

**Preliminary Screening Report Form**

<b>Preliminary screener:</b> MVLWB  <b>Reference / File number:</b> MV2018A0022, MV2018L1-0005  <b>TITLE:</b> Celibeta H-78 Wellsite and Access Road  <b>ORGANIZATION:</b> Paramount Resources Ltd.  <b>MEETING DATE:</b> December 10, 2018	<b>EIRB</b>  <b>Reference number:</b>
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**Type of Development:**  
(CHECK ALL THAT APPLY)

- New
- Amend, EIRB Ref. #
- Requires permit, licence, or authorization
- Does not require permit, licence, or authorization

**Project Summary:**

The purpose of these applications is for Paramount to carry out re-suspension activities or abandonment activities, and reclamation work at wellsite H-78, which was acquired in 2017. In order to access the wellsite, a winter road will need to be constructed to bring in necessary equipment. The road will span approximately 32.5km in length, and 10m in width, and will extend from Paramount’s current SDL 122 access road, authorized under separate authorizations.

There is no camp proposed for this project, as Paramount will be utilizing a camp under a separate authorization. Paramount has also indicated that fuels will not be stored on site until suspension or abandonment work is conducted. Paramount may require fuel storage at Celibeta for suspension or abandonment work, and the maximum amount of fuel stored will be a 3000L double walled diesel tank, and 5 100lb propane bottles. All garbage and other human waste is to be contained, removed and disposed of outside of the Northwest Territories.

Paramount’s application provides an estimate of all the equipment to be used for the project. As contractors have yet to be determined, they have indicated that the equipment to be used may vary from the provided list:

Activity	Equipment Type	Quantity	Approximate Size	Proposed Use
Construction Equipment	Hoe excavator	2	--	Clearing
	Hydro axe	2	--	Clearing
	bulldozer	2	D5, 6, 7, 8, 9	Clearing and backfilling
	Mobile welding unit	1	--	Welding
	All terrain crane	1	20 to 34 tonne	Lifting
	Mobile drill unit	1	14 tonne	Sampling
	Portable generator	4	5kw	Electrical supply
	Motor vehicles	25	variable	Fuel supply, medical unit, transport, etc.
	Water truck	4	--	Winter road maintenance, camp and drilling rig
	Grader	3	D-16-G	Winter road maintenance
	Caterpillar	2 to 3	D5, WP, D6, D7	Winter road maintenance

Suspension and abandonment	Service Rig	1	--	To suspend F-36
	Wireline Unit	1	--	Assist in suspension F-36
	Rig Shack(s)	1 to 2	--	On site accommodation
	Tanks	1 to 2	400 barrel	Fluid storage
	Water Truck	1		Water supply
	Cementing Equipment	1		Cementing

Paramount has requested to use water from the Liard River, and a 'small water body' east of SDL 122. Water use is to support winter road construction and the suspension or abandonment activities at well H-78. Paramount has applied to use a maximum of 299m<sup>3</sup> per day, for a maximum of 180 days per year, which is an annual maximum of 58,320m<sup>3</sup>.

**Scope:**

For the purpose of constructing, operating, maintaining, and reclaiming an access road to the Celibeta H-78 wellsite that is to be suspended or abandoned, and reclaimed (the Project), located approximately 32.5 km from the existing access in the Liard East (currently authorized under Land Use Permit MV2013A0013 and Water Licence MV2013L1-0003), Northwest Territories. The scope of the Project is described in the application submitted September 25, 2018 and the additional information submitted during the regulatory process. The scope of the project components applicable to this screening includes the following:

- Use of equipment, vehicles and machines;
- Construction, operation and maintenance of a winter access road;
- Installation and maintenance of erosion control measures;
- Fuel and hazardous material storage;
- The use of water; and
- Other related activities, including Reclamation.

**Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations: 18(a)ii**

**Type of Disposition                      Disposition Number(s)**

- Mineral Claims
- Prospecting Permit (s)
- Mineral Leases
- Oil and Gas: EL/SDL/PL                      SDL 001
- Quarry Permit
- Timber Permit
- Other:

**Principal Activities (related to scoping) (CHECK ALL THAT APPLY)**

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

**Principal Development Components (related to scoping) (CHECK ALL THAT APPLY)**

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Access Road                                | <input checked="" type="checkbox"/> Waste Management            |
| <input checked="" type="checkbox"/> construction                               | <input checked="" type="checkbox"/> disposal of hazardous waste |
| <input type="checkbox"/> abandonment/removal                                   | <input checked="" type="checkbox"/> waste generation            |
| <input checked="" type="checkbox"/> modification e.g., widening, straightening | <input type="checkbox"/> sewage                                 |
| <input checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement    | <input type="checkbox"/> disposal of sewage                     |
| <input type="checkbox"/> Blasting  | <input type="checkbox"/> Geoscientific Sampling                 |
| <input type="checkbox"/> Building  | <input type="checkbox"/> Trenching                              |

- 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

- 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:

**NTS topographic map sheet numbers:**

095A & 095B

**Latitude / longitude and UTM system:**

NAD 83

Minimum latitude: 60°10'00"

Maximum latitude: 60°20'00"

Minimum longitude: 122°00'00"

Maximum longitude: 122°45'00"

**Nearest community and water body:**

Fort Liard, NT; Lake Bovie and Celibeta Lake

**Land Status (*consultation information*)**

- Free Hold/Private    
  Commissioner's/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**

**1) Ground Water**

- water table alteration
- water quality changes

**Mitigation**

During the activities associated with the suspension or abandonment, and reclamation of the well, there is a risk for fuel to spill or leak. Conditions could be included in the Licence and Permit to mitigate the impact of any spills. A Spill Contingency Plan was also submitted with the applications.

infiltration changes

other:

N/A

**Impact**

**2) Surface Water**

flow or level changes

water quality changes

water quantity changes

drainage pattern changes

temperature

wetland changes/loss

other:

N/A

**Mitigation**

During winter road construction, operation, and maintenance, as well as during the activities associated with the suspension or abandonment, and reclamation of the well, there is a risk for fuel to spill or leak. Conditions could be included in the Licence and Permit to mitigate the impact of any spills. A Spill Contingency Plan was also submitted with the applications.

**Impact**

**3) Noise**

noise in/near water

noise increase

other:

N/A

**Mitigation**

Noise will be temporary in nature. No mitigations proposed.

**Impact**

**4) Land**

geologic structure changes

soil contamination

buffer zone loss

soil compaction and settling

destabilization/erosion

**Mitigation**

During winter road construction, operation, and maintenance, as well as during the activities associated with the suspension or abandonment, and reclamation of the well, there is a risk for fuel to spill or leak, which, depending on extent of snow cover, could contaminate underlying soils. Conditions could be included in the Licence and Permit to mitigate the impact of any spills. A Spill Contingency Plan was also submitted with the applications.

The use of heavy equipment could cause soil compaction and settling. Conditions could be included in the Permit to prevent rutting of the ground surface, and conditions regulating the use of equipment under certain ground conditions/locations.

The use of heavy equipment could cause erosion. Conditions could be included in the Permit to prevent rutting of the ground surface, to ensure erosion control measures are implemented, and conditions regulating the use of equipment under certain ground conditions/locations.

- permafrost regime alteration
- explosives/scarring
- other:
- N/A

**Impact**

**5) Non-renewable natural resources**

**Mitigation**

- resource depletion
- other:
- N/A

**Impact**

**6) Air/climate/atmosphere**

**Mitigation**

- other:
- N/A

Vehicles and heavy equipment will emit greenhouse gases but are necessary to conduct the project.

**BIOLOGICAL ENVIRONMENT**

**Impact**

**1) Vegetation**

**Mitigation**

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

**Impact**

**2) Wildlife and Fish**

**Mitigation**

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change

Boreal caribou are listed as threatened under both the *Species at Risk Act* and the *NWT Species at Risk Act*. The effects of linear disturbance and the resulting increased access by predators on caribou is well understood. The use of existing cutlines, that have been re-established with vegetation, for winter road access will reopen sightlines and access to predators. The Board could include a condition in the Licence and Permit requiring the submission of a Closure and Reclamation Plan, which could include measures to enhance revegetation, including redistribution of cleared brush back onto cutlines to impede access of predators.

health changes

behavioural changes

habitat changes / effects

The construction, use, and maintenance of a 32.5 km winter road could create a barrier for wildlife, and in turn limit habitat availability. As this road will be temporary in nature, and will follow existing cutlines, affects will be minimized. The Board could include a condition in the Licence and Permit requiring the submission of a Closure and Reclamation Plan, which could include measures to enhance revegetation, including redistribution of cleared brush back onto cutlines to impede access of predators.

game species effects

toxins/ heavy metals

forestry changes

agricultural changes

other:

N/A

### **Interacting Environment**

#### **Impact**

#### **Mitigation**

##### **1) Habitat and Communities**

predator-prey

wildlife habitat/ecosystem composition changes

The construction, use, and maintenance of a 32.5 km winter road could create a barrier for wildlife, and in turn limit habitat availability. As this road will be temporary in nature, and will follow existing cutlines, affects will be minimized. The Board could include a condition in the Licence and Permit requiring the submission of a Closure and Reclamation Plan, which could include measures to enhance revegetation, including redistribution of cleared brush back onto cutlines to impede access of predators.

reduction/removal of keystone or endangered species

removal of wildlife corridor or buffer zone

The construction, use, and maintenance of a 32.5 km winter road could remove a corridor for wildlife. As this road will be temporary in nature, and will follow existing cutlines, affects will be minimized. The Board could include a condition in the Licence and Permit requiring the submission of a Closure and Reclamation Plan, which could include measures to enhance revegetation, including redistribution of cleared brush back onto cutlines to impede access of predators.

other:

N/A

#### **Impact**

#### **Mitigation**

##### **2) Social and Economic**

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

The land to be used for the proposed project is also used by many aboriginal groups for traditional activities. An Engagement Plan has been submitted with the application, and the Board could ensure that the Engagement Plan outlines regular engagement with all affected parties.

- quality of life changes
- public concern
- other:
- N/A

**Impact**

**Mitigation**

**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

The land to be used for the proposed project is also used by many aboriginal groups for traditional activities. An Engagement Plan has been submitted with the application, and the Board could ensure that the Engagement Plan outlines regular engagement with all affected parties.

- other:
- N/A

- Pursuant to section 27, paragraphs (a) and (b) of the **Dehcho First Nations** (DCFN) Interim Measures Agreement, the MVLWB has determined that written notice was given to the DCFN, and that a reasonable period of time was allowed for DCFN to make representations with respect to the application.

**Preliminary Screener / Referring Body Information**

<b>Organization</b>	<b>Organization</b>
Acho Dene Koe First Nation	Hamlet of Fort Providence
Athabasca Denesuline Council c/o Prince Albert Council	INAC - CARD
CanNor NWT Region	INAC - NWT Inspectors
Deh Cho Land Use Planning Committee	Ka'a'gee Tu First Nation
Deh Gah Got'ie Dene Council	Katlodeeche First Nation
Dehcho First Nations	Liard First Nation (Yukon)
Dene Nation	Liidlii Kue First Nation (Ft Simpson)
Dene Tha' First Nation	Mackenzie Valley Environmental Impact Review Board
Digaa Enterprises Ltd.	MVLWB
Environment and Climate Change Canada	Naha Dehe Dene Band
Fisheries and Oceans Canada	North Slave Metis Alliance
Fort Providence Metis Council #57	NWT- OROGO
Fort Providence Resource Management Board	Pehdzeh Ki First Nation (Wrigley)
Fort Simpson Metis Local 52	Ross River Dena Council
Forward Mining	Sambaa K'e First Nation (Trout Lake)
GNWT - ECE	Snap Lake Environmental Monitoring Agency - SLEMA
GNWT - ENR	Transport Canada
GNWT - Health	Tthets'ek'ehdeli First Nation (JMR)
GNWT - INF	West Point First Nation
GNWT - ITI	WLWB
GNWT - Lands	Wood
GNWT - MACA	Workers' Safety and Compensation Commission
Hamlet of Fort Liard	



**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 Applications MV2018A0022 & MV2018L1-0005, Paramount Resources Ltd., well H-78 suspension or abandonment, and Reclamation, Celibeta, NT 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 Applications have been notified and provided adequate time to provide comment on the Applications 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 Applications 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 and Water Licence.

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 and the *Waters Act* and Waters Regulations has decided that this Land Use Permit and Water Licence 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 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>
<input 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 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>

**Preliminary Screening Organization**

Mackenzie Valley Land and Water Board

December 10, 2018

**Signatures**

Mavis Cli-Michaud, Chair