

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: MVLWB REFERENCE / FILE NUMBER: MV2006C0008 - AMENDMENT TITLE: Mineral Exploration, Boomerang Lake ORGANIZATION: Uravan Minerals Inc. MEETING DATE: August 10, 2007	EIRB REFERENCE NUMBER:
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Type of Development:
(CHECK ALL THAT APPLY)

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

Project Summary

Operational Summary

- Increase the area to the existing Land Use Permit for further exploration of uranium mineralization
- A total of twenty one (21) people will be on site with the possible increase to twenty three (23) for short periods of time
- Camp is pre existing under the Land Use Permit MV2006C0008
- The drill program is helicopter supported

Scope

To increase the area of the existing Land Use Permit and to extend the expiry date by two years.

Principal Activities (related to scoping)

(CHECK ALL THAT APPLY)

- | | | |
|---------------------------------------|-------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Construction | <input checked="" 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 checked="" 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"/> Water Intake | <input type="checkbox"/> Sewage | <input type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Other: | | |

Principal Development Components (related to scoping)

- | | |
|-------------------------------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Access Road | <input checked="" type="checkbox"/> Waste Management |
| <input type="checkbox"/> construction | <input type="checkbox"/> disposal of hazardous waste |
| <input type="checkbox"/> abandonment/removal | <input checked="" type="checkbox"/> waste generation |
| <input type="checkbox"/> modification e.g., widening, straightening | <input checked="" 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 |
| <input type="checkbox"/> Burning | <input checked="" type="checkbox"/> diamond drill |
| <input type="checkbox"/> Burying | <input type="checkbox"/> borehole core sampling |
| <input type="checkbox"/> Channeling | <input type="checkbox"/> bulk soil sampling |
| <input type="checkbox"/> Cut and Fill | <input type="checkbox"/> Gravel |
| <input checked="" type="checkbox"/> Cutting of Trees or Removal of Vegetation | <input type="checkbox"/> Hydrological Testing |
| <input type="checkbox"/> Dams and Impoundments | <input type="checkbox"/> Site Restoration |
| <input type="checkbox"/> construction | <input type="checkbox"/> fertilization |
| <input type="checkbox"/> abandonment/removal | <input type="checkbox"/> grubbing |
| <input type="checkbox"/> modification | <input type="checkbox"/> planting/seeding |
| <input type="checkbox"/> Ditch Construction | <input type="checkbox"/> reforestation |
| <input type="checkbox"/> Drainage Alteration | <input type="checkbox"/> scarify |
| <input type="checkbox"/> Drilling other than Geoscientific | <input type="checkbox"/> spraying |
| <input type="checkbox"/> Ecological Surveys | <input type="checkbox"/> recontouring |
| <input type="checkbox"/> Excavation | <input type="checkbox"/> Slashing and removal of vegetation |
| <input type="checkbox"/> Explosive Storage | <input type="checkbox"/> Soil Testing |
| <input checked="" type="checkbox"/> Fuel Storage | <input type="checkbox"/> Stream Crossing/Bridging |
| <input type="checkbox"/> Topsoil, Overburden or Soil | <input type="checkbox"/> Tunneling/Underground |
| <input type="checkbox"/> fill | <input type="checkbox"/> Other (describe): |
| <input type="checkbox"/> disposal | |
| <input type="checkbox"/> removal | |
| <input type="checkbox"/> storage | |

NTS Topographic Map Sheet Numbers

- 75P -1,2
- 75I -1-10,11,15, and 16

Latitude / Longitude and UTM System:

Minimum Latitude 62° 50'N Maximum Latitude 62° 53'N
Minimum Longitude 104° 45'W Maximum Longitude 104° 55'W

Nearest Community and Water Body:

The nearest communities are Lutsel K'e and Reliance
The nearest bodies of water are Eyeberry Lake and Beaverhill Lake

Land Status (consultation information)

☐ Free Hold / Private ☐ Commissioners Land ☒ Federal Crown Land ☐ Municipal Land

Transboundary/Transregional Implications

☐ British Columbia ☐ Alberta ☐ Saskatchewan ☐ Yukon
☐ Nunavut ☐ Wood Buffalo National Park ☐ Inuvialuit Settlement Region

Type of Transboundary Implication: ☐ Impact / Effect ☐ Development

☐ Public Concern

(DESCRIBE) _____

PHYSICAL - CHEMICAL EFFECTS

IMPACT

1. Ground Water

- ☐ water table alteration
- ☒ water quality changes
- ☐ infiltration changes
- ☐ other
- ☐ N/A

MITIGATION

Proper disposal of sewage and waste products, as well as proper handling and disposal of fuel and other hazardous material should mitigate this concern

IMPACT

2. Surface Water

- ☐ flow or level changes
- ☒ water quality changes

MITIGATION

Proper disposal of sewage and waste products, as well as proper handling and disposal of fuel and other hazardous material should mitigate this concern.

Spill Contingency Plan in place with NWT 24-Hour Spill Report Line to be contact at (867) 920 -8130. Land Use Permit Condition 30

Fuel cache to be located 100m above high water mark. Land Use Permit Condition 50

Natural depressions to be used as sumps. Any cutting resulting from drilling activities are to be impounded at or near the drill site. Land Use Permit Conditions 17, 18, & 19.

Conditions 14, 15, 16 prescribe disposal methods for drill cuttings containing uranium to mitigate any potential contamination to surface waters.

- ☐ water quantity changes
- ☐ Drainage pattern changes
- ☐ temperature

- ☐ wetland changes / loss
- ☐ other:
- ☐ N/A

IMPACT

3. Noise

- ☒ noise in/near water
- ☒ other: noise increase
- ☐ N/A

MITIGATION

No mitigation for localized and short term noise impact from drilling activities

No mitigation for localized and short term noise impacts from air craft use.

IMPACT

4. Land

- ☐ geologic structure changes
- ☒ soil contamination
- ☐ buffer zone loss
- ☐ soil compaction & settling
- ☐ Destabilization / erosion
- ☐ permafrost regime alteration
- ☐ other: explosives/scarring
- ☐ N/A

MITIGATION

Proper handling of fuel, hazardous materials and waste should mitigate this concern.

Conditions 14, 15, and 16 prescribe disposal methods for drill cuttings containing uranium to mitigate any potential contamination to soil layers.

IMPACT

**5. Non Renewable
Natural Resources**

- ☐ resource depletion
- ☐ other:
- ☒ N/A

MITIGATION

IMPACT

**6. Air/Climate/
Atmosphere**

- ☐ Other
- ☒ N/A

MITIGATION

BIOLOGICAL ENVIRONMENT

IMPACT

1. Vegetation

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

MITIGATION

IMPACT**2. Wildlife & Fish**

☒ effects on rare, threatened or endangered species

☐ fish population changes

☐ waterfowl population changes

☐ breeding disturbance

☐ population reduction

☐ species diversity change

☐ health changes
(Identify)

☒ 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**

☐ predator-prey

☐ wildlife habitat / ecosystem
Composition changes

☐ reduction / removal of
keystone or endangered
species

☐ removal of wildlife corridor or
buffer zone

☐ other:

☒ N/A

MITIGATION

Species at risk that may be encountered in this area include: Peregrine Falcon, Barren Ground Caribou, Grizzly Bear, Wolverine and Short-eared Owl, all of which are listed as species of Special Concern on Schedule 3 of *Species at Risk Act*. While conducting their operations the proponent should be aware of the special status and minimize disturbance to, or contact with, these species.

Some species, such as caribou, may avoid the vicinity of operations while drilling is occurring. This should be very localized and short term. Having the proponent minimize operations when large populations of game species are in the area of the operation should mitigate any impact. Land Use Permit Conditions 34, 35, & 36.

Some species, such as caribou, may avoid the vicinity of operations while drilling is occurring. This should be very localized and short term. Having the proponent minimize operations when large populations of game species are in the area of the operation should mitigate any impact. Land Use Permit Conditions 34, 35, & 36.

MITIGATION

IMPACT**2. Social and Economic****MITIGATION**

☐ 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

All drill castings will be removed if possible, or cut off level with the ground. Land Use Permit Condition 13.

All equipment, fuel and supplies to be removed from drill sites upon completion of holes.

☐ quality of life changes

☐ public concern

☐ other:

☐ N/A

IMPACT**3. Cultural and Heritage****MITIGATION**

☐ 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

Reporting archaeological discoveries and maintain safe working distance should mitigate this concern. Land Use Permit Conditions 42, 43, and 46.

☐ change to or loss of aesthetically important site

☐ effects to aboriginal lifestyle

☐ other:

☐ N/A

NOTES:**Notification**

- Pursuant to Section 1.6 (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.
- 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.

PRELIMINARY SCREENER / REFERRING BODY INFORMATION

**DISTRIBUTION LIST
URAVAN MINERALS AMENDMENT APPLICATION**

ABORIGINAL ORGANIZATIONS

Chief Jonasson	Lutsel K'e Dene First Nation
Chief Sangris	Yellowknives Dene First Nation (Dettah)
Chief Sangris	Yellowknives Dene First Nation (Ndilo)
Chief Bill Norm	Deninu Ku'e First Nation
President Cardinal	Fort Resolution Métis Council
Stephen Ellis	NWT Treaty 8 Tribal Corporation – Akaitcho IMA Implementation Office
Interim Measures Coordinator	Athabasca Denesuline c/o Prince Albert Grand Council

COMMUNITIES

Mayor McKay	Deninoo Community Council
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GOVERNMENT – GNWT

Tom Andrews	GNWT - PWHM
Jason McNeill	GNWT - ENR
Duane Fleming	GNWT - HEALTH
Jeremy Jaud	GNWT – ITI

GOVERNMENT – FEDERAL

Darnell McCurdy	South Mackenzie District Office
Carolyn Relf	Mineral & Petroleum Resources Directorate
Julie Jackson	Policy & Planning – INAC
Mike Fournier	Environment Canada
Ernest Watson	DFO

OTHERS

Boyd Warner	Barrenground Caribou Outfitters
Deborah Johnson	BQCMB
Vern Christensen	MVEIRB

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 amendment application MV2006C0008, Uravan Minerals Inc., Mineral Exploration has been completed in accordance with Section 125 of the *Mackenzie Valley Resource Management Act*.

The Board is satisfied that a reasonable period of notice was given to Communities and First Nations affected by the application as required by Subsection 63(2) of the *MVRMA* so that they could provide comments to the Board.

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

- there is no likelihood that the proposed development might have a significant adverse impact on the environment; and
- there is no likelihood that the proposed development might be a cause of public concern.

The Board has reviewed all comments from various Government Departments and First Nations and is aware of the sensitivity surrounding mineral exploration activities in the Thelon Basin. However, the Board notes that this is an amendment to approved Land Use Permit MV2006C0008 with terms and conditions already in place to mitigate any potential impacts. Although the applicant also requested a two-year extension to Land Use Permit MV2006C0008, the Board has only approved an extension for one year in recognition of the sensitivity of the Thelon Basin to Akaitcho First Nations.

The Board is also of the opinion that the application for amendment 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 attached to the existing 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 *Mackenzie Valley Resource Management Act* and the Mackenzie Valley Land Use Regulations has decided that this Land Use Permit Amendment be issued subject to the terms and conditions contained therein.

PRELIMINARY SCREENING DECISION	
<input checked="" 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 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"/>	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 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

August 10, 2007

Signatures



May 11, 2007

Application: MV2006C0008

**DISTRIBUTION LIST
URAVAN MINERALS AMENDMENT APPLICATION**

ABORIGINAL ORGANIZATIONS

Chief Jonasson	Lutsel K'e Dene First Nation	34	867-370-3010
Chief Liske	Yellowknives Dene First Nation (Dettah)	29	873-5969
Chief Sangris	Yellowknives Dene First Nation (Ndilo)	30	873-8545
Chief Sayine	Deninu Ku'e First Nation	48	867-394-5122
President Cardinal	Fort Resolution Métis Council	53	867-394-3322
Stephen Ellis	NWT Treaty 8 Tribal Corporation – Akaitcho IMA Implementation Office		867-370-3209
Interim Measures Coordinator	Athabasca Denesuline c/o Prince Albert Grand Council		306-763-2973

COMMUNITIES

Mayor McKay	Deninoo Community Council		867-394-5415
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GOVERNMENT – GNWT

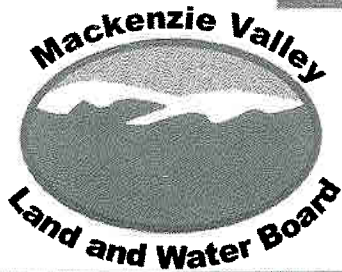
Tom Andrews	GNWT - PWHM	60	873-0205
Jason McNeill	GNWT - ENR	63	873-4021
Duane Fleming	GNWT - HEALTH	65	669-7517
Greg Brady	GNWT – ITI		873-0645

GOVERNMENT – FEDERAL

Darnell McCurdy	South Mackenzie District Office	57	669-2720
Carolyn Relf	Mineral & Petroleum Resources Directorate	59	669-2705
Julie Jackson	Policy & Planning – INAC		669-2736
Mike Fournier	Environment Canada	66	873-8185
Ernest Watson	DFO	68	669-4940

OTHERS

Boyd Warner	Barrenground Caribou Outfitters		920-4263
Deborah Johnson	BQCMB		867-872-4250
Vern Christensen	MVEIRB	50	766-7074



Mackenzie Valley Land and Water Board
7th Floor - 4910 50th Avenue
P.O. Box 2130
YELLOWKNIFE NT X1A 2P6
Phone (867) 669-0506
FAX (867) 873-6610

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