

**Name and Status of Reports Prepared by J.D. Mollard
and Associates Limited between 1956 and 2005**

**Data on Sand and Gravel Locations lying within
the 2005 Boundaries of the Northwest Territories, Canada**

Prepared for:

Land and Water Management Division
Northern Affairs Program / NRE
Department of Indian & Northern Affairs Canada
Room 618 - North Tower, Les Terrasses de la Chaudiere
10 Wellington Street
Gatineau, PQ K1A 0H4

Attention:

Mr Robert J. Gowan, P.Geol.
Manager, Land Programs

Prepared by:

D.G. Mollard, P.Eng.
J.D. Mollard, OC, Ph.D., LL.D., P.Eng., P.Geo.
T.A.M. Zimmer, B.Sc., Hons Dipl. (BioScience)

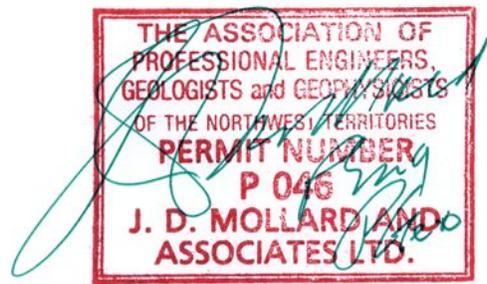
J.D. Mollard and Associates Limited
810 Avord Tower - 2002 Victoria Avenue
Regina, SK S4P 0R7

30 AUGUST 2005



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Mr Robert J. Gowan, P.Geol.
Manager, Land Programs

Troy Zimmer
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30 AUGUST 2005



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2.0	Indicate those reports undertaken for or on behalf of government 4 (Federal / Territorial / Municipal)
3.0	Indicate, where applicable, the sponsoring government department 4 or agency
4.0	Acknowledging that there may be greater limitations or restrictions 4 on the use of reports prepared for private sector clients, provide as much information as possible about the type of work, sponsor, location, and the year the report was produced.
5.0	Prepare a preliminary review report that will be used in 5 consultation with the departmental representative in determining need and priority of remaining tasks consistent with available budgets.
6.0	Indicate, where known, that report is already placed in public 5 domain (<i>e.g.</i> , available in public library or through Interlibrary Loan, or filed as part of public hearings.
7.0	Indicate any specified or other known restrictions or limitations 5 on intended use of reports.
8.0	Where necessary, attempt to obtain release from restrictions or 6 limitations and approval for use as intended (in this project).
9.0	Where possible, and when requested by the departmental representative, 6 provide on a loan basis, for indexing and scanning purposes, a single copy of any report not already available through Interlibrary Loan.
10.0	Where possible, and when requested by the departmental representative, 6 provide approximate cost of providing additional single copy of any report not already available for Interlibrary Loan.

11.0	Review, for completeness and accuracy, the existing databases provided	6
	by the departmental representative or available on-line containing information on reports by your company.	
12.0	Compile any suggested additions, revisions or deletions to above-	7
	Mentioned database in format acceptable to departmental representative.	
13.0	Identify, considering both work undertaken by your company, and also	7
	your general understanding of the overall state of knowledge, any areas for which there are significant gaps in information, particularly as related to potential pipelines in the Mackenzie Valley, associated infrastructure, and other potentially competing requirements for granular resources in the same areas.	
14.0	Provide recommendations, whether general or specific, on future work to	7
	fill data gaps and make existing information more accessible to resource managers, developers and users.	
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DATA ON SAND AND GRAVEL LOCATIONS IN THE NORTHWEST TERRITORIES

FINAL REPORT

The format for this covering report will follow the “Scope of Contract” as laid out in your **Invitation to Submit** letter dated November 29th, 2004. Accordingly, the Table of Contents for this report will follow the Scope of Contract as outlined in the above-mentioned letter.

1.0 *Identify all granular resources studies undertaken by your company (or its ancestors or affiliates) in the NWT.*

All reports prepared by J.D. Mollard and Associates Limited (JDMA) between 1956 and present, and that fall within the current boundaries of the Northwest Territories – and can be located – are listed in the accompanying spreadsheet (Table 1, Part 1). Portions of some of these reports will contain data that falls outside the present Northwest Territories (*e.g.*, in Alaska, the Yukon, or Nunavut) but are included in the spreadsheet because other portions of the pipeline or road location, *etc.*, do fall within the present NWT boundary.

Table 1 spreadsheet is divided in Part I and Part II. These are:

- a) Part I: Reports available in JDMA archives (paper copies producible); and
- b) Part II: Reports completed by JDMA but not located in our archives at this date.

2.0 *Indicate those reports undertaken for or on behalf of the government (Federal / Territorial / Municipal).*

This data is shown in the Table 1 spreadsheet.

3.0 *Indicate, where applicable, the sponsoring government department or agency.*

See Table 1 spreadsheet for this data.

4.0 *Acknowledging that there may be greater limitations or restrictions on the use of reports prepared for private sector clients, provide as much information as possible about the type of work, sponsor, location, and the year the report was produced.*

See Table 1 spreadsheet for this data.

Data we have on hand, or that we have acquired from our report clients, is shown on the Table 1 spreadsheet.

Note that many of the clients for whom we did reports in earlier years are no longer in existence.

5.0 *Prepare a preliminary review report that will be used in consultation with the departmental representative in determining need and priority of remaining tasks consistent with available budgets.*

We searched JDMA archival storage files and bins for paper copies of original office reports. Reports found are listed in Part I of the accompanying Table 1 spreadsheet. We have not yet carried out a dedicated search for the 89 reports in Part 2 of the Table 1 spreadsheet. Many of these reports will be 40 to 50 years old.

6.0 *Indicate, where known, that report is already place in public domain (e.g., available in public library or through Interlibrary Loan, or filed as part of public hearings).*

We have contacted the Arctic Institute in Calgary, AB, for any information they may have on hand regarding the status of clients for whom we did studies in the 1960s through to the 1990s (i.e., information as to whether these companies are still in existence or have been bought out by another company).

We also asked for a list of reports that they (the Arctic Institute) may have in their library that were carried out by JDMA for clients working in the NWT (1956 to present). The Arctic Institute reply forms are included in this report as Appendix 3.

Companies whom we know are still in existence were sent a letter requesting consent to place their reports in the public domain. Replies are included in Appendix 5 of this report.

7.0 *Indicate any specified or other known restrictions or limitations on intended use of reports.*

Other than the restrictions imposed by Section 6.0 replies (see above) JDMA has no knowledge of any reason why these reports should not be public domain information. Certainly our own company has no restrictions or limitations that the JDMA reports be proprietary. But, report owners will of course have the final say.

8.0 *Where necessary, attempt to obtain release from restrictions or limitations and approval for use as intended (in this project).*

This has been addressed earlier. Requests for approval were sent to all private companies listed in Part I of the Table 1 spreadsheet.

9.0 *Where possible, and when requested by the departmental representative, provide on a loan basis, for indexing and scanning purposes, a single copy of any report not already available from Interlibrary Loan.*

We have on-hand nearly all, if not all, of the fifty-four (54) reports listed in Part I of the Table 1 spreadsheet. These are JDMA office copies. Our office protocol is to not let any of our office copies leave our library. We have lost a few of our library reports this way. Alternatively, we can prepare photocopies of any of the 54 reports in our own office.

10.0 *Where possible, and when requested by the departmental representative, provide approximate cost of providing additional single copy of any report not already available through Interlibrary Loan.*

I have phoned our copying service and they have quoted approximately \$0.10 per page, scaling down from this for large amounts of copying.

You will likely wish to have PDF files prepared at your own office from the paper copies we supply. This is okay by us though we can do that as well. We expect the photocopies will be in the order of \$10 to \$15 per report, excluding our own preparation time.

11.0 *Review, for completeness and accuracy, the existing database provided by the departmental representative or available on-line containing information on reports by your company.*

If the intent of the INAC database of JDMA reports, containing gravel prospect data, is to be exclusive to the NWT, then items 3 and 4 in your INAC database list (Yukon and Nunavut reports) should be removed.

Finally, item 10 on the INAC database you sent us appears to be incomplete. It should read:

Compilation inventory of granular material resources information within Cameron Hills area, by D.G. Mollard, J.D. Mollard and Associates Limited, for Northern Affairs program (Canada), Natural Resources and Economic Development Branch, 1993.

The remaining reports listed in your database appear correct.

12.0 *Compile any suggested additions, revisions or deletions to above-mentioned database in format acceptable to departmental representative.*

See 11.0 above.

13.0 *Identify, considering both work undertaken by your company, and also your general understanding of the overall state of knowledge, any areas for which there are significant gaps in information, particularly as related to potential pipelines in the Mackenzie Valley, associated infrastructure, and other potentially competing requirements for granular resources in the same areas.*

Our feedback from non-JDMA field personnel, who have checked gravel prospects between Inuvik and Fort Good Hope, is that many of the gravel prospects checked in the field have been negative. This information will apply to prospects lying within the narrow pipeline corridor. Thus, there may be gravel reserves along this pipeline segment, but somewhat “off” the pipeline corridor itself. Nonetheless, based on what information we have (word-of-mouth only) this segment of the Mackenzie Valley Pipeline Corridor may be one of the toughest segments in terms of known aggregate resources.

14.0 *Provide recommendations, whether general or specific, on future work to fill data gaps and make existing information more accessible to resource managers, developers and users.*

14.1 Based on the current information we have regarding adequate gravel supplies for the anticipated pipeline work between Inuvik and Fort Good Hope, it may be prudent to go back and have another airphoto stereoscopic examination of this pipeline segment. But this time one would look at and map a broader band of terrain that borders the narrow pipeline corridor itself.

14.2 We think there is a good chance that we can locate paper copies of a significant number of the 89 JDMA reports listed in Part II of the Table 1 spreadsheet; this with a thorough search of our archival files now in storage on the 18th floor of our building. This may take a significant amount of time and searching but it would be well worthwhile to capture as much of this data as possible to fill in the gaps in aggregate location data in the Mackenzie Valley pipeline corridor (You may not have a budget for this at this time).

15.0 Prepare, for review by the departmental representative, a draft report.

A draft report for review by INAC personnel was submitted to Mr. Robert J. Gowan, Manager, Land Programs, in February, 2005. Changes and additions to this draft report form the final report for this project.

16.0 Summarizing work completed, results obtained and recommendations prepare a final report incorporating review comments.

This print report is considered the final report for the project.

Table 1. Name and Status of Reports prepared by J.D. Mollard and Associates Limited Between 1956 and 2005 - Data on Sand and Gravel Locations Lying Within The 2005 Boundaries of the Northwest Territories

For Indian and Northern Affairs Canada (INAC) - 30 August 2005

PART I - JDMA Reports Available in JDMA Archives (1962 - 1996)

Month	Year	Report Title	Sponsor	Contact at Sponsor Agency	Sponsor Status	Public Domain?	Any Restrictions?	JDMA Paper Copy?	JDMA Digital Copy?	Currently in INAC Database?
9	1962	Airphoto search for suitable granular materials in vicinity of Cree Lake, Sask., and Fort Providence, NWT	Government of Canada - Transportation	G.V. Sebastyan	Active	Y	N	Y	N	N
4	1963	Airphoto selection of potential airport sites in the vicinity of Hay River, NWT	Government of Canada - Transportation	V.R. Currie	Active	Y	N	Y	N	N
5	1963	Preliminary airphoto studies for selection of an airport site near Pine Point, NWT	Government of Canada - Transportation	V.R. Currie	Active	Y	N	Y	N	N
??	1970	Key maps, terrain legend and notes on field-data acquisition: Prudhoe Bay, Alaska, to Fort McMurray, Alberta	MVPLR, Ltd.	E.D. Wilson	Inactive	unknown	unknown	Y	N	N
8	1971	Report on construction materials survey along Mackenzie Valley Pipeline Research Limited pipeline route: Prudhoe Bay to 60th parallel	MVPLR, Ltd.	E.D. Wilson	Inactive	unknown	unknown	Y	N	N
9	1971	NWPSG Airphoto Terrain Mapping Legend for pipeline route study, Volume II	MVPRL, Ltd.	unknown	Inactive	unknown	unknown	Y	N	N
10	1971	Airphoto terrain mapping report for pipeline route study, Volume 1	NWPSG / MVPLR, Ltd.	unknown	Inactive	Y	N	Y	N	Y
10	1971	Summary of construction material MVPRL pipeline via Arctic coastal route	MVPLR	G. H. McDade	Inactive	unknown	unknown	Y	N	N
10	1971	Summary of construction materials along MVPLR pipeline - Prudhoe Bay to Fort McPherson	MVPLR	unknown	Inactive	Y	N	Y	N	Y
11	1971	Prefaces to Physiographic Divisions I to X	William Bros. Canada, Ltd / MVPLR, Ltd.	unknown	Inactive	Y	N	Y	N	Y
11	1971	Prefaces to Physiographic Divisions I to XIV of MVPLR pipeline	William Bros. Canada, Ltd / MVPLR, Ltd.	unknown	Inactive	unknown	unknown	Y	N	N
11	1971	Prefaces to Physiographic Divisions XI to XIV	William Bros. Canada, Ltd / MVPLR, Ltd.	unknown	Inactive	unknown	unknown	Y	N	N
4	1972	Reconnaissance study of hydrogeology of the Mackenzie River Valley Region	Environment Canada	R.L. Harlan	Active	unknown	unknown	Y	N	N
6	1972	Granular material airphoto study: Richards Island and escarpment above East Channel in vicinity of Caribou Hills	Northern Construction Co., Ltd.	P. Ellis	Active (?)	unknown	unknown	Y	N	N
6	1972	Gravel inventory: Richards Island and adjacent areas	Arctic Petroleum Operator Association / Gas Arctic /	unknown	Inactive	Y	N	Y	N	Y
9	1972	Report on July 1972 field trip Dempster Highway, NWT, Mile 278 at the Yukon-NWT boundary to M. 322 on the Peel River, NWT	Government of Canada - Public Works	R.S. Thomson	Active	Y	N	Y	N	Y
11	1973	Pipeline route in Canada north of 60° latitude	CAGSL (Arctic Gas) / Northern Engineering	unknown	Inactive	unknown	unknown	Y	N	N
2	1974	Alignment sheets and flow diagrams, interior alternative pipeline route from Prudhoe Bay to Travaillant Lake Junction via the main branch of the Canning River	Alaskan Arctic Gas Pipeline Company / Canadian Ar	unknown	Inactive	unknown	unknown	Y	N	N
7	1974	Office Airphoto Study, Yellowknife Area	Klohn Crippen Consulting	D.M. Davidson	Active	Y	N	Y	N	Y
2	1975	Office mapped airphoto study: La Martre Hydro Power project proposal	Northern Canada Power Commission	D. McIntyre	Active	unknown	unknown	Y	N	N
6	1975	Office airphoto study of transmission line route alternatives between Twin Gorges and Pine Point, NWT	Northern Canada Power Commission	D. McIntyre	Active	unknown	unknown	Y	N	N
3	1976	Airphoto search for granular prospects along #2 Highway, Fort Rae to Sunset Lake	Government of NWT - Public Works	T. Ersoy	Active	Y	N	Y	N	N
8	1977	Gravel search, Enterprise - south area	Government of NWT - Public Works	J. Bowen	Active	Y	N	Y	N	N
5	1979	Summary of terrain conditions, geotechnical considerations and river characteristics	Polargas	T.D. Neel	Inactive	unknown	unknown	Y	N	N
1	1979	Pipeline locations: "Y" pipeline locations, 56 terrain segments, Longlac, ON, and Winnipeg, MB, north to Richards Island and Arctic Islands	Polargas	T.D. Neel	Inactive	unknown	unknown	Y	N	N
7	1980	Alignment sheets published and named as "Foothills Pipe Lines Ltd." document by mapping done by JDMA	Foothills Pipe Lines Ltd. (now TCPL)	unknown	Inactive	unknown	unknown	Y	N	N
11	1983	Polargas project Mackenzie Delta to Edson; final pipeline route	Polargas	T.D. Neel	Inactive	unknown	unknown	Y	N	N
3	1984	Mineral aggregate source search, Coppermine area	Government of NWT - Public Works	P. Vician	Active	Y	N	Y	N	N
3	1984	Office airphoto search for Nahanni airstrip	Government of NWT - Public Works	P. Vician	Active	Y	N	Y	N	N
3	1984	Surface materials for Trout Lake airstrip	Government of NWT - Public Works	P. Vician	Active	Y	N	Y	N	N
10	1985	Borrow for vicinity of Snowdrift, NWT	Government of NWT - Public Works	P. Nolan	Active	Y	N	Y	N	Y
3	1986	Bedrock and granular prospects adjacent #3 Highway, km 170-237 south of Edzo	Government of NWT - Public Works	P. Vician	Active	Y	N	Y	N	N
3	1988	Airphoto interpretation to identify gravel prospects along the Mackenzie River from Fort Simpson to Wrigley	Renwick Engineering	G. Haist	Active	unknown	unknown	Y	N	N
3	1988	Information review and airphoto interpretation to locate sand, gravel and quarry prospects: km 0-74.2, Dempster Highway, NWT	Renwick Engineering	G. Haist	Active	unknown	unknown	Y	N	N
9	1988	Airphoto gravel search along #3 Highway, Fort Providence area	Renwick Engineering	G. Haist	Active	unknown	unknown	Y	N	N
9	1988	Gravel search along Liard Highway #7 between Muskeg and Blackstone Rivers	Renwick Engineering	G. Haist	Active	unknown	unknown	Y	N	N
7	1989	Phase 1 study alternative haul route and comparative evaluation, Yellowknife to Athabaska Gold Property on Nicholas Lake	Athabaskan Gold Resources, Ltd.	E.G. Kennedy	Inactive	unknown	unknown	Y	N	N
10	1992	Draft report on Izok multiple transport mode route selection and characterization from office map and airphoto study	Minnova, Inc.	K.J. Hill	unknown	unknown	unknown	Y	N	N
10	1992	Office airphoto gravel search along a shoreline zone of terrain bordering Great Slave Lake, vicinity of Yellowknife, NWT	Dept. of Indian and Northern Affairs	A. Boutillier	Active	Y	N	Y	N	N
10	1993	Compilation inventory of granular material resources within the Izok Lake transportation corridor	Dept. of Indian and Northern Affairs	S. Traynor	Active	Y	N	Y	N	Y
3	1994	Potential granular deposits and terrain analysis of selected areas in the Cameron Hills, NWT	Dept. of Indian and Northern Affairs	S. Traynor	Active	Y	N	Y	N	Y
8	1994	Compilation inventory of granular material resources information bordered by Lat. 63° and 68° and Long. 102° and 112° in NWT	Dept. of Indian and Northern Affairs	B. Gowan	Active	Y	N	Y	N	Y
1	1995	Office airphoto and route selection and terrain mapping of competing #3 Highway routes between Yellowknife and Rae, NWT	Government of NWT - Public Works	J. Bunge	Active	unknown	unknown	Y	N	N
3	1995	Compilation inventory of granular resources information bordered by latitudes 60° and 66° and longitude 96°/98° and Hudson Bay, NWT	Dept. of Indian and Northern Affairs	B. Gowan	Active	Y	N	Y	N	Y
9	1995	Remotely sensed terrain analysis and assessed impact of the existing roadway along and near the 185-km-long Prairie Creek existing winter haul route	Bruce Geotechnical Consulting, Inc.	W. Savigny	Active	unknown	unknown	Y	N	N
4	1996	Office airphoto and map study, Jericho Pipe to Lupin Mine Road, road location and terrain evaluation	Bruce Geotechnical Consulting, Inc.	W. Savigny	Active	unknown	unknown	Y	N	N
5	1996	Kimberlite Pipe 5034 study project: airphoto mapping and evaluation and infrastructure location and controls	Bruce Geotechnical Consulting, Inc.	W. Savigny	Active	unknown	unknown	Y	N	N
9	1996	Airphoto and map study - Lupin to Ulu haul routes	Echo Bay Mines, Ltd.	R.A. Cooper	Active	unknown	unknown	Y	N	N
10	1996	Office airphoto mapping of terrain conditions within City of Yellowknife limits and a 1-km-wide surrounding area, NWT	E.B.A. Engineering	E. Hoeve	Active	unknown	unknown	Y	N	N
11	1996	Compilation of most-promising airphoto mapped gravel prospect areas selected from mapping carried out by JDMA in Yellowknife area over the last 30 years	City of Yellowknife	A. Bader	Active	unknown	unknown	Y	N	N
10	1997	Office airphoto and map pre-feasibility study of a road route from Ingraham trail terminus to Exeter Lake, NWT	Expedite North, Ltd.	T. Tweed	unknown	unknown	unknown	Y	N	N
??	2001	All-weather road route selection, terrain mapping and borrow identification on alternative competing route corridors and ROWs - Izok minesite to a port on Bathurst Inlet, Nunavut	SNC-Lavalin	T. Wachmann	Active	unknown	unknown	Y	N	N
??	??	JDMA interim report on Phase 1 Izok Project; feasibility level haul route selection and terrain studies	E.B.A. Engineering	L. Dunn	Active	unknown	unknown	Y	N	N
??	??	Wide area route alignment mosaics Taglu to Edson: Notes on the pipeline field reconnaissance trip by JDMA	Polargas	T.D. Neel	Inactive	unknown	unknown	Y	N	N

PART II - Reports Known to be Completed by JDMA but not located in JDMA Archives (1957 - 1998)

Month	Year	Report Title (approximate only, may not be exact title)	Sponsor	Contact at Sponsor Agency	Sponsor Status	Public Domain?	Any Restrictions?	JDMA Paper Copy?	JDMA Digital Copy?	Currently in INAC Database?
4	1957	Grannular deposit search: Yellowknife to Fort Rae	Government of Canada - TransCanada Highway	unknown	Active	Y	N	N	N	N
6	1957	Engineering structure map, NWT	Aero Surveys Ltd.	unknown	unknown	unknown	unknown	N	N	N
7	1957	Photogeologic study for Livingstone, Armstrong Agency	Great Bear Uranium Mines Ltd.	unknown	unknown	unknown	unknown	N	N	N
10	1957	Road location and grannular material search: Birch Lake to Franks Channel, NWT	Government of Alberta - Public Works	unknown	Active	Y	N	N	N	N
10	1957	Search for grannular material: Mackenzie River near Fort Providence, NWT	Government of Alberta - Public Works	unknown	Active	Y	N	N	N	N
11	1957	Gravel materials search: Fort Fitzgerald to Bell Rock, NWT	Stanley, Grimble and Roblin, Ltd.	unknown	unknown	unknown	unknown	N	N	N
8	1958	Highway location: Great Slave to Great Bear Lake, Mile 120 to McVicar House	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N

Month	Year	Report Title	Sponsor	Contact at Sponsor Agency	Sponsor Status	Public Domain?	Any Restrictions?	JDMA Paper Copy?	JDMA Digital Copy?	Currently in INAC Database?
10	1958	Highway location: Yellowknife area	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
??	1958-9	Highway and borrow location: Enterprize to Fort Providence and onto Rae/Edzo and Yellowknife, NWT	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
??	1958-9	Winter road location: Great Slave Lake to Great Bear Lake, NWT	Government of Alberta - Public Works	unknown	Active	Y	N	N	N	N
10	1961	Gravel search: Mackenzie Highway	Government of Canada - Engineering Development	unknown	Active	Y	N	N	N	N
3	1962	Gravel search: Grimshaw to Pine Point, NWT	Canadian National Railways	unknown	Active	unknown	unknown	N	N	N
3	1962	Gravel search: Pine Point Railway	Evans Construction Ltd.	unknown	unknown	unknown	unknown	N	N	N
4	1962	Gravel search: Fort Simpson, NWT	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
5	1962	Highway location: Fort Simpson, NWT, to Fort Nelson, BC	Government of Alberta - Public Works	unknown	Active	Y	N	N	N	N
??	1962	Highway location: Fort Nelson, BC, to Fort Simpson, NWT	Government of Alberta - Public Works	unknown	Active	Y	N	N	N	N
??	1962	Highway location: Fort Providence to Fort Simpson, NWT	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
2	1963	Gravel search: Fort Providence to Fort Simpson, NWT	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
8	1963	Gravel search: Klewi River to Pine Point, NWT	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
??	1963	Transmission line route location: Hay River to Pine Point, NWT	Stanley, Grimble and Roblin, Ltd.	unknown	unknown	unknown	unknown	N	N	N
??	1969	Interim report on high-altitude aerial photography terrain interpretation: Northwest Pipe Line Project: Prudhoe Bay to lat 60° 00' and long 122° 00'	William Bros. Canada Ltd.	unknown	Inactive	Y	N	N	N	Y
1	1970	Pipeline location: Prudhoe Bay to Arctic Red River, NWT	William Bros. Canada Ltd.	unknown	Inactive	unknown	unknown	N	N	N
12	1970	Highway location: Fort McPherson to Inuvik, NWT (Dempster Highway)	Northern Construction Co.	unknown	Active (?)	unknown	unknown	N	N	N
??	1970	Field reconnaissance along pipeline corridor	William Bros. Canada Ltd.	unknown	Inactive	unknown	unknown	N	N	N
??	1970	Highway route and borrow location: Richardson Mountains, Yukon, to Fort McPherson and Inuvik, NWT (Dempster Highway)	Northern Engineering Services, Ltd.	unknown	unknown	unknown	unknown	N	N	N
1	1971	Highway location: Fort McPherson to Inuvik, NWT	Northern Construction Co.	unknown	Active (?)	unknown	unknown	N	N	N
8	1971	Highway location: Hay River, NWT, to Edmonton, AB	MVPRL Ltd.	unknown	Inactive	unknown	unknown	N	N	N
9	1971	Gravel study: Tuktoyaktuk area, NWT	Associated Engineering Services, Ltd.	unknown	unknown	unknown	unknown	N	N	N
9	1971	Pipeline location: Prudhoe Bay to Fort McPherson, NWT	MVPRL Ltd.	unknown	Inactive	unknown	unknown	N	N	N
10	1971	Highway location: Mackenzie Highway to Dempster Highway, NWT	Government of Alberta - Public Works	unknown	Active	Y	N	N	N	N
11	1971	Highway location: Richardson Mountains area	Union Oil Company of Canada, Ltd.	unknown	unknown	unknown	unknown	N	N	N
12	1971	Pipeline location: Prudhoe Bay to northern Alberta through NWT	NWPSG	unknown	Inactive	unknown	unknown	N	N	N
??	1971	Highway route location: Edmonton, Alberta, to Hay River, NWT	MVPRL, Ltd.	unknown	Inactive	unknown	unknown	N	N	N
??	1971	Highway route selection and borrow search: Dawson City, Yukon, to Arctic Red River, NWT (Dempster Highway)	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
??	1971	Interim report, terrain-legend sheets, and interpretive soil-group and ice-phase columnar profiles	NWPSG	unknown	Inactive	Y	N	N	N	Y
??	1971	Pipeline route and borrow locations: Dead Horse, south of Prudhoe Bay, through the Brooks Range to Old Woman Creek and Howling Dog, AL, to Old Crow and Rat River Pass	MVPRL, Ltd.	unknown	Inactive	unknown	unknown	N	N	N
??	1971	Summary of construction material sources along Northwest Project Study Group proposed pipeline route: Sans Sault Rapids to Northwest Territories-Alberta boundary, west side	William Bros. Canada Ltd. / NWPSG	unknown	Inactive	Y	N	N	N	Y
??	1971	Summary of construction-material sources along Northwest Project Study Group proposed pipeline route: Fort McPherson to Sans Sault Rapids, N.W.T.	William Bros. Canada Ltd. / NWPSG	unknown	Inactive	Y	N	N	N	Y
??	1971-2	Pipeline route for Canadian Arctic Gas	Williams Bros. / Northern Engineering Services / Ten	unknown	Inactive	unknown	unknown	N	N	N
1	1972	Pipeline Study, NWT area	William Bros. Canada Ltd.	unknown	Inactive	unknown	unknown	N	N	N
1	1972	Pipeline study: Inuvik area, NWT	MVPRL Ltd.	unknown	Inactive	unknown	unknown	N	N	N
4	1972	Gravel study: Dempster Highway area, NWT	Government of Canada - Public Works	unknown	Active	Y	N	N	N	N
7	1972	Gravel search: Mackenzie Delta area	Imperial Oil Ltd.	unknown	unknown	unknown	unknown	N	N	N
9	1972	Pipeline study: Liard River to 60th Parallel, NWT	Templeton Engineering Co., Ltd.	unknown	unknown	unknown	unknown	N	N	N
10	1972	Gravel study: Richards Island / Caribou Hills Escarpment, NWT	Northern Engineering Services, Ltd.	unknown	unknown	unknown	unknown	N	N	N
??	1972	Airphoto terrain mapping for pipeline route study: Volume III	MVPRL, Ltd.	unknown	Inactive	Y	N	N	N	Y
??	1972	Gravel and bedrock borrow prospects, Physiographic Division XVI (Elliot Creek to Richards Island and Travaillant Lake to the NWT/Yukon border)	CAGSL (Arctic Gas)	unknown	Inactive	Y	N	N	N	Y
??	1972	Gravel inventory survey, Richards Island and adjacent areas	MVPRL, Ltd.	unknown	Inactive	Y	N	N	N	Y
??	1972	Gravel study: Fort Simpson to Fort Good Hope, NWT	Pemcan Services	unknown	unknown	unknown	unknown	N	N	N
1	1973	Pipeline study: NWT and Yukon areas	Northern Engineering Services, Ltd.	unknown	unknown	unknown	unknown	N	N	N
7	1973	Gravel study: Fort Good Hope to Arctic Red River, NWT	E.H. Brooker and Associates Ltd.	unknown	unknown	unknown	unknown	N	N	N
??	1973?	Map of provisional physiographic divisions and chart showing a first appraisal of dominant terrain conditions along Polar Gas Project alternative pipeline route corridors for preliminary	PolarGas	unknown	Inactive	Y	N	N	N	Y
??	1974	Airphoto gravel search: Liard River to Chinchaga River along Proposed CAGSL pipeline location - Final Report	Northern Engineering Services, Ltd.	unknown	unknown	Y	N	N	N	Y
??	1974	Report on 1974 drilling program: Mackenzie Valley Pipeline study	Northern Engineering Services, Ltd.	unknown	unknown	Y	N	N	N	Y
2	1975	Pipeline location: Ebbut Hills to Mackenzie Delta, NWT	MVPRL Ltd.	unknown	Inactive	unknown	unknown	N	N	N
3	1975	Pipeline location: Fort Simpson to Ebbut Hills, NWT	MVPRL Ltd.	unknown	Inactive	unknown	unknown	N	N	N
5	1975	Fort Providence Haul Road, NWT	Arctic Navigation & Transportation Ltd.	unknown	unknown	unknown	unknown	N	N	N
8	1975	Gravel study: Rae to Tibbet Lake, NWT	Government of NWT - Public Works	unknown	Active	Y	N	N	N	N
10	1975	Highway location: Hay Indian River to Taglu to Parsons Lake, NWT	Northern Engineering Services, Ltd.	unknown	unknown	unknown	unknown	N	N	N
??	1975	Airphoto terrain mapping legend for pipeline route study: Volume IIA	Northern Engineering Services, Ltd.	unknown	unknown	Y	N	N	N	Y
??	1975	Highway route location, NWT	Arctic Navigation & Transportation Ltd.	unknown	unknown	unknown	unknown	N	N	N
??	1975	Road route location: Taglu on Richards Island to Parsons Lake, NWT	Northern Engineering Services, Ltd.	unknown	unknown	unknown	unknown	N	N	N
2	1976	Gravel study: Rae and Tibbets Lake area, NWT	Government of NWT - Highways	unknown	Active	Y	N	N	N	N
4	1978	Pipeline study: Lynn Lake to Coppermine, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
5	1978	Pipeline study: Richards Island to Coppermine, NWT, to Longlac, ON	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
11	1978	Pipeline location: Mackenzie Delta lateral to Sitidgi Lake to White Sandy River and northwest of Itchin Lake, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
11	1978	Pipeline locations: Winnipeg, MB, to Richards Island, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
2	1979	Pipeline location: east of Franklin Mountains from Sitidgi Lake, NWT, to High Level, AB, and from Coppermine to Fort Norman and the 60th Parallel, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
3	1979	Pipeline location: Lynn Lake, MB, to NWT border, and the Coppermine tie to the Mackenzie River north of Fort Norman, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
3	1979	Pipeline location: north end of Sitidgi Lake to Fort Providence, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
3	1979	Pipeline locations: east Franklin, Sitidgi Lake, Fort Norman, Taglu, AB, to NWT and Longlac, ON	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
4	1979	Soil survey for access road: Sierra-Yoho	Thurber Consultants	unknown	unknown	unknown	unknown	N	N	N
6	1979	Pipeline locations: Great Bear River, Fort Reliance, Rockinghorse Lake, Longlac to Inuvik, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
7	1979	Gravel study: Longlac, ON, to Inuvik via Lac la Martre, NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
9	1979	Pipeline locations and gravel study: Inuvik, Norman Wells, Taglu, East Franklin route, Fort Reliance, Eskimo Lakes, Great Bear Lake	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
??	1979-83	Muti-pipeline route and associated gravel location studies - several dozen (probably over 50) pipeline route and gravel studies that crisscross the NWT	PolarGas	unknown	Inactive	unknown	unknown	N	N	N
8	1984	Gravel search: Coppermine, Nahanni Butte and Trout Lake, Fort Good Hope and Taglu, NWT	Government of NWT - Public Works	unknown	Active	Y	N	N	N	N
3	1986	Gravel study: Edzo, NWT	Government of NWT - Public Works	unknown	Active	Y	N	N	N	N
3	1986	Gravel study: Fort Providence, NWT	Government of NWT - Public Works	unknown	Active	Y	N	N	N	N
9	1988	Grannular material inventory: Fort Providence area, NWT	Renwick Engineering	unknown	Active	unknown	unknown	N	N	N
5	1989	Winter road route: Yellowknife to Nicholas Lake, NWT	Athabasca Gold Resource Ltd.	unknown	Inactive	unknown	unknown	N	N	N
4	1993	Winter haul route: Izok pre-feasibility study of alternative winter routes	Minnova Inc.	unknown	unknown	unknown	unknown	N	N	N

Month	Year	Report Title	Sponsor	Contact at Sponsor Agency	Sponsor Status	Public Domain?	Any Restrictions?	JDMA Paper Copy?	JDMA Digital Copy?	Currently in INAC Database?
9	1993	Route and granular material study Phase 2: along Izok winter road, NWT	Metall Mining Corp.	unknown	unknown	unknown	unknown	N	N	N
??	1993	Northern road, pipeline and rail (alternative) route and borrow location from Izok Mine to Arctic ports near Coppermine and Tree River, and to Bathurst Inlet, Yellowknife and Rae	E.B.A. Engineering Consultants	unknown	Active	unknown	unknown	N	N	N
5	1994	Winter route study: Izok Lake to Arctic port	E.B.A. Engineering Consultants	unknown	Active	unknown	unknown	N	N	N
10	1994	Compilation of granular resources information within the Izok Lake / Cameron Hills regions, NWT	Dept. Indian and Northern Affairs	unknown	Active	Y	N	N	N	N
??	1995	Alternative winter road routes from Ulu Mine to Lupin Mine, NWT	Lupin Mine Company	unknown	unknown	unknown	unknown	N	N	N
??	1995	Road and site locations: Jericho Diamond Mine, NWT	Bruce Geotechnical Consultants	unknown	Active	unknown	unknown	N	N	N
??	1998	Alternative highway route and borrow location: three alternative routes from Yellowknife to Lac de Gras diamond area	unknown	unknown	unknown	unknown	unknown	N	N	N

APPENDIX 1, 2 and 2A

COMPANIES NOT LISTED ON THE INTERNET

PRIVATE COMPANIES WHO HAVE BEEN SENT RELEASE FORMS

STATUS OF COMPANIES CONTACTED FOR PERMISSION
TO RELEASE JDMA REPORTS TO PUBLIC DOMAIN



APPENDIX 1

Companies Not Listed On the Internet

- PolarGas
- Mackenzie Valley Pipeline Research Limited (MVPRL)
- William Brothers [Calgary]
- Northern Engineering Services [Calgary]
- Arctic Petroleum Operators, Inc.
- Foothills Pipeline Company [now owned by TCPL)
- Alaska Arctic Gas Pipeline Company
- Canadian Arctic Gas Pipelines, Ltd.
- Northern Construction Co., Ltd.

APPENDIX 2

Private Companies Who Were Sent Release Forms

- TransCanada PipeLines (TCPL)
- SNC-Lavalin
- EBA Engineering [Yellowknife]
- Bruce Geotechnical Consultants, Inc.
- Kinross Gold Corporation
- City of Yellowknife
- Inmet Mining
- Expedite North Ltd.
- EBA Engineering [Edmonton]
- Klohn Crippen Consultants Ltd.
- Renwick Engineering
- Athabasca Gold Resources Ltd.

APPENDIX 2A

Status of Companies Contacted for Permission to Release JDMA Report(s) to Public Domain

1.0 Replies Received from Mail-Out

Company	Signing Personnel
Khlon Crippen Consultants	S. Buck, Senior Hydrologist
City of Yellowknife	G. Kehoe, Director Public Works
Expedite North	Tweed
Inmet Mining	Pirie
EBA Engineering	E. Haeve

2.0 Requests Returned to JDMA in Mail (assume company no longer exists or have moved offices)

- Renwick Engineering
- Bruce Geotechnical
- Athabasca Gold

3.0 Defunct Companies (to the best of our knowledge)

- MVPRL
- CAGSL
- PolarGas
- Williams Brothers
- Arctic Petroleum Operators
- Northwest Project Study Group
- Alaskan Arctic Pipeline Company

4.0 Companies for Which No Replies Were Received

- Nuna Logistics
- Foothills Pipelines
- Kenross Gold Corporation
- Minova Incorporated
- Northern Canada Power
- Northern Construction Company, Ltd.
- Northern Engineering Services

APPENDIX 3

STATUS OF ARCTIC INSTITUTE RECORDS ON JDMA
REPORTS AND TABLE 1 REPLY FORMS FROM THE INSTITUTE



January 27, 2005

To: Arctic Institute of North America
Calgary, AB

To whom it may concern:

This is to inform you that our company is compiling a database of engineering reports that our company has carried out within the present boundaries of the northwest territories. This work is being done for INAC (attention: Bob Gowan), Government of Canada.

Table 1 attached is a listing of reports done by our company between approximately 1960 and present. Only reports that contain some type of information about gravel and its location in the Northwest Territories are listed here.

We expect the Arctic Institute of North America will have some information on record as to whether the companies shown in Column 1 of the attached Table 1 are still in existence or, alternatively, no longer exist. The Institute may also be aware which of the listed reports are in the public domain (*i.e.*, available through library, interlibrary loan, or filed as part of public hearings) or is still proprietary.

We expect the Institute will not have records on all of the reports listed in Table 1. However, if you have data on some of these and information on restrictions or limitations on their release, we would much appreciate your help in this regard.

If you wish, please feel free to write directly on the attached Table 1 to note what information you have on the present status of the company shown (columns 1 and 5) and answer yes or no to Column 6.

Thanking you in advance in helping us fill in the blanks for some of this data.

Sincerely,

A handwritten signature in black ink, appearing to read 'D.G. Mollard', written in a cursive style.

D.G. Mollard, P.Eng.

P.S. As noted above, it is sufficient to just use and return Table 1 to mark or note the information you have. For example, you could just circle the companies you know are still active (Column 1 or 5) and secondly, mark Column 6 with a yes (Y) or no (N).

If it is handier to photocopy any information requested and available in your office, this form is also all right.

If you could email or fax our office early (within a few days) as to whether you can be helpful in this or not, it will let us know if something is coming back to us a bit later.

Our email is: mollard@jdmollard.com

Our fax: 1-306-352-8820

FAX TRANSMITTAL REPORT

THE ARCTIC INSTITUTE OF NORTH AMERICA
THE UNIVERSITY OF CALGARY
FAX: (403) 282-4609

TO A.G. Mollard

FAX NO 306-352-8820

FROM Ross Goodwin, Manager, ASTIS PHONE (403) 220-4036

NO. OF PAGES (including this page) 7 DATE 05.02.09

COMMENTS _____

J.D. Mollard and Associates Limited

From: Ross Goodwin [rgoodwin@ucalgary.ca]
Sent: February 9, 2005 6:06 PM
To: mollard@jdmollard.com
Cc: Gowan, Bob
Subject: Northwest Territories Granular Reports

Dear D.G. Mollard:

I have just faxed you the table of N.W.T. granular reports as requested in your letter of Jan. 27.

The information about company status that we have provided is based on the best guesses of our staff. If we had no idea at all about the status of a company we left both columns blank. We have no definitive way of determining company status.

If the titles in your table were taken from the title pages of the reports, only 15 of the 52 reports are listed in the ASTIS database. All of those 15 are available in publicly accessible libraries and we have therefore marked them as having no restrictions on release.

We would welcome the opportunity to borrow (or obtain for our library) the remaining 37 reports so that they could be cited in the Northern Granular Resources Bibliographic Database that we maintain for Bob Gowan.

I hope that this information is useful.

Ross

--
Ross Goodwin, Arctic Science and Technology Information System (ASTIS),
Arctic Institute of North America, University of Calgary, Calgary, AB,
Canada T2N 1N4 Phone: (403) 220-4036 Fax: (403) 282-4609
E-Mail: rgoodwin@ucalgary.ca Web: <http://www.aina.ucalgary.ca/astis>

Reply form for Arctic Institute Company

Table 1						
Company (Report owners)	Report Name	To Attention of	Report Date	Company Status		Restrictions on Report Release (yes or no)
				Active	Inactive	
Polargas	"Y" pipeline studies	Polargas	Fall 1978 (mainly)		✓	No
Klohn Crippen	Office airphoto study, Yellowknife area	D.M. Davison	July 1974			
MVPLR	Summary of construction materials along MVPLR pipeline—Prudhoe Bay to Fort McPherson		Oct. 1971		✓	
Echo Bay Mines Ltd.	Airphoto & map study Lupin to Ulu haul routes	R.A. Cooper	Sept. 1986			
Renwick Engineering	Gravel search along Liard highway #7 between Muskeg and Blackstone rivers	Greg Halst	Sept. 1988			
GNWT	Bedrock & granular prospects adjacent #3 highway, Km 170-237 south of Edzo	Peter Vician	Mar. 1986	✓		
GNWT - Public Works	Borrow for vicinity of Snowdrift, NWT	Phillp Nolan	Oct. 1985	✓		No
GNWT - Public Works	Office airphoto search for Nahanni airstrip	Peter Vician	Mar. 1984	✓		
GNWT - Public Works	Surface materials for Trout Lake airstrip	Peter Vician	Mar. 1984	✓		
GNWT - Public Works	Mineral aggregate source search, Coppermine area	Peter Vician	Mar. 1984	✓		
GNWT - Public Works	Gravel search, Enterprise -South area	John Bowen	Aug. 1977	✓		
GNWT - Public Works	Airphoto search for granular prospects along #2 highway, Fort Rae to Sunset Lake	Turgot Ersoy	Mar. 1976	✓		

Company (Report owners)	Report Name	To Attention of	Report Date	Company Status		Restrictions on Report Release (yes or no)
				Active	Inactive	
MVPRL	Summary of construction material MVPRL pipeline via Arctic coastal route	G.H. McDade	Oct. 1971		✓	No
Renwick Engineering	Airphoto gravel search along #3 highway, Fort Providence area	Greg Haist	Sept. 1988			
Renwick Engineering	Airphoto interpretation to identify gravel prospects along Mackenzie River from Fort Simpson to Wrigley	Greg Haist	Mar. 1988			
E.B.A. Engineering	Office airphoto mapping to terrain conditions within City of Yellowknife limits and a 1-km-wide surround area, NWT	Ed Hoeve	Oct. 1996	✓		
Williams Bros. Canada Ltd/ MVPLR Ltd.	Prefaces to physiographic Divisions I to XIV of MVPLR pipeline	Williams Bros.	Nov. 1971			
Williams Bros./ MVPLR Ltd.	Prefaces to physiographic Divisions XI to XIV	NWPSG/ MVPLR	Nov. 1971			No
Williams Bros./ MVPLR Ltd.	Prefaces to physiographic Divisions I to X	Williams Bros./ MVPLR	Nov. 1971			No
NWPSG/ MVPLR Ltd.	Airphoto terrain mapping report for pipeline route study Volume 1	NWPSG/ MVPLR	Oct. 1971		✓	No
Athabasca Gold Resources Ltd	Phase 1 study alternative haul route and comparative evaluation, Yellowknife to Athabasca Gold property on Nicholas Lake	E.G. Kennedy	July 1989			
Bruce Geotechnical Consulting Inc.	Office airphoto and map study, Jericho Pipe to Lupin Mine Road, road location and terrain evaluation	Wayne Savigny	April 1996			

Company (Report owners)	Report Name	To Attention of	Report Date	Company Status		Restrictions on Report Release (yes or no)
				Active	Inactive	
Bruce Geotechnical Consulting Inc.	Kimberlite Pipe 5034 study project: airphoto mapping and evaluation and infrastructure location and controls	Wayne Savigny	May 1986			
Expedite North Ltd.	Office airphoto and map pre-feasibility study of a road route from Ingraham trail terminus to Exeter Lake, NWT	T. Tweed	Oct. 1997			
Environment Canada	Reconnaissance study of hydrogeology of the Mackenzie River Valley Region	R.L. Harlan	Apr. 1972	✓		
DIAND	Compilation inventory of granular material resources within the Izok Lake transportation corridor	Stephen Traynor	Oct. 1993	✓		No
EBA Engineering	JDMA Interim report on Phase 1 Izok project; feasibility level haul route selection and terrain studies	L. Dunn	undated	✓		
Minnova Inc.	Draft report on izok multiple transport mode route selection and characterization from office map and airphoto study	K.J. Hill	Oct. 1992			
MVPLR Ltd.	Key maps, terrain legend and notes on field-data acquisition: Prudhoe Bay, Alaska, to Fort McMurray, Alberta	E.D. Wilson	1970		✓	No
Renwick Engineering	Information review and airphoto interpretation to locate sand, gravel and quarry prospects: Km 0-74.2, Dempster Highway, NWT	Greg Halst	Mar. 1988			

Northern Canada Office mapped airphoto Don McIntyre Feb. 1975

Company (Report owners)	Report Name	To Attention of	Report Date	Company Status		Restrictions on Report Release (yes or no)
				Active	Inactive	
Power Commission	study: La Martre Hydro power project proposal					
Department of Transport, Ottawa	Airphoto search for suitable granular materials in vicinity of Cree Lake, Sask., and Fort Providence, NWT	G.V. Sebastyan	Sept. 1962	✓		
Department of Transport, Ottawa	Airphoto selection of potential airport sites in the vicinity of Hay River, NWT	V.R. Currie	April 1963	✓		
Department of Transport, Ottawa	Preliminary airphoto studies for selection of an airport site near Pine Point, NWT	V.R. Currie	May 1963	✓		
Federal Dept. of Public Works, Edmonton	Report on July 1972 field trip Dempster Highway, NWT, Mile 276 at the Yukon-NWT boundary to M. 322 on the Peel River, NWT	R.S Thomson	Sept. 1972	✓		
Northern Construction Co. Ltd.	Granular material airphoto study: Richards Island and escarpment above East Channel in vicinity of Caribou Hills	Paul Ellis	June 1972			
Northern Canada Power Commission	Office airphoto study of transmission line route alternates between Twin Gorges and Pine Point, NWT	Don McIntyre	June 1975			
City of Yellowknife	Compilation of most-promising airphoto-mapped gravel prospect areas selected from mapping carried out by JDMA in Yellowknife area over last 30 years	Adrian Bader	Nov. 1996	✓		
DIAND	Compilation inventory of	Bob Gowan	Aug. 1994	✓		No

Company (Report owners)	Report Name	To Attention of	Report Date	Company Status		Restrictions on Report Release (yes or no)
				Active	Inactive	
DIAND	granular material resources information bordered by Lat. 63° and 68° and Long. 102° and 112° in NWT Potential granular deposits and terrain analysis of selected areas in the Cameron Hills, NWT	Stephan Traynor	Mar. 1994	✓		No
DIAND	Office airphoto gravel search along a shoreline zone of terrain bordering Great Slave Lake vicinity, Yellowknife, NWT	Art Boutillier	Oct. 1992	✓		
Bruce Geotechnical Consulting Inc.	Remotely sensed terrain analysis and assessed impact of the existing roadway along and near the 185-km-long Prairie Creek existing winter haul route	W. Savigny	Sept. 1995			
DIAND	Compilation inventory of granular resources information bordered by latitudes 60° and 66° and longitude 96°/98° and Hudson Bay, NWT	Bob Gowan	Mar. 1995	✓		No
GNWT	Office airphoto and route selection and terrain mapping of competing #3 Highway routes between Yellowknife and Rae, NWT	J. Bunge	Jan. 1995	✓		
1) Arctic Petroleum Operator Assoc. 2) Gas Arctic 3) NWPSG 4) MVPLR	Gravel inventory: Richards Island and adjacent areas	1, 2, 3, 4 (see column 1)	June 1972		✓	No
MVPLR Ltd	Report on construction	E.D. Wilson	Aug. 1971		✓	No

Company (Report owners)	Report Name	To Attention of	Report Date	Company Status		Restrictions on Report Release (yes or no)
				Active	Inactive	
✓ Foothills Pipe Lines Ltd.	materials survey along Mackenzie Valley Pipeline Research Limited pipeline route: Prudhoe Bay to 60th parallel Alignment sheets published and named as a Foothills Pipe Lines Ltd. document but mapping by JDMA	Foothills Pipe Lines Ltd.	July 1980	✓		
Polargas Project Study Group	Polargas project Mackenzie Delta to Edson; final pipeline route	Polargas	Nov. 1983		✓	
Polargas/ CAGSL	Wide area route alignment mosaics Taglu to Edson: Notes on the pipeline field reconnaissance trip by JDMA - rough (hand- written) copy only	Polargas	undated		✓	
MVPLR Ltd.	11" x 17" booklet named: NWPSG Airphoto Terrain Mapping Legend for pipeline route study, Vol. II	MVPLR Ltd.	Sept. 1971		✓	No
CAGSL (Arctic Gas)	Pipeline route in Canada north of 60° latitude (alignment sheets)	Northern Engineering (Calgary)	Nov. 1973		✓	No
Alaskan Arctic Gas Pipeline Company/ Canadian Arctic Gas Pipeline Ltd.	Alignment sheets and flow diagrams, interior alternative pipeline route from Prudhoe Bay to Travaillant Lake Junction via the main branch of the Canning River	Northern Engineering (Calgary)	Feb. 1974		✓	

APPENDIX 4

LETTERS TO PRIVATE COMPANIES REQUESTING APPROVAL
TO PLACE THEIR JDMA REPORT(S) IN THE PUBLIC DOMAIN



J D MOLLARD AND ASSOCIATES LIMITED
CONSULTING ENGINEERS AND GEOSCIENTISTS

Telephones (306) 352-8811 (306) 352-8855
Fax 352-8820
Email: mollard@jdmollard.com



www.jdmollard.com

810 Avord Tower, 2002 Victoria Avenue
Regina • Saskatchewan • Canada
S4P 0R7

February 14, 2005

Bruce Geotechnical Consultants Inc.
210-1290 Hornby Street
Vancouver, BC V6Z 2G4

To whom it may concern:

J.D. Mollard and Associates Limited (JDMA) has been commissioned (requested) by Indian and Northern Affairs Canada to compile a list of reports we have done on granular resources, in the Northwest Territories, for their database, and to arrange for as many of these reports as possible to be released to the public domain through the INAC library.

Our records show that JDMA carried out one or more applicable studies for your company between 1960 and the present. We would like your permission to release these reports to INAC. Attached is a release form for each of these reports.

If you have no objections or restrictions on releasing the reports to the public domain, please sign the attached forms and return them to our office by March 1, 2005. You may also fax the approval form (Fax: 1-306-352-8820) and send the original later, should you find the deadline coming up too quickly.

If you do have objections to releasing the reports, or do not have a copy of the report in your library to refer to while making your decision, please let us know. You can fax me at 1-306-352-8820 or e-mail mollard@jdmollard.com.

If the report referred to on the permission form was, in turn, supplied to your client (the actual owner of the information), then we expect you will need to obtain permission from your client to place the report in the public domain. However, if your client was a government department (federal, territorial, provincial or municipal) then you need not follow up on this report.

Thank you.

Sincerely,

D.G. Mollard, P.Eng.

- Airphoto and satellite image remote sensing
- Terrain analysis and interpretation
- Aggregate location, quantity and quality studies
- Route and site location and characterization
- Land, water and forestry resource studies

- Geographic Information Systems
- Natural hazard mapping and analysis
- Mines, minerals and petroleum exploration
- Geotechnical, geoenvironmental and geological studies
- Ecotourism site selection and mapping

Permission to Release to Public Domain

Report Name and date¹:

Alignment sheets published as a Foothills Pipe Lines Ltd. document but mapping by JDMA,
July 1980

by J.D. Mollard and Associates Limited for:

Foothills Pipe Lines

Now: TransCanada PipeLines (TCPL)
P.O. Box 1000, Station M
450 - 1st Street SW, Calgary, AB T2P 5H1

-
- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

 - Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library only upon the following conditions:

 - No, approval is not granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library.

Name Date

Position Department/Company

1. Because some years may have occurred since the report was prepared, the actual report name shown above may not be exactly the same as the report in your company library. However, we think that the title and the given date will enable you to identify the report. (Please correct the title shown above if necessary.)

Permission to Release to Public Domain

Report Name and date¹:

All-weather road route selection, terrain mapping and borrow identification on alternative competing route corridors and ROWs—Izok Minesite to a port site on Bathurst Inlet, Nunavut, circa 2001

by J.D. Mollard and Associates Limited for:

SNC-Lavalin (attention Tony Wachmann)
1800, 1075 West Georgia Street
Vancouver, BC V6E 3C9

-
- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.
- Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library only upon the following conditions:
- No, approval is not granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library.

Name

Date

Position

Department/Company

1. Because some years may have occurred since the report was prepared, the actual report name shown above may not be exactly the same as the report in your company library. However, we think that the title and the given date will enable you to identify the report. (Please correct the title shown above if necessary.)

Permission to Release to Public Domain

Report Name and date¹:

Office airphoto mapping of terrain conditions within City of Yellowknife limits and a 1-km-wide surround area, October 1996

by J.D. Mollard and Associates Limited for:

EBA Engineering (attention: Ed Hoeve)
P.O. Box 2244
201-4916-49 Street
Yellowknife, NWT, XA1 2P7

-
- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

 - Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library only upon the following conditions:

 - No, approval is not granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library.

Name Date

Position Department/Company

1. Because some years may have occurred since the report was prepared, the actual report name shown above may not be exactly the same as the report in your company library. However, we think that the title and the given date will enable you to identify the report. (Please correct the title shown above if necessary.)

Permission to Release to Public Domain

Report Name and date¹:

Kimberlite Pipe 5034 study project: Airphoto mapping and evaluation and infrastructure location and controls, May 1996

by J.D. Mollard and Associates Limited for:

Bruce Geotechnical Consultants Inc. (attention: W. Savigny)
210-1290 Hornby Street
Vancouver, BC V6Z 2G4
Phone: 604-684-5900

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

Name	Date
------	------

Position	Department/Company
----------	--------------------

- Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library only upon the following conditions:

Name	Date
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Position	Department/Company
----------	--------------------

- No, approval is not granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library.

Name	Date
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Position	Department/Company
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1. Because some years may have occurred since the report was prepared, the actual report name shown above may not be exactly the same as the report in your company library. However, we think that the title and the given date will enable you to identify the report. (Please correct the title shown above if necessary.)

Permission to Release to Public Domain

Report Name and date¹:

Remotely-sensed terrain analysis and assessed impact of the existing roadway along and near the 185-km-long Prairie Creek existing winter haul route; September 1995

by J.D. Mollard and Associates Limited for:

Bruce Geotechnical Consultants Inc. (attention: W. Savigny)
210-1290 Hornby Street
Vancouver, BC V6Z 2G4
Phone: 604-684-5900

-
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Name Date

Position Department/Company

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Permission to Release to Public Domain

Report Name and date¹:

Office airphoto and map study, Jericho Pipe to Lupin Mine Road; road location and terrain evaluation; April 1996

by J.D. Mollard and Associates Limited for:

Bruce Geotechnical Consultants Inc. (attention: W. Savigny)
210-1290 Hornby Street
Vancouver, BC V6Z 2G4
Phone: 604-684-5900

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Permission to Release to Public Domain

Report Name and date¹:

Airphoto and map study for Lupin and Ulu haul routes; September 1996

by J.D. Mollard and Associates Limited for:

Echo Bay Mines (attention: R.A. Cooper)

Now:

Kinross Gold Corporation
Investor Relations Department
40 King Street West, 52nd Floor
Toronto, ON M5H 3Y2

-
- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

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Permission to Release to Public Domain

Report Name and date¹:

Compilation of most promising airphoto-mapped gravel prospect areas selected from mappig carried out by JDMA in Yellowknife area over last 30 years; November 1996

by J.D. Mollard and Associates Limited for:

City of Yellowknife (attention: Adrian Bader)
4807 - 52nd Street
P.O. Box 580
Yellowknife, NWT X1A 2N4

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

Name Date

Position Department/Company

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Position Department/Company

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Position Department/Company

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Permission to Release to Public Domain

Report Name and date¹:

Draft report on Izok multiple transport mode route selection and characterization from office map and airphoto study, October 1992

by J.D. Mollard and Associates Limited for:

Minnova Inc.

Now:

Inmet Mining
330 Bay Street, Suite 1000
Toronto, ON M5H 2S8

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

Name	Date
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Position	Department/Company
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Position	Department/Company
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Permission to Release to Public Domain

Report Name and date¹:

Office airphoto and map pre-feasibility study of a road route from Ingraham Trail terminus to Exeter Lake, NWT, October 1997

by J.D. Mollard and Associates Limited for:

Expedite North Ltd (Attention: Tom Tweed)
P.O. Box 1981, Station Main
Yellowknife, NT X1A 2P5

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

Name Date

Position Department/Company

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Permission to Release to Public Domain

Report Name and date¹:

Interim report on Phase 1 Izok Project; feasibility level haul route selection and terrain studies, June 1993

by J.D. Mollard and Associates Limited for:

EBA Engineering: (Attention L. Dunn)
14940 -123 Avenue
Edmonton, AB T5V 1B4
Telephone: 780-451-2121

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

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Permission to Release to Public Domain

Report Name and date¹:

Office airphoto study, Yellowknife area, July 1994

by J.D. Mollard and Associates Limited for:

Klohn Leonoff (Attention: D. Davison)

Now:

Klohn Crippen Consultants Ltd.
5th Floor, 2955 Virtual Way
Vancouver, BC V5M 4X6
Phone: 604-669-3800

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

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Permission to Release to Public Domain

Report Name and date¹:

Information review and airphoto interpretation to locate sand, gravel and quarry prospects;
Km 0 - 74.2 Dempster Highway, NWT, March 1988

by J.D. Mollard and Associates Limited for:

Renwick Engineering (Attention: Greg Haist)
P.O. Box 1054
Hay River, NWT X0E 0R0

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

Name Date

Position Department/Company

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Permission to Release to Public Domain

Report Name and date¹:

Gravel search along Liard Highway #7 between Muskeg and Blackstone Rivers, September 1988

by J.D. Mollard and Associates Limited for:

Renwick Engineering (Attention: Greg Haist)
P.O. Box 1054
Hay River, NWT X0E 0R0

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

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Position Department/Company

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Permission to Release to Public Domain

Report Name and date¹:

Airphoto interpretation to identify gravel prospects along the Mackenzie River from Fort Simpson to Wrigley, NWT, March 1988

by J.D. Mollard and Associates Limited for:

Renwick Engineering (Attention: Greg Haist)
P.O. Box 1054
Hay River, NWT X0E 0R0

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

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Name Date

Position Department/Company

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Permission to Release to Public Domain

Report Name and date¹:

Airphoto gravel search along highway #3, Fort Providence area, September 1988

by J.D. Mollard and Associates Limited for:

Renwick Engineering (Attention: Greg Haist)
P.O. Box 1054
Hay River, NWT X0E 0R0

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

Name	Date
Position	Department/Company

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Position	Department/Company

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Name	Date
Position	Department/Company

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Permission to Release to Public Domain

Report Name and date:

Phase 1 study, alternative haul route and comparative evaluation, Yellowknife to Athabaska Gold property on Nicholas Lake, NWT; July 1989

by J.D. Mollard and Associates Limited for:

Athabaska Gold Resources Ltd.

1300-1075 West Georgia Street

Vancouver, BC V5C 3C9

Originally requested by E.G. Kennedy; present company personnel: James S. Kermeen, Pres.; Stephen C. Jackson, vice-pres., Investor Relations

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

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Position Department/Company

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APPENDIX 5

REPLIES TO REQUEST FOR PERMISSION TO RELEASE
JDMA REPORT(S) TO THE PUBLIC DOMAIN



Permission to Release to Public Domain

Report Name and date¹:

Office airphoto study, Yellowknife area, July 1974
Office photo-geological study, Yellowknife, N.W.T.

by J.D. Mollard and Associates Limited for:

Klohn Leonoff (Attention: D. Davison)

Now:

Klohn Crippen Consultants Ltd.
5th Floor, 2955 Virtual Way
Vancouver, BC V5M 4X6
Phone: 604-669-3800

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

Stephen Buck April 27, 2005
Name Date
Senior Hydrogeologist Klohn Crippen
Position Department/Company

- Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada to be released into public domain through the INAC library only upon the following conditions:

Name Date

Position Department/Company

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Name Date

Position Department/Company

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Attention: D.G. Mollard

Permission to Release to Public Domain

Report Name and date¹:

Compilation of most promising airphoto-mapped gravel prospect areas selected from mappig carried out by JDMA in Yellowknife area over last 30 years; November 1996

by J.D. Mollard and Associates Limited for:

City of Yellowknife (attention: Adrian Bader)
4807 - 52nd Street
P.O. Box 580
Yellowknife, NWT X1A 2N4

[X] Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada (INAC) to be released into public domain through the INAC library.

GREG KEHOE Name MARCH 1 / 2005 Date

DIRECTOR Position PUBLIC WORKS, CITY OF YELLOWKNIFE Department/Company

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[Blank lines for conditions]

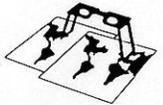
Name Date Position Department/Company

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D MOLLARD AND ASSOCIATES LIMITED
CONSULTING ENGINEERS AND GEOSCIENTISTS



810 Avord Tower
2002 Victoria Avenue
Regina • Saskatchewan
S4P 0R7

690228
FEB 21 2005
HAY RIVER, NT
X0E 0R0

050215 19:41 2005 S4P 0R5 N20 11111111
www.Postescanada.ca 11111111

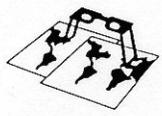
*Returned
no record
that co. exists
any more*

Renwick Engineering
P.O. Box 1054
Hay River, NWT
X0E 0R0

**RETURN TO SENDER
RENOI À L'EXPÉDITEUR**

- Unclaimed
Non réclamé
- No such address
Adresse inexistante
- Address incomplete
Adresse incomplète
- Moved / Unknown
Déménagé / Inconnu
- No such Post Office
Bureau inexistant
- Refused by addressee
Refusé par le destinataire

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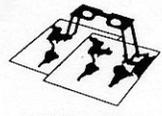


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S4P 0R7

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Vancouver, BC
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