



Project CLEANs Public Meeting Ben McIntyre School, Uranium City April 29, 2010 1:00 pm

Agenda:

- **Brief Project Background**
- **Update on Satellite Site remediation 2009**
- **Satellite Site Remediation Proposed for 2010**
- **Discussion**

PROJECT CLEANS:
*Satellite Remediation Completed in
2009*

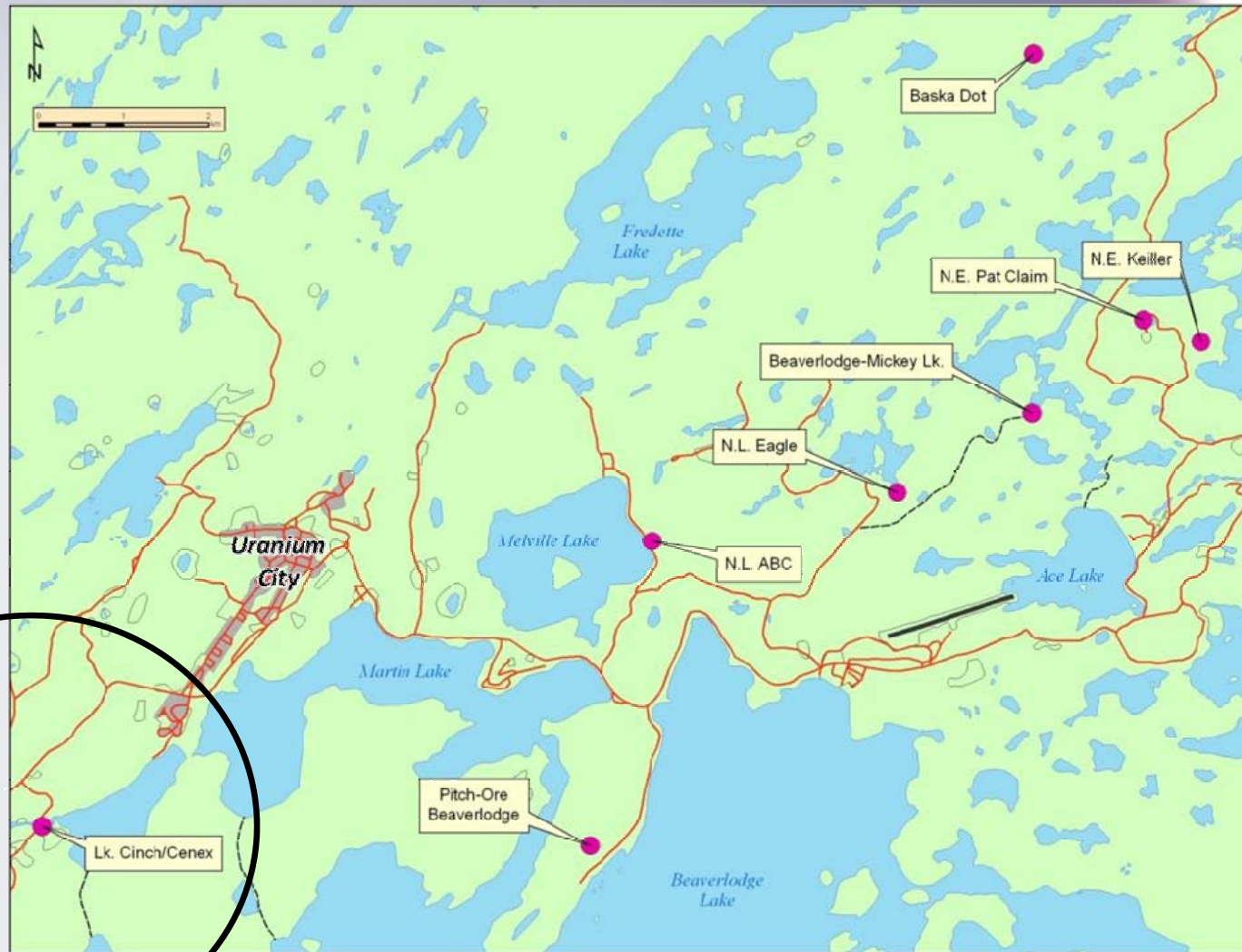


Objectives:



- Discuss the 8 sites that were cleaned up
 - » Cinch/Cenex
 - » Nesbitt LaBine ABC
 - » Pitch Ore
 - » Nesbitt LaBine Eagle
 - » Mickey Lake
 - » National Exploration- Pat Claim
 - » National Exploration- Keiller
 - » Baska Dot- Virgin Lake
- Highlight outstanding items that still require immediate attention

Cinch/Cenex:



Cinch/Cenex:



- Pre-cleanup condition:
 - 3 Shaft related openings
 - 4 raises
 - 1 adit
 - 11 concrete foundations
 - 1 large water tank
 - An extensive amount of waste rock
 - Miscellaneous debris (drill rods, steel casings, 45 gallon barrels, ventilation pipe, etc)

Cinch/Cenex:

Before 2009



3 stainless steel caps were installed over the shaft openings



1 bulk water tank was dismantled

Cinch/Cenex:

May 2009



(Left) Backfilling of the adit



(Right) Backfilling of raise #1.
A second raise north of the
Crackingstone river was also
backfilled.

Cinch/Cenex:

May 2009



(left) Raise #3 was sealed using polyurethane foam (PUF)

(right) Non hazardous material was buried onsite at the base of the waste rock pile



Cinch/Cenex:

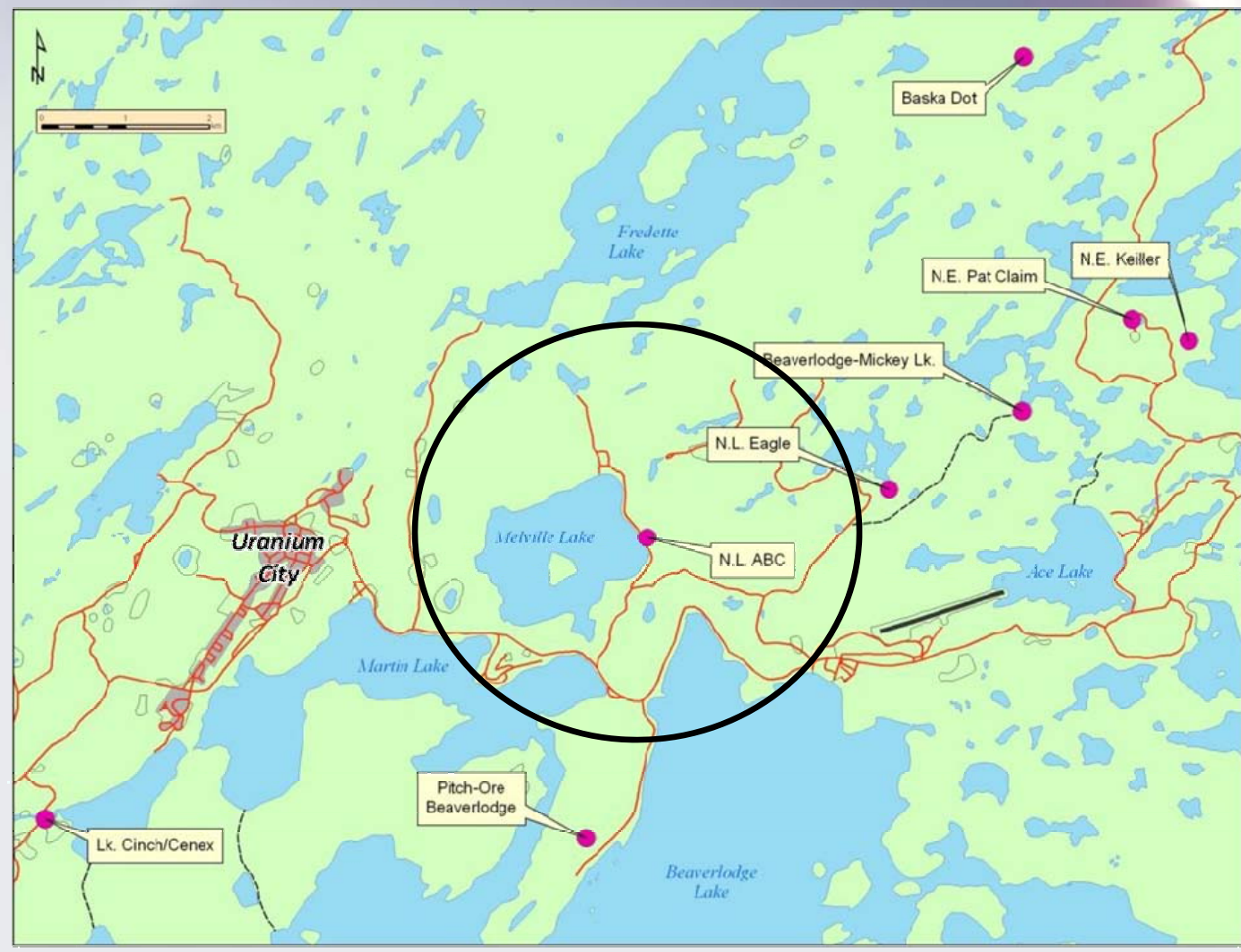


Outstanding items that require immediate attention:

- The fourth raise, located on the north side of the Crackingstone river, could not be backfilled properly in 2009
- The area was fenced and temporary closure was put in place until a stainless steel cap could be fabricated.



Nesbitt LaBine ABC:



Nesbitt LaBine ABC:



- Pre-cleanup condition:
 - 1 shaft related opening
 - 2 adits
 - 1 raise
 - 2 concrete pads
 - 1 collapse wooden structure
 - 1 boiler encased in asbestos insulation
 - Waste rock
 - Miscellaneous debris

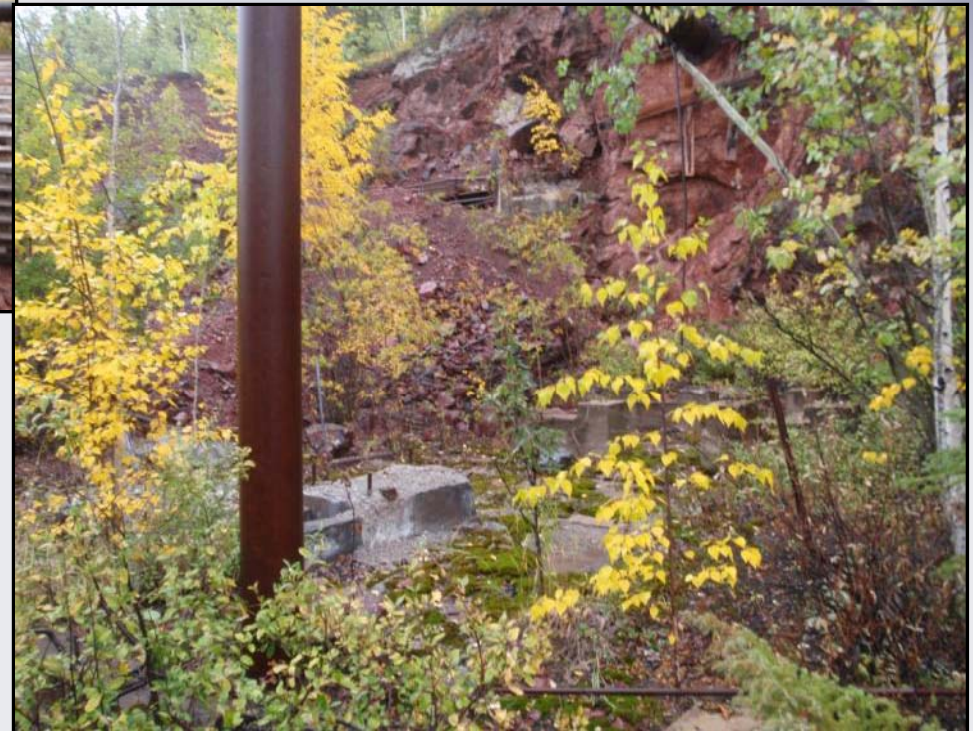
Nesbitt LaBine ABC:

September 2008



(left) Backfilling of the 1st adit

(right) Concrete pads and debris prior to removal



Nesbitt LaBine ABC:

June 2009



(left) Removal of the boiler with asbestos insulation



(right) Temporary special disposal area at the Lorado mill site.

Nesbitt LaBine ABC:

June 2009



(left) Installation of a stainless steel cap on the shaft opening



(right) raise foamed with PUF.

Nesbitt LaBine ABC:

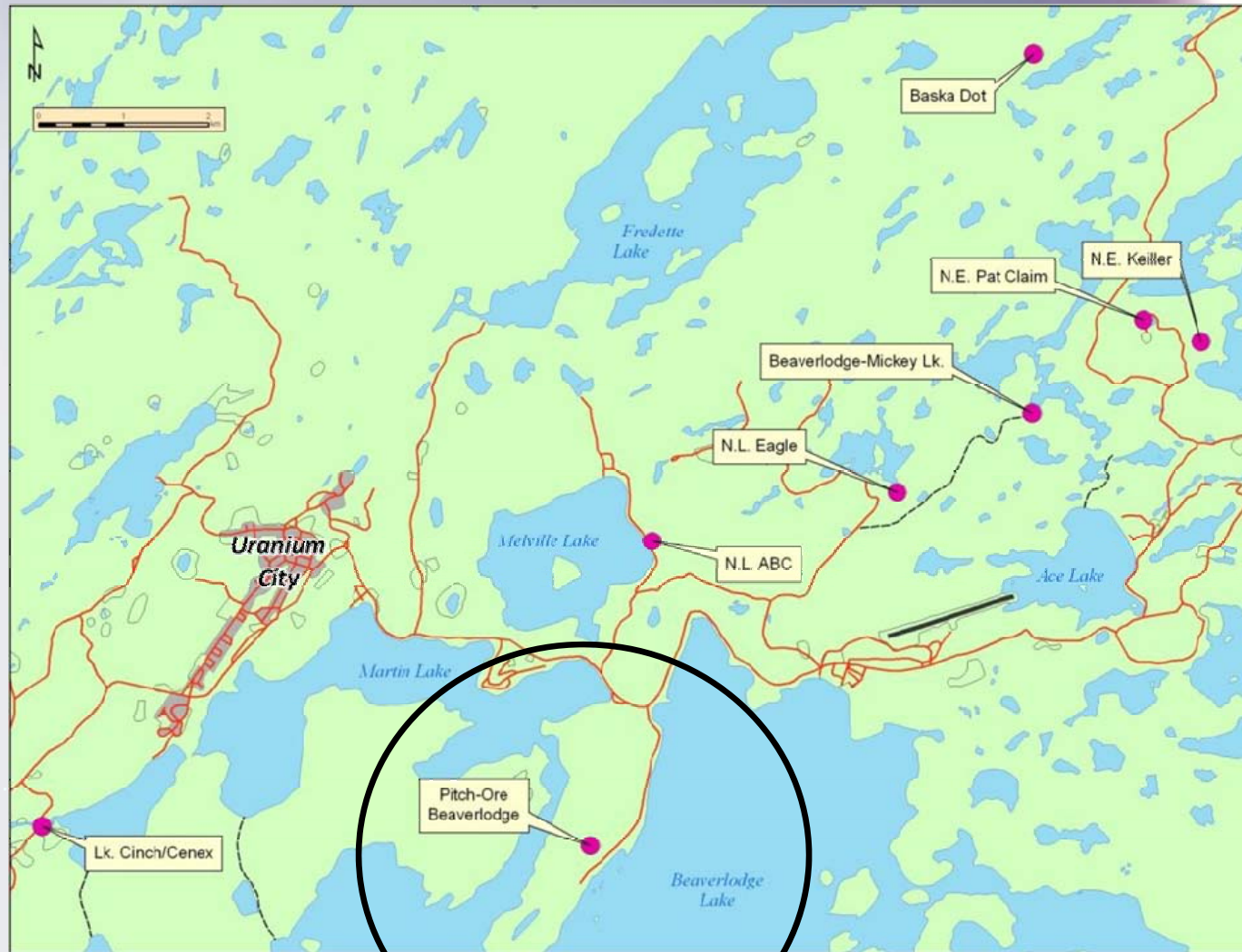


Outstanding items that require immediate attention:

- A build up of ice in the second adit prevented a proper backfill from being completed in 2009
- A temporary jail cage was installed and the adit will be further assessed early in the 2010 field season



Pitch Ore:



Pitch Ore:



- Pre-cleanup condition:
 - 2 adits
 - 2 raises
 - 1 hunting/fishing camp
 - Moderate amount of waste rock
 - Small amount of miscellaneous debris (2 vehicle chassis, drill rods, casings, 45 gallon barrels, etc)

Pitch Ore:

June 2009



(left) backfilling of adit #1.



(right) debris cleanup at the hunting/fishing camp

Pitch Ore:

June 2009



(left) PUF plug at raise #1



(right) PUF plug at raise #2



Pitch Ore:



Outstanding items that require immediate attention:

- The 2nd adit located adjacent to Martin Lake will be further inspected during the 2010 field season. Some touch-ups to the blast closure will likely be completed.

Nesbitt LaBine Eagle:



Nesbitt LaBine Eagle:



- Pre-cleanup condition:
 - 1 shaft opening
 - 2 raises
 - A loading adit and ore storage area
 - A pumphouse structure
 - Core racks
 - Water tank remnants
 - A two storey concrete structure
 - 3 concrete cisterns
 - 3 concrete building foundations
 - Miscellaneous debris (mining and non mining related)

Nesbitt LaBine Eagle:

June 2009



(left) debris disposal area

(right) demolition of 2 storey concrete structure



Nesbitt LaBine Eagle:

June 2009



(left) Backfilling of raise #1.
Raise #2 was also backfilled.



(right) debris removed from
shaft opening.

Nesbitt LaBine Eagle:

June 2009



(left) Sand covered ore pad with slash placement

(right) landscaped terrain where concrete foundations existed



Nesbitt LaBine Eagle:

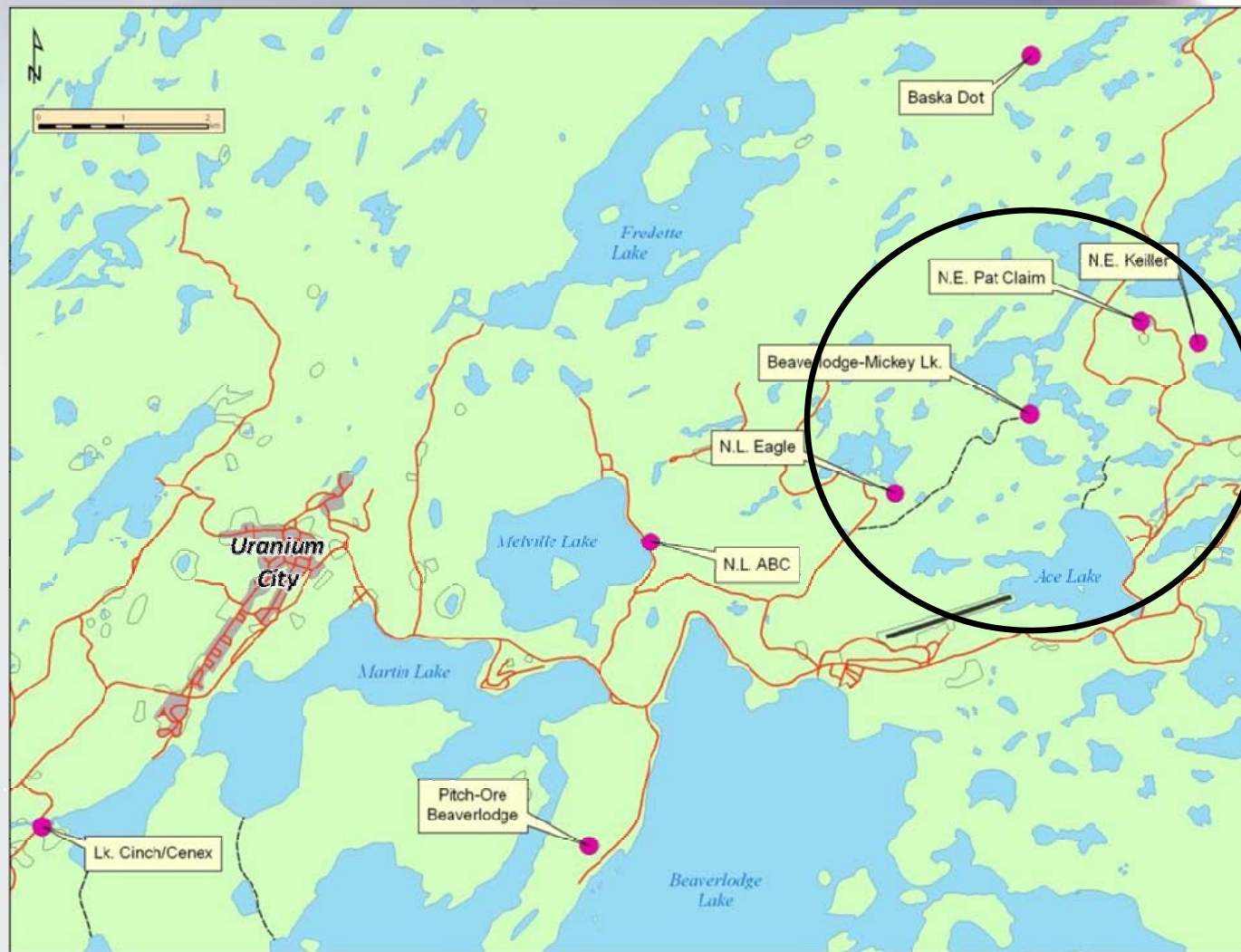


Outstanding items that require immediate attention:

- The shaft opening still needs to be sealed properly
- The temporary closure will be removed and a stainless steel cap will be installed early in the 2010 field season.



Mickey Lake:



Mickey Lake:



- Pre-cleanup condition:
 - 1 adit
 - 1 trench
 - A wood framed mine structure
 - 3 small piles of waste rock
 - Miscellaneous debris (ore cart, rails, steel pipe, etc)

Mickey Lake:

June 2009



Mickey Lake:

June 2009



(left) dismantling of the tin shed



(right) contouring of the remaining waste rock

Mickey Lake:



Outstanding items that require immediate attention:

- None



National Exploration- Pat Claim:



National Exploration- Pat Claim:



- Pre-cleanup condition:
 - 1 production shaft
 - 1 raise
 - 1 inclined shaft/adit
 - 5 concrete building foundations
 - A concrete cistern
 - 1 inclined trench
 - A large pile of waste rock
 - A small amount of miscellaneous debris

National Exploration- Pat Claim:

July 2009



(left) Exposed shaft opening after failing concrete cap was removed



(right) The shaft once backfilling was completed.

National Exploration- Pat Claim:

July 2009



(left) Exposed inclined adit after blast debris was removed



(right) Inclined adit once backfill was completed

National Exploration- Pat Claim:



Outstanding items that require immediate attention:

- None



National Exploration- Keiller:



National Exploration- Keiller:



- Pre-cleanup condition:
 - 1 adit
 - A small amount of waste rock
 - A small amount of miscellaneous debris (steel pipe, wire, rails, 1 ore cart, etc)

National Exploration- Keiller:

July 2009



(left) Adit opening after failing steel grate was removed



(right) completed backfill of the adit

National Exploration- Keiller:



Outstanding items that require immediate attention:

- None



Baska Dot- Virgin Lake:



Baska Dot- Virgin Lake:



- Pre-cleanup condition:
 - 1 adit
 - 1 raise
 - 2 core shacks
 - A moderate amount of waste rock
 - Miscellaneous debris (drill rods, hoses, 1000 gallon fuel tanks, ore carts, steel casing, etc)

Baska Dot- Virgin Lake:

August 2009



(left) adit opening prior to backfilling



(right) completed backfill of adit

Baska Dot- Virgin Lake:

August 2009



(left) Exposed opening of raise



(right) Vented raise sealed with PUF.

Baska Dot- Virgin Lake:



Outstanding items that require immediate attention:

- None



Uranium Ridge:



Uranium Ridge:



Results of 2009 monitoring:

- A small amount of slumping in the backfill was recognized during scheduled inspections
- More fill was put in place
- The area was fenced as an extra precaution

Uranium Ridge:

Summer 2009



(left) A berm was constructed to direct surface runoff away from the backfill area.

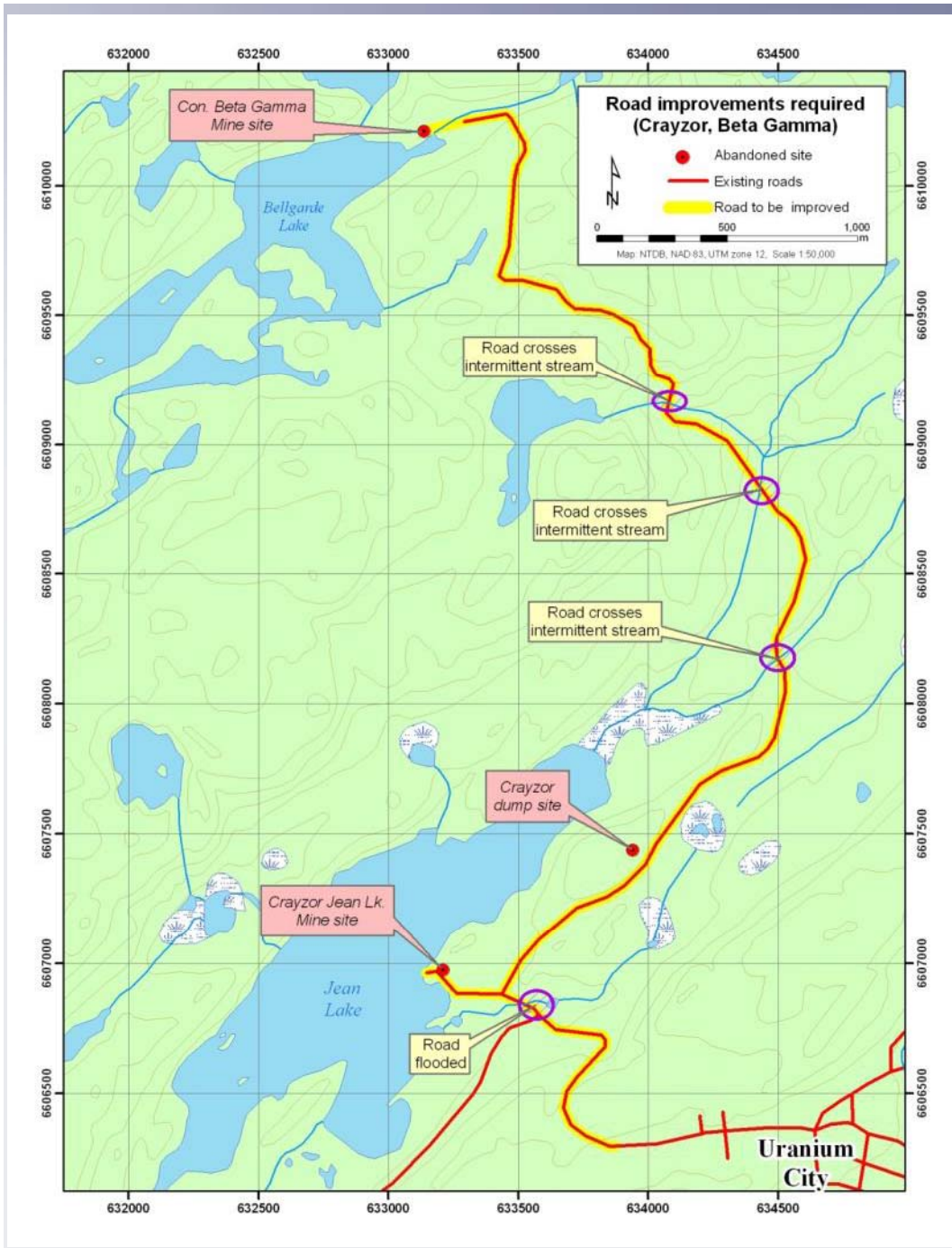


(right) fencing around slump

Questions?

Project CLEANS Group 3 Satellite site Remediation Proposed for 2010

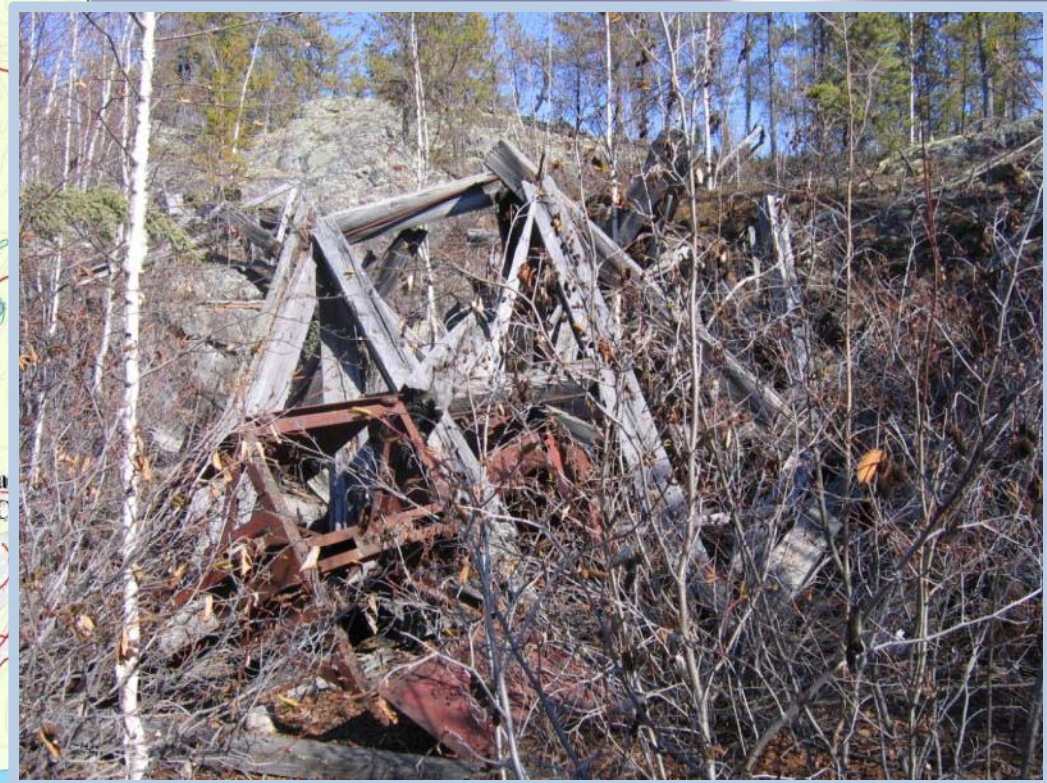




Two sites planned for remediation are located just northwest of Uranium City: Beta Gamma mine & Crayzor mine and dump site

To access these sites some road improvements will be required to get equipment to the sites.

Consolidated Beta Gamma



- Headframe collapsed over open shaft, clear debris, assess cap options, secure opening until cap installed

Collect steel debris
Stockpile lumber for burn in fall
Waste rock pile
flatten slopes and bury steel on
site

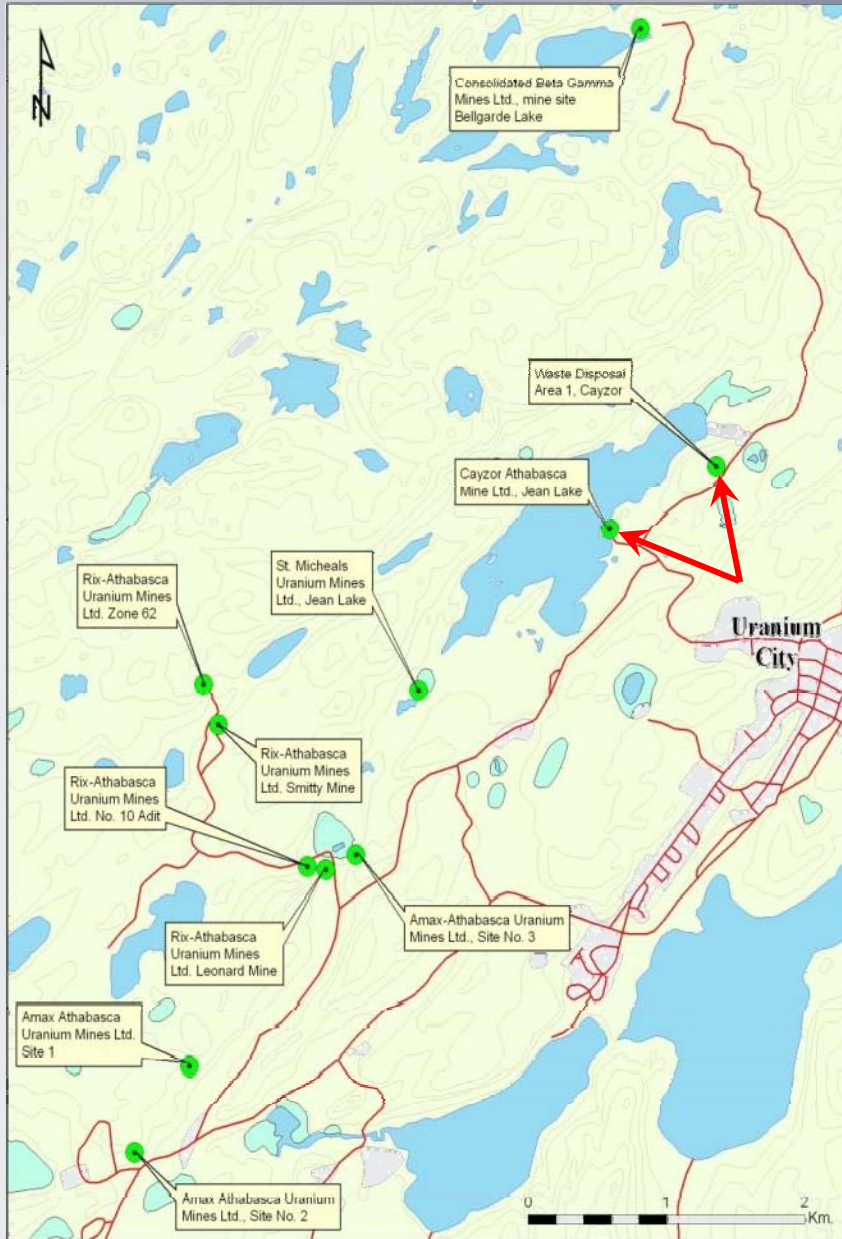


Open adit
Backfill with waste
rock
Gamma survey of
mine site area

Cayzor mine and dump Jean Lake



Head frame shaft area,
expose and assess original
concrete shaft cap





Cayzor Athabaska Mines Ltd., on Jean Lake, northwest of Uranium City.



Concrete foundations
break up and/or bury



Steel debris
collect and bury on
site in waste rock

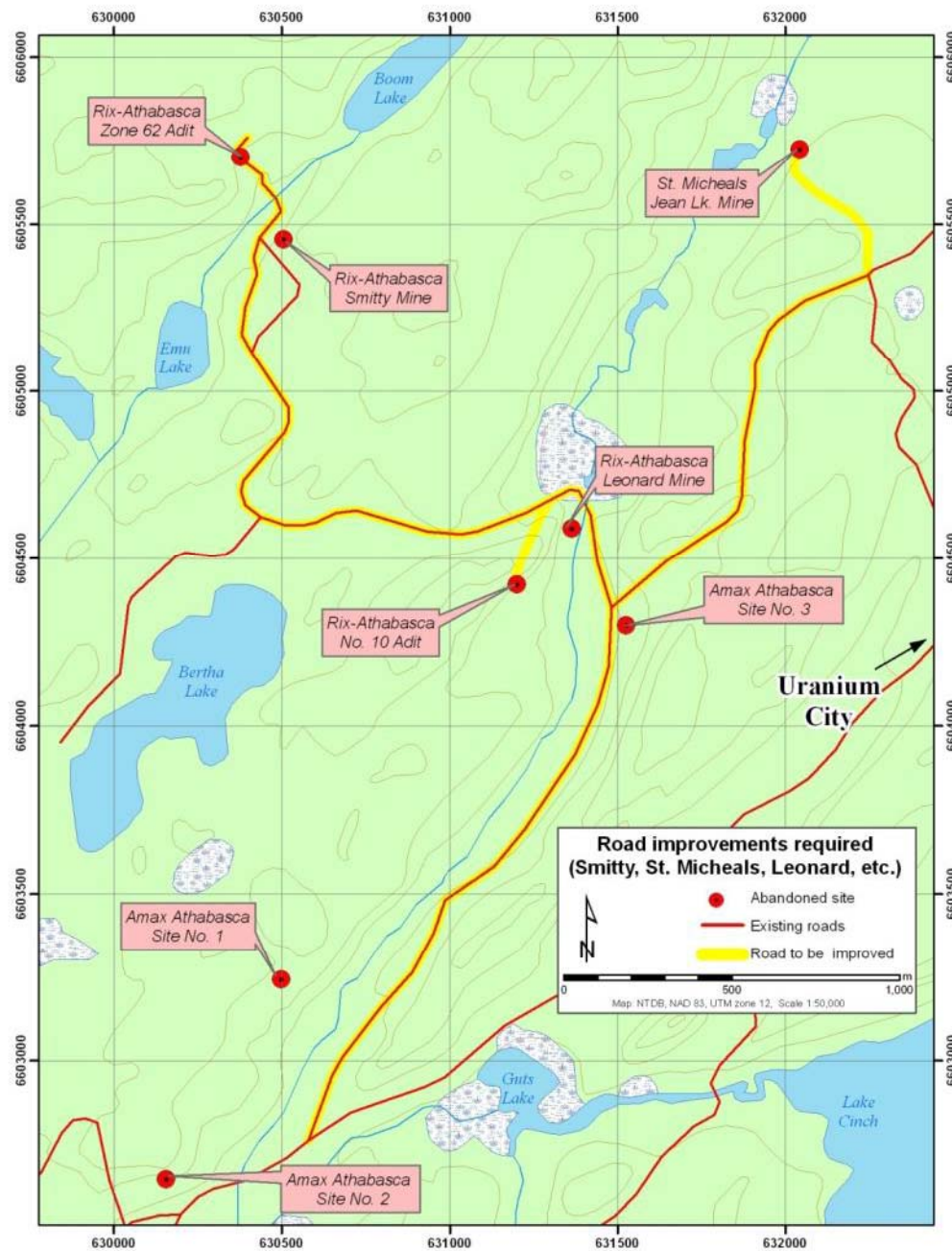


Cayzor dump site located few hundred metres north of mine site



Steel debris, tires, 45 gal. drums, lead from batteries, bury steel in Cayzor waste rock
Remove batteries to waste storage site at Lorado
Gamma survey of site



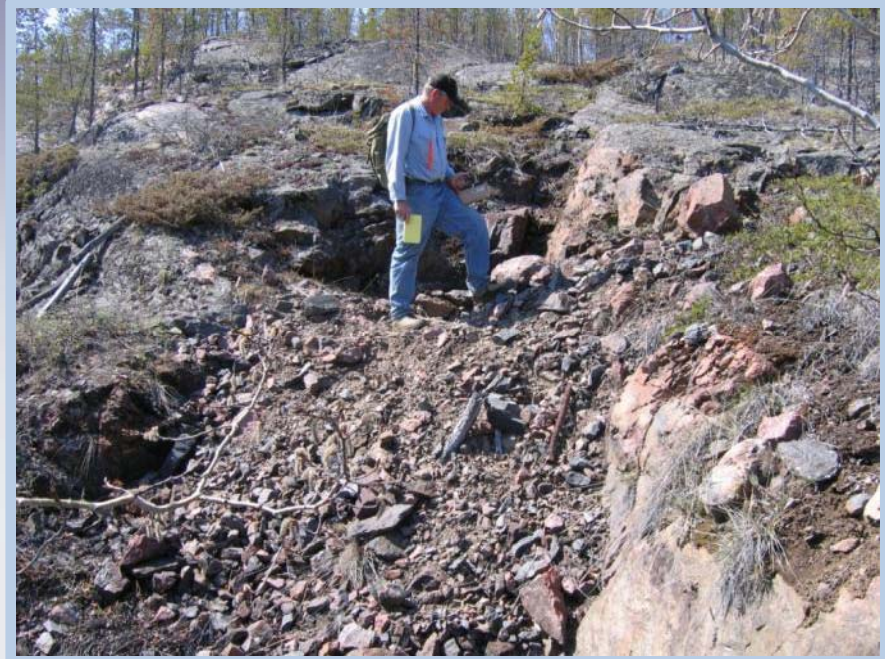


Remediation is also planned for eight other sites located just west of Uranium City along Rix road.

Four of the sites will require road improvements where beaver activity has resulted in the flooding of the original access road (near Leonard mine).

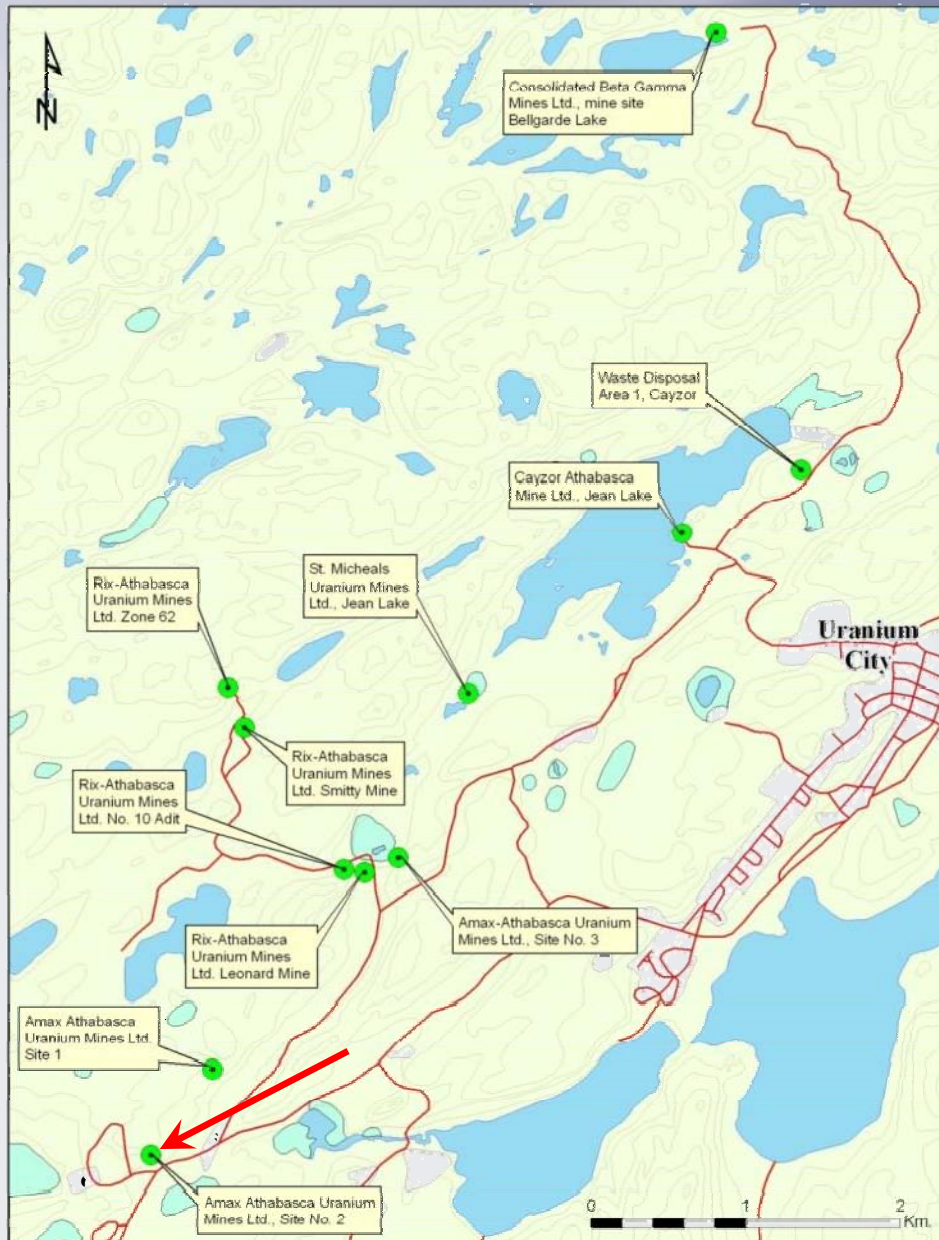
Access to St. Michaels, and the Amax-Athabasca sites will require road clearing only.

Rix Athabasca Site #1

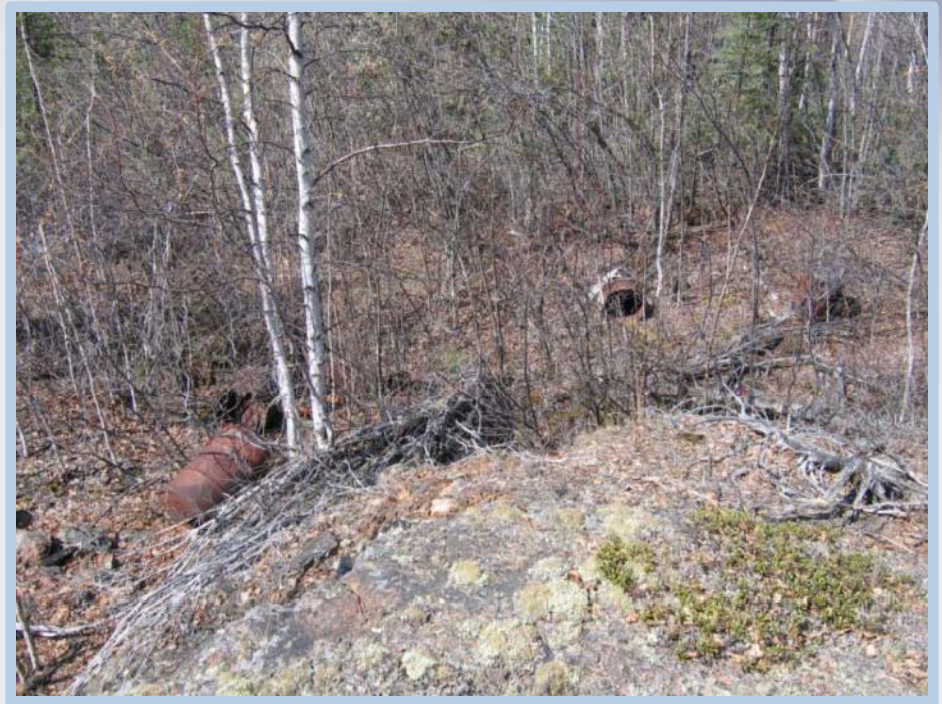


- Adit backfilled at closure, may require repacking
- Steel debris (pipe, drill rod, rails) will be collected and taken to a nearby waste rock site for burial if onsite disposal is not possible
- Gamma survey of site

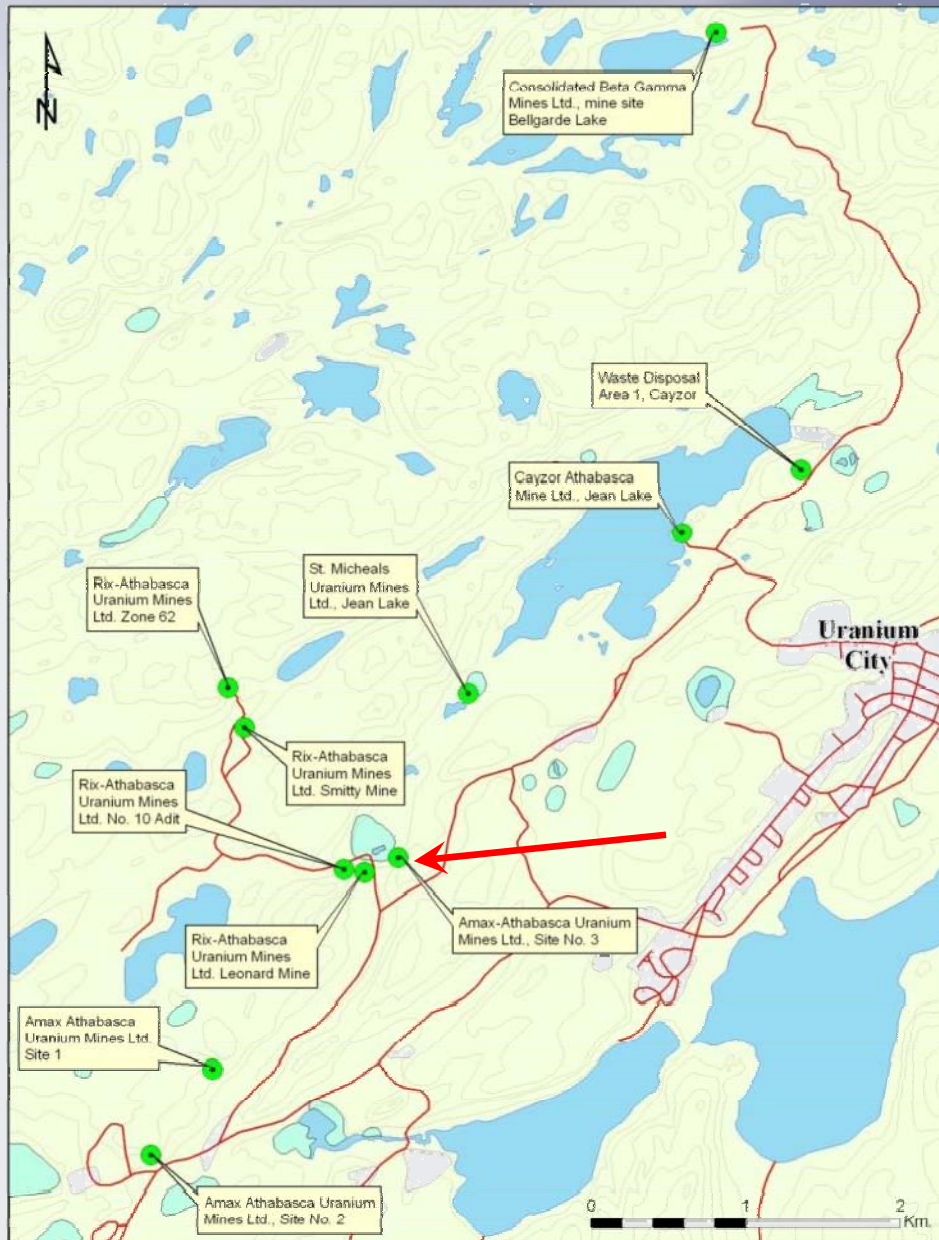
Amax Athabasca Site #2



- Scattered metal debris, 45 gal. drums, drill rods etc. collect and bury at St. Michaels
- No underground workings
- Gamma survey



Amax Athabasca Site #3



- Scattered metal debris, drums, drill rods, rails etc. collect and bury in nearby waste rock pile
- No underground workings
- Some concrete building foundations to break up
- Gamma survey

St. Michaels mine, Jean Lake



Some steel waste to be collected and buried in waste rock on site



Partially vegetated waste rock pile with scrap steel, pipes and other mining steel debris to be collected and buried on site

Collapsed building debris lumber to be separated from other waste and stockpiled for later burn



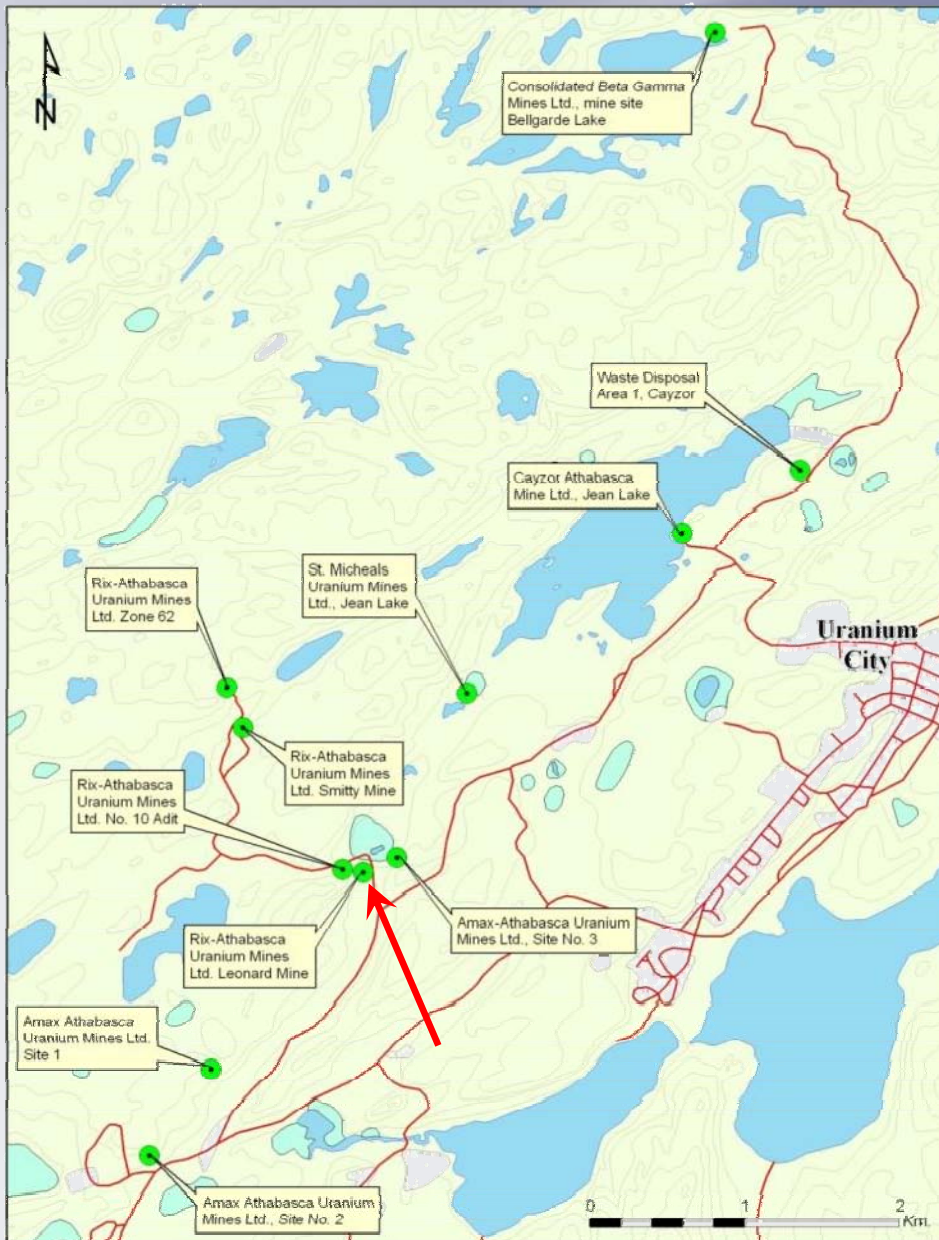


Concrete shaft at St Michaels, to be exposed, inspected and assessed for competence, may need replacement

Rix-Athabasca Leonard mine



- Break up concrete slabs,
- Collect debris from site,
- Bury steel & concrete in waste rock on site.
- Gamma survey



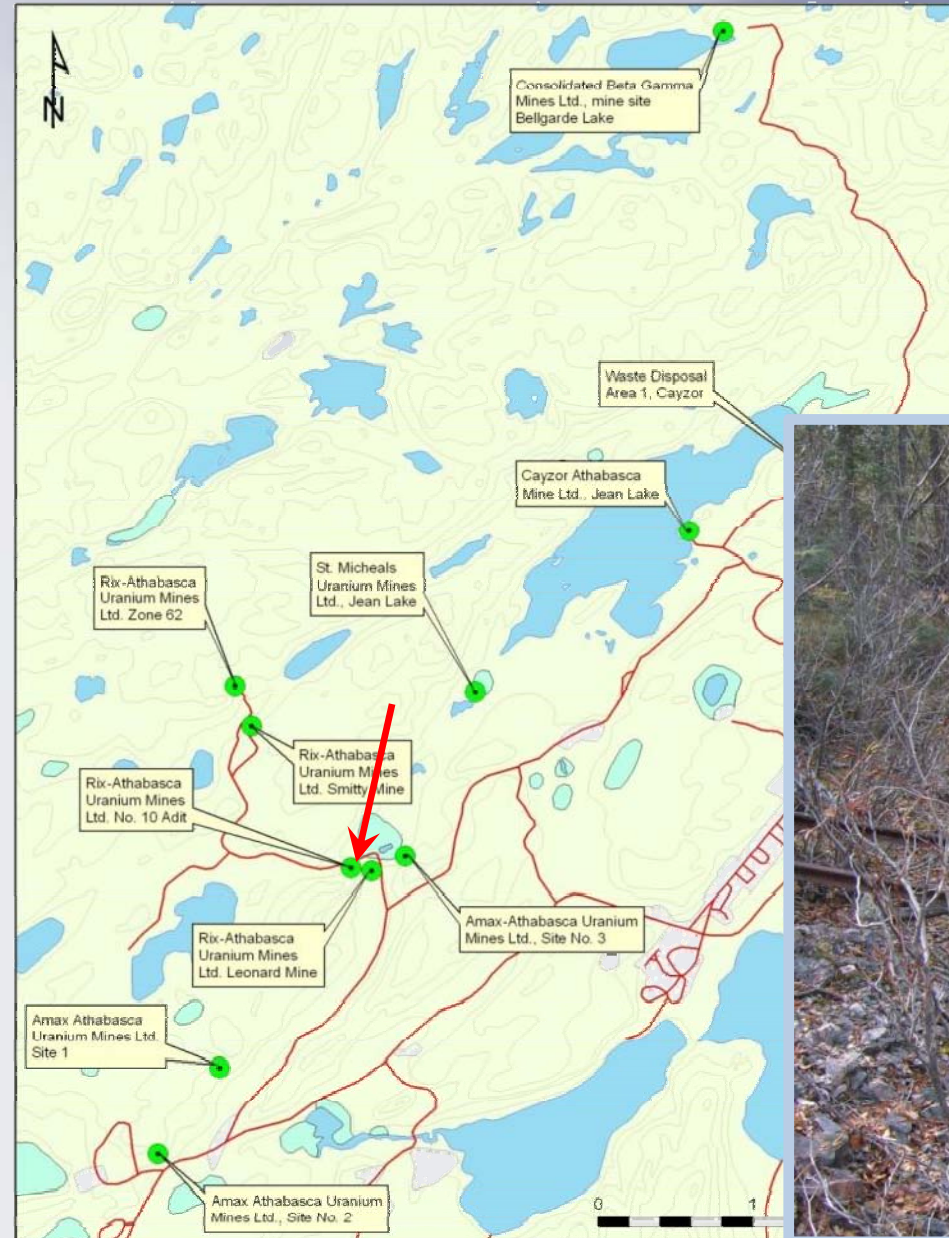
Adit showing signs of slumping, reopen and place backfill into adit as well as in front



Large poorly covered raise at Leonard site, assess for alternative closure options
Gamma survey mine area



Rix-Athabasca Adit #10



- Collect steel and other debris found on site,
- Bury steel in waste rock
- Backfill adit with local waste rock
- Gamma survey



Rix-Athabasca Smitty Mine site



One of several openings in need of closure at Smitty mine





Rix-Athabasca Uranium Mines Ltd., west of Uranium City.



Large steel tank and steel debris scattered all over the Smitty site will be collected and buried in waste rock on site

Open raise requires proper cover or plug to prevent entry
There are at least 3 similar openings on site that must be sealed
Complete gamma survey of mine site



Concrete building foundations to be broken up and covered with waste rock



Steel boiler with asbestos wrapped pipes, asbestos to be removed, contained, and taken to the SRC fenced temporary waste storage site at Lorado pending final disposal



Rix-Athabasca Zone 62



Some steel waste to be collected and buried, ore cart

Unstable bedrock caused
by underground mining
near surface



Concrete walls of adit covered by
falling bedrock, the adit is still
partially open and may require
backfilling





Questions about proposed work?