

Preliminary Screening Report Form

Preliminary screener: MVLWB Reference / File number: MV2014L1-0005 TITLE: Yellowknife Soils and Water Treatment Facility ORGANIZATION: KBL Environmental Ltd. MEETING DATE: September 8, 2016	EIRB Reference number:
--	-------------------------------

Type of Development:
(CHECK ALL THAT APPLY)

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | New |
| <input checked="" 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

- Treating hydrocarbon contaminated soil using a bio-treatment pad
- Treating hydrocarbon contaminated snow and ice using a packaged treatment plant

Scope

The original Licence was issued June 5, 2014. On July 12, 2016, KBL Environmental Ltd. submitted an application to amend type B Water Licence MV2014L1-0005, including the following:

- to construct an additional soil treatment pad adjacent to the current pad in Yellowknife, NT;
- to increase the current water discharge criteria (from SNP 05-1, 5-2 and 05-3) for arsenic from the current Canadian Council of Ministers for the Environment (CCME) Freshwater Aquatic Life value of 0.005 mg/L to 0.050 mg/L;
- to increase the criteria for water to be applied to the biotreatment pad to match that requested (above) for the water discharge criteria (0.050 mg/L); and
- to correct a clerical error on the Licence cover page. Currently, the 'Quantity of water not to be exceeded' is 300 cubic meters per day, and should say less than 299 cubic meters per day, as this is the correct value for a type B water licence.

This Licence, issued subject to the conditions contained herein, allows KBL Environmental Ltd. to accept hydrocarbon impacted soils, snow and ice and to dispose of Waste in association with the maintenance of the Yellowknife Soil, Snow and Water Treatment Facility and within the municipal boundaries of the City of Yellowknife. This Preliminary Screening considers past licenced activities in addition to the activities requested in the September 8, 2016 amendment. The location of the Yellowknife Soil, Snow and Water Treatment Facility is: 62°28'52.5"N; 114°22'46.4"W

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: Lease #18889

Principal Activities (related to scoping)

(CHECK ALL THAT APPLY)

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Construction | <input type="checkbox"/> Exploration | <input type="checkbox"/> Decommissioning |
| <input checked="" type="checkbox"/> Installation | <input checked="" type="checkbox"/> Industrial | <input type="checkbox"/> Abandonment |
| <input checked="" type="checkbox"/> Maintenance | <input type="checkbox"/> Recreation | <input type="checkbox"/> Aerial |
| <input checked="" 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 type="checkbox"/> Other: | | |

Principal Development Components (related to scoping)

- | | |
|---|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Access Road <ul style="list-style-type: none"> <input type="checkbox"/> construction <input type="checkbox"/> abandonment/removal <input type="checkbox"/> modification e.g., widening, straightening <input type="checkbox"/> Automobile, Aircraft or Vessel Movement <input type="checkbox"/> Blasting | <ul style="list-style-type: none"> <input type="checkbox"/> Waste Management <ul style="list-style-type: none"> <input type="checkbox"/> disposal of hazardous waste <input type="checkbox"/> waste generation <input type="checkbox"/> sewage <input type="checkbox"/> disposal of sewage <input type="checkbox"/> Geoscientific Sampling |
|---|---|

- Building
- Burning
- Burying
- Channelling
- Cut and Fill
- Cutting of Trees or Removal of Vegetation
- Dams and Impoundments
 - construction
 - abandonment/removal
 - modification
- Ditch Construction
- Drainage Alteration
- Drilling other than Geoscientific
- Ecological Surveys
- Excavation
- Explosive Storage
- Fuel Storage
- Topsoil, Overburden or Soil
 - fill
 - disposal
 - removal
 - storage

- Trenching
- Diamond drill
- Borehole core sampling
- Bulk soil sampling
 - gravel
 - hydrological Testing
- Site Restoration
 - fertilization
 - grubbing
 - planting/seeding
 - reforestation
 - scarify
 - spraying
 - re-contouring
- Slashing and removal of vegetation
- Soil Testing
- Stream Crossing/Bridging
- Tunnelling/Underground
- Other: Accepting and storing hazardous waste

NTS topographic map sheet numbers:
NAD 83 Zone 11

Latitude / longitude and UTM system:
62°28'52.5"N; 114°22'46.6"W

Nearest community and water body:
Yellowknife, Joe Lake

Land Status (consultation information)

- Free Hold/Private Commissioners/Territorial Lands Federal Crown Land Municipal Land

Transboundary/Transregional Implications

- British Columbia Alberta Saskatchewan Yukon
 Nunavut National Park Inuvialuit Settlement Region
 Wek'èezhii Gwich'in Sahtu

Type of transboundary implication: Impact / Effect Development

Public concern: _____
(Describe.)

Physical - Chemical Effects

Impact	Mitigation	Location of condition
---------------	-------------------	------------------------------

1) Ground Water

- water table alteration
- water quality changes
- infiltration changes
- other:
- N/A

The Licensee shall abide by a Groundwater Monitoring Program, approved by the Board, for the duration of the Licence.

Part B

2) Surface Water

- flow or level changes
- water quality changes

The Licensee must adhere to established Effluent Quality Criteria defined in the Water Licence.

Part H

The Licensee shall ensure that petroleum products, hazardous material and other waste(s) associated with the project do not enter any waters

If, during the period of this Licence, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:

- a) Employ the Spill Contingency Plan;
- b) Report the incident immediately via the 24 Hour Spill Report Line at (867) 920-8130; and
- c) Submit to an Inspector a detailed report on each occurrence not later than 30 days after initially reporting the event.

- water quantity changes
- drainage pattern changes
- temperature
- wetland changes/loss
- other:
- N/A

Impact	Mitigation	Location of condition
3) Noise		
<input type="checkbox"/> noise in/near water		
<input checked="" type="checkbox"/> noise increase	No mitigation necessary.	
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		

Impact	Mitigation	Location of condition
4) Land		
<input type="checkbox"/> geologic structure changes		
<input checked="" type="checkbox"/> soil contamination	The Licensee shall ensure all treated soil shall meet the Government of the Northwest Territories "Environmental Guideline for Contaminated Site Remediation" (GNWT 2003) or subsequent approved editions, for the proposed end use.	Part F
<input type="checkbox"/> buffer zone loss		
<input type="checkbox"/> soil compaction and settling		
<input type="checkbox"/> destabilization/erosion		
<input type="checkbox"/> permafrost regime alteration		
<input type="checkbox"/> explosives/scarring		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		

Impact	Mitigation	Location of condition
5) Non-renewable natural resources		
<input type="checkbox"/> resource depletion		
<input type="checkbox"/> other:		
<input checked="" type="checkbox"/> N/A		

Impact	Mitigation	Location of condition
6) Air/climate/atmosphere		
<input checked="" type="checkbox"/> other: Exhaust from vehicles	No mitigation.	
<input type="checkbox"/> N/A		

BIOLOGICAL ENVIRONMENT

Impact

1) Vegetation

Mitigation

Location of condition

- species composition
- species introduction
- toxin/heavy accumulation
- other:
- 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

Mitigation

Location of condition

3) Cultural and Heritage

- 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

Akaitcho IMA Implementation Office	Lutsel K'e Dene First Nation - Chief or Wildlife, Lands and Environment
Bathurst Inlet Development Ltd.	Mackenzie Valley Environmental Impact Review Board
Bathurst Inlet Lodge	Manitoba Denesuline
Boxxer Gold Corp.	MVLWB
CanNor NWT Region	National Energy Board
Canadian Northern Economic Development Agency	North Slave Metis Alliance
City of Yellowknife	Northwest Territory Metis Nation
Dehcho First Nations	Salt River First Nations
Dene Nation	Smith Landing First Nation
Deninu K'ue First Nation	Snap Lake Environmental Monitoring Agency - SLEMA
Ecology North	Tlicho Government
Enterprise Settlement	Town of Fort Smith
Environment and Climate Change Canada	Town of Hay River
Fisheries and Oceans Canada	West Point First Nation
Fort Resolution Metis Council	Workers' Safety and Compensation Commission
Fort Resolution Metis Council	Yellowknives Dene First Nation
Fort Smith Metis Council	
GNWT - Department of Transportation	
GNWT - Environment and Natural Resources	
GNWT - Health	
GNWT - ITI	
GNWT - Lands	
GNWT - MACA	
GNWT - Prince of Wales Northern Heritage Centre	
GNWT- OROGO	
Golder Associates	
Gouvernement of Canada	
Gov of the NWT	
Hamlet of Fort Resolution	
Hay River Metis Council	
INAC - Contaminants and Remediation Directorate	
INAC - NWT Inspectors	
Katlodeeche First Nation	
KBL Environmental Ltd.	

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 MV2014L1-0005 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.

Preliminary Screening Decision	
<input type="checkbox"/>	Outside Local Government Boundaries
<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"/>	Wholly Within Local Government Boundaries
<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

September 8, 2016

Signatures



Floyd Adlem, MVLWB A/Chair