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June 1, 2005

Northwest Territories Water Board
P.O. Box 1326
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X1A 2N9

COPY	
BOARD	6
G. W.	1
E. A.	1
W. RES.	0215
NMDO	1
FILE	1803

Via e-mail c/o jacksonf@inac.gc.ca

Attention: David Milburn
Technical Advisor

RE: Final report regarding NT Water Board Type 'B' Water License No. N7L1-1803

David,

In compliance with Part B: General Conditions – Section 1 of the NT Water License No. N7L1-1803 relating to the 2005 Winter Field Geotechnical Investigation Program - Inuvialuit Settlement Area, I have attached the final report on the program which was completed on March 15, 2005.

This report contains the following information which was recorded by the general contractor, ColtKBR:

- a) the total quantity in cubic meters of fresh water obtained from each water source;
- b) details of work completed;
- c) a list of spills and unauthorized discharges;
- d) results from all monitoring programs; and
- e) any other details on water use or waste disposal requested by the NT Water Board.

If you have any questions, please contact me at (403) 237-2806 or Doug Loughheed of ColtKBR (403) 301-7089.

Sincerely,



J.R. Hawkins
Pipeline Regulatory Manager

cc: Kevin Glowa, INAC



Attachment a)

**2005 WINTER FIELD GEOTECHNICAL INVESTIGATION PROGRAM –
INUUVIALUIT SETTLEMENT REGION**

**FINAL REPORT ON WATER WITHDRAWALS FROM APPROVED WATER
SOURCES**

NT Water Board License: N7L1-1803

Date	Volume (m³/day)	Water Source
February 8, 2005	32	Peter Lake
February 8, 2005	32	Peter Lake
February 9, 2005	40	Peter Lake
February 10, 2005	93	Peter Lake
February 11, 2005	95	Peter Lake
February 12, 2005	109	Peter Lake
February 13, 2005	133	Peter Lake
February 14, 2005	160	Peter Lake
February 15, 2005	95	Peter Lake
February 17, 2005	141	Peter Lake
Total Volume Withdrawn	898 m³	

NOTES:

1. Approved lakes are:
 - Peter Lake
 - Lake 28 (near proposed Storm Hills pigging facility site)
 - Lake 25 (near borrow site 2.029PB)
 2. Maximum allowable daily water withdrawal from all approved water sources is 300 m³/day
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Attachment b)

**2005 WINTER FIELD GEOTECHNICAL INVESTIGATION PROGRAM –
INUVIALUIT SETTLEMENT REGION**

FINAL REPORT ON DETAILS OF WORK COMPLETED

NT Water Board License: N7L1-1803

Investigation Site	Construction Activity	Site Access
Borrow Site 1.004P	6 test-pits excavated	2.64 ha of access
Borrow Site 2.029P	3 test-pits excavated	4.06 ha of access
Borrow Site 2.029PB	3 test-pits excavated	7.64 ha of access
Storm Hills Piggery Facility	4 drill sites	18.81 ha of access
Borrow Site 20.038P	2 test-pits excavated 6 drill sites	3.89 ha of access

Attachment c)

INUVIALUIT SETTLEMENT REGION – 2005 WINTER FIELD GEOTECHNICAL INVESTIGATION PROGRAM

FINAL SPILL REPORT SUMMARY

NT Water Board License: N7L1-1803

Report Number	Spill Date	Material Spilled	Quantity Spilled	Comments, Action, Notifications and Follow-up
1	Jan 31, 2005	Engine Oil	2.0 litres	A small quantity of engine oil spilled from an open refill line at the Storm Hills staging area. The spill was contained on the snow-covered staging area. The contaminated snow was bagged and stored in a C-CAN. The spill was reported to the NT 24-hour Spill Report Line as it occurred on the ice surface of the Mackenzie River side channel. As a follow-up action item all filler caps will be checked prior to equipment and vehicles moving on the Program.
2	Feb 9, 2005	Anti-Freeze (Ethylene glycol)	<1 litre	The coolant leaked from a dozer at the north end of the airstrip located at Swimming Point Camp. The spill was contained to undisturbed snow. The contaminated snow was collected and bagged in plastic bags and disposed of in the contaminated snow bin located at Swimming Point. Photos were taken and the incident was noted on the daily environmental inspection report.
3	Feb 11, 2005	Gear Oil	<1 litre	Gear oil leaked from a Hitachi 300 excavator while digging test pits at borrow site 1.004P northeast of Swimming Point Camp. The contaminated snow was bagged and stored in a C-CAN at Swimming Point. As a follow-up drip trays will be mandatory under all stationary equipment.
4	Feb 20, 2005	Gasoline	< 1 litre	Gasoline spilled onto snow while transferring gas from a jerry can to a snowmobile. The contaminated snow was bagged and deposited in a C-CAN at Swimming Point Camp.
5	Feb 26, 2005	Anti-Freeze (Ethylene glycol)	<1 litre	The coolant leaked from a cracked radiator on a disabled truck at the Staging Area. The spill was contained to the immediate area onto packed snow. The contaminated snow was collected, bagged and deposited in a C-CAN at the Staging Area.

Attachment d)

2005 WINTER FIELD GEOTECHNICAL INVESTIGATION PROGRAM –
INUVIALUIT SETTLEMENT REGION

FINAL REPORT ON RESULTS OF MONITORING PROGRAMS

NT Water Board License: N7L1-1803

February 8	Peter Lake dissolved oxygen was measured prior to water withdrawal	
	▪ depth of measurement	2m
	▪ water temperature	-0.4°C
	▪ concentration	15.9 mg/L
	▪ depth of measurement	4m
	▪ water temperature	0.1°C
	▪ concentration	17.9 mg/L
February 17	Peter Lake dissolved oxygen was measured prior to water withdrawal	
	▪ depth of measurement	2m
	▪ water temperature	-0.5°C
	▪ Concentration	12.6 mg/L
	▪ depth of measurement	4m
	▪ water temperature	0.2°C
	▪ Concentration	10.8 mg/L

Attachment e)

**2005 WINTER FIELD GEOTECHNICAL INVESTIGATION PROGRAM –
INUVIALUIT SETTLEMENT REGION**

**FINAL REPORT ON OTHER DETAILS REQUESTED BY THE NT WATER
BOARD**

NT Water Board License: N7L1-1803

- **There were no other details requested by the NT Water Board**