37 communities on behalf of the Department of Municipal and Community Affairs. The total value of work managed under the Community Road Construction, Site Development, Land Development and Airports Capital Programs totalled approximately \$4.5 million.

Highway Operations Division

Roles and Responsibilities

The Highway Operations Division was formed as a result of the recent reorganization of the Highways Division. Formerly called the Highway Maintenance Section, its objective is to maintain highways to standards that ensure safe, reliable and sure inter-community travel, consistent with anticipated levels of traffic.

Maintenance operations are divided into 14 geographic areas, known as beats. Of these, seven are currently operated by Departmental own-force personnel, with the balance by private contractors, under three-year contracts. The private contractors are responsible for some 1710 km of all-weather, winter and ice roads, with Division personnel maintaining approximately 1750 km. Two beats service the Dempster Highway, one maintains the Arctic Bay — Nanisivik Road on Baffin Island, and the other eleven are located in the southern Mackenzie area. The Fort Smith office also supervises maintenance of roads in the northern part of Alberta, leading to and within Wood Buffalo National Park.

In addition to the regular road maintenance activities, the Division undertakes other activities related to its main objective. These include minor construction tasks such as culvert replacement, gravel hauling and crushing, resurfacing, calcium chloride application for dust control, and pavement marking. These tasks are administered as contracts separate from the normal maintenance activities.

Winter road construction involves the opening of a road when sufficient snow has fallen to provide a good base, construction and removal of stream crossings where required, and continuing maintenance and patrol of the road during the operating season — normally from late December to the end of March each winter. Most of the winter roads provide access to communities remote from the all-weather road network, to which access otherwise is only available by boat or by air. Among these are Jean Marie River, Trout Lake, Lac La Martre and Rae Lakes, and (along the Mackenzie River north of Wrigley as an extension of the all-weather Mackenzie Highway) Fort Norman, Norman Wells, and Fort Franklin.

Ice roads are constructed on the frozen surface of lakes and rivers, and require testing of natural ice thickness, as well as the installation of traffic control devices, and plowing and patrolling while the road is open. These roads are also generally open to the public from late December to the end of March each winter. Included in this category are the roads from Inuvik to Tuktoyaktuk and Aklavik.

This Division also includes an Equipment Section with responsibility to manage the Divisional fleet of construction and maintenance equipment, as well as undertake equipment repairs at its Hay River workshop. This facility provides a warehouse function for various maintenance items, including equipment parts, signs, and tools.

The Highway Transport Operations Section of the Division is responsible for the management and operation of the three Government of the Northwest Territories weigh scales at Enterprise, Fort Liard and Inuvik. This section enforces the Motor Vehicle Act and Regulations, through the weigh scales and mobile highway patrols.

**Figure 19
Highway Operations Highlights**

	Private	Own-Forces	Total
No. of beats	7	7	14
All-weather road (km)	992	1,414	2,406
asphalt	—	191	191
gravel	992	1,223	2,215
Winter road (km)	442	228	670
Ice road (km)	277	107	384
Total (km)	1,711	1,749	3,460
Mtce cost/km (\$)	3,250	2,972	3,062

Contract	Volume/Length	Number of Contracts	Total Cost
Gravel hauling	78,800 m ³	3	\$ 547,600
Gravel crushing	145,000 m ³	3	921,000
Gravel resurfacing	117,300 m ³ /338.5 km	7	1,100,000
Calcium Chloride application	1,400 metric tons/340 km	1	737,000
Pavement marking	275 km	1	34,000
Total Operations and Maintenance Budget			\$ 15,741,000

**Figure 20
Ferry Highlights**

Crossing	Mackenzie River/ Fort Providence	Liard River/ Fort Simpson	Peel River/ Fort McPherson	Mackenzie River Arctic Red River	Totals
Vessel	Merv Hardie	Johnny Berens	Abraham Francis	Hay River #1/ Barge 379-6	
1986/87 Season					
Passengers	53,458	19,581	9,516	40,098	122,653
Vehicles	29,093	10,570	7,647	17,704	65,014
Gross Tonnage	262.77 tons	104.65 tons	128.22 tons	311.68 tons	807.32
Capacity					
Passengers	40	35	34	35	—
Automobiles	10	8	8	12	—
Operating Season ¹	mid-May to Jan/Feb	mid-May to October	mid-June to mid-October	mid-June to mid-October	—
Crossing Distance	1 km	0.85 km	0.43 km	1 km	—
Operating Hours	6 am to 12 pm	8 am to 12 pm	9 am to 1 am	9 am to 1 am	—

¹NOTE: Depending on ice conditions.

Highlights

The current thrusts of the Highway Operations Division include increasing the privatization of the highway maintenance activity, while at the same time encouraging the participation of native economic development corporations in this work. Extension of the winter road network to provide improved land access to more communities is also a high priority, along with keeping abreast of technical developments which may increase the effectiveness and efficiency of road maintenance efforts.

Marine Operations Division

Roles and Responsibilities

The Marine Operations Division has its headquarters in Yellowknife with field Superintendents based at Fort Simpson and Fort McPherson. It is responsible for the operation and maintenance of ferries at river crossings on the highway system for the safe and convenient passage of vehicles and pedestrians. Ferries are located at the Yellowknife Highway crossing of the Mackenzie River at Fort Providence, the Mackenzie Highway crossing of the Liard River at Fort Simpson, the Dempster Highway crossing of the Mackenzie River at Arctic Red River, and the Dempster Highway crossing of the Peel River at Fort McPherson. A fifth ferry is expected to begin operating in the near future at the Mackenzie Highway extension crossing of the Mackenzie River at Camsell Bend between Fort Simpson and Wrigley.

Highlights

The fleet carried 65,014 vehicles of all types and 122,653 passengers during 1986/87. Approximately 35 people were employed including both contracted ferry crews and management staff. Further details are provided in Figure 20.

Appendices A-D

APPENDIX A**Construction Contracts Awarded on the Basis of the Business Incentive Policy**

Location – Project General Contractor	Amount	Cost of Northern Preference
Chesterfield Inlet School Clark-Bowler Construction	\$ 2,183,954	\$ 10,056
Fort Liard School Hovat/Cavan - A Joint Venture	2,305,000	107,451
Trout Lake Airstrip Improvements Curry Construction	418,214	21,095
Rankin Inlet Student Residence Hovat/Cavan - A Joint Venture	2,270,000	78,727
Aklavik 6-Plex Roof Retrofit Unico Contractors Ltd.	37,450	1,735
Grise Fiord Water Tank Norland Construction	958,310	28,310
Total Cost of Preference		\$ 247,374

APPENDIX B**Construction, Maintenance and Service Contracts****Headquarters**

Location – Project General Contractor	Amount
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Detah

Relocate House Capital City Construction (N)	\$ 8,850
Community Office and Gym Madsens Ltd. (N)	506,484

Ingraham Trail

Silkscreen 9 Sign Faces Inkit Graphics (N)	2,290
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Long Lake Park

Campstove Installation – Erect Retaining Wall Capital City Construction (N)	8,000
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Yellowknife

Sir John Franklin School and Akaitcho Hall Roof Retrofit Christensen and McLean Roofing (S)	511,035
Major Renovations to 3rd Floor Laing Building Clark-Bowler Construction (N)	324,625
Akaitcho Hall Washroom Renovation Clark-Bowler Construction (N)	274,356
Flooring Replacement Fitzgerald Carpeting (N)	156,500
As and When Carpentry Capital City Construction (N)	181,594
As and When Electrical Independent Electrical (N)	106,825
Course On Construction Contract Administration Lucien LaFrance (S)	4,500
Servicing and Repairing 2 Blueprint Machines AM Bruning (S)	2,000
Training Program Management Lutra Associates Ltd. (N)	2,000
Trainee Aptitude Testing Northern Psychological Services (N)	2,500
Servicing and Repairing 2 Blueprint Machines Norman Wade Co. (S)	1,500
Servicing and Repairing 2 Blueprint Machines Norman Wade Co. (S)	1,500
Negotiate Lease Agreements Daren Tourigny (S)	6,255
Acoustical Assessment – Department of Education Lahm Ridge Towers HFP Acoustical Consultants (S)	2,300

Accommodation Services Manual and Seminar Daren Tourigny (S)	17,750
Revising Department of Public Works and Highways Privatization Plan Richard Bushey (S)	1,050
Development and Presentation of a One Day Seminar on Life Cycle Costing Hanscomb Consultants Inc. (S)	4,950
Roof Insulation of Bromley Building Bromley and Sons (S)	10,000
Wall and Roof Insulation and Window Replacement Bear Creek Hill Estates Ltd. (S)	5,326
Insulate Hanger/Shop Spur Aviation (S)	10,000
Improve Heating System Y.K. Auto Body (N)	8,646
Upgrade of Central Heating Plant GORF Holdings (S)	4,800
Renovations to Northern Heritage Centre Coat Room and Toponymy Office Reg Lafleur Construction (N)	2,980
Paging System Air Northwest (N)	1,545
Mobile Radio Repair Air Northwest (N)	1,300
Alarm Repair and Maintenance Arctic Alarm (N)	10,580
Alarm Monitoring Arctic Alarm (N)	1,183
Parks Maintenance Arctic Focus (N)	24,932
Welding Services – Wheel Chair Back Bay Welding (N)	5,891
Painting and Decorating Bellcon Northern (N)	54,895
Water Delivery Bromley and Sons (N)	3,150
Staff Housing Renovation Capital City Construction (N)	30,975
Sign Fabrication and Painting Capital City Construction (N)	2,333
Mine Rescue Station Repairs Capital City Construction (N)	8,750
Y.K. Centre Renovations Capital City Construction (N)	13,213
Renovations – Cunningham Capital City Construction (N)	5,750

Careers Day Booth Capital City Construction (N)	3,450	Humidification – Museum J and R Mechanical (N)	14,792
Staff House Repairs Capital City Construction (N)	7,550	Boilers – Rockhill Apartments J and R Mechanical (N)	33,788
Minor Projects – Sir John Franklin School Char Developments (N)	11,600	Air Conditioning – Laing JSL Mechanical (N)	13,950
Upgrade Executive Housing Char Developments (N)	67,165	Testing Sprinkler System JSL Mechanical (N)	6,667
Fire Alarm Service Chubb Fire Security (S)	2,775	Plumbing, Heating, Air Conditioning JSL Mechanical (N)	29,432
Renovate Nova Holdings Clark-Bowler Construction (N)	24,940	Sewage Pumpout Kavanaugh Bros. (N)	4,645
Renovation Legislative Assembly Clark-Bowler Construction (N)	3,465	Locksmithing Kelowna Lock and Safe (S)	8,488
Flooring Installation Classic Flooring (N)	12,160	Education Centre Modifications Lahm Ridge Investments (N)	2,576
Flooring – As and When Classic Flooring (N)	57,450	Office Renovations – Lahm Ridge Towers Lahm Ridge Investments (N)	1,325
Flooring – Burwash Classic Flooring (N)	24,995	Plumbing and Heating Northland Plumbing (N)	21,935
Snow Clearing Curry Construction (N)	9,825	Painting Northern Painting (N)	5,175
Sewer and Water Repair Curry Construction (N)	36,945	Painting – Keewatin Northern Painting (N)	9,865
Automotive Repairs – As and When Discovery Ford (N)	4,228	Painting – Y.K. District Office Northern Painting (N)	4,874
Paving – Sir John Franklin School Everall Construction (S)	48,828	Painting – As and When Paint North (N)	41,000
UPS Maintenance Exide Electronics (S)	7,500	Welding Service Paul Bros. Welding (N)	6,760
Flooring Installation Fitzgerald Carpeting (N)	4,750	Fumigation Pied Piper (S)	1,700
Gasfitting Frontier Mechanical (N)	31,819	Automotive Supply and Repair R. Angus Ltd. (S)	3,431
Commercial Range – Yellowknife Correctional Centre Frontier Mechanical (N)	1,434	Fire Alarm Testing Red Dawn (S)	10,750
Pipe Insulation – As and When G and E Insulation (N)	12,568	Office Renovations Ryfan Electric (N)	17,431
Heat Control Inspection Honeywell Controls (S)	14,619	Elevator Inspection Schindler Elevator (S)	3,628
Electrical Service Holmes Electric (N)	4,562	Fire Extinguishers Saftner Safety (N)	6,886
Office Renovations Hovat Construction (N)	28,990	School Clock Repair Simplex Times Equipment (S)	5,388
Fraser Pool Inspection I.S. Inspection (S)	1,500	Staff House Renovations Scorpio Development (N)	26,850
Heat Controls Johnson Controls (S)	1,776	Laing 6 Renovations Scorpio Developments (N)	7,850
Brick and Masonry J.P. Contracting (N)	11,142	Oil Burner Maintenance Steve's Oil Heating and Maintenance (N)	10,000

NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

Painting		Janitorial – Northern United Place	
Superior Painting (N)	49,850	Chinh Thai (N)	3,011
Glass Installation		Janitorial – Tapwe	
Territorial Glass (N)	24,673	Chinh Thai (N)	4,384
Glass Installation		Janitorial – Central Warehouse	
Territorial Glass (N)	23,976	Dunrite Cleanitors (N)	3,480
Glass Installation		Janitorial – Mine Rescue	
Territorial Glass (N)	11,253	Dunrite Cleanitors (N)	1,827
Windshield Repair		Janitorial – Burwash	
Territorial Glass (N)	1,472	Dunrite Cleanitors (N)	2,550
Locks – As and When		Janitorial – Dorset	
Territorial Lock (N)	7,250	Dunrite Cleanitors (N)	2,875
Painting		Janitorial – Y.K. District Office	
Territorial Painting (N)	44,545	Irvn Enterprises (N)	1,829
Painting		Janitorial – Laing	
Territorial Painting (N)	15,200	Khai Nguyen (N)	43,670
Commercial Refrigeration		Janitorial – Museum	
Territorial Refrigeration (N)	13,897	Khai Nguyen (N)	23,164
Appliance Repair		Janitorial – Rockhill	
Territorial Refrigeration (N)	10,000	M and B Industrial Cleaners (N)	1,450
Electrical		Janitorial – Dorset	
Top Electric (N)	1,993	M and B Industrial Cleaners (N)	1,240
Landfill		Janitorial – Nova II	
Two Way Enterprises (N)	11,225	M and B Industrial Cleaners (N)	2,865
Road Maintenance		Janitorial – Y.K. District Office	
Two Way Enterprises (N)	6,813	M and B Industrial Cleaners (N)	1,450
Duct Installation		Janitorial – Courthouse	
Unico Contractors (N)	3,460	Ma Ka Da Na Janitors (N)	34,742
Plumbing and Heating - As and When		Janitorial – Hodgson Building	
Witherell Plumbing (N)	74,671	Ma Ka Da Na Janitors (N)	6,549
Fireplace Installation		Janitorial – Hodgson Building	
Woodstove Shop (N)	4,600	Northwest Cleaning (N)	16,445
Dangerous Goods Containers		Janitorial – Nova II	
Woodworks (N)	8,600	Northwest Cleaning (N)	5,223
Auto Body Repairs		Janitorial – Y.K. Centre	
Y.K. Auto Body (N)	5,812	Northwest Cleaning (N)	41,704
Water Delivery		Janitorial – Y.K. District Office	
Y.K. "B" Band (N)	6,300	Tri-Kleen Enterprises (N)	3,540
Automotive Repair			
Y.K. Motors (N)	8,792		
Janitorial – As and When			
Chinh Thai (N)	9,607		
Janitorial – Keewatin			
Chinh Thai (N)	3,706		
Janitorial – Rockhill			
Chinh Thai (N)	2,709		
Janitorial – Tallah			
Chinh Thai (N)	4,095		
Janitorial – Cunningham			
Chinh Thai (N)	10,041		
		Various	
		Contracts ≤ \$1,000	
		Various	32 ea. = 18,494
			5 (S) = 3,770
			27 (N) = 14,724

Fort Smith Region

Location – Project General Contractor	Amount
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Edzo

Welding Floor Crates Sub Arctic Welding (N)	2,600
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Fort Liard

New School Hovat/Cavan (N/S)	2,305,000
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Municipal Services – Government of the Northwest Territories Buildings Fort Liard Band Council (N)	2,400
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Rewire Firehall Kiwi Electric (N)	6,500
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Fort Providence

Complex P.C.L. Constructors Northern Inc. (N)	1,118,210
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Provision and Management of Municipal Service to Staff Housing and Buildings Fort Providence Settlement Council (N)	60,000
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Janitorial Service – Area Service Office Trailer and Settlement Office Building Digaa Enterprises (N)	12,600
---	--------

Fort Resolution

Provision and Management of Water/Sewer/Garbage Service Fort Resolution Settlement Council (N)	29,106
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Re-roofing Duplex Bond-A-Ply Roofing (S)	21,105
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Emergency Sewer Repairs Deninoo School Lirette's Trucking (N)	4,500
--	-------

Backhoe Rental Carter Industries (N)	1,775
---	-------

Supply Equipment and Operator to Remove Snow Lirette's Trucking (N)	2,000
--	-------

Janitorial Services for Office Trailer Deninoo Community Council (N)	2,125
---	-------

Fort Simpson

Standby Power System Adco Power Contractors (S)	109,880
--	---------

Janitorial and Custodial Services Cindy's Cleaning (S)	14,400
---	--------

Service Refrigeration Equipment Territorial Refrigeration (N)	10,000
--	--------

Snow Removal, Hauling Black Dirt and Gravel W. Burrill and Sons (N)	8,000
--	-------

Furnace Preventative Maintenance Cedar Mechanical (S)	15,000
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Small Engines Repair and Maintenance Nahanni Sales and Service (N)	8,000
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As and When Vehicle Service and Repair A and A Service and Equipment (N)	12,000
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Fort Smith

Custodial and Janitorial Taiga Enterprises (N)	29,940
---	--------

Janitorial – Territorial Staff Housing Spotey Clean Services (N)	2,000
---	-------

Repairs To Stoves, Washers, Dryers and Dishwashers Frank's One Call (N)	5,000
--	-------

Emergency Heating Repairs to Buildings and Works Tundra Mechanical (N)	5,000
---	-------

Emergency Plumbing Repairs to Buildings and Works Tundra Mechanical (N)	5,000
--	-------

Pest Control for Territorial Government Buildings – As and When Required PCO Pied Piper (S)	5,000
---	-------

Repairs to Walk In Freezers, Fridges, Air Conditioners Frank's One Call (N)	5,000
--	-------

Provide Electrical Repairs to Buildings and Works North-Lite Electrical (N)	5,000
--	-------

Burn Old School Town of Fort Smith (N)	2,000
---	-------

Rental of Garbage Containers H and I Disposals (N)	7,170
---	-------

Body Work and Refinishing Pickup Klassic Auto Body Limited (N)	1,877
---	-------

Restore Old School Site Berton Construction (N)	1,680
--	-------

Ground Maintenance – As and When Required Gail's Turf Maintenance (N)	5,000
--	-------

Power Vac Service Northland Plumbing and Heating (N)	3,150
---	-------

Provide Labour and Materials to Make Screens Muffaloose Glass (S)	1,743
--	-------

Little Buffalo Falls Campground Development Fitz-Smith Native Development Corporation (N)	25,072
--	--------

Body Work and Refinishing Pickup Klassic Auto Body (N)	1,127
---	-------

Paint Vehicle 83-3280 Klassic Auto Body (N)	1,250
--	-------

Service Chair Lift PWK School S and B Robertson (S)	2,500
--	-------

Provide PMA Test Inspections on Fire Alarms Edwards Service (S)	15,000
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Ready Made Concrete Supply and Paving Ram Concrete (N)	3,000
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Nighwatchman Service for Arctic College Bronco Construction (S)	13,600
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NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

Renovate Department of Public Works and Highways Garage B and M Contractor (N)	55,848	Alexandra Falls Northwest Painting (N)	26,500
Snow Removal Heron's Trucking (N)	3,000	Interior Painting – Princess Alex School Northwest Painting (N)	21,467
Queen Elizabeth Campground – Water Line Installation Schaefer's Plumbing and Heating Ltd. (S)	14,975	Supply Equipment and Operator to Remove Snow Rowe's Construction (N)	3,000
Staff House Retrofit M.C.L. Enterprises (S)	17,182	Landscaping Adult Education Centre Alternate Energy (N)	1,633
Thebacha Campus, Fire Alarm Installations – Brown/Green Houses Frank's One Call (N)	25,000	Janitorial Service 4-Plex, Staff Housing, Government Buildings E and C Cleaning (N)	2,000
Minor Works, Thebacha Campus, Arctic College Borealis Construction (N)	28,500	Install Carpet Diamond Jenness School Carpet Shoppe '83 Limited (N)	2,390
Electrical Renovations – Thebacha Campus Schaefer's Electric (N)	2,881	Vehicle Inspecting, Servicing, Repairing, Welding and Towing Kingland Ford (N)	70,000
Upgrade Lighting – Uncle Gabe's Friendship Centre Frank's One Call (N)	6,980	Install #M Scotchtint Film P.F.L. Energy Control Limited (S)	3,000
Tapwe House Renovations And Fire Alarm System Frank's One Call (N)	22,500	Sewage Cleaning City of Yellowknife (N)	2,500
JBT School Minor Works Project Borealis Construction Ltd. (N)	20,748	Install Water/Sewer Services Stan Dean and Sons (N)	4,100
JBT School Minor Works Project B and M Contracting Ltd. (N)	17,000	Supply and Erect Office Complex Robinson's Trucking (N)	60,600
<hr/> Hay River <hr/>		Frost Checks on Large Buildings and Staff Housing E and C Cleaning (N)	6,600
Supply Steel Rental Garbage Cans Hay River Disposals (N)	8,304	Tow Truck Auto Body Repair Classic Autobody (S)	2,157
Emergency Plumbing Northland Plumbing (N)	5,000	Reinsulate Building Stan Dean and Sons (N)	7,877
Emergency Electrical Repair Great Slave Electrical (S)	6,000	Hot Water Heaters – Hay River Reserve School P.C.L. Constructors Northern Inc. (N)	12,588
Rental of 4 Pagers Marine Electronic (S)	1,680	<hr/> Hay River/Enterprise <hr/>	
Janitorial Service for Hay River Courthouse, Library, Department of Public Works and Highways Office E and C Cleaning (N)	34,740	Sewage Pickup From Territorial Government Buildings Keith's Water Service (N)	11,400
Provide Maintenance Service for Elevator Otis Elevator Ltd. (S)	5,763	<hr/> Hay River Reserve <hr/>	
Water Delivery Keith's Water Service (N)	22,500	Supply Janitorial Service to Band Office Hay River Dene Band (N)	7,041
Repair and Service Small Engines, Power Saws, Lawn Mowers, Etc. K and K Cycle Limited (N)	2,500	Water Pipeline Inspection Slave Divers and Survival (N)	1,500
Servicing Loader R. Angus (N)	2,200	<hr/> Jean Marie River <hr/>	
Water Delivery Service Hay River Dene Band (N)	7,500	Stain and Paint School and Teacherage Settlement of Jean Marie River (N)	1,800
Small Electric Motor Repairs B and B Electric Indust. (S)	10,000	Garbage Pickup Staff Housing and Government Buildings Jean Marie River Co-op Ltd. (N)	4,160

Lac La Martre	
Municipal Services to Territorial Government Buildings Hamlet of Lac La Martre (N)	12,360
Stain Exterior Siding – School Lac La Martre Education Comm. (N)	3,000
Lady Evelyn Falls Territorial Park	
Construction of 300 M of Park Road and Associated Campsites Northern Industries (N)	83,793
Liard Highway Weigh Scales	
Weigh Scale Pit and Prefab Building Foundation Whyte Construction (S)	82,700
Nahanni Butte	
Nahanni Butte Log School Deficiencies L.S. Webber (S)	3,200
Water Well Hookup – School Cedar Mechanical Co. (S)	10,300
Log School Deficiencies L.S. Webber (S)	4,000
Concrete Floor – 2 Bay Garage North Tech Homes and Construction Ltd. (S)	7,950
Pine Point	
Garbage Pickup at Matonabee School and Government Apartment Building Five Star Water Hauling Ltd. (N)	6,912
Janitorial Services – Government Administration Building Taylor Janitorial (N)	4,200
Supply Equipment and Operator to Remove Snow H.R. Construction Ltd. (N)	3,000
Rae	
Repairs to Sewer And Water Lines Harvey Enterprises (S)	3,306
Rae Kindergarten Renovations Jacques Harvey (S)	1,850
Tap House Removal Koyine E. and Associates (S)	1,606
Removal of Water Tap Houses Robinson's Trucking (N)	22,375
Fencing Solid Waste Site North Tech Construction (S)	15,910
Water and Sewer Extension to Senior Citizen Home Piche's Steam (S)	2,000
Rae-Edzo	
Housing Maintenance Equipment Rental Rae-Edzo Housing Association (N)	1,500
Vehicle Inspecting, Servicing, Repairing, Welding, Towing and Tire Repairs Yellowknife Motors Limited (N)	15,000

Thawing Water/Sewer Lines Piche's Steam (S)	2,000
Excavation and Materials For Sewer Main Robinson's Trucking (N)	10,000
Rae-Edzo Area	
Refrigeration Repairs Territorial Refrigeration (N)	4,000
Rental of Equipment Ron's Auto Service (N)	1,000
Rae Lakes	
Supply, Cutting And Piling of Firewood Rae Lakes Settlement Council (N)	9,750
Municipal Services To Territorial Government Building Rae Lakes Settlement Council (N)	9,724
Build Playground Equipment Community Education Committee (N)	3,000
Snare Lake	
Supply of Firewood Dechi Laoti Council (N)	21,125
Provision of Municipal Service Dechi Laoti Council (N)	6,360
Supply Gasoline, Lubricants, Kerosene Dechi Laoti Council (N)	14,070
Supply of Propane Dechi Laoti Council (N)	2,918
Transport and Disposal of UFFI Bill Jenkins Enterprise (S)	4,200
Snowdrift	
Provide Labour to Repair Buildings East Arm Construction (N)	5,000
Municipal Services to Territorial Government Buildings Lutsel K Dene Council (N)	12,133
Daily Cleaning Settlement Trailer Lutsel K Dene Council (N)	10,800
Nursing Station Renovations East Arm Construction (N)	9,728
Renovations to Staff Housing (Nursing Station) North Tech Construction (S)	23,850
Water Supply Robinson's Trucking (N)	407,158
Trout Lake	
Supply of Firewood for Teacherage Amy Mercredi (N)	2,000
Stain and Paint Exterior of School Trout Lake Dene Band (N)	3,000

NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

Whittaker Falls Campground/ Liard Ferry Crossing

Campground Signs and Log Water Tank/Firewood Shelter	
Northern Breed Logbuilders (N)	8,840

Wrigley

Water Delivery – Staff Housing and Territorial Government Buildings	
Petanea Co-op (N)	14,760
Garbage Pickup – Staff Housing and Territorial Government Buildings	
Petanea Co-op (N)	6,443

Various

Contracts ≤ \$1,000	
Various	36 ea. = 24,720
	11 (S) = 7,350
	25 (N) = 17,370

Inuvik Region

Location – Project General Contractor	Amount
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Aklavik

Site Fill and Stabilizing for Rec Complex – Phase II	
D. Storr and Sons (N)	38,900
Roof Retrofit 6-Plex	
Unico Contractors (N)	37,450
Underwater Inspection of Suction Linen	
Arctic Divers Ltd. (N)	5,700
Painting Water Treatment Plant	
Arctic Painting and Development (1985) Ltd. (N)	4,725
Supply and Install Wood Cabinets	
B.A.T. Construction (N)	3,400
Duct Work – Adult Portable Classroom	
B.A.T. Construction (N)	3,320
Ext. Upgrade #37-005	
B.A.T. Construction (N)	29,634
Minor Renovations – School	
B.A.T. Construction (N)	9,493
Demolition/Removal of Buildings	
D. Storr and Sons Contracting Ltd. (N)	18,500
Land Development	
D. Storr And Sons Contracting Ltd. (N)	49,411
Levelling of Garbage at Old Solid Waste Site	
E. Gruben's Transport Ltd. (N)	2,000
Library Carpeting Moose Kerr School	
Fitzgerald Carpeting Ltd. (N)	5,020
Insulation of Gym Floor Moose Kerr	
Fitzgerald Carpeting (N)	34,500

Hiring of Survey Helpers	
Hamlet of Aklavik (N)	4,500
Road/Site Development	
Polar Boat Building and Contracting (N)	43,320
Road/Site Development	
Tatra Leasing Ltd. (N)	44,300
As and When Carpentry and General Repairs	
Point Seven Enterprises (S)	7,000

Arctic Red River

Access Road to Sewage Lagoon	
North Star Service and Construction (N)	54,050
Road Construction	
North Star Service and Construction (N)	12,000
Minor Renovations to White School	
Polar Boat Building and Contracting (N)	1,065

Campbell Creek, Inuvik

Hiring of Survey Helpers	
Tatra Leasing Ltd. (N)	1,500
Upgrade Existing Boat Launch and Picnic Area	
Tatra Leasing Ltd. (N)	47,475

Colville Lake

Equipment Garage	
Fossil Lake Ent. (N)	21,500

Fort Franklin

Site Development – Fort Franklin School	
Arctic Ice Builders (N)	145,512
Playground Dewatering (Drainage Ditches) – Fort Franklin School	
Fort Franklin Contractors (N)	4,500
Minor Renovations – Chief Jimmy Soldat School	
Aram's Construction (N)	2,117
Overhead Door Repair	
Creative Door Services Ltd. (S)	5,000
Electrical Renovations Territorial Government Tank Farm	
Mississquoi Electric Ltd. (N)	1,028
Minor Repairs to 4-Bay Garage	
W.E. Miners Const. Ltd. (S)	1,200

Fort Good Hope

Re-roof Territorial Government Staff Houses	
Aram's Construction (N)	15,361
Renovations – Hostel	
Arctic Painting and Development (1985) Ltd. (N)	34,500
Electrical Upgrade – Staff House	
Mississquoi Electric Ltd. (N)	4,500
Levelling of Tanks and Replacement of Drain Valves	
Arctic Circle Ent. (N)	2,000

Fort McPherson

Renovation – 3 Housing Units Kirk Motors Ltd. (N)	103,278
Site Fill for Building Pad for Recreation Complex Tatra Leasing Ltd. (N)	28,000
Chief Julius School Completion B.A.T. Construction (N)	5,865
Road/Site Development D. Storr and Sons Contracting Ltd. (N)	47,380
Land Development D. Storr and Sons Contracting Ltd. (N)	66,593
Line Painting – Chief Julius School Fitzgerald Carpeting Ltd. (N)	7,000
Renovations – Adult Education Building Inuvik Construction Ltd. (N)	7,500
Assemble Playground Structure At School Mackenzie Service and Construction Ltd. (N)	3,900
Hiring of Survey Helpers Settlement of Fort McPherson (N)	4,500

Fort Norman

Minor Renovations – Chief Albert Wright School Aram's Construction (N)	7,435
Fuel Oil Tank Repairs at Colin Campbell School Fort Norman Contracting (1986) Ltd. (N)	1,300
Interior/Exterior Painting School Timberline Painting (N)	26,500

Inuvik

Heat Distribution Controls Modification Eskimo Inn Ltd. (N)	6,700
Renovations to Hanger Aklavik Air Ltd. (N)	10,000
Thermal Upgrade of Building Envelope Antler Aviation (N)	10,000
Re-insulate Floor and Duct Work Artech Services (N)	8,855
Add Insulation and Vapour Barrier Clark Dental Clinic/Lutheran Medical Services (S)	2,064
Upgrade Boiler Controls Delta Management Associates Ltd. (N)	1,841
Upgrade Windows and Doors Wagner-Ammon Development Ltd. (S)	6,363
Reinsulate Floor, Upgrade Boiler Controls 821436 N.W.T. Ltd. (N)	8,670
Renovations to Building RDR Sports (N)	10,000
Upgrade Control System of Office/Retail Building Phoenix Ltd. (S)	2,057

Building Security Aardvark Security (N)	14,800
Window Upgrade – Grollier Hall Alan Davis Construction Ltd. (N)	2,500
Fire Alarm Systems Repairs Alltron Systems Inc. (S)	2,700
Office Renovations – Renewable Resources Arctic Painting and Development (1985) Ltd. (N)	3,000
Upgrade Roofs – 300 Block Arctic Painting and Development (1985) Ltd. (N)	14,755
Refurnishing Gym Floor S.A.M.S. Arctic Painting and Development (1985) Ltd. (N)	18,318
Interior/Exterior Painting SAMS and SHSS Arctic Painting and Development (1985) Ltd. (N)	17,245
Window Replacement – 400 Block Arctic Painting and Development (1985) Ltd. (N)	42,225
Interior Painting 26 Reliance Arctic Painting and Development (1985) Ltd. (N)	2,345
As and When Tire Repair, Wheel Balance Arctic Tire (N)	2,000
Cleaning Renewable Resources Building and Game Of- fice in Rehabilitation Building Arcticlean Janitorial Services (1975) Ltd. (S)	5,734
Cleaning Northern Lights Building Arcticlean Janitorial Services (1985) Ltd. (S)	5,052
Cleaning Semmler Building Arcticlean Janitorial Services (1975) Ltd. (S)	17,080
Rental of 3/4 Ton Truck Avis Rent A Truck System (S)	5,710
Rental of 3/4 Ton Truck Avis Rent A Truck System (S)	5,000
New Entrance Door B.A.T. Construction (N)	1,886
CFS Memorial Cairn B.A.T. Construction (N)	5,848
As and When Painting B.A.T. Construction (N)	25,000
As and When Local Cartage Bellas Trucking (N)	5,000
As and When Local Cartage Bellas Trucking (N)	2,000
As and When Local Cartage Bellas Trucking (N)	5,000
As and When Welding Bob's Welding (S)	3,000
Supply/Install Gate – Chuk Park Bob's Welding (S)	3,970
Floor Repairs and Carpet Installation Canadian Arctic Contractors (N)	2,713

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As and When Flooring Installation Canadian Arctic Contractors (N)	25,000	Gravel Supply North Star Service and Construction Ltd. (N)	30,000
Electrical Upgrade – SHSS Davic Ltd. (N)	2,900	Install Burglar Alarm Northern Commercial Enterprises (S)	2,000
Weigh Scale Renovation Davic Ltd. (N)	5,000	As and When Painting Northern Lights Painting (S)	25,000
Access Door – Central Registry – Perry Building Davis Construction Ltd. (N)	5,000	As and When Equipment Rental Points North Transportation Ltd. (N)	10,000
Gym/Office Storage Renovations – SAMS Davis Construction Ltd. (N)	14,150	Automotive Shop Addition Polar Boat Building and Contracting (N)	11,000
Perry Building Renovations Davis Construction Ltd. (N)	19,200	As and When Carpentry Polar Boat Building and Contracting (N)	3,000
As and When Automotive Repairs Delta Autobody Ltd. (N)	10,000	Fill and Compact – SHSS Auto Shop Polar Boat Building and Contracting (N)	3,538
As and When Small Gas Engine/Equipment Repair Delta Ford Mercury Sales Ltd. (N)	2,000	As and When Plumbing and Heating Repair Rocky's Plumbing and Heating Ltd. (N)	5,000
Fire Alarm Preventative Edwards Service Division (S)	12,050	LTW Conversion – GNWT Buildings Rocky's Plumbing and Heating Ltd. (N)	66,980
Clean Department of Public Works and Highways Office Flo-Larry Arctic Promotions (N)	7,788	SHSS Office Construction Suna Likaa Ltd. (N)	4,111
Clean Department of Public Works and Highways Office Flo-Larry Arctic Promotions (N)	5,148	Office Renovations – Perry Building Suna Likaa Ltd. (N)	36,500
Clean Boot Lake Apartments Flo-Larry Arctic Promotions (N)	6,996	Floor Covering – GNWT Housing Suna Likaa Ltd. (N)	45,000
As and When Cleaning Staff Accommodations HTB Management Service Ltd. (N)	1,314	Upgrade Existing Porch Roofs Suna Likaa Ltd. (N)	14,686
Preventative Maintenance Program for Control Systems Honeywell Ltd. (S)	10,000	Interior Painting – GNWT Housing Timberline Painting (N)	26,000
Install Skirting S.A.M.S. Inuvik Construction Ltd. (N)	9,100	Riello Burner Installation Tundra Plumbing and Heating Ltd. (N)	1,350
Soundproofing – Semmler Building Mackenzie Service and Construction Ltd. (N)	5,000	Maintenance Repairs of Refrigeration Units Young's Refrigeration Ltd. (S)	2,000
Group Home – Renovations Mackenzie Service and Construction Ltd. (N)	6,900	Department of Public Works and Highways Office – 1038 Copier Xerox Canada Ltd. (N)	2,846
Office Renovations – Semmler Building Mackenzie Service and Construction Ltd. (N)	5,000	Old Machine – 1035 Copier Xerox Canada Ltd. (N)	2,700
Construct Garbage Bins Mackenzie Service and Construction Ltd. (N)	4,000	Projects – 1035 Copier Xerox Canada Ltd. (N)	5,994
Install New Lights and Covers – Auto Shop Mississquoi Electric Ltd. (N)	1,250	Department of Public Works and Highways 1020 Copier Xerox Canada Ltd. (N)	1,143
Installation of Set Back Thermostats Mississquoi Electric Ltd. (N)	4,200	Lab Area Complex Hovat Construction Ltd. (N)	312,988
Replacement of Corridor Lights – Boot Lake Apts. Mississquoi Electric Ltd. (N)	3,350	Inuvik Campus	
As and When Cleaning Staff Accommodations Nighthawk Janitorial Services (N)	2,000	Arctic College Hovat Construction Ltd. (N)	413,967
Supply Crushed Rock – As and When Basis North Star Service and Construction Ltd. (N)	12,000		

Norman Wells

Sewage Lift Station Clark-Bowler Construction (N)	253,483
Forcemain, Seepage Lake Sewage Treatment Facility ATA Construction (N)	434,391
Shale Landfill Adak Enterprises (S)	3,000
As and When Painting Aram's Construction (N)	15,000
Clean Metis Building Bosworth Creek Ent. (N)	18,144
Servicing Pneumatic Controls Honeywell Ltd. (S)	8,000
As and When Appliance/Electrical Repairs Mississquoi Electric Ltd. (N)	20,000
Electrical Renovations Pumphouse Mississquoi Electric Ltd. (N)	2,000
As and When Potable Water Delivery and Sewage Pumpout Reg's Service Ltd. (S)	6,480
Minor Renovations – School Whiponic Wellputer Ltd. (N)	2,180
As and When Plumbing and Heating Repair Whiponic Wellputer Ltd. (N)	2,000
3107 Copier Xerox Canada Ltd. (N)	1,185

Paulatuk

New Firehall BAT Construction Ltd. (N)	378,987
As and When Carpentry Repairs BAT Construction Ltd. (N)	8,000
Upgrade Angik School Dowland Ltd. (N)	16,750
Piling Installation – Firehall Liftech Systems (WPE) Ltd. (S)	64,850
Construction of Road to New Water Lake Paulatuk Settlement Council (N)	16,532
Road Development Paulatuk Settlement Council (N)	12,682
Road/Site Development Paulatuk Settlement Council (N)	61,526

Sachs Harbour

Painting Water Treatment Plant Arctic Painting And Development (1985) Ltd. (N)	5,985
As and When Carpentry and General Repairs FJS Construction Ltd. (N)	14,000
Painting Heater Brothers Ltd. (N)	13,969

Fire Siren Connection McDonald Brothers Electric Ltd. (N)	8,875
Relocation of Storage Shed Northern Transportation Co. (N)	3,372

Tuktoyaktuk

Solid Waste Site E. Gruben's Transport (N)	277,234
Shoreline Erosion E. Gruben's Transport (N)	1,262,240
Replace Heating System Pingo Park Lodge (S)	10,000
Emergency Roof Repairs School Unico Contractors (N)	14,392
Refurnishing Gym and Shop Floor – School Arctic Painting and Development (1985) Ltd. (N)	21,782
As and When Carpentry Repairs Dowland Ltd. (N)	15,000
Supply Gravel E. Gruben's Transport (N)	7,700
Road/Site Development E. Gruben's Transport (N)	57,405
Hiring of Survey Helpers Hamlet of Tuktoyaktuk (N)	4,500
Hiring of Gravel Checkers Hamlet of Tuktoyaktuk (N)	17,000
Reroute Stairs at School Mackenzie Service and Construction Ltd. (N)	2,800
Electrical Renovation School McDonald Brothers Electric Ltd. (N)	1,600
As and When House Appliance/Electric Repairs McDonald Brothers Electric Ltd. (N)	3,000
Electrical Upgrade School McDonald Brothers Electric Ltd. (N)	7,500
Interior Painting – School Timberline Painting (N)	7,092

Various

Contracts ≤ \$1,000	
Various	23 Ea. = 16,484
	9 (S) = 5,690
	14 (N) = 10,794

NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

Kitikmeot Region

**Location — Project
General Contractor** **Amount**

Cambridge Bay

Staff House Renovations Fred H. Ross (N)	96,800
Road Improvements — Mount Pelly Road Fred H. Ross (N)	35,000
Weld Sewage Tank For Adult Education Centre, Gjoa Haven Fred H. Ross (N)	1,400
Vehicle Maintenance Fred H. Ross (N)	65,000
Janitorial Services Jimmy Wingnek (N)	7,864
Arena Renovations Fred H. Ross (N)	965,162
Multi-Purpose Hall Fred H. Ross (N)	533,400
Supply Municipal Services Hamlet of Cambridge Bay (N)	164,764

Coppermine

Miscellaneous Renovations at School Mulco Ltd. (N)	18,791
Washroom Renovation — School Portable Coppermine General Maintenance and Contracting Ltd. (N)	17,877
Interpretive Display — Porcelain Enamel Panels Winsor Art Canada (S)	8,989
Interpretive Display — Erect Display Coppermine General Maintenance and Contracting Ltd. (N)	4,250
Group Home Door Alarms Arctic Alarms and Communications Ltd. (N)	2,433
Supply Municipal Services Hamlet of Coppermine (N)	68,107
Janitorial Services Aurbo Enterprises (N)	10,215
Access Road to Solid Waste Arctic Coast Enterprises Ltd. (N)	167,336
Land Assembly Arctic Coast Enterprises Ltd. (N)	259,582

Gjoa Haven

Gym Floor Replacement United Carpet (N)	46,651
Washroom Renovations to Adult Education Centre Inukshuk Enterprises (N)	4,950
Janitorial Services Veronica Komangat (N)	3,859

Water Treatment Plant Culligen Water Conditioning Ltd. (S)	113,000
New School Norland Construction (S)	2,204,710
Supply Municipal Services Hamlet of Gjoa Haven (N)	110,754

Holman

Fuel Tank Cleaning Beau Tuk Marine Services (S)	22,397
Hamlet Offices — Piling Northern Piling and Foundation (N)	84,600
Insulation and Siding Retrofit Hovat Construction (N)	161,364

Pelly Bay

Carpet Installation At New Duplex Fitzgerald Carpeting Ltd. (N)	10,995
Supply Municipal Services Hamlet of Pelly Bay (N)	20,771

Spence Bay

Heating Renovations — Keeveok School Frontier Mechanical (N)	98,000
Community Entrance Nu Rise Construction (N)	25,037
Supply Municipal Services Hamlet of Spence Bay (N)	58,171
Janitorial Services Palejook Eskimo Co-op (N)	3,245
Insulation and Siding Retrofit Nu Rise Construction (N)	150,047

Yellowknife

Fabrication of Four Tank Dip Platforms For Coppermine and Holman Back Bay Welding Services Ltd. (N)	2,742
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Various

Contracts ≤ \$1,000 Various	2 Ea. (N) = 1,050
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Keewatin Region

**Location – Project
General Contractor**

Amount

Baker Lake

Furnace Maintenance Baker Lake Contracting and Supplies (N)	20,540
Ongoing Building Maintenance Baker Lake Contracting and Supplies (N)	4,900
Retrofit House 26 Baker Lake Contracting and Supplies (N)	68,800
Repairs, P.O. L. Service Station Baker Lake Contracting and Supplies (N)	2,500
Level Houses 1, 5, 7, 8, 17 Baker Lake Contracting and Supplies (N)	58,500
New Roof Duplex Baker Lake Contracting and Supplies (N)	14,700
Install P.T.O. Shaft, Pump, Fuel Truck Ed Burton (N)	1,800
Carpeting Sanajit (1980) Ltd. (N)	54,594
School Alarm System Repairs Edwards (S)	4,500
Paint Interior House 37-020 Baker Lake Contracting and Supplies (N)	4,000
Clean Up Sewage Spill Baker Lake Contracting and Supplies (N)	1,200
School Showers Upgrade Keewatin Building Systems Ltd. (N)	102,410

Chesterfield Inlet

New Roofing, House 001 Kudlik Construction (N)	4,000
School Buzzer Kudlik Construction (N)	7,865
Upgrade Government Liaison Office Sanajit (1980) Ltd. (N)	47,956
New School Clark-Bowler Construction (N)	2,183,954

Churchill

Upgrade Government Liaison Office Sanajit (1980) Ltd. (N)	10,875
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Coral Harbour

Retrofit House 8 Sanajit (1980) Ltd. (N)	44,850
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Eskimo Point

Insulation, Door Replacements P and R Enterprises (S)	5,587
Provide Room and Meals The Tugalik Inn (S)	10,000

Vehicle Maintenance Don's Sales and Service (N)	11,000
P.A. System Repair, School Servo Electronics (S)	8,000
Retrofit House 9 Leonard and Associates (N)	31,220
Electrical Upgrade #171 Keewatin Building Systems (N)	4,500
School Upgrade Kudlik Construction (N)	35,600
Shelving Kudlik Construction (N)	2,645
Carpeting Leonard and Associates (N)	24,600
Paint Interior House 37-009 Leonard and Associates (N)	2,500
Water Reservoir Eskimo Point Lumber and Airport Services Ltd. (N)	933,235
Site Works – Eskimo Point School Eskimo Point Lumber Supply (N)	258,912
New Primary School Clark-Bowler Construction (N)	2,668,774

Rankin Inlet

Insulation, Heating System Upgrade Jamura Promotion and Design (N)	2,178
Upgrade Building Kivalliq Consulting and Management (N)	4,507
Renewable Resources Office Sanajit (1980) Ltd. (N)	4,000
Janitorial Services Pissuk Cleaners (N)	29,250
Reroof Units Sanajit (1980) Ltd. (N)	39,656
Diving Inspection – Williamson Lake Arctic Divers (N)	12,000
School Gym Divider Kudlik Construction (N)	25,178
Day Care Centre Keewatin Building Systems (N)	6,500
Polar Bear Cave Kudlik Construction (N)	16,838
Insulate Rowhouses Keewatin Building Systems (N)	92,500
Minor Landsite Development Hamlet – Keewatin Air (N)	1,600
Finance Office – Regional Services Office Kudlik Construction (N)	9,685

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Office Partition Keewatin Building Systems (N)	3,750
Pump Repairs – Williamson Lake Wallace, Tiernan (S)	5,000
Snow Shovelling Rankin Inlet Snow Clearing Inc. (N)	3,000
Manhole Electrical Repairs Kudlik Construction (N)	5,000
Furnace Maintenance Sanajit (1980) Ltd. (N)	64,746
K.R.E.C. Temporary Classroom Sklar Construction Ltd. (N)	324,895
Water, Sewer, Site Grading – Area 5 Tower Arctic (N)	942,000
6 Bay Parking Garage Clark-Bowler Construction (N)	431,600
New Primary School P.C.L. Constructors Northern Inc. (N)	3,541,048
Keewatin Regional Education Centre – Residence Renovation and Construction Hovat/Cavan (N/S)	2,270,000

Repulse Bay

Landskills Classroom Kudlik Construction (N)	6,560
Housing Upgrade Kudlik Construction (N)	32,193
3 Bay Maintenance Garage Arctic Alert Construction Ltd. (S)	369,000

Whale Cove

Additional Storage Kudlik Construction (N)	8,460
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Various – Keewatin Region

Alarm Systems Maintenance Simplex Ltd. (S)	7,000
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Various

Contracts ≤ \$1,000 Various	2 Ea. (N) = 1,332
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Baffin Region

Location – Project General Contractor	Amount
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Arctic Bay

Subdivision Phase I Canadrill Ltd. (N)	361,500
Wharf Construction Canadrill Ltd. (N)	117,308

Broughton Island

Fuel Storage Facility Polar Enterprises (N)	2,220,203
Supply of Granular Material and Preliminary Site Work At Fuel Storage Facility Hamlet of Broughton Island (N)	95,000
Installation of Playground Equipment Maktuyuk General Contractors (N)	13,600

Cape Dorset

Upgrade Waterline – Electrical Ekeenactumiut Electric (N)	6,200
Interior Painting – Pitseolak School Academy Enterprise (S)	63,347
Cleaning and Painting of Tank Farm Decoran Coatings Ltd. (S)	74,775
Inspection of Tank Farm Painting Rae Inspection Services (1979) Ltd. (S)	14,000
Pitseolak Point Subdivision Canadrill Ltd. (N)	301,372

Cape Dorset and Iqaluit

Inspection of Sprinkler System Grinnell Fire Protection Systems Co. Ltd. (S)	6,000
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Clyde River

Office Renovations Northern Safety Services Ltd. (N)	42,900
Office Renovations – Old School Building Northern Safety Services Ltd. (N)	5,000
Installation of Playground Equipment Maktuyuk General (N)	18,750
Emergency Standby – Quluaq School Faguy Ja and Sons Ltd. (S)	5,100

Clyde River and Pangnirtung

Clean P.O.L. Tanks Nortuk Contracting (S)	14,500
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Grise Fiord

Relocate Staff House and Storage Building Jomanic Can Inc. (N)	67,800
Tank Foundation Pad and Pipe Berm For New Water Storage Tank Jomanic Can Inc. (N)	92,300
Installation of Playground Equipment Jomanic Can Inc. (N)	32,000
Potable Water Storage Tank Norland Construction (N)	912,810
Water Tempering and Dispensing System for Potable Water Universal Industries (S)	212,340

Igloolik

Installation of Playground Equipment Igloolik Carpentry Services (S)	11,380
Renovations and Additions to School P.C.L. Constructors Northern Inc. (N)	4,492,736
Retrofit Two Units Baffin Kamutauyait Ltd. (N)	136,100

Iqaluit

Inspect, Service and Report on BTU Meters Foxboro Canada Inc. (S)	4,500
Estimating Inspection Steel Door Industries (S)	2,000
Baffin Correctional Centre – Doorlock Modifications John A. Shaw (S)	4,000
Baffin Correctional Centre – Laundry Retrofit – Mechanical J.C. Cote Construction (S)	9,732
Modification to Propane Vaporizer – Baffin Correctional Centre J.C. Cote Construction (S)	7,715
Bathroom Tub Surrounds 4-Plex Housing Units Baffin Building Systems (N)	4,647
Landscaping Children's Group Home Baffin Building Systems (N)	13,500
Minor Renovations – Brown Building Northern Safety Services Ltd. (N)	4,975
Minor Renovations – Brown Building Baffin Building Systems (N)	2,500
Group Home – Handicapped Adults Canadrill Ltd. (N)	1,500
Renovations to Federal Building Baffin Building Systems (N)	39,450
Installation of Playground Equipment Maktuyuk General (N)	14,400
Handicapped Access to Nakasuk and G.R.E.C. Schools Baffin Building Systems (N)	7,000

Handicapped Access to Nakasuk and G.R.E.C. Schools Exel Elevators (Sask.) Ltd. (S)	86,216
Baffin Correctional Centre Site Development Baffin Building Systems (N)	52,977
Minor Renovations – Baffin Correctional Centre J.C. Cote Construction (S)	1,969
Handicapped Childrens Group Home – Shelving Baffin Building Systems (N)	4,700
Install Two Dishwashers Building 441, Group Home for Handicapped Children Baffin Building Systems (N)	1,796
Jewellery Shop Renovations Baffin Building Systems (N)	3,000
Baffin Correctional Centre – Hang Punching Bag Canadrill Ltd. (N)	1,650
Floor Coverings – G.R.E.C. Baffin Building Systems (N)	16,150
Floor Coverings – Ukkivik Baffin Building Systems (N)	18,080
Repair Utilidor Cover Baffin Building Systems (N)	9,000
Oil Fired Heating Systems Maintenance Baffin Building Systems (N)	53,511
Supply and Install Alarm System, Liquor Store Thomas Associates Ltd. (N)	3,900
Cleaning of Government Buildings Northern Safety Services Ltd. (N)	72,000
Enter Phone Service Apartment Building Bell Canada (S)	13,000
Cleaning Government Staff Houses R.L. Hanson Construction Ltd. (N)	8,000
Local Cartage 86/88 R.L. Hanson Construction Ltd. (N)	7,753
Cleaning Government Staff Houses Northern Safety Services Ltd. (N)	3,000
Snow Clearing and Removal Baffin Building Systems (N)	24,342
Fire Extinguisher Maintenance A.V. Murphy General Contractors (N)	20,605
Radio Paging System Town of Iqaluit (N)	2,400
Maintenance of Honeywell Controls Honeywell Control Ltd. (S)	3,300
Heavy Equipment Rental Baffin Building Systems (N)	30,000
Floor Covering Analysis G.R.E.C. Mundo Rubber of Canada (S)	2,200
Carpentry Service Baffin Building Systems (N)	30,000

NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

Electrical Installation and Repair Service Briere and Sons (N)	45,000
Plumbing/Heating Repair Service Baffin Building Systems (N)	40,000
Appliance Repair Service Briere and Sons (N)	24,325
Gas Fitting Installation and Repair Service Baffin Building Systems (N)	6,000
Snow Removal Baffin Building Systems (N)	64,644
Auto-Bodywork and Towing Baffin Building Systems (N)	10,000
Maintenance – Fire Extinguishers and Hose Cabinets A.V. Murphy General Contractors (N)	80,000
Pneumatic Controls Training Course Honeywell Controls Ltd. (S)	12,500
Install Sewer Line Baffin Building Systems (N)	10,580
Carpentry Service Baffin Building Systems (N)	80,000
Lease of Xerox Xerox Canada (N)	1,807
Lease of Office Equipment Harvey's Office Equipment (N)	1,688
Lease of Typewriters Xerox Canada (N)	1,800
Handicapped Access Nakasuk School Exel Elevators (Sask.) Ltd. (S)	2,850
Water and Sewer Services Connections Sintra Inc. (S)	419,380
Courthouse Renovations Baffin Building Systems (N)	118,750
Nakasuk School Fire Damage Repair MNG Plastics Ltd. (S)	125,000
Security Monitoring System R.L. Hanson Construction Ltd. (N)	174,102

Iqaluit Campus

Arctic College P.C.L. Constructors Northern Inc. (N)	4,517,653
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Kekerton Island

Visitors Centre J.J. Andre (S)	21,763
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Lake Harbour

Firehall Expansion Baffin Kamutauyait Ltd. (N)	123,575
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Montreal

Undertake Electrical Systems Modifications Baffin House Briere and Sons Inc. (N)	37,000
Complete Deficiencies at Baffin House R.W. Nicholson Contracting Co. Ltd. (S)	43,345

Nanisivik

Cleaning Nanisivik Centre High Arctic Enterprises (N)	86,856
Garbage Collection Naluaq Haulage and Taxi Service (S)	8,000
Maintenance of Buildings and Works Nanisivik Mines Ltd. (S)	15,000

Nanisivik and Pond Inlet

Maintenance of Honeywell Controls Honeywell Control Ltd. (S)	30,100
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Pangnirtung

Installation of Thermistors Under Reservoir Department of Geography Queen's University (S)	5,000
Renovations to Former Hamlet Offices for Adult Education Jomanic Can Inc. (N)	67,600
Fire Alarm/Annunciation System – Attagoyuk School Edwards, Division of General Signal (S)	28,736
Visitors Centre J.J. Andre (S)	21,763
Angmarlik Visitor Ethnological Coordinator Marc Stevenson A/A Past Heritage Consultant (N)	15,500
Duval River Subdivision Tower Arctic (N)	139,839
Visitors Centre Tower Arctic (N)	530,960

Peale Point

Qaummaarviit Historic Park Site Development Northern Safety Services Limited (N)	19,500
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Pond Inlet

Water Supply Lake Improvements and Monitoring Program Hamlet of Pond Inlet (N)	4,000
New Primary School Norland Construction (S)	2,349,000

Resolute Bay

Upgrade Water/Sewer by Providing Installation of Electrical Cables Narwhal Arctic Services (N)	14,000
Vehicle Maintenance Narwhal Arctic Services (N)	5,254
Vehicle Maintenance Arctic Resources (N)	8,905

Connection Utilidor Water Service Narwhal Arctic Services (N)	6,000
Repairs to Water Treatment Plant Wilron Equipment Ltd. (S)	16,500

Sanikiluaq

Office Renovations Northern Safety Services Ltd. (N)	48,896
Inspection Diesel Generators Hewitt Equipment Ltd. (S)	35,000

Various

Various Contracts ≤\$1,000	
Various	9 Ea. = 5,199 4(S) = 2,635 5(N) = 2,564

Highways and Ferries

Location – Project General Contractor	Amount
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Aklavik

Provision of Survey Assistants Hamlet of Aklavik (N)	1,500
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All Ferries

Miscellaneous Lathe and General Machine Shop Work and Steel Fabrication – As and When Northern Arc Shipbuilders Ltd. (N)	18,575
Survey Ferry Vessels The Salvage Associates (S)	8,000

Arctic Bay

Provision of Survey Assistants Hamlet of Arctic Bay (N)	1,234
D-8 Dozer Rental Canadrill Ltd. (N)	1,300

Arctic Red River

Soils Investigation D. Storr and Sons (N)	2,980
Soils Investigation Midnight Sun Drilling Co. (S)	9,500
Haul Hay River #1 Gears Boxes From Inuvik Points North Transportation (N)	1,140

Arctic Red River Ferry

Repair Radar Scanner Maritime Services Ltd. (S)	1,500
Generator Hookup Polar Electric (S)	2,075
Rental of Loader – As and When Inuvik Inn (N)	13,000

Rental of Equipment to Assist for Haulout of Hay River #1 to Check Propellers Inuvik Inn (N)	1,025
Launch Hay River #1 and Barge 379-6 North Star Service and Construction (Inuvik) Ltd. (N)	2,120
Fabricate Two Propellers for M.V. Hay River #1 Osborne Propellers (S)	10,485
Exchange Fuel Pump and Governor Finning Tractor and Equipment Co. Ltd. (S)	3,000
Trailer Camp Relocation North Star Service and Construction (Inuvik) Ltd. (N)	23,000

Arctic Red River and Peel River Ferries

Inspect, Service and Repair Life Rafts Norm's Building Supplies (N)	3,500
Hydrostatic Testing, Inspection and Recharging Norm's Building Supplies (N)	2,950
Haul Crawler Between Ferry Camps Points North Transportation Co. Ltd. (N)	2,550
Supply of Tracked Backhoe Northern Backhoe Services (N)	12,600
Delivery of Shale and Gravel Northern Backhoe Services (N)	11,380
Haul Pit Run Gravel Inuvik Inn (N)	1,400
Installation of Panels Switch Gears and Hookup of Generator Sets Polar Electric (S)	17,446
Welding Repairs – As and When Peter's Welding (S)	18,000
General Electrical Repairs – As and When Arctic Electric (N)	14,400
Repair and Maintenance of Electronic Equipment – As and When Hemming Communications Enterprises Ltd. (S)	20,000
Repair and Maintain Equipment – As and When R. Angus Alberta Ltd. (N)	20,000
Small Engine and Equipment Repairs Delta Ford Mercury (N)	14,700
General Plumbing Maintenance and Repairs at Ferry Camps – As and When Heater Bros. Ltd. (N)	15,800
Lease of Loader for Snow Removal Rowe's Construction Ltd. (N)	4,600
Tire Repairs for Highways Marine Operation Vehicles Arctic Tire (1980) Ltd. (N)	2,500
Rental of Light Duty Trucks – As and When Delta Ford Mercury Rentals (N)	7,777

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Cleaning of Camp Laundry and Coveralls for Marine Personnel – As and When Inuvik Laundry and Drycleaning Ltd. (N)	4,500
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Arctic Red River, Liard and Fort Providence Ferry Camps

Haul and Stockpile Gravel and Shale Inuvik Inn (N)	16,600
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Arctic Red River and Peel Ferry Camps

Haul Equipment from Inuvik North Star Service and Construction Ltd. (N)	1,200
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Baker Lake

Dust Control Using Calcium Chloride Hamlet of Baker Lake (N)	9,800
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Hiring of a High Volume Sampler Technician Hamlet of Baker Lake (N)	1,200
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Wharf Construction Baker Lake Contracting and Supplies (N)	3,395
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Wharf Construction Sigyamuit Ltd. (N)	15,425
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Sewage Dumpsite Improvements and Construction of Berm S.K. Construction Ltd. (N)	7,000
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Truck Rental William Tapitai (S)	1,957
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Wharf Construction Armco-Westel (S)	3,150
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Wharf Construction Baker Lake Contracting and Supplies (N)	2,050
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Birch Creek

Birch Creek Bridge Nahanni Construction (N)	693,069
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Buffalo River Area

Highway Maintenance – Three Years Nuni(ye) (N)	2,163,347
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Cambridge Bay

Provision of Survey Assistants Hamlet of Cambridge Bay (N)	4,500
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Vehicle Rental Igloo Enterprises (N)	4,500
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Dust Control Program Fred H. Ross (N)	24,800
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Installation of Culvert Fred H. Ross (N)	2,320
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Soils Investigation Fred H. Ross (N)	2,500
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Cape Dorset

Ice Lake Diversion Hamlet of Cape Dorset (N)	9,930
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Rental of A.T.V. Polar Homes Ltd. (S)	1,800
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Provision of Survey Assistant Hamlet of Cape Dorset (N)	1,725
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Rental of Backhoe Island Equipment (S)	3,040
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Relocate Grave Sites Larabie Excavation (S)	1,200
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Provision of Survey Assistants Hamlet of Cape Dorset (N)	2,300
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Clyde River

Application of Calcium Chloride for the Purpose of Dust Control Hamlet of Clyde River (N)	2,930
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Coppermine

Upgrading Road K Arctic Coast Enterprises (N)	8,356
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Upgrading Lots 142 and 145 and Relocation of Adjacent Road Arctic Coast Enterprises (N)	8,556
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Provision of Survey Assistants Hamlet of Coppermine (N)	3,187
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Rental of Survey Vehicle Arctic Coast Enterprises (N)	3,000
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Stockpile Site Work Arctic Coast Enterprises (N)	3,000
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Guide for Granular Investigation Arctic Coast Enterprises (N)	2,500
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Relocation of NorthwesTel Communication Lines NorthwesTel (N)	17,676
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Detah

Relocate House Ted's U-Drive Ltd. (N)	157,367
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Scarification and Resurfacing of Roads Robinson's Trucking Ltd. (N)	31,805
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Dempster Highway Maintenance

Highway Maintenance – Three Years Fort McPherson Band Inc. (N)	2,044,614
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Edmonton – Hay River

Haul Equipment Grimshaw Trucking Ltd. (N)	8,200
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Edzo

Repair Gates Hovat Construction (N)	3,149
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Enterprise

Ditch Construction, Culvert Installation and Cleaning and Grubbing
Aljon Holdings (N) 4,240

Water Delivery – As and When
Keith's Water Services (S) 2,500

Install Lights and Poles
Northland Utilities (N) 1,700

Enterprise Area

Excavator Rental
Carter Industries (N) 18,620

Enterprise Beat

Loader Rental
Carter Industries (N) 1,500

Rental of Tandem Dump for Water Haul
Carter Industries (N) 12,000

Enterprise Weigh Scales

Calibrate Scales
Pacific Industrial Scales (S) 3,500

Fly Camps – Highway #1

Water Delivery
Pineview Gulf (N) 2,670

Fort Franklin

Rental of Survey Vehicle
Fort Franklin Dene Development Corp. (N) 2,450

Soils Investigation
Hamlet of Fort Franklin (N) 2,000

Fort Good Hope

Repair to Road Washout
Arctic Circle Enterprises (N) 13,396

Fort Liard

Provision of Survey Assistants
Fort Liard Band Council (N) 3,693

Fort McPherson

Application of Calcium Chloride for the Purpose of Dust Control
Settlement Council of Fort McPherson (N) 15,050

Tire Repairs – As and When
Fort McPherson Band (N) 200

Fort McPherson – Inuvik

Move Trailer
Points North (N) 2,100

Fort McPherson

Mechanical Repairs – As and When
P.R.J. Mechanics (N) 5,040

Repair Rotary Snow Blower
Finning Tractor (N) 5,000

Fort Norman

Provision of High Volume Air Sampler Technician
Hamlet of Fort Norman (N) 1,300

Reshaping of Roads and the Placement of Dust Control Palliatives
Fort Norman Contracting (1986) Ltd. (N) 18,000

Provision of Survey Assistants – As and When Required
Hamlet of Fort Norman (N) 4,000

Accommodation
Bear Lodge (N) 6,000

Meals
Fort Norman Metis Association (N) 3,360

Fort Providence

Provision of Survey Assistants
Settlement of Fort Providence (N) 4,040

Haul Road Maintenance
Settlement of Fort Providence (N) 3,000

Construction of Driveway to Renewable Resources Building
Aljon Holdings (N) 7,500

Load, Haul and Stockpile Granular Materials
Aljon Holdings (N) 63,650

Haul and Spread Water for Road Maintenance
Michael's Contracting (N) 56,000

Board and Lodging
Big River Service (N) 2,145

Construction of Driveway
Aljon Holdings (N) 8,500

Fort Providence Area

Provide Meals
Pine View (N) 2,000

Fort Providence Ferry

Water Delivery/Sewage Collection at Camp
Snowshoe Inn Ltd. (N) 3,825

Equipment Rental
Snowshoe Inn Ltd. (N) 25,750

Supply Backhoe
Robinson's Trucking (N) 14,430

Rental of Hydraulic Excavator – As and When
Stan Dean and Sons (N) 86,500

As and When Electrical Servicing and Repairs
Mackenzie Electric (N) 21,942

Dredge North and South Ferry Landings
Snowshoe Inn Ltd. (N) 4,500

NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

Labourer Service – As and When Snowshoe Inn Ltd. (N)	15,240
Carpentry Service – As and When Snowshoe Inn Ltd. (N)	10,360
Inspect and Repair M.W.M. Engines and Parts Pamco Ltd. (S)	10,000
Water Delivery/Sewage Collection Snowshoe Inn Ltd. (N)	5,000
M.W.M. Engine Inspection and Setup Pamco (S)	2,500

Fort Providence North Ferry Landing

Existing Sheetpile Walls Restoration Robinson's Trucking (N)	132,104
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Fort Providence and Liard River Ferries

Welder/Fitter Services and Repairs J and K Industries and Marine Ltd. (N)	26,558
Annual Inspection, Refit and Servicing of Liferfts Dunlop Beaufort Air Sea Equipment Canada Ltd. (S)	2,430
Service Fire Fighting Equipment Consumers Welding Supplies (N)	3,000
Annual Inspection, Refit and Servicing of Liferfts Dunlop Beaufort Air Sea Equipment Ltd. (S)	2,790

Fort Resolution

Reshaping Roads and Placement of Calcium Chloride Dust Palliative Deninoo Community Council (N)	15,345
Transport of Calcium Chloride and Material Spreader Lurette's Trucking Services Ltd. (N)	8,000
Room and Board Beaulieu's Motel (N)	2,100

Fort Simpson

Repair of Small Engines Nahanni Sales and Service (N)	3,500
Rental of Vehicles A and A Services (N)	3,100

Fort Simpson Ferry

Mechanical Service and Repair E.L. Services (S)	3,640
Supply D-5 Cat to Assist with Ferry Launch W. Burrill and Sons (S)	4,900

Fort Smith – Highway #5

Surface Treatment Rowe's Construction (N)	209,400
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Gjoa Haven

To Determine Mechanical Condition of Existing Equipment R. Angus (N)	11,000
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Provision of Survey Assistants Hamlet of Gjoa Haven (N)	2,000
Rental of Stake Truck Hamlet of Gjoa Haven (N)	2,880
Equipment Rental for Soils Investigation Hamlet of Gjoa Haven (N)	2,500

Hay River

Apartment Rental for Louis Cardinal Project Mackenzie Place (S)	2,865
Provision of Mobile Auger and Operators Mobile Augers and Research Ltd. (S)	11,950
Flagmen and Sign Installation C.N. Railways (S)	10,000
Weigh Scale Information System Support Services Rangifer Systems (N)	5,000
Equipment Rental Northern Industries (N)	1,200
Provision of Survey Assistants Hay River Dene Band (N)	2,329
West Channel Bridge Deck Repairs Chet Construction Ltd. (N)	22,500
Garbage Pickup and Sewage Pumpout – As and When Hay River Disposals (N)	1,500
Pilot Car Service – As and When Dave's Pilot Car (N)	10,000
Equipment Painting – As and When Klassic Auto Body (N)	15,000
Laundry and Drycleaning – As and When Cleanitizing (N)	4,000
Reupholster and Recover Seats – As and When King's Custom Upholstery (N)	1,200
Replace Windshields – As and When Klassic Auto Body (N)	5,000
Janitorial Services New System Homes (N)	6,000
Vehicle Rental – As and When Kingland Ford (N)	35,350
Heavy Equipment Rental – As and When Rowe's Construction Ltd. (N)	12,000
Radiator Repairs – As and When Western Radiator (S)	2,500
Apartment Rental Mackenzie Place (S)	2,490
Tire Recap – As and When Crown Tire (S)	25,000
Repair of Tachographs and Vibracorders – As and When United Diesel (S)	3,000
Repair of Fuel Injection and Air Induction Equipment – As and When United Diesel (S)	4,000

Hydraulic Component Repair – As and When Central Hydraulic (S)	2,500
Repair of Keylock Pumps – As and When W.R. Pump Service (S)	2,500
Repair of Cylinder Heads – As and When Edmonton Cast Iron (S)	1,500
Crankshaft Regrinding – As and When Gold Bar (S)	2,000
Fabricate Sign Stands Hi Signs (S)	1,449
Repair and Recharge Fire Extinguishers – As and When Consumers Welding (N)	1,000
Allison Transmission Valve Testing and Repairs – As and When Waterous G.M. (S)	4,000
Video Editing – As and When Superior Sound (N)	1,500
Repair Propane Equipment – As and When I.C.G. Liquid Gas (N)	2,000
Electrical Maintenance – As and When Mackenzie Electric (N)	15,000
Replace Safety Glass – As and When Territorial Glass (N)	2,000
Repair Traffic Counters – As and When Curlette Sales and Service (S)	5,000
Wheel Alignments and Emergency Repairs – As and When Kingland Ford (N)	2,000
Repair Cat Tracks Union Tractor (S)	3,000
Vehicle Repair Jay's Auto Body (N)	1,169
Paint Posts Arktik Painting (N)	1,050
Clear Brush from Right of Way Tu Cho Gha General Contracting (N)	4,344
Gravel Chip and Haul Stan Dean and Sons (N)	3,895
Pilot Car Service Stan Dean and Sons (N)	1,000
Pilot Car Service – As and When Stan Dean and Sons (N)	7,000
Install Radio and Antenna N.T.C.L. (N)	2,000
Install Light Bar G.T. Electronics (N)	1,820
Road/Site Land Development Rowe's Construction Ltd. (N)	33,745
Repair and Adjust Overhead Cranes Kaverit Steel and Crane (S)	2,500
Rental of Vehicles for Design and Construction Section Yellowknife Motors Ltd. (N)	88,525

Holman

Road/Site Development Hamlet of Holman (N)	9,207
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Ingraham Trail – Highway #4

Rental of Portable Generator Ventures Yamaha (N)	1,500
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Ingraham Trail

Rock Quarrying and Crushing Robinson's Trucking (N)	482,080
Spot Improvements Two Way Enterprises (N)	34,619

Inuvik

Mobile Auger Rental Midnight Sun Drilling Co. Ltd. (S)	25,000
Vehicle Rental Pluim Contracting (N)	1,500
Geotechnical Drilling Program on Airport Road Midnight Sun Drilling Co. Ltd. (S)	22,000
Vehicle Rental Pluim Contractors (N)	1,500
Welding Repairs – As and When Peters Welding (N)	2,000
Mechanical Repairs – As and When Delta Ford Mercury Sales (N)	2,000
Backhoe Rental – As and When Mackenzie Service and Construction Ltd. (N)	4,850
Supply and Apply Asphalt Mix – As and When Town of Inuvik (N)	20,000
Transport Weights Points North (N)	1,200
Electrical Service Installation Mississquoi Electric (N)	1,400

Inuvik Area

Survey Services – As and When Nordzone Consultants (N)	3,000
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Iqaluit

Hillview Subdivision Video Production Pido Productions Ltd. (N)	2,000
Trench Excavation and Geotechnical Investigation Canadrill Ltd. (N)	18,000

Jean Marie River

Preparation of Sewage Lagoon Site Community of Jean Marie River (N)	3,500
Provision of Survey Assistants Community of Jean Marie River (N)	2,500

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Land Clearing of 1.2 Hectares Community of Jean Marie River (N)	4,800
Rental of Cat Loader/Backhoe R. Angus (N)	5,500
T.V. Dish Rental Marpal Electronics (N)	1,600
Clear Brush and Trees from Airstrip Nogha Enterprises (N)	4,000

Jean Marie River and Redknife

T.V. Receiver Repair Marpal Electronics (N)	2,000
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Kakisa

Lady Evelyn Falls Campground Clearing of New Loop Road Settlement of Kakisa (N)	5,249
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Lac La Martre

LD2 Lot Development Hamlet of Lac La Martre (N)	4,200
Wharf Construction Hamlet of Lac La Martre (N)	17,500
Provide Room and Board Mai Khon Hotel (N)	7,000

Lake Harbour

Blasting of Bedrock for Community Granular Stockpile Canadrill Ltd. (N)	6,240
Road Realignment Hamlet of Lake Harbour (N)	2,500
Relocation of Telephone Line Bell Canada (S)	8,000
Quarrying for Community Granular Stockpile Canadrill Ltd. (N)	61,750
Provision of Survey Assistants Hamlet of Lake Harbour (N)	3,795
Hotel Access Road Construction Hamlet of Lake Harbour (N)	10,000

Liard Highway

Culvert Replacement KM 126 Beaver Enterprises Construction (N)	62,984
Highway Maintenance – Three Years Robinson's Trucking (N)	1,674,020

Liard Highway KM 13 and KM 101.3

Culvert Replacement Paul Fisher Construction Corp. (S)	151,505
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Liard River Ferry

Carpentry Service – As and When J and J Construction (S)	11,200
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Labourer Services – As and When J and J Construction (S)	7,200
Carpentry Work on Ferry J and J Construction (S)	5,000
Water Delivery to Ferry Camp Jack Rowe (N)	3,440
Van Rental Visa Truck Rental (S)	1,500
Electrical Servicing and Repairs – As and When Kiwi Electric (N)	15,650

Liard River Ferry Crossing

Site Formation and Camp Relocation O'Rourke Construction (S)	46,896
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Little Buffalo River

Bridge Hovat Construction (N)	922,146
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Mackenzie River Crossing at Fort Providence

North Ferry Landing Security Fences Robinson's Trucking (N)	25,000
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Mackenzie River Crossing at Arctic Red River

Conversion of M.V. Louis Cardinal Riverton Boat Works (S)	2,176,251
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Mackenzie River Crossing Near Arctic Red River

Ferry Operation for 3 Seasons – 86/87/88 Inuvik Inn (N)	1,036,525
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Norman Wells

Vehicle Rental Pluim Contractors (N)	6,000
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NWT Highway #1

River Between Two Mountains Bailey Bridge Repair Rowe's Construction (N)	27,711
Martin River Bailey Bridge Bearing Repair and Levelling Burill and Sons (N)	5,980
Winter Road Bridges Installation Rowe's Construction (N)	35,750
Testpitting Program Stan Dean and Sons (N)	9,000
Assembly of 3 Steel Girder Bridges Carter Industries (N)	12,000
Resurfacing Chet Construction Ltd. (N)	31,000
Chip Haul Chet Construction Ltd. (N)	1,944

NWT Highway #1 KM 518 to 470

Gravel Haul	
Aljon Holdings Ltd (N)	88,000

NWT Highway #1

Aggregate Crushing	
Stan Dean and Sons (N)	468,470

Resurfacing	
Rowe's Construction (N)	339,114

NWT Highway #2

Equipment Rental for Geotechnical Investigation	
Stan Dean and Sons (N)	5,000

Equipment Rental for Geotechnical Investigation	
Stan Dean and Sons (N)	5,064

Paving	
Stan Dean and Sons (N)	2,649,060

NWT Highway #2 West Channel

Resurfacing	
Rowe's Construction (N)	22,500

NWT Highway #3

Testing Program	
Two Way Enterprises (N)	15,000

White Beach Point – Granular Investigation	
Two Way Enterprises (N)	12,000

Resurfacing	
Robinson's Trucking (N)	78,370

Clear Brush from Highway Right of Way	
Hamlet of Rae-Edzo (N)	20,064

NWT Highway #3 KM 286.3 and KM 300.8

Culvert Replacement	
Curry Construction (N)	103,969

NWT Highway #4

Cameron River Bridge Emergency Work – Removal of Old Bailey Bridge	
Curry Construction (N)	1,807

Collection and Stockpiling of Shattered Rock	
Robinson's Trucking (N)	2,000

Resurfacing	
Robinson's Trucking (N)	62,063

NWT Highway #5

Granular Investigation	
Stan Dean and Sons (N)	18,000

Construct Drainage Intercept Ditch	
Stan Dean and Sons (N)	8,190

Haul Boulders	
Stan Dean and Sons (N)	1,600

Aggregate Crushing	
Robinson's Trucking (N)	93,750

NWT Highway #5 KM 6.4 to 17

Gravel Haul	
Stan Dean and Sons (N)	58,400

NWT Highway #5

Pit Run Gravel Haul and Stockpile	
Rowe's Construction (N)	348,612

NWT Highway #7

Gravel Haul	
Beaver Enterprises (N)	160,500

NWT Highway #8 – Dempster

Traffic Counting	
North Star Service and Const. (N)	4,920

Supply and Application of Calcium Chloride	
Allied Chemicals (S)	127,609

Resurfacing	
D. Storr and Sons (N)	555,711

NWT Highways 1 to 6

Line Painting	
Lafrentze Road Services Ltd. (S)	30,991

NWT Highways 1 to 7

Traffic Counting	
Aurora Video Productions (N)	21,516

Supply and Application of Calcium Chloride	
Allied Chemicals (S)	553,503

Pangnirtung

Provision of Survey Assistants	
Hamlet of Pangnirtung (N)	5,000

Peel River Ferry

Rental of D-6 Cat with Winch	
Northern Backhoe Services (N)	2,880

Rental of Equipment to Haul Winches from Inuvik	
Points North Transportation (N)	3,920

Rental of Loader to Adjust Draw Cable	
Norspan Construction Ltd. (N)	13,500

Launch Abraham Francis Ferry	
Northern Backhoe Services (N)	2,030

Service and Repair Furnaces	
Allan Dobbs (S)	7,000

Water Delivery – As and When	
Robert Alexie (S)	1,325

Sewage Pumpout at Ferry Camp	
Fort McPherson Settlement Council (N)	1,800

NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

Lease 4x4 Crewcab T.L.R. Leasing Ltd. (N)	2,400
Haul and Stockpile Gravel and Shale for Landing Nordzone Consultants (N)	4,480
Peel River Crossing Near Fort McPherson	
Ferry Operation for 3 Seasons – 86/87/88 Norspan Construction Ltd. (N)	735,500
Pelly Bay	
Road/Site Development Hamlet of Pelly Bay (N)	17,988
Pine Lake Access Road	
Resurfacing Chet Construction (N)	71,480
Pond Inlet	
Provision of Survey Assistants Hamlet of Pond Inlet (N)	1,380
Vehicle Rental Hamlet of Pond Inlet (N)	1,500
Oven Rental Toonoonik Sagoonik Co-op (N)	1,450
Provision of Survey Assistants Hamlet of Pond Inlet (N)	2,760
Soils Investigation Hamlet of Pond Inlet (N)	6,094
Screened Gravel Production Hamlet of Pond Inlet (N)	60,000
Prelude Lake	
Parking Lot Expansion Two Way Enterprises (N)	62,693
Rae	
Drilling Test Holes on Access Road Arctic West Drilling (S)	1,519
Granular Investigation Robinson's Trucking (N)	4,640
Clearing and Sign Installation Hamlet of Rae-Edzo (N)	5,575
Rae Access Road and Highway #3 Repairs Robinson's Trucking (N)	407,150
Rae-Edzo	
Provision of Survey Assistants Hamlet of Rae-Edzo (N)	7,194
Granular Investigation Two Way Enterprises (N)	15,000
Land Development Curry Construction (N)	251,449

Rae Lakes	
Provision of Labourers Settlement of Rae Lakes (N)	3,498
Supply of Material for Dock Repairs Settlement of Rae Lakes (N)	1,743
Repulse Bay	
Soils Investigation Hamlet of Repulse Bay (N)	1,500
Snare Lake	
Provision of Survey Assistants Settlement of Snare Lake (N)	2,000
Provision of Survey Assistants Settlement of Snare Lake (N)	1,500
Snowdrift	
Rental of Ford Truck – As and When Required Lutsel K'Dene Band Council (N)	7,360
Provision of Heavy Equipment Operators – As and When Required Lutsel K'Dene Band Council (N)	15,222
Soils Investigation Lutsel K'Dene Band Council (N)	2,000
Repairs for Community Wharf Lutsel K'Dene Band Council (N)	8,500
Provision of Survey Assistants Lutsel K'Dene Band Council (N)	3,693
Spence Bay	
Equipment Rental for Soils Investigation Hamlet of Spence Bay (N)	2,500
Road/Site Development Hamlet of Spence Bay (N)	4,991
Road/Site Development Fred H. Ross (N)	6,838
Trout Lake	
Airstrip Improvements Curry Construction (N)	418,214
Construction of Airport Access and Grading of New Airstrip Rowe's Construction (N)	9,200
Tuktoyaktuk	
Provision of Survey Assistants Hamlet of Tuktoyaktuk (N)	2,000
Provision of Survey Assistants Hamlet of Tuktoyaktuk (N)	2,000

Whale Cove	
Soils Investigation Hamlet of Whale Cove (N)	2,000
White Beach Point	
Gravel Haul Chet Construction (N)	400,000
Wrigley	
Land Development Deh Cho Corporation (N)	9,500
Reconstruction of Dump Access Road Deh Cho Corporation (N)	14,400
Wrigley Area	
Grader Rental Deh Cho Corporation (N)	7,062
Yellowknife	
Training Sessions for Use of Video Equipment Pido Productions (N)	3,950
Weigh Scale System Lease Rangifer Systems (N)	20,000
Installation of Mobile Radios Northern Communications and Navigation (N)	2,600
Rental of Survey Equipment for 86/87 Construction Season Northern Metallic Sales (N)	41,000
Truck Rental for Benkelman Beam Testing Age Automotive (S)	4,500
Painting of Project Signs Inkit Graphics Ltd. (N)	1,460
Rental of Vehicles for Design and Construction Division Ted's U-Drive Ltd. (N)	157,367
Terrain Analysis Course Department of Geology – University of Alberta (S)	5,190
Rental of Conference Room Yellowknife Inn (N)	1,200
Geophysical Equipment Rental Lou Cavello Consulting (S)	2,000
Sewage Pumpout – As and When Kavanaugh Bros. (N)	2,000
Welding Repairs – As and When Paul Bros. Welding (N)	2,500
Heavy Equipment Rental – As and When Two Way Enterprises (N)	30,000
Water Delivery – As and When W.B. Water Services (N)	2,500
Front End Wheel Alignment and Wheel Balances – As and When Yellowknife Motors (N)	2,500

Hydraulic Hose Repairs – As and When Bumper to Bumper (N)	1,000
Mobile Radio Repairs – As and When Northern Communications (N)	2,000
Sand and Repaint Vehicles Hak's Autobody (N)	1,300
Install Power Pole I.C.G. Utilities (N)	13,000
Clear Brush from Right of Way Yellowknife B Band (N)	18,750
Correctional Centre Access Road Widening Curry Construction (N)	27,045

Yellowknife/Edzo

Repair Overhead Doors – As and When Hovat Construction (N)	3,000
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Various Ferries

Repair, Pitch and Balance Propellers Jiren Industries Ltd. (S)	4,970
Service and Repair Kobelt Controls – As and When Kobelt Manufacturing Company Ltd. (S)	4,400
Electronic Servicing and Repairs N.T.C.L. (N)	14,609
Service and Repair Wagner Components for Vessel Steering Equipment Wagner Engineering (S)	12,000

Various Highway Camps

TA-1 Inspections R. Angus (N)	2,540
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Various Projects

Nuclear Densometer Rental M and L Testing and Equipment Company Ltd. (N)	7,641
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Various Settlements

Install Radio Components Arctic Alarm (N)	19,456
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Various

Contracts ≤ \$1,000	
Various	139 ea. = 75,687
	14 (S) = 7,439
	125 (N) = 68,248

NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

APPENDIX C**Architectural and Engineering Contracts****Headquarters**

Location – Project General Contractor	Amount
Yellowknife	
Karl Mueller Litigation Fort McPherson Water G.C.G. Dillon (N)	10,000
Akaitcho Hall Washroom Renovation Park and Associates (N)	25,000
Rainbow Valley Gym – Lot 500 Park and Associates (N)	57,000
Boat Launches – Y.K. Area Parks Ferguson, Simek, Clark (N)	17,000
Supreme Courtroom Renovations Park and Associates (N)	14,215
Standard Parks Shower Building Gino Pin Architect (N)	10,300
Renovations To Legislative Assembly Interpreter Booths and Media Area Eldred Barr Architects (N)	22,000
Correctional Centre Generator Slab Design Ferguson, Simek, Clark (N)	2,000
Office Accommodation Study Spectra Architectural Group (S)	13,920
Correctional Centre Renovations – Phase II Ferguson, Simek, Clark (N)	450,000
Program Study of Arthur Laing Building ARA Consultants (S)	9,580
Program Study for Departments of Justice and Personnel Eldred Barr Architects (N)	10,140
Interior Design and Drafting Park and Associates (N)	15,104
Engineering Services – As and When Reid Crowther and Partners (N)	22,899
Landscape Design Ross and Borowiecka (N)	2,905

Fort Smith Region

Location – Project General Contractor	Amount
Edzo	
Water Intake Pumphouse Reid, Crowther and Partners (N)	4,000
Engineering Services For Water Intake Pumphouse Reid, Crowther and Partners (N)	11,000

Enterprise

Solid Waste and Sewage Improvements Stanley Associates Engineering (N)	8,500
Drafting and Printing Services For Solid Waste Site Ferguson, Simek, Clark (N)	2,025
Engineering Services for Sewage Improvements Stanley and Associates (N)	8,500

Fort Smith

Programming Applied Science/Library Bldg. Thebacha College Eldred Barr Architects (N)	19,000
Site Survey, Student Residence Hosford, Impey, Welter and Assoc. (N)	2,976

Fort Smith Region and Keewatin Region

Roof Retrofit Program Gino Pin Architect (N)	92,000
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Hay River

Renovation/Expansion of South Mackenzie Correctional Centre John Murray Architect (N)	126,210
Renovations to Diamond Jeness School Ferguson, Simek, Clark (N)	100,000
Geotechnical Investigation – South Mackenzie Correctional Centre Thurber Consultants (N)	9,900

Hay River Reserve

Community Gym Eldred Barr Architects	63,000
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Kakisa

Lady Evelyn Falls Territorial Park Underhill Engineering (N)	17,000
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Lac La Martre		
Well/Pumphouse Facility		
Stanley and Associates (N)	94,200	

Trout Lake		
Fuel Storage Facility		
Reid, Crowther and Partners (N)	38,000	

Wrigley		
Community Gym/Offices		
Gino Pin Architect (N)	40,000	

Inuvik Region		
Location – Project	General Contractor	Amount

Aklavik		
Recreation Complex		
Eldred Barr Architects (N)	120,000	

Arctic Red River		
T'Seo Lake Intake/Pumphouse Facility		
Reid, Crowther and Partners (N)	163,400	

Community Gym		
Eldred Barr Architects (N)	65,000	

Geotechnical Work Community Gym		
Thurber Consultants (S)	9,500	

Consulting Services Firehall		
Reid, Crowther and Partners (N)	35,550	

Geotechnical Consulting Services		
Thurber Consultants (S)	11,000	

Fort Franklin		
School Site Development Services		
Ferguson, Simek, Clark (N)	28,000	

School Site Development Services		
Ferguson, Simek, Clark (N)	4,385	

Fort McPherson		
Core Area Piping Water and Sewage System Improvements		
Reid, Crowther and Partners (N)	252,430	

Geotechnical Investigation – Recreation Complex		
Thurber Consultants (S)	1,200	

Inuvik		
Arctic College – Inuvik Campus		
Eldred Barr Architects (N)	72,000	

Regional Resource Centre		
Eldred Barr Architects (N)	39,000	

G.N.W.T. Office Accommodation Study		
Eldred Barr Architects (N)	11,420	

Lab Area Complex		
Park and Associates (N)	15,000	

Lab Area Complex		
Park and Associates (N)	27,900	

Landscape Development Plan – Chuk Park		
Ross and Borowiecka (N)	14,125	

Paulatuk		
New School – Geotechnical Investigation		
Geocon Inc. (N)	52,000	

Supervision of Piling For Firehall		
FMS Lavalin/Geocon (N)	22,100	

Administration and Inspection of Construction Contract – Firehall		
Reid, Crowther and Partners (N)	30,000	

Sachs Harbour		
Recreation Complex		
Eldred Barr Architects (N)	50,000	

Geotechnical Investigation – Arena		
Thurber Consultants (S)	1,200	

Tuktoyaktuk		
Solid Waste Site		
Stanley Associates Engineering Ltd. (N)	52,400	

School Roof Retrofit		
Eldred Barr Architects (N)	20,000	

School Study		
Eldred Barr Architects (N)	25,000	

Kitikmeot Region		
Location – Project	General Contractor	

Cambridge Bay		
Community Hall		
Eldred Barr Architects (N)	1,000	

Coppermine		
Recreation Complex Renovations		
Ferguson, Simek, Clark (N)	10,450	

Gjoa Haven		
Renewable Resources Office/Warehouse		
John Murray Architects (N)	23,805	

Geotechnical Work Renewable Resources Office/Warehouse		
Thurber Consultants (S)	11,000	

New School		
Ferguson, Simek, Clark (N)	145,000	

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Pelly Bay		
Water Supply System	GCG Dillon Consulting Ltd. (N)	124,940

Spence Bay		
School Heating Modifications	GCG Dillon Consulting Ltd. (N)	1,000

Keewatin Region

Location – Project	General Contractor	Amount
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Baker Lake		
New Primary School – Geotechnical Work	Thurber Consultants (S)	25,000
Arena/Community Hall – Phase II	John Murray Architect (N)	78,000
6 Bay Parking Garage	Ferguson, Simek, Clark (N)	40,000

Baker Lake/Eskimo Point		
Evaluation Reports on Baker Lake Arena and Firehall, Hamlet Office Renovation and Arena/Community Hall in Eskimo Point	John Murray Architect (N)	6,000

Baker Lake/Rankin Inlet		
Arena Foundation Report	John Murray Architect (N)	6,600

Chesterfield Inlet		
New School	Ferguson, Simek, Clark (N)	180,000
Geotechnical Work – New School	Thurber Consultants (S)	3,500

Coral Harbour		
Recreation Complex	Eldred Barr Architects (N)	125,000
Investigation of Options to Construct Rec Complex	Eldred Barr Architects (N)	20,000

Eskimo Point		
Firehall	John Murray Architect (N)	37,000
Hamlet Office Renovation	John Murray Architect (N)	40,000
Arena Renovation	John Murray Architect (N)	22,000
Engineering Services to Raise Sewage Lagoon Berm	Reid, Crowther and Partners (N)	5,000

Geotechnical Investigation – Firehall	Thurber Consultants (S)	4,000
New School	Ferguson, Simek, Clark (N)	174,000

Rankin Inlet		
Primary School – Geotechnical Investigation	Thurber Consultants (S)	20,000
6 Bay Parking Garage	Ferguson, Simek, Clark (N)	25,000
Keewatin Regional Education Centre	Ferguson, Simek, Clark (N)	268,000
K.R.E.C. Temporary Building	Ferguson, Simek, Clark (N)	24,000
Water Supply Controls Study	U.M.A. Engineering (N)	5,980
Field Engineering Services, Tank Fram Upgrade	I.D. Engineering (S)	46,750

Repulse Bay		
New School – Geotechnical Investigation	Geocon Inc. (N)	50,250
Water Intake/Pumphouse	GCG Dillon Consulting Ltd. (N)	132,500

Whale Cove		
Hamlet Office Renovation	Park and Associates (N)	15,000

Baffin Region		
Location – Project	General Contractor	Amount
Arctic Bay		
On-site Inspection Services During Tank Farm Construction Over 3 Years	Mondry Del Zotto (S)	139,000

Baffin Region		
Roof Retrofit Program	Ferguson, Simek, Clark (N)	30,000

Broughton Island		
Warranty Inspection Water Supply System	Reid, Crowther and Partners (N)	5,000

Cape Dorset		
Recreation Complex	Ferguson, Simek, Clark (N)	130,000
Geotechnical Investigation – Arena	Thurber Consultants (S)	20,000

Grise Fiord

Engineering Services for Upgrading of Fuel Storage Facility
Stanley and Associates (N) 239,644

Hall Beach

Community Hall
John Murray Architect (N) 50,000

Community Hall Geotechnical Investigation
Geocon Inc. (N) 12,678

Iqaluit

Arctic College Site Water and Sewer Servicing
Oliver, Mangione, McCalla and Assoc. (N) 20,000

Young Offenders Secure Facility
Ferguson, Simek, Clark (N) 176,000

Iqaluit Campus and Adult Education Centre
Ferguson, Simek, Clark (N) 284,000

Lake Harbour

Structural Engineering Consulting Services Firehall
Expansion
Ferguson, Simek, Clark (N) 600

Montreal

Provide Electrical and Mechanical Engineering Services
Keith Assoc. Ltd. (S) 7,000

Pangnirtung

New Primary School – Geotechnical Investigation
Thurber Consultants (S) 50,000

Recreation Complex
Ferguson, Simek, Clark (N) 180,000

Water Reservoir – Geotechnical Consulting
Thurber Consultants (S) 20,000

Geotechnical Investigation – Arena
Thurber Consultants (S) 10,000

Design of Community Hall and Hamlet Offices
Ferguson, Simek, Clark (N) 17,601

Pond Inlet

Curling Rink Addition
Burdett Moulton Architects and Engineers (N) 60,000

Water Supply
Reid, Crowther and Partners (N) 3,500

New School
Ferguson, Simek, Clark (N) 118,000

Water Supply Improvements
Reid, Crowther and Partners (N) 36,000

Highways and Ferries

Location – Project General Contractor	Amount
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Dempster Highway #8

Grade Repairs E.B.A. Engineering (S)	17,749
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Airphoto Study Geocon Inc. (N)	5,655
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Highway Grade Repairs E.B.A. Engineering (S)	42,000
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Hay River

Construction Supervision M.V. Louis Cardinal Ferry Robert Allan Ltd. (S)	38,530
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Granular Investigation Underhill Engineering (N)	23,000
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Weigh Scale Info – System Operators Underhill Engineering (N)	31,000
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Survey Services Underhill Engineering (N)	6,000
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Drafting Services Underhill Engineering (N)	5,000
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Survey Services – As and When Underhill Engineering (N)	3,000
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Radio Communication Consultant H.N. Engineering (S)	25,000
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Review of Highway #8 Crushing Claim Corporate Construction Research and Management (S)	9,000
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Inuvik

Soils and Aggregate Testing Airport Road Hardy BBT Ltd. (S)	2,500
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Computer Aided Drafting Services – Airport Road Ferguson, Simek, Clark (N)	15,000
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NWT Highway #1

Lab Testing – Blending Sand Geocon Inc. (N)	1,000
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**NWT Highway #1 and Dempster Highway #8
Gravel Haul Pits**

Survey Services Underhill Engineering (N)	9,000
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NWT Highway #2

Pavement Rehabilitation Stanley Associates Engineering (N)	252,868
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NWT Highway #3

Mosquito Creek Bridge KM 227.2
W. Peterson Engineering Ltd. (S) 45,000

NWT Highway #3

Aggregate Testing
Hoggan Engineering (S) 5,000

Rae

Provide and Operate Marine Seismic Profiling System
Marian Lake
E.B.A. Engineering (S) 7,000

Trout Lake and Rae Access Road

Soil Sample Analysis
Geocon Inc. (N) 8,000

Tuktoyaktuk

Granular Management Plan
Hardy Associates (1978) Ltd. (S) 217,229

Various Locations

Soils and Aggregate Testing Community Granular Program
Geocon Inc. (N) 700

Soils and Aggregate Testing Community Granular Program
Hardy BBT Ltd. (S) 4,000

APPENDIX D**Leases Awarded 1986/87**

Community - Description Lessor¹	Monthly Rent²		
Yellowknife		Coral Harbour	
Office space NWT Community Services Corp. (N)	5,567	Nursing Station Hamlet of Coral Harbour (N)	733
Warehouse Whitford Holdings Ltd. (N)	1,000	Churchill	
Warehouse Whitford Holdings Ltd. (N)	550	Residential Churchill Housing Authority (N)	845
Office space Bellanca Developments Ltd. (N)	32,156	Rankin Inlet	
Office space Bellanca Developments Ltd. (N)	3,560	Residential Nunasi Corporation (N)	2,600
Office space Bellanca Developments Ltd. (N)	2,625	Residential Ilagiiktut Ltd. (N)	28,950
Office space Bellanca Developments Ltd. (N)	3,479	Eskimo Point	
Office space Bellanca Developments Ltd. (N)	5,775	Residential Inuit Non-Profit Housing (N)	828
Office space 821470 NWT Ltd. (N)	2,695	Residential Inuit Non-Profit Housing (N)	828
Office space Dene Nation (N)	4,980	Residential Paul Sabourin (N)	1,200
Residential Yellowknife Developments Ltd. (N)	4,000	Residential Sanajit (1980) Ltd. (N)	6,067
Land Mr./Mrs. McLean (N)	100	Residential Sanajit (1980) Ltd. (N)	17,096
Residential Raymond Tuccaro (N)	537	Office space Arviat Development Corp. (N)	19,765
Lac La Martre		Baker Lake	
Office space Hamlet of Lac La Martre (N)	150	Office space Qamanittuaq Development Corp. (N)	18,504
Fort Smith		Residential Enokhok Development Corp. (N)	18,652
Court space Harold and Emma Steed (N)	9,880	Holman	
Inuvik		Office space Hamlet of Holman (N)	83
Court space Hutton Properties Ltd. (N)	5,124	Coppermine	
Repulse Bay		Residential Fred H. Ross and Associates (N)	46,980
Office space Hamlet of Repulse Bay (N)	184	Office space Enokhok Development Corp. (N)	17,504
		Pond Inlet	
		Office space Tununiq Properties Ltd. (N)	10,938

¹NOTE: (N) – Indicates a registered northern business (S) – Indicates a business which does not qualify as a northern business

²All amounts are estimated actual costs per month.

Residential	
Hamlet of Pond Inlet (N)	1,000

Iqaluit

Residential	
Metis Development Corp. (N)	34,798
Residential	
Terry Pearce (N)	2,450
Residential	
Iqaluit House (N)	6,760
Office space	
Trigram Developments Ltd. (N)	12,978

Arctic Bay

Residential	
High Arctic Enterprises (N)	1,800

Cape Dorset

Residential	
Alain Carriere (N)	2,000