Department of Indian Affairs and Northern Development Land and Water Management Division Northern Affairs Program Hull, QC

REVIEW OF EBA GRANULAR RESOURCES STUDIES IN THE NORTHWEST TERRITORIES

1700160

October 2006



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1.0 INTRODUCTION

1.1 GENERAL

The Department of Indian Affairs and Northern Development (DIAND) commissioned EBA Engineering Consultants Ltd. (EBA) to review and summarize the granular resources studies undertaken by EBA in the Northwest Territories. The main objective of this project was to identify and provide the granular resource reports completed by EBA and its ancestors or affiliates in the Northwest Territories with emphasis on their availability for publication to a web-based northern granular resource data base.

This project was completed under the authorization of the DIAND Contract Requisition Number: A7133-04-0030.

1.2 PROJECT DETAILS

Granular resources have been identified and explored by different private and public agencies, in different parts of the Northwest Territories, in the past. Most of the information on granular resources was collected in connection with the construction of a proposed gas pipeline in Mackenzie Valley, highway projects, and development of mining and community infrastructure.

Information on the availability of granular resources is essential for effective planning and management of the future community needs and development of public and private infrastructure. To make this information available and easily accessible to the planners and managers, Arctic Institute of North America (AINA) has developed a web-based Northern Granular Resource Database. This database contains abstracts and/or reports of granular resources projects undertaken in Canada's three northern territories and adjacent waters. The current project is an effort to update this database by incorporating newer information, and reviewing the completeness of already available online reports, completed by EBA in the Northwest Territories.

EBA has previously prepared a preliminary report identifying granular resources studies conducted by EBA in the Northwest Territories (EBA File: 1700160, dated April 12, 2006). A list of these reports was prepared and submitted to DIAND, as part of that report.

1.3 SCOPE OF WORK

EBA's understanding of the required scope of work for this component of the project, consistent with Tasks 4 to 9, as outlined in the draft contract, is as follows:

• Determine the current or potential availability of granular resources reports, identified by EBA in the preliminary report;



- Check the completeness and quality of reports which are already available online on Northern Granular Resource Database, noting dates at which online reports were reviewed and providing itemized lists of missing pages, figures, or any other problems noted;
- Obtain permission to release those reports that were not completed for Indian and Northern Affairs Canada (INAC), DIAND, and Public Works Canada (PWC) and that are not available online;
- Identify any areas for which there are significant gaps in information, particularly related to Mackenzie Gas Pipeline and associated infrastructure;
- Provide recommendations to fill the data gaps and make the existing information more accessible to planners/managers; and
- Prepare a report documenting the work completed and presenting the resulting recommendations.

2.0 METHODOLOGY

2.1 REVIEW OF EBA'S GRANULAR RESOURCE PROJECTS

A review of EBA files was conducted to identify the granular resource reports completed by EBA in the Northwest Territories. EBA offices at other locations were also consulted to complete the list as much as possible. A list of these reports was prepared, and compared with records shown on AINA's website. This list was faxed to DIAND on March 7, 2005, for review.

The comments from DIAND were received on March 11, 2006. The list was updated in light of those comments, by indicating which reports have been indexed in Northern Granular Resource Bibliography (NGRB) or Arctic Science and Technology Information System (ASTIS). The ASTIS record numbers and libraries having copies of these reports were also indicated in the list. A preliminary letter report with a list of EBA reports was submitted to DIAND in April 2005. This report is presented in Appendix A.

The list of EBA reports provided in the preliminary report is subdivided and reproduced as Tables 1, 2, and 3.

Table 1 presents EBA granular resource studies that are in the public domain and are available on NGRB. A review of these reports was required in order to check their quality and completeness.

Table 2 presents granular resource reports that are not available online. These projects were prepared for INAC/DIAND; therefore, permission to release these reports to the public domain is not required. As these reports are not available online, their quality and completeness could not be reviewed.



Table 3 presents reports that were prepared for either private agencies or the territorial government. Permission to release these reports to the public domain was required.

2.2 REVIEW OF QUALITY AND COMPLETENESS OF ONLINE REPORTS

A review of the online reports was conducted to check their completeness and quality. An itemized list of the deficiencies noted in the online reports is presented in Table 4. The reports with deficiencies were corrected. The corrected copies were provided to DIAND. Digital copies of these reports will be provided as part of this project. Digital copies of corrected reports are presented in Appendix B.

The reports shown in Table 2 could not be reviewed because these were not available online during the course of this project. EBA can review these reports if requested and once these reports are available online.

2.3 REPORT RELEASES

To release reports, listed in Table 3, to the public domain, letters were sent to representatives of Fortune Minerals Ltd., Northwest Territories Power Corporation, BHP Billiton Diamonds Inc. (BHP), Government of the Northwest Territories (GNWT), Department of Transportation (DOT), and Imperial Oil Ltd. Copies of reports released, and corresponding release letters, were provided to DIAND. BHP declined to release two reports that EBA has prepared for them. Imperial Oil Ltd., also declined to release one of the two reports for which release was requested. Table 5 presents reports that were released to the public domain during this project. Release letters are presented in Appendix C. Digital copies of the released reports are presented in Appendix D.

EBA has recently conducted granular resource investigations in the Mackenzie Valley in connection with the Mackenzie Gas Project (reports on Serial Nos. 1, 2, 4, and 5 of Table 5). In order to release these reports to the public domain, DIAND was requested to contact ColtKBR directly. EBA can provide digital copies of these reports once these reports are released to the public domain.

EBA was not able to locate reports on Serial Nos. 11, 15, and 16 of Table 5. Therefore, letters to request release of these reports were not sent. The report on Serial No. 12 was completed for Dome Petroleum Ltd. and Canadian Marine Drilling Ltd. These companies no longer exist; therefore a request for release could not be sent.

3.0 INFORMATION GAPS AND RECOMMENDATIONS

A significant body of information on granular resources was collected from 2003 to 2005, in the Mackenzie Valley, in connection with the proposed gas pipeline. These reports are not available online. These and other reports identified in this project should be included in the database. EBA can provide digital copies of these reports once released.



Most of the granular resource reports are very old, i.e. prior to 1990. Information on the current availability of these granular resources is not available. Up to date information on

current availability of these granular resources is not available. Up to date information on each granular deposit i.e. current pit use and availability of granular material from these sources, should be collected and posted on the website. This will assist planners and managers in assessing the availability of granular resources for future needs.

The granular resources inventory should be maintained by updating the database annually with newly acquired information. Once complete the database will provide a reliable source of granular resources in the Northwest Territories.

A disclaimer should appear before downloading the online reports. EBA has drafted a standard disclaimer that may be modified if considered necessary by DIAND. The disclaimer should be as follows:

"All documents appearing on the NGRB are in the public domain and may be reproduced or copied without permission. In any subsequent use of these documents, the source should be cited and given appropriate acknowledgement. The documents may not be used to create publications or databases without prior permission from ASTIS.

Every effort is made to provide accurate and complete documents; however, there is no guarantee that these documents are error free. Also there is no guarantee on the completeness of these documents."



CLOSURE 4.0

We trust this report satisfies your present requirements. EBA would be pleased to provide any further information that may be needed. Please contact either of the undersigned if you require further information.

Respectfully submitted, EBA Engineering Consultants Ltd.

Prepared by:



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TABLES



TABI	LE 1: EBA GRANUL	AR RESOU	RCE STUDIES	AVAILABLE ONLINE			
Description	Project	Year		Sponsor	ASTIS	Availa	bility
• • • • • • • • • • • • • • • • • • •	No.		Agency	Department	(Library)	Online	EBA
Granular Resources Investigation, Northern Richards Island, NWT – Geotechnical Program (Vol. I, II)	0101-11413	1995	Federal	INAC	54759 (ACU XQGLW)	Yes	Yes
Geotechnical/Geological Investigation of Selected Granular Resource Prospects, Beaufort Sea	0101-11413	1995	Federal	INAC	53504 (XQGLW ACU)	Draft	Yes
Esker Research Study, Sampling and Testing of Lac De Gras Area, NWT	0701-11546	1995	Federal	INAC	53503 (XQGLW)	Yes	Yes
Canadian Beaufort Sea Geotechnical and Geophysical Databases	0101-11085	1993	Federal	SSC and INAC	33402 (OORD ACU XQGLW)	Yes	Yes
Mackenzie Valley Transportation Corridor, Granular Resources Database, NWT	0101–11085	1992	Federal	SSC and INAC	33580 (ACU OORD)	Yes	Yes
Paulatuk Granular Resources Inventory and Recommendations for Development	0701-10526	1991	Territorial	GNWT, DOT	33568	Yes	Yes
Final Report: Granular Resources Inventory, Dempster Highway Corridor, YT/NWT	0201-4989	1990	Federal	INAC	33581 (ACU XNWYL YWED XQGLW)	Yes	Yes
Addendum Volume: Dempster Highway Granular Source Borehole Log Database – Test Hole Logs For Source 0377.8B (Eagle River Bridge Area) and Dempster Lateral Pipeline (no source number)	0201-4989	1990	Federal	INAC	33582 (YWED XNWYL XQGLW)	Yes	Yes
Mackenzie Valley Database – Final Report	0101-10123	1990	Federal	INAC	33464 (OORD XQGLW ACU)	Yes	Yes
Summary of Granular Resources Data for the Upper Mackenzie Valley (Fort Providence to Norman Wells)	0306-34395	1988	Public	INAC	35165 (ACU NWII XQGLW)	Yes	Yes
Volume 1 of II: Dempster Highway Granular Source Borehole Log Database: Test Hole Logs for Source km 1.1 to km 190.3	0201-4800	1988	Federal	INAC	33583 (OORD XQGLW)	Yes	Yes
Granular Resources Database – Dempster Highway Corridor, YT/NWT	0201-4800	1988	Federal	INAC	33465 (OORD NWII ACU XQGLW)	Yes	Yes
Dempster Highway Granular Source Borehole Log Database – Volume II of II; Test Hole Logs For Sources km 194.7 to km 715.4	0201-4800	1988	Federal	INAC	35166 (XNWYL ACU XQGLW)	Yes	Yes



Table 1 Continued

Description	Project	Year		Sponsor	ASTIS	Availal	bility
	No.		Agency	Department	Library)	Online	EBA
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Holman	0101-4575	1987	Federal	INAC	33275 (ACU OORD NWYPW)	Yes	Yes
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Inuvik	0101-4575	1987	Federal	INAC	33274 (ACU OORD NWYPW, NWII, XQGLW)	Yes	Yes
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Paulatuk	0101-4575	1987	Federal	INAC	33273 (ACU OORD NWYPW NWII)	Yes	Yes
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Tuktoyaktuk	0101-4575	1987	Federal	INAC	33271 (ACU OORD NWYPW NWII XQGLW)	Yes	Yes
An evaluation of the Feasibility of Developing Granular Borrow from the Bed of the Mackenzie River	0301-34288	1987	Federal	INAC	29179 (ACU OORD XQGLW)	Yes	NL
Granular Resources Evaluation, Richards Island, NWT	0101-4480	1986	Federal	INAC	20709 (ACU OORD NWII)	Yes	NL
Granular Resource Development and Management Plan for Tuktoyaktuk, NWT	101-3760	1983	Federal	INAC	33403 (ACU OORD NWII XQGLW)	Yes	NL
Evaluation of Potential Sources of Quarry Rock for Beaufort Marine Structures – Preliminary Report	101-3929	1983	Federal	INAC	558 99 (XQGLW)	Yes	NL
Evaluation of Potential Sources of Quarry Rock for Beaufort Marine Structures	101-3929	1983	Federal	INAC	35009 (ACU NWII YWED XQGLW)	Yes	NL
Detailed Geotechnical Evaluation of Potential Sources of Granular Material at Devil's Lake (Source 326), Lucas Point (Source 303), and Swimming Point (Source 222), Mackenzie Delta Area, NWT	1-1318	1976	Federal	INAC	30403 (ACU OORD NWYPW NWII)	Yes	Yes
Evaluation of Potential Rock Quarries, Rocky Hill – Campbell Lake Area, NWT	1-1537	1976	Federal	DIAND	30402 (ACU OORD XNWYL XQGLW)	Yes	Yes
Granular Materials Inventory, Stage III, Vol.1, General Report (Data in Vol. II, III, IV)	E-666	1975	Federal	INAC	30383 (ACU OORD NWII XNWYL XQGLW)	Yes	Yes



Table 1 Continued

Description	Project Year			Sponsor	ASTIS	Availability	
•	No.		Agency	Department	(Library)	Online	EBA
Granular Material Inventory, Stage III, Vol. III and Vol. IV, North Half (Sites 1054, 1055, 1061-1110, 1111-1156)	E-666	1974	Federal	INAC	30383 (ACU OORD NWII XNWYL XQGLW)	Yes	Yes
Mackenzie Highway Geotechnical Evaluation – Volume 1; Centre Line Subgrade Conditions and Borrow Resources, Mile 632 to Mile 724.7	9305-52-307*	1973	Federal	DPW, Government of Canada	35411 (AEMTC ACU)	Yes	Yes
Mackenzie Highway Geotechnical Evaluation – Volume II; Airphoto Mosaics, Borrow Borehole Profiles and Centre Line Terrain Summary, Mile 725 to Mile 674	9305–52-307*	1973	Federal	DPW, Government of Canada	35412 (AEMTC ACU)	Yes	Yes

^{*} E.W. Brooker & Associates Ltd.; INAC: Indian and Northern Affairs Canada; SSC: Supply and Services Canada; DPW: Department of Public Works; NL: Not located



TABLE	2: EBA GRANULAR	RESOURC	E STUDIES NO	OT AVAILABLE ONLINE			
Description	Project	Year		Sponsor	ASTIS	Availa	bility
•	No.		Agency	Department	(Library)	Online	EBA
Granular Resource Investigation, Lac De Gras, NWT – Geotechnical Report	0101-12174	1997	Federal	INAC	39766 (ACU)	No	TBD
Granular Resources Investigation, Lac De Gras, NWT - Geophysical Report	0101-12174	1996	Federal	INAC	39767 (ACU)	No	TBD
Granular Resource Investigation, Geophysical Program, Unprocessed Geophysical Data – Northern Richards Island, NWT	TBD	1995	Federal	INAC	54968 (XQGLW)	No	TBD
Granular Resources Investigation, Source 222, Dempster Highway, km 222, Caribou Creek, NWT	TBD	1995	Federal	INAC	54768 (ACU XQGLW)	No	TBD
Mackenzie Valley Transportation Corridor, Granular Resources Database Workshop, Yellowknife	0306 – 34928	1993	Federal	SSC and INAC		No	TBD
Corrections to ESEBASE Mackenzie Valley Geotechnical Database, Phase 1	0101-11148	1993	Federal	SSC and INAC		No	TBD
Mackenzie Valley Transportation Corridor: Granular Resources Databases, NWT	0101-10902	1992	Federal	SSC and INAC		No	TBD
Mackenzie Valley Transportation Corridor, Geotechnical Database	0306-34693	1991	Federal	SSC	30847 (ACU OORD)	No	TBD
Compilation of Borehole Logs for Mackenzie Delta Area, NWT	TBD	1987	Federal	INAC	33683 (OORD)	No	TBD
Inuvialuit Settlement Sand and Gravel Inventory and Management Plan, 1:125,000 Maps, Addendum to draft report	TBD	1987	Federal	INAC	35164 (XQGLW)	No	TBD
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Aklavik	0101-4575	1987	Federal	INAC	33276 (ACU OORD NWYPW NWII)	No	TBD
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Sachs Harbour	0101-4575	1987	Federal	INAC	33272 (ACU OORD NWYPW NWII)	No	TBD
Mackenzie Highway Geotechnical Evaluation – Volume III; Borrow Borehole Logs, Mosaics, and Borrow Profiles, Borrow Area Summary Table, Section, Mile 705 to Mile 689	TBD	1973	Federal	DPW, Government of Canada	35402 (AEMTC)	No	TBD



Table 2 Continued

Description	Project Year			Sponsor	Indexed	Availa	bility
	No.		Agency	Department	(ASTIS)	Online	EBA
Mackenzie Highway Geotechnical Evaluation – Volume X; Borrow Borehole Logs, Mosaics and Borrow Profiles, Borrow Area Summary Table, Section III, Mile 688 to Mile 669	TBD	1973	Federal	DPW, Government of Canada	35404 (AEMTC)	No	TBD
Mackenzie Highway Geotechnical Evaluation – Volume XII; Borrow Borehole Logs, Mosaics, and Borrow Profiles, Borrow Area Summary Table, Section IV, Mile 668 to Mile 649	TBD	1973	Federal	DPW, Government of Canada	35406 (AEMTC)	No	TBD
Mackenzie Highway Geotechnical Evaluation – Volume XIV – Borrow Borehole Logs, Mosaics, and Borrow Profiles, Borrow Area Summary Table, Section V, Mile 648 to Mile 632	TBD	1973	Federal	DPW, Government of Canada	35408 (AEMTC)	No	TBD
Mackenzie Highway Geotechnical Evaluation – Volume VI; Borrow Borehole Logs, Mosaics and Borrow Profiles, Borrow Area Summary Table, Section 1, Mile 725 to Mile 706	TBD	1973	Federal	DPW, Government of Canada	35410 (AEMTC)	No	TBD
Mackenzie Highway Geotechnical Evaluation - Volume III; Airphoto Mosaics, Borrow Borehole Profiles, and Centre Line Terrain Summary, Mile 674 to Mile 632	TBD	1973	Federal	DPW, Government of Canada	35413 (AEMTC ACU)	No	TBD

INAC: Indian and Northern Affairs Canada; SSC: Supply and Services Canada; DPW: Department of Public Works; TBD: To be Determined (reports not reviewed under the scope of this assignment)



TABLE 3 : EBA GRA	NULAR RESOU	RCE STUI	DIES REQUIRII	NG PERMISSION TO RELEASE			
Description	Project	Year	Sponsor		ASTIS	Availa	bility
·	No.		Agency	Department	(Library)	Online	EBA
Borrow Source Investigation, Mackenzie Gas Project – Inuvialuit Settlement Area	1100077	2005	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	Yes
Borrow Source Investigation, Mackenzie Gas Project – Gwich'in Settlement Area	1100076	2005	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	Yes
NICO Mine Access Route, NWT – Evaluation of Alternative Routes and Identification of Potential Borrow Areas for Road Construction	1700127.001	2005	Private	Fortune Minerals Ltd.		No	Yes
Borrow Source Investigation, Mackenzie Gas Project – K'ahsho Got'ine District	1100046	2004	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	Yes
Borrow Source Investigation, Mackenzie Gas Project – Gwich'in Settlement Area	1100043	2004	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	Yes
Aggregate Survey, Taltson Hydro Facility, NWT	0701-15333	2001	Territorial	NTPC		No	Yes
Gravel Borrow Search, Snare Hydro, NWT	0701-14092	1999	Territorial	NTPC		No	Yes
Granular Resource Survey and Site Development, Lac de Gras, NWT Diamond Project	0101-11314	1993	Private	ВНР		No	Yes
Granular Borrow Investigation, Snowdrift Airport, NWT	0701-10609	1992	Territorial	GNWT, DOT		No	Yes
Ulu Mine Phase 2 – Granular Resources Investigation, ULU Lake, NT	0101- 10568.002	1991	Private	BHP-Utah Mines Ltd.		No	Yes
Geotechnical Evaluation of Selected Borrow Sites	NL	1980	Private	Algas Engineering Services Ltd.	33422	No	NL
Site Evaluation – Proposed Shore Facilities, Wise Bay	101-2471	1979	Private	Dome Petroleum Ltd. and Canadian Marine Drilling Ltd.	40902 (ACU)	No	Yes
Ya Ya Granular Resources Study	1-965.3	1975	Private	Imperial Oil Ltd.	7023 (ACU NFSMO NWYPW NWII)	No	Yes
Preliminary Borrow Evaluation, Big Horn Point, Richards Island, NWT	E-965-1	1975	Private	Imperial Oil		No	Yes
NWT Highway No. 3, North of Fort Providence	NL	NL	Territorial			No	NL
Borrow Pit Evaluation Mile 8, Hay River, NWT	NL	NL	Private			No	NL

NTPC: Northwest Territories Power Corporation; GNWT, DOT: Government of Northwest Territories, Department of Transportation; NL: Not located



TABLE 4:	REVIEW OF QUA	LITY AND	COMPLETENES	S OF ONL	INE REPORTS
Project	Project No.	Date	Date Reviewed	ASTIS	Remarks
Granular Resources Investigation Northern Richards Island, NWT (Volume I of II) Geotechnical Program	0101–11413	1995	Feb 8/2006	54759	Appendix B – 2nd page of General Conditions and System International Conversion pages are missing.
Granular Resources Investigation Northern Richards Island, NWT (Volume II of II) Geotechnical Program	0101–11413	1995	Feb 8/2006	54759	Figure 6 is before Figure 5
Geotechnical/Geological Investigation of Selected Granular Resources Prospects: Beaufort Sea	0101-11413	1995	Feb 8/2006	53503	Draft report available online. EBA has the final report scanned.
Esker Research Study – Sampling and Testing of Lac De Gras Area, NWT	0101-11546	1995	Feb 8/2006	53503	Complete, no change
Canadian Beaufort Sea Geotechnical and Geophysical Database	0101–11085	1993	Feb 8/2006	33402	Complete, no change
Mackenzie Valley Transportation Corridor Granular Resources Databases, Northwest Territories, Canada	0101-11085	1992	Feb 7/2006	33580	Complete, no change
Paulatuk Granular Resources Inventory and Recommendations for Development	0701-10526	1991	Jan 12/2006	33568	Figures 2 and 3 missing (A1 drawings)
Mackenzie Valley database – Final report	0101–10123	1990	Feb 8/2006	33464	Appendix C is duplicated.
Final Report: Granular Resources Inventory, Dempster Highway Corridor, YT/NWT	0201-4989	1990	Mar 9,2006	33581	Appendix A – Drawings No. 4989-A-23 to Drawing No. 26 (1:250,000) are missing
Addendum Volume: Dempster Highway Granular Source Borehole Log Database – Test Hole Logs For Source 0377.8B (Eagle River Bridge Area) and Dempster Lateral Pipeline (no source number)	0201-4989	1990	Mar 9, 2006	33582	Complete, no change
Volume 1 of II: Dempster Highway Granular Source Borehole Log Database: Test Hole Logs for Source km 1.1 to km 190.3	0201-4800	1988	Mar 9/2006	33583	Complete – Source name and borehole numbers are corrected with red pen on our copy of the report
Granular Resources Database – Dempster Highway Corridor, YT/NWT	0201-4800	1988	Mar 10/2006	33465	Complete, no change



Table 4 Continued

Project	Project No.	Date	Date Reviewed	ASTIS	Remarks
Dempster Highway Granular Source Borehole Log Database – Volume II of II; Test Hole Logs For Sources km 194.7 to km 715.4	0201-4800	1988	Mar 10/2006	35166	Complete – Source name and borehole numbers are corrected with red pen on our copy of the report
Inuvialuit Settlement – Sand and Gravel Inventory and Recommendations for Development, Holman, NWT	0101 - 4575	1987	Feb 7/2006	33275	Drawing No. 0101-4575-002 missing; A1 size
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Inuvik	0101–4575	1987	Feb 8/2006	33274	1: Figures 4, 8, 13, 14, 15 & 16 are not clear 2: Demand Summary, Inuvik – Missing
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Paulatuk	0101–4575	1987	Feb 8/2006	33273	Figures 17 & 18 are not clear
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Tuktoyaktuk	0101–4575	1987	Feb 8/2006	33271	1: Figures 7, 21, 22, 23 & 24 are not clear 2: Supply Summary Tuktoyaktuk - Source: Parson Lake. 3 is missing
Evaluation of Potential Rock Quarries, Rocky Hill – Campbell Lake Area, NWT	1-1537	1976	Feb 7/2006	30402	1: Pages 8 & 9 missing 2: Appendix D: Site Pictures not very clear 3: Appendix E: Dwgs. 1, 2,3, 4, 5 and 10 not very clear.
Detailed Geotechnical Evaluation of Potential Sources of Granular Material at Devil's Lake (Source 326), Lucas Point (Source 222), Mackenzie Delta Area, NWT	1318	1976	Mar 2/2006	30403	1: Plates 1 to 12 are not clear. Some plates are duplicates 2: Drawings not clear 3: Some borehole logs and laboratory results missing
Granular Materials Inventory Stage III; Vol. I	E-666	1974	Feb 8/2006	30383	1: Not available online
Granular Materials Inventory Stage III; Vol. III	E-666	1974	Feb 8/2006	30383	1: Drawings created from airphotos are not clear.
Granular Materials Inventory Stage III; Vol. IV	E-666	1974	Feb 8/2006	30383	1: Drawings created from airphotos are not clear
Mackenzie Highway Geotechnical Evaluation Volume 1: Centre Line Subgrade Conditions and Borrow Resources mile 632 to mile 724.7	9305–52-307	1973	Feb 8/2006	35411	1: Complete, no change
Mackenzie Highway Geotechnical Evaluation Volume II; Airphoto Mosaics, Borrow Borehole Profiles and Centre Line Terrain Summary, Mile 725 to Mile 674	9305–52-307	1973	Mar 13,2006	35412	1: Page 1 right after the cover page missing 2: Last page missing



					Sponsor		Public D	omain
Serial No.	Description	Project No.	Year	Agency	Department	ASTIS (Library)	Permission to Release	Scanned copy provided
1	Borrow Source Investigation, Mackenzie Gas Project – Inuvialuit Settlement Area	1100077	2005	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		**	No
2	Borrow Source Investigation, Mackenzie Gas Project – Gwich'in Settlement Area	1100076	2005	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		**	No
3	NICO Mine Access Route, NWT – Evaluation of Alternative Routes and Identification of Potential Borrow Areas for Road Construction	1700127.001	2005	Private	Fortune Minerals Ltd.		Yes	Yes
4	Borrow Source Investigation, Mackenzie Gas Project – K'ahsho Got'ine District	1100046	2004	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		**	No
5	Borrow Source Investigation, Mackenzie Gas Project – Gwich'in Settlement Area	1100043	2004	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		**	No
6	Aggregate Survey, Taltson Hydro Facility, NWT	0701-15333	2001	Territorial	NTPC		Yes	Yes
7	Gravel Borrow Search, Snare Hydro, NWT	0701-14092	1999	Territorial	NTPC		Yes	Yes
8	Granular Resource Survey and Site Development, Lac de Gras, NWT Diamond Project	0101-11314	1993	Private	BHP		No	No
9	Granular Borrow Investigation, Snowdrift Airport, NWT	0701-10609	1992	Territorial	GNWT, DOT		Yes	Yes
10	Ulu Mine Phase 2 – Granular Resources Investigation, ULU Lake, NT	0101-10568.002	1991	Private	BHP-Utah Mines Ltd.		No	No
11	Geotechnical Evaluation of Selected Borrow Sites	NL	1980	Private	Algas Engineering Services Ltd.	33422	NL	NL
12	Site Evaluation – Proposed Shore Facilities, Wise Bay	101-2471	1979	Private	Dome Petroleum Ltd. and Canadian Marine Drilling Ltd.	40902 (ACU)	++	Yes
13	Ya Ya Granular Resources Study	1-965.3	1975	Private	Imperial Oil Ltd.	7023 (ACU NFSMO NWYPW NWII)	Yes	Yes
14	Preliminary Borrow Evaluation, Big Horn Point, Richards Island, NWT	E-965-1	1975	Private	Imperial Oil		No	No
15	NWT Highway No. 3, North of Fort Providence	NL	NL				NL	NL
16	Borrow Pit Evaluation Mile 8, Hay River, NWT	NL	NL				NL	NL

^{**:} DIAND requested to send release letter directly to ColtKBR; ++: Permission to release could not be obtained because the company does not exist any more; NTPC: Northwest Territories Power Corporation; GNWT, DOT: Government of Northwest Territories, Department of Transportation; NL: Not located



APPENDIX

APPENDIX A PRELIMINARY REPORT



EBA Engineering Consultants Ltd.

Creating and Delivering Better Solutions

April 12, 2005

EBA File: 1700160

Department of Indian Affairs and Northern Development Land and Water Management Division Northern Affairs Program/NRE Room 618, North Tower – 10 Wellington Street Hull, QC, K1A 0H4

Attention: Robert J. Gowan, P. Geol., Manager Land Programs

Subject: Preliminary Review of EBA Granular Resource Reports in NWT

1.0 INTRODUCTION

This report presents the results of a preliminary review of granular resource studies undertaken by EBA Engineering Consultants Ltd. (EBA) in the Northwest Territories (NWT). This report is the first component of a larger study. The main objective of this component was to identify and summarize the granular resources related work undertaken by EBA and its ancestors or affiliates in the NWT.

This project was completed under the authorization of Department of Indian Affairs and Northern Development (DIAND) Contract Requisition Number: A7133-04-0030.

2.0 SCOPE OF WORK

EBA's understanding of the required scope of work for this component of the project, consistent with Tasks 1, 2, and 3, as outlined in the draft contract, is as follows:

- Identify and prepare a list of all granular resource studies undertaken by EBA in the NWT;
- Indicate the sponsoring agency i.e. government department (Federal, Provincial, or Territorial) or private;
- Compare this list with records currently shown on the Northern Granular Resources Bibliography (NGRB) or Arctic Science and Technology Information System

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(ASTIS), and identify reports that have been indexed and/or accessible online in PDF; and

• Prepare a preliminary report documenting the findings from this review.

3.0 REVIEW METHODOLOGY

A review of EBA files was conducted for identification and preparation of a list of all granular resource projects completed by EBA in NWT. EBA's different offices involved in borrow investigations in the past were also approached to complete the list as much as possible. As these projects were completed for different private and public agencies, sponsorship of the studies was also indicated in the list.

This list was then compared with records currently shown on NGRB and ASTIS to find which EBA reports are accessible online in PDF. It should be noted that a quick search on NGRB for EBA's granular studies in NWT (geographic region = G0812), gives 80 titles. However, for the purpose of this project, only reports relevant to granular resources were considered. The reports with online draft version were also flagged in the list. This preliminary list was faxed to DIAND departmental representatives on March 07, 2005, for review.

The comments from DIAND departmental representatives were received on March 11, 2005. The list was updated in light of those comments, by indicating which EBA reports have been indexed in NGRB or ASTIS. The ASTIS record numbers and libraries having copies of the reports were also indicated in the list.

4.0 RESULTS

The results of this review are summarized in Table 1. This table describes a brief description of the projects (type of work, location), EBA's project number, sponsoring agency, ASTIS record numbers and the libraries having copies of these reports, and online availability of the report in PDF. It should be noted that reports of the projects listed in Table 1 are in different EBA's offices, and availability of some of these reports still needs to be confirmed. Also, in some cases, fieldwork may be completed but reports have yet to be finalized.

5.0 CLOSURE

We trust that you will find this information suitable for your purposes at this time. We would be pleased to provide any further information that may be needed. If you require any additional information please contact either of the undersigned.

Respectfully submitted, EBA ENGINEERING CONSULTANTS LTD.

Prepared by:

Reviewed by:

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Attachments

Table 1: Granular Resources Studies Undertaken by EBA in NWT

Table 1: Granular Resources Studies Undertaken By EBA in NWT

S. No	Description	Project	Year		Sponsor	ASTIS	Availa	bility
	•	No.		Agency	Department	(Library)	Online	EBA
1	Borrow Source Investigation, Mackenzie Gas Project – Inuvialuit Settlement Area	1100077	2005	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	NCY
2	Borrow Source Investigation, Mackenzie Gas Project – Gwich'in Settlement Area	1100076	2005	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	NCY
3	NICO Mine Access Route, NWT – Evaluation of Alternative Routes and Identification of Potential Borrow Areas for Road Construction	1700127.001	2005	Private	Fortune Minerals Ltd.		No	Yes
4	Borrow Source Investigation, Mackenzie Gas Project – K'ahsho Got'ine District	1100046	2004	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	LOE
5	Borrow Source Investigation, Mackenzie Gas Project – Gwich'in Settlement Area	1100043	2004	Private	ColtKBR on behalf of Imperial Oil Resources Ventures Ltd.		No	LOE
6	Aggregate Survey, Taltson Hydro Facility, NWT	15333	2001	Territorial	NTPC		No	Yes
7	Gravel Borrow Search, Snare Hydro, NWT	14092	1999	Territorial	NTPC		No	Yes
8	Granular Resource Investigation, Lac De Gras, NWT – Geotechnical Report	12174	1997	Federal	INAC	39766 (ACU)	No	Yes
9	Granular Resources Investigation, Lac De Gras, NWT - Geophysical Report	12174	1996	Federal	INAC	39767 (ACU)	No	Yes
10	Granular Resource Investigation, Geophysical Program, Unprocessed Geophysical Data – Northern Richard Island, NWT	TBD	1995	Federal	INAC	54968 (XQGLW)	No	LOE
11	Granular Resources Investigation, Northern Richard Island, NWT – Geotechnical Program (Vol. I, II)	0101-11413	1995	Federal	INAC	54759 (ACU XQGLW)	Yes	LOE
12	Geotechnical/Geological Investigation of Selected Granular Resource Prospects, Beaufort Sea	0101-11413	1995	Federal	INAC	53504 (XQGLW ACU)	Draft	LOE
13	Granular Resources Investigation, Source 222, Dempster Highway, km 222, Caribou Creek, NWT	TBD	1995	Federal	INAC	54768 (ACU XQGLW)	No	LOE
14	Esker Research Study, Sampling and Testing of Lac De Gras Area, NWT	11546	1995	Federal	INAC	53503 (XQGLW)	Yes	Yes



S. No	Description	Project	Voor		Sponsor	Indexed	Availa	bility
5. NO	Description	No.	Year	Agency	Department	(ASTIS)	Online	EBA
15	Granular Resource Survey and Site Development, Lac de Gras, NWT Diamond Project	0101-11314	1993	Private	ВНР		No	LOE
16	Mackenzie Valley Transportation Corridor, Granular Resources Database Workshop, Yellowknife	0306 – 34928	1993	Federal	SSC and INAC		No	Yes
17	Corrections to ESEBASE Mackenzie Valley Geotechnical Database, Phase 1	0101-11148	1993	Federal	SSC and INAC		No	Yes
18	Canadian Beaufort Sea Geotechnical and Geophysical Databases	0101-11085	1993	Federal	SSC and INAC	33402 (OORD ACU XQGLW)	Yes	LOE
19	Granular Borrow Investigation, Snowdrift Airport, NWT	10609	1992	Territorial	GNWT, DOT		No	Yes
20	Mackenzie Valley Transportation Corridor, Granular Resources Database, NWT	0101–11085	1992	Federal	SSC and INAC	33580 (ACU OORD)	Yes	Yes
21	Mackenzie Valley Transportation Corridor: Granular Resources Databases, NWT	0101-10902	1992	Federal	SSC and INAC		No	Yes
22	Paulatuk Granular Resources Inventory and Recommendations for Development	10526	1991	Territorial	GNWT, DOT	33568	Yes	Yes
23	Mackenzie Valley Transportation Corridor, Geotechnical Database	0306-34693	1991	Federal	SSC	30847 (ACU OORD)	No	Yes
24	Ulu Mine Phase 2 – Granular Resources Investigation, ULU Lake, NT	0101-10568.002	1991	Private	BHP-Utah Mines Ltd.		No	LOE
25	Final Report: Granular Resources Inventory, Dempster Highway Corridor, YT/NWT	0201-4989	1990	Federal	INAC	33581 (ACU XNWYL YWED XQGLW)	Yes	LOE
26	Addendum Volume: Dempster Highway Granular Source Borehole Log Database – Test Hole Logs For Source 0377.8B (Eagle River Bridge Area) and Dempster Lateral Pipeline (no source number)	0201-4989	1990	Federal	INAC	33582 (YWED XNWYL XQGLW)	Yes	LOE
27	Mackenzie Valley Database – Final Report	0101-10123	1990	Federal	INAC	33464 (OORD XQGLW ACU)	Yes	LOE
28	Summary of Granular Resources Data for the Upper Mackenzie Valley (Fort Providence to Norman Wells)	0306-34395	1988	Public	INAC	35165 (ACU NWII XQGLW)	Yes	LOE



S. No	Description	Project Year		Sponsor		Indexed	Availa	Availability	
	r	No.	•	Agency	Department	(ASTIS)	Online	EBA	
29	Volume 1 of II: Dempster Highway Granular Source Borehole Log Database: Test Hole Logs for Source km 1.1 to km 190.3	0201-4800	1988	Federal	INAC	33583 (OORD XQGLW)	Yes	LOE	
30	Granular Resources Database – Dempster Highway Corridor, YT/NWT	0201-4800	1988	Federal	INAC	33465 (OORD NWII ACU XQGLW)	Yes	LOE	
31	Dempster Highway Granular Source Borehole Log Database – Volume II of II; Test Hole Logs For Sources km 194.7 to km 715.4	0201-4800	1988	Federal	INAC	35166 (XNWYL ACU XQGLW)	Yes	LOE	
32	Compilation of Borehole Logs for Mackenzie Delta Area, NWT	TBD	1987	Federal	INAC	33683 (OORD)	No	LOE	
33	Inuvialuit Settlement Sand and Gravel Inventory and Management Plan, 1:125,000 Maps, Addendum to draft report	TBD	1987	Federal	INAC	35164 (XQGLW)	No	LOE	
34	Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Aklavik	0101-4575	1987	Federal	INAC	33276 (ACU OORD NWYPW NWII)	No	Yes	
35	Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Holman	0101-4575	1987	Federal	INAC	33275 (ACU OORD NWYPW)	Yes	Yes	
36	Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Inuvik	0101-4575	1987	Federal	INAC	33274 (ACU OORD NWYPW, NWII, XQGLW)	Yes	Yes	
37	Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Paulatuk	0101-4575	1987	Federal	INAC	33273 (ACU OORD NWYPW NWII)	Yes	Yes	
38	Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Sachs Harbour	0101-4575	1987	Federal	INAC	33272 (ACU OORD NWYPW NWII)	No	Yes	
39	Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Tuktoyaktuk	0101-4575	1987	Federal	INAC	33271 (ACU OORD NWYPW NWII XQGLW)	Yes	Yes	
40	An evaluation of the Feasibility of Developing Granular Borrow from the Bed of the Mackenzie River	0301-34288	1987	Federal	INAC	29179 (ACU OORD XQGLW)	Yes	LOE	



S. No	Description	Project	Year		Sponsor	Indexed	Availability	
	•	No.	•	Agency	Department	- (ASTIS)	Online	EBA
41	Granular Resources Evaluation, Richard Island, NWT	0101-4480	1986	Federal	INAC	20709 (ACU OORD NWII)	Yes	LOE
42	Granular Resource Development and Management Plan for Tuktoyaktuk, NWT	101-3760	1983	Federal	INAC	33403 (ACU OORD NWII XQGLW)	Yes	LOE
43	Evaluation of Potential Sources of Quarry Rock for Beaufort Marine Structures – Preliminary Report	101-3929	1983	Federal	INAC	55899 (XQGLW)	Yes	LOE
44	Evaluation of Potential Sources of Quarry Rock for Beaufort Marine Structures	101-3929	1983	Federal	INAC	35009 (ACU NWII YWED XQGLW)	Yes	LOE
45	Geotechnical Evaluation of Selected Borrow Sites	TBD	1980	Private	Algas Engineering Services Ltd.	33422	No	LOE
46	Site Evaluation – Proposed Shore Facilities, Wise Bay	101-2471	1979	Private	Dome Petroleum Ltd. and Canadian Marine Drilling Ltd.	40902 (ACU)	No	Yes
47	Detailed Geotechnical Evaluation of Potential Sources of Granular Material at Devil's Lake (Source 326), Lucas Point (Source 303), and Swimming Point (Source 222), Mackenzie Delta Area, NWT	1-1318	1976	Federal	INAC	30403 (ACU OORD NWYPW NWII)	Yes	LOE
48	Evaluation of Potential Rock Quarries, Rocky Hill – Cambell Lake Area, NWT	1-1537	1976	Federal	DIAND	30402 (ACU OORD XNWYL XQGLW)	Yes	Yes
49	Ya Ya Granular Resources Study	1-965.3	1975	Private	Imperial Oil Ltd.	7023 (ACU NFSMO NWYPW NWII)	No	LOE
50	Granular Materials Inventory, Stage III, Vol.1, General Report (Data in Vol. II, III, IV)	E-666	1975	Federal	INAC		Yes	LOE
51	Granular Material Inventory, Stage III, Vol. III and Vol. IV, North Half (Sites 1054, 1055, 1061-1110, 1111-1156)	E-666	1974	Federal	INAC	30383 (ACU OORD NWII XNWYL XQGLW)	Yes	LOE



S. No	Description	Project	Year	Sponsor		Indexed	Availa	Availability	
	K	No.		Agency	Department	(ASTIS)	Online	EBA	
52	Mackenzie Highway Geotechnical Evaluation – Volume III; Borrow Borehole Logs, Mosaics, and Borrow Profiles, Borrow Area Summary Table, Section, Mile 705 to Mile 689	TBD	1973	Federal	DPW, Government of Canada	35402 (AEMTC)	No	LOE	
53	Mackenzie Highway Geotechnical Evaluation – Volume X; Borrow Borehole Logs, Mosaics and Borrow Profiles, Borrow Area Summary Table, Section III, Mile 688 to Mile 669	TBD	1973	Federal	DPW, Government of Canada	35404 (AEMTC)	No	LOE	
54	Mackenzie Highway Geotechnical Evaluation – Volume XII; Borrow Borehole Logs, Mosaics, and Borrow Profiles, Borrow Area Summary Table, Section IV, Mile 668 to Mile 649	TBD	1973	Federal	DPW, Government of Canada	35406 (AEMTC)	No	LOE	
55	Mackenzie Highway Geotechnical Evaluation – Volume XIV – Borrow Borehole Logs, Mosaics, and Borrow Profiles, Borrow Area Summary Table, Section V, Mile 648 to Mile 632	TBD	1973	Federal	DPW, Government of Canada	35408 (AEMTC)	No	LOE	
56	Mackenzie Highway Geotechnical Evaluation – Volume VI; Borrow Borehole Logs, Mosaics and Borrow Profiles, Borrow Area Summary Table, Section 1, Mile 725 to Mile 706	TBD	1973	Federal	DPW, Government of Canada	35410 (AEMTC)	No	LOE	
57	Mackenzie Highway Geotechnical Evaluation – Volume 1; Centre Line Subgrade Conditions and Borrow Resources, Mile 632 to Mile 724.7	9305-52-307*	1973	Federal	DPW, Government of Canada	35411 (AEMTC ACU)	Yes	Yes	
58	Mackenzie Highway Geotechnical Evaluation – Volume II; Airphoto Mosaics, Borrow Borehole Profiles and Centre Line Terrain Summary, Mile 725 to Mile 674	TBD	1973	Federal	DPW, Government of Canada	35412 (AEMTC ACU)	Yes	LOE	
59	Mackenzie Highway Geotechnical Evaluation - Volume III; Airphoto Mosaics, Borrow Borehole Profiles, and Centre Line Terrain Summary, Mile 674 to Mile 632	TBD	1973	Federal	DPW, Government of Canada	35413 (AEMTC ACU)	No	LOE	
60	Preliminary Borrow Evaluation, Big Horn Point, Richard Island, NWT	TBD	TBD	Private	Imperial Oil		No	LOE	



Cont'd Table 1

S. No	Description	Project	Year	Sponsor		Indexed	Availability	
	_	No.		Agency	Department	(ASTIS)	Online	EBA
61	NWT Highway No. 3, North of Fort Providence	TBD	TBD	Territorial	GNWT, DOT		No	LOE
62	Borrow Pit Evaluation Mile 8, Hay River, NWT	TBD	TBD	Private	Imperial Oil		No	LOE

^{*} E.W. Brooker & Associates Ltd.

INAC: Indian and Northern Affairs Canada;

LOE: Reports located in other EBA offices; availability of reports not yet confirmed.

NCY: Fieldwork complete, reports not final yet NTPC: Northwest Territories Power Corporation; SSC: Supply and Services Canada; and TBD: To be determined;



APPENDIX

APPENDIX B CORRECTED REPORTS



APPENDIX B – CORRECTED REP	ORTS	
Project	Project No.	ASTIS
Granular Resources Investigation Northern Richards Island, NWT (Volume I of II) Geotechnical Program	0101–11413	54759
Granular Resources Investigation Northern Richards Island, NWT (Volume II of II) Geotechnical Program	0101–11413	54759
Geotechnical/Geological Investigation of Selected Granular Resources Prospect: Beaufort Sea	0101-11413	53503
Paulatuk Granular Resources Inventory and Recommendations for Development	0701-10526	33568
Mackenzie Valley database – Final report	0101–10123	33464
Final Report: Granular Resources Inventory, Dempster Highway Corridor, YT/NWT	0201-4989	33581
Volume 1 of II: Dempster Highway Granular Source Borehole Log Database: Test Hole Logs for Source km 1.1 to km 190.3	0201-4800	33583
Dempster Highway Granular Source Borehole Log Database – Volume II of II; Test Hole Logs For Sources km 194.7 to km 715.4	0201-4800	35166
Inuvialuit Settlement – Sand and Gravel Inventory and Recommendations for Development, Holman, NWT	0101 - 4575	33275
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Inuvik	0101–4575	33274
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Paulatuk	0101–4575	33273
Inuvialuit Settlement Sand and Gravel Inventory and Recommendations for Development, Tuktoyaktuk	0101–4575	33271
Evaluation of Potential Rock Quarries, Rocky Hill – Campbell Lake Area, NWT	1-1537	30402
Detailed Geotechnical Evaluation of Potential Sources of Granular Material at Devil's Lake (Source 326), Lucas Point (Source 222), Mackenzie Delta Area, NWT	1318	30403
Granular Materials Inventory Stage III; Vol. I	E-666	30383
Granular Materials Inventory Stage III; Vol. III	E-666	30383
Granular Materials Inventory Stage III; Vol. IV	E-666	30383
Mackenzie Highway Geotechnical Evaluation Volume II; Airphoto Mosaics, Borrow Borehole Profiles and Centre Line Terrain Summary, Mile 725 to Mile 674	9305–52-307	35412



APPENDIX

APPENDIX C RELEASE LETTERS





Mr. Anwar Majid, P. Eng., Geotechnical Engineering EBA Engineering Consultants Ltd. 210, 4916 – 49TH Street P.O. Box 2244, Yellowknife, NT X1A 2P7

Approval to Use Reports
Granular Borrow Investigation – Snowdrift (Lutsel k'e) Airport
Project No.: 0701-10609 (April 1992)

You are hereby authorized to forward the above noted report to Indian and Northern Affairs Canada for bibliographic indexing and release to public domain as per your request dated January 12, 2006.

Attached is the signed Permission to Release Report to Public Domain form.

If you have any questions regarding this authorization, please contact me at (867)873-7647.

Sincerely,

Larry Purcka

(As 620.

Manager Technical Services,

Highways Division

Report Name:

1.	Granular Borrow Investigation – Snowdrift Airport, NT Project No: 0701-10609 (April 1992)
	Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing and release to public domain.
	Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing and other release to public domain only under the following conditions:
-	Report has already been released to public domain
ם	No, approval is not granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing or for release to public domain
	LARRY PURCEA DE DE DATE Me (printed) Signature Date
	MANAGER TECHNICAL SERVICES - HIGHWAUS DIVISION
Pos	MANAGER TECHNICAL SERVICES - HIGHWAYS DIVISIONS ition/Department GNWT DEPT. OF TRANSPORTATION. Company



Report Name:

- Granular Borrow Search Snare Hydro, NT Project No: 0701-99-14092 (November 1999)
- 2. Aggregate Survey – Taltson Hydro Facility, NT Project No: 0701-01-15333 (December 2001)
- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing and release to public domain.
- Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing and other release to public domain only under the following conditions:

- Report has already been released to public domain
- No, approval is not granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing or for release to public domain

Department Northwest Territories
Company
Power Corporation



<u>Rep</u>	oort Name:	RECEIVED
1.	NICO Mine Access Route Evaluation, NWT Project No: 1700127.001 (March 2005)	FEB 0 2 2006
×	Yes, approval is unconditionally granted for the abount them. Affairs Canada for bibliographic indexing an	
	Approval is granted for the above report to be for Canada for bibliographic indexing and other release to conditions:	
	Report has already been released to public domain	
<u> </u>	No, approval is not granted for the above report to be Affairs Canada for bibliographic indexing or for releas	
Nor	Rabie E. Good	Jan 27/2000
R	me (printed) Signature Three Min	ests Limited
Pos	ition/Department	Company



Report Name:

yes 1.	Ya Ya Granular Resources Study.
<i>گ</i>	Project No: 1-965.3 (September 1975)

Preliminary Borrow Evaluation, Big Horn Point, Richard Island, NT Project No: 1-1247 (October 1975)

- Yes, approval is unconditionally granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing and release to public domain.
- Approval is granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing and other release to public domain only under the following conditions:

Only the Ja Ya Granular Resources Study may be released.

- Report has already been released to public domain
- No, approval is not granted for the above report to be forwarded to Indian and Northern Affairs Canada for bibliographic indexing or for release to public domain

Arnold Martinson Soud Martinson Jean 6/06
Name (printed)
Signature
Date

Sr. Proj. Eng.

Position/Department

Imperial 0,1 Resources,

Company



APPENDIX

APPENDIX D CURRENTLY RELEASED REPORTS



APPENDIX D: CURRENTLY RELEASED REPORTS			
Project	EBA Project No.		
NICO Mine Access Route Evaluation, NWT	1700127.001		
Aggregate Survey, Taltson Hydro Facility, NWT	15333		
Gravel Borrow Search, Snare Hydro, NWT	14092		
Granular Borrow Investigation, Snowdrift Airport, NWT	10609		
Ya Ya Granular Resources Study	1-965.3		

