

**Preliminary Screening Report Form**

Preliminary screener: MVLWB Reference / File number: MV2015X0008 TITLE: Geotechnical Drilling ORGANIZATION: Government of the Northwest Territories- Public Works and Services MEETING DATE: July 16, 2015	EIRB Reference number:
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**Type of Development:**  
(CHECK ALL THAT APPLY)

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | New  |
| <input type="checkbox"/>            | Amend, EIRB Ref. #                                 |
| <input checked="" type="checkbox"/> | Requires permit, licence, or authorization         |
| <input type="checkbox"/>            | Does not require permit, licence, or authorization |

**Project Summary**

- Drilling of boreholes for geotechnical investigations on properties owned by the Government of the Northwest Territories within the municipality of Yellowknife, Northwest Territories.

**W 114°31' N 62°24'30", W 114°20' N 62°27'28", W 114°18' N 62°32'30", W 114°26' N 62°30'**

**Equipment List:**

Track-mounted CME 850 geotechnical drill; approx. 2.4m by 6m, approx. 5,500kg

**Scope**

- a) Geotechnical drilling investigations in all Commissioner's/Territorial and GNWT Airports land (zoned A with the City of Yellowknife) within the municipal boundaries of Yellowknife

Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations

**Type of Disposition**

Disposition Number(s)

- Mineral Claims
- Prospecting Permit (s)
- Mineral Leases
- Oil and Gas: EL/SDL/PL
- Quarry Permit
- Timber Permit
- Other:

Legal Description of GNWT – PWS Owned Properties:

- a) LOT 851, GROUP 964, CLSR 50878, L.T.O 266
- b) LOTS 676-46 AND 676-47, GROUP 964, CLSR 56735, LTO 677
- c) LOT 1 AND ROAD REMAINDER, BLOCK 903, CLSR 84155, L.T.O 3591
- d) LOTS 1 AND 4, BLOCK 904, CLSR 84773, L.T.O 3648
- e) LOTS 1 TO 11 AND ROAD R2 RANGE LAKE, BLOCK 905, CLSR 84602, L.T.O 3635
- f) LOTS 6 to 9, 11 AND 13 AND 15, BLOCK 906, CLRS 95003, L.T.O 4214
- g) LOTS 17 TO 27 AND 29 TO 55, BLOCK 906, CLSR 95384, L.T.O. 4234
- h) ROAD R11 RANGE LAKE, CLSR 95113, L.T.O. 4215
- i) LOTS 59 AND 62, BLOCK 906, CLSR 100042, L.T.O. 4410
- j) LOTS 64-66, BLOCK 906, CLSR 100417, L.T.O. 4431
- k) LOTS 97 & 98, BLOCK 906, C.L.S.R. 101278, L.T.O. 4469
- l) LOTS 103 TO 134, BLOCK 906, ROADS R15 TO R20 RANGE LAKE AND TAXIWAY, CLSR 102408, L.T.O. 4549
- m) LOTS 101 TO 102, BLOCK 906 CLSR 102407 LTO 4547
- n) LOT 63, BLOCK 906, C.L.S.R. 100042, L.T.O. 4410

**Principal Activities (related to scoping)**

(CHECK ALL THAT APPLY)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Construction                                  | <input type="checkbox"/> Exploration       | <input type="checkbox"/> Decommissioning |
| <input type="checkbox"/> Installation                                  | <input type="checkbox"/> Industrial        | <input type="checkbox"/> Abandonment     |
| <input type="checkbox"/> Maintenance                                   | <input type="checkbox"/> Recreation        | <input type="checkbox"/> Aerial          |
| <input type="checkbox"/> Expansion                                     | <input type="checkbox"/> Municipal         | <input type="checkbox"/> Harvesting      |
| <input type="checkbox"/> Operation                                     | <input type="checkbox"/> Quarry            | <input type="checkbox"/> Camp            |
| <input type="checkbox"/> Repair  | <input type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific/     |
| <input type="checkbox"/> Research                                      | <input type="checkbox"/> Sewage            | <input type="checkbox"/> Solid Waste     |
| <input type="checkbox"/> Water Intake                                  |  |  |
| <input checked="" type="checkbox"/> Other: Geotechnical Investigations |  |  |

**Principal Development Components (related to scoping)**

- |   |   |
|---|---|
| <input type="checkbox"/> Access Road<br><input type="checkbox"/> construction<br><input type="checkbox"/> abandonment/removal<br><input type="checkbox"/> modification e.g., widening, straightening<br><input type="checkbox"/> Automobile, Aircraft or Vessel Movement<br><input type="checkbox"/> Blasting<br><input type="checkbox"/> Building<br><input type="checkbox"/> Burning<br><input type="checkbox"/> Burying<br><input type="checkbox"/> Channelling<br><input type="checkbox"/> Cut and Fill<br><input type="checkbox"/> Cutting of Trees or Removal of Vegetation<br><input type="checkbox"/> Dams and Impoundments<br><input type="checkbox"/> construction<br><input type="checkbox"/> abandonment/removal<br><input type="checkbox"/> modification<br><input type="checkbox"/> Ditch Construction<br><input type="checkbox"/> Drainage Alteration<br><input type="checkbox"/> Drilling other than Geoscientific<br><input type="checkbox"/> Ecological Surveys<br><input type="checkbox"/> Excavation<br><input type="checkbox"/> Explosive Storage<br><input type="checkbox"/> Fuel Storage<br><input type="checkbox"/> Topsoil, Overburden or Soil<br><input type="checkbox"/> fill<br><input type="checkbox"/> disposal<br><input type="checkbox"/> removal<br><input type="checkbox"/> storage | <input type="checkbox"/> Waste Management<br><input type="checkbox"/> disposal of hazardous waste<br><input type="checkbox"/> waste generation<br><input type="checkbox"/> sewage<br><input type="checkbox"/> disposal of sewage<br><input type="checkbox"/> Geoscientific Sampling<br><input type="checkbox"/> Trenching<br><input type="checkbox"/> Diamond drill<br><input type="checkbox"/> Borehole core sampling<br><input type="checkbox"/> Bulk soil sampling<br><input type="checkbox"/> gravel<br><input type="checkbox"/> hydrological Testing<br><input type="checkbox"/> Site Restoration<br><input type="checkbox"/> fertilization<br><input type="checkbox"/> grubbing<br><input type="checkbox"/> planting/seeding<br><input type="checkbox"/> reforestation<br><input type="checkbox"/> scarify<br><input type="checkbox"/> spraying<br><input type="checkbox"/> re-contouring<br><input type="checkbox"/> Slashing and removal of vegetation<br><input type="checkbox"/> Soil Testing<br><input type="checkbox"/> Stream Crossing/Bridging<br><input type="checkbox"/> Tunnelling/Underground<br><input checked="" type="checkbox"/> Other: Geotechnical Drilling |
|---|---|

**NTS topographic map sheet numbers:**  
85J8

**Latitude / longitude and UTM system:**

W 114°31' N 62°24'30", W 114°20' N 62°27'28", W 114°18' N 62°32'30", W 114°26' N 62°30'

**Nearest community and water body:**

Yellowknife, Great Slave Lake

**Land Status (consultation information)**

- Free Hold/Private     
  Commissioner's/Territorial Lands     
  Federal Crown Land     
  Municipal Land

**Transboundary/Transregional Implications**

- |   |  |   |                                |
|---|--|---|--------------------------------|
| <input type="checkbox"/> British Columbia | <input type="checkbox"/> Alberta       | <input type="checkbox"/> Saskatchewan                 | <input type="checkbox"/> Yukon |
| <input type="checkbox"/> Nunavut          | <input type="checkbox"/> National Park | <input type="checkbox"/> Inuvialuit Settlement Region |                                |
| <input type="checkbox"/> Wek'èezhìì       | <input type="checkbox"/> Gwich'in      | <input type="checkbox"/> Sahtu                        |                                |

**Type of transboundary implication:**       Impact / Effect       Development

Public concern: \_\_\_\_\_  
(Describe.)

**Physical - Chemical Effects**

<i>Impact</i>	<i>Mitigation</i>	<i>Location of condition</i>
<b>1) Ground Water</b>		
<input type="checkbox"/> water table alteration		
<input type="checkbox"/> water quality changes		
<input type="checkbox"/> infiltration changes		
<input type="checkbox"/> other:		
<input checked="" type="checkbox"/> N/A		

<i>Impact</i>	<i>Mitigation</i>	<i>Location of condition</i>
<b>2) Surface Water</b>		

flow or level changes

water quality changes

There is a minor risk that fuel could potentially be spilled during the operation. Standard conditions requiring spill equipment and adherence to a spill contingency plan will mitigate this risk. **26(1)(m)**

water quantity changes

drainage pattern changes

temperature

wetland changes/loss

other:

N/A

**Impact**  
**3) Noise**

**Mitigation**

**Location of condition**

noise in/near water

noise increase

There will be increased noise during drilling activities. These will be temporary in nature. No mitigation is suggested.

other:

N/A

**Impact**  
**4) Land**

**Mitigation**

**Location of condition**

geologic structure changes

soil contamination

buffer zone loss

soil compaction and settling

destabilization/erosion

permafrost regime alteration

explosives/scarring

other:

N/A

**Impact**  
**5) Non-renewable natural resources**

**Mitigation**

**Location of condition**

resource depletion

other:

N/A

**Impact**  
**6) Air/climate/atmosphere**

**Mitigation**

**Location of condition**

other:

N/A

**BIOLOGICAL ENVIRONMENT**

**Impact**

**1) Vegetation**

**Mitigation**

**Location of condition**

- species composition
- species introduction
- toxin/heavy accumulation
- other: Linear Migration routes, habitat fragmentation
- N/A

**Impact**

**2) Wildlife and Fish**

**Mitigation**

**Location of condition**

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change
- health changes
- behavioural changes
- habitat changes / effects
- game species effects
- toxins/ heavy metals
- forestry changes
- agricultural changes
- other:
- N/A

**Interacting Environment**

**Impact**

**1) Habitat and Communities**

**Mitigation**

**Location of condition**

- predator-prey
- wildlife habitat/ecosystem composition changes
- reduction/removal of keystone or endangered species
- removal of wildlife corridor or buffer zone
- other:
- N/A

**Impact**

**2) Social and Economic**

**Mitigation**

**Location of condition**

- planning/zoning changes or conflicts

- increase in urban facilities or services use
- rental house
- airport operations/capacity changes
- human health hazard
- impair the recreational use of water or aesthetic quality
- affect water use for other purposes
- affect other land use operations
- quality of life changes
- public concern
- other:
- N/A

**Impact**

3) **Cultural and Heritage**

**Mitigation**

**Location of condition**

- effects to historic property
- increased economic pressure on historic properties
- change to or loss of historic resources
- change to or loss of archaeological resources
- increased pressure on archaeological sites
- change to or loss of aesthetically important sites
- effects to aboriginal lifestyle
- other:
- N/A

- Pursuant to Schedule 4.1 of the **Northwest Territory Métis Nation** (NWTMN) Interim Measures Agreement, the MVLWB determined that written notice was given to the NWTMN and that a reasonable period of time was allowed for NWTMN to make representations with respect to the application.
- Pursuant to subsection 1.6, paragraphs (a) and (b) of the **Akaiicho Territory Dene First Nations** (ATDFN) Interim Measures Agreement, the MVLWB determined that written notice was given to the ATDFN and that a reasonable period of time was allowed for ATDFN to make representations with respect to the Application.

Preliminary Screener / Referring Body Information

<b>Organization</b>
AANDC
AANDC-CARD
Akaitcho IMA Implementation Office
Back Bay Community Association
Bathurst Inlet Development Ltd.
Bathurst Inlet Lodge
Boxxer Gold Corp.
Canadian Northern Economic Development Agency
CanNor NWT Region
City of Yellowknife
Dene Nation
Deninu K'ue First Nation
Deninu K'ue First Nation
Ecology North
Environment Canada
Fisheries and Oceans Canada
Fort Resolution Metis Council
Fort Smith Metis Council
GNWT
GNWT - Department of Transportation
GNWT - Environment and Natural
GNWT - Health
GNWT - ITI

GNWT - ITI
GNWT - Lands
GNWT - MACA
GNWT - Prince of Wales Northern
Golder Associates
Golder Associates
Gov of Canada
Hamlet of Enterprise
Hamlet of Fort Resolution
Hay River Metis Council
Katlodeeche First Nation
Kivalliq Inuit Association
Lutsel K'e Dene First Nation - Chief or
Mackenzie Valley Environmental
Manitoba Denesuline
National Energy Board
North Slave Metis Alliance
Northwest Territory Metis Nation
NWT Metis Nation
Salt River First Nations
Smith Landing First Nation
Snap Lake Environmental Monitoring
Town of Fort Smith
Town of Hay River
West Point First Nation
Workers' Safety and Compensation
Yellowknives Dene First Nation

**Reasons For Decision**

(List all reasons and supporting rationales for preliminary screening decision)

**DECISION**

The Mackenzie Valley Land and Water Board (the Board) is satisfied that the preliminary screening of Application MV2015X0008 – GNWT – Public Works and Services - Yellowknife has been completed in accordance with section 125 of the *Mackenzie Valley Resource Management Act* (MVRMA).

The Board is satisfied that communities and First Nations affected by the Application have been notified and provided adequate time to provide comment on the Application as required by land claim and self government agreements, the MVRMA, policy directions relating to Interim Measures Agreements, and any other applicable legislation and agreements.

Having reviewed all relevant evidence on the Public Registry, including the submissions of the Applicant, the written comments received by the Board and any Staff Reports prepared for the Board, the Board has decided that in its opinion:

- The proposed development will not have a significant adverse impact on the environment; and
- The proposed development is not a cause of public concern.

The Board is also of the opinion that the Application can proceed through the regulatory process and that any impacts of the development on the environment can be mitigated through the imposition of the terms and conditions in the attached Land Use Permit.

As a result, the Board, having due regard to the facts and circumstances, the merits of the submissions made to it, and to the purpose, scope, and intent of the MVRMA and the Mackenzie Valley Land Use Regulations, has decided that this Land Use Permit be issued subject to the terms and conditions contained therein.

<b>Preliminary Screening Decision</b>	
<input type="checkbox"/>	<b>Outside Local Government Boundaries</b>
<input type="checkbox"/>	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input checked="" type="checkbox"/>	<b>Wholly Within Local Government Boundaries</b>
<input type="checkbox"/>	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>

**Preliminary Screening Organization**

Mackenzie Valley Land and Water Board

July 16, 2015

**Signatures**

