

# Lorado Mill Reclamation Update

**A contract to complete the  
Environmental Impact Study  
required to proceed with the  
reclamation of the CNSC  
licensed, Lorado Mill Site has  
recently been awarded to  
Golder Associates**

**Field investigations are planned  
to get underway in October 2010**



**The primary issue at the Lorado site is the presence of exposed and unconfined tailings which present a gamma radiation concern. Mill tailings on the ground surface are subject to wind dispersion. In addition, the tailings generate acid and leach metals into the surrounding ground and water.**

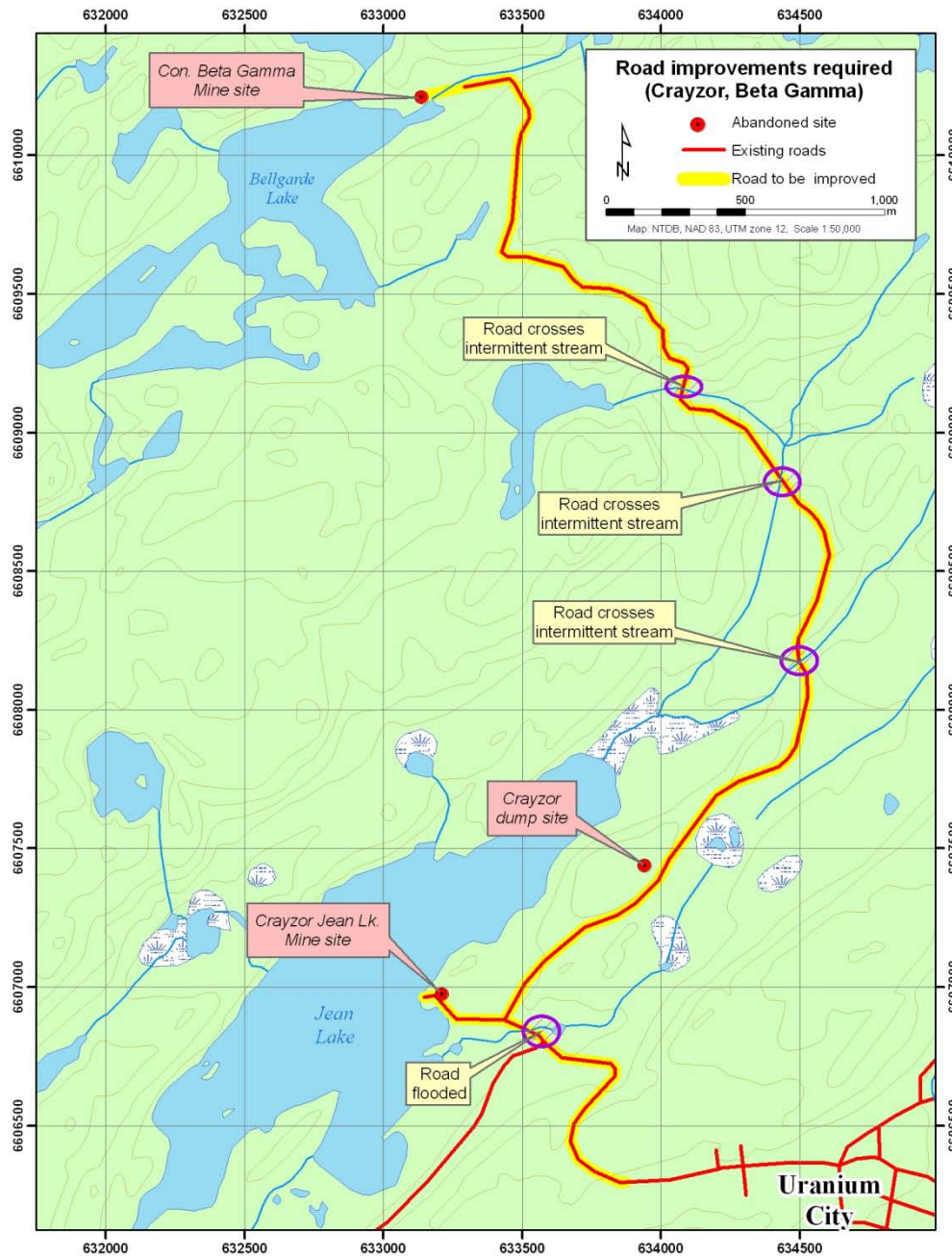
# Satellite Mine Site Remediation Update

# Project CLEANS Satellite site Remediation Summer 2010



**SRC put out tenders for the remediation of satellite sites in the spring of 2010.  
Two contractors were selected to do this work:**

- **Uranium City Contracting, Uranium City: 3 sites**
- **Stenne Services, Fond du Lac: 6 sites**

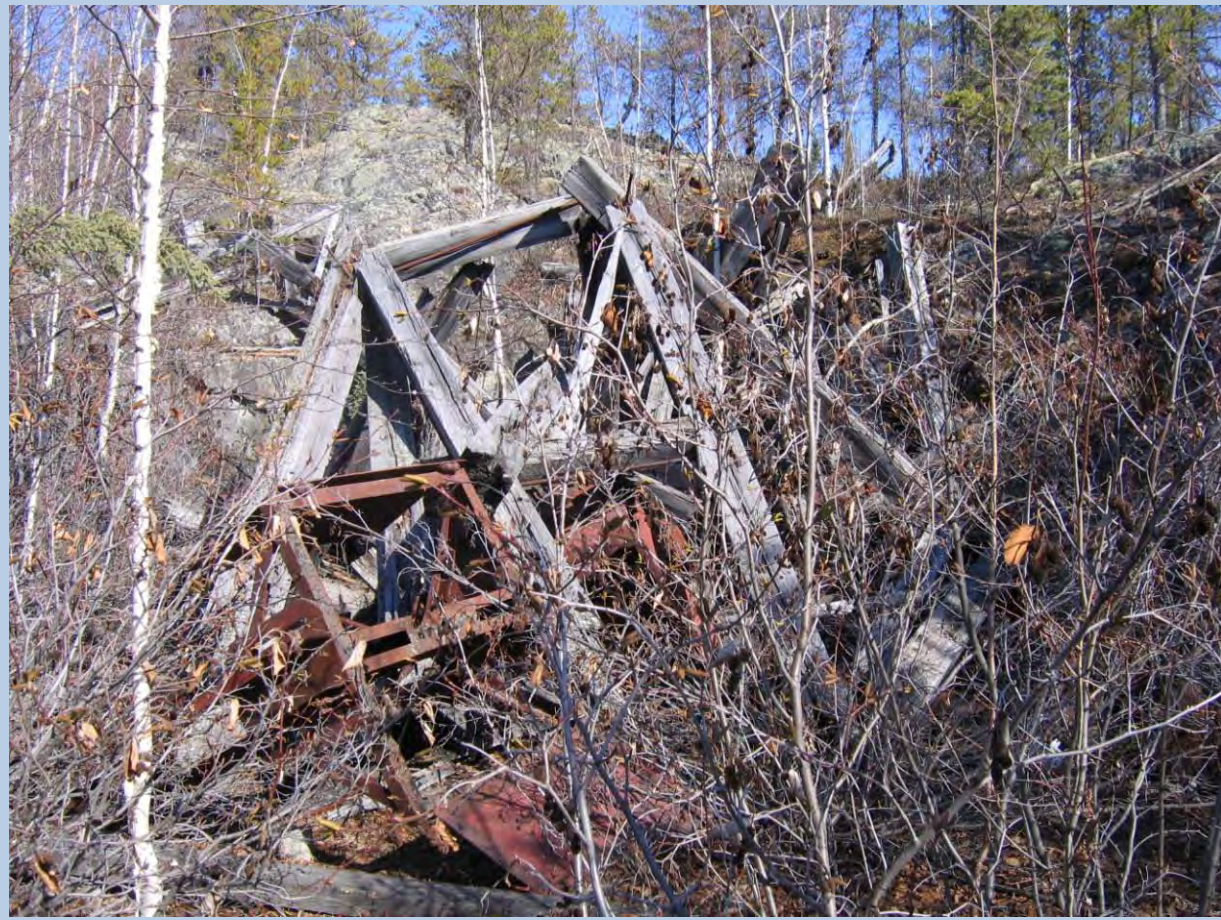


Two sites are located just northwest of Uranium City: Beta Gamma mine & Crayzor mine and dump site

To access these sites some road improvements were made to get equipment to the sites.



# Consolidated Beta Gamma, Belgrade Lake



- Headframe collapsed over open shaft
- separate steel from lumber
- bury steel, burn lumber
- design, and fabricate shaft cap

**Removing debris  
to expose**



**Shaft backfilled  
with waste rock**



Waste rock pile  
steel debris  
flatten slopes and bury steel  
in pile



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

**Open adit to  
underground at  
Beta Gamma**

**Adit backfilled  
with waste rock**



# 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.



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

Concrete foundations  
break up and/or bury

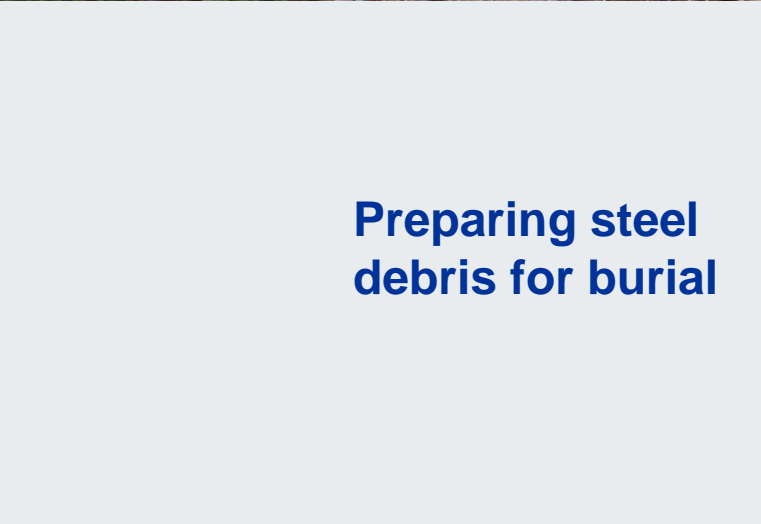


Steel debris  
collect and bury on  
site in waste rock





## Breaking down concrete footings



## Preparing steel debris for burial



## Crayzor dump site



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

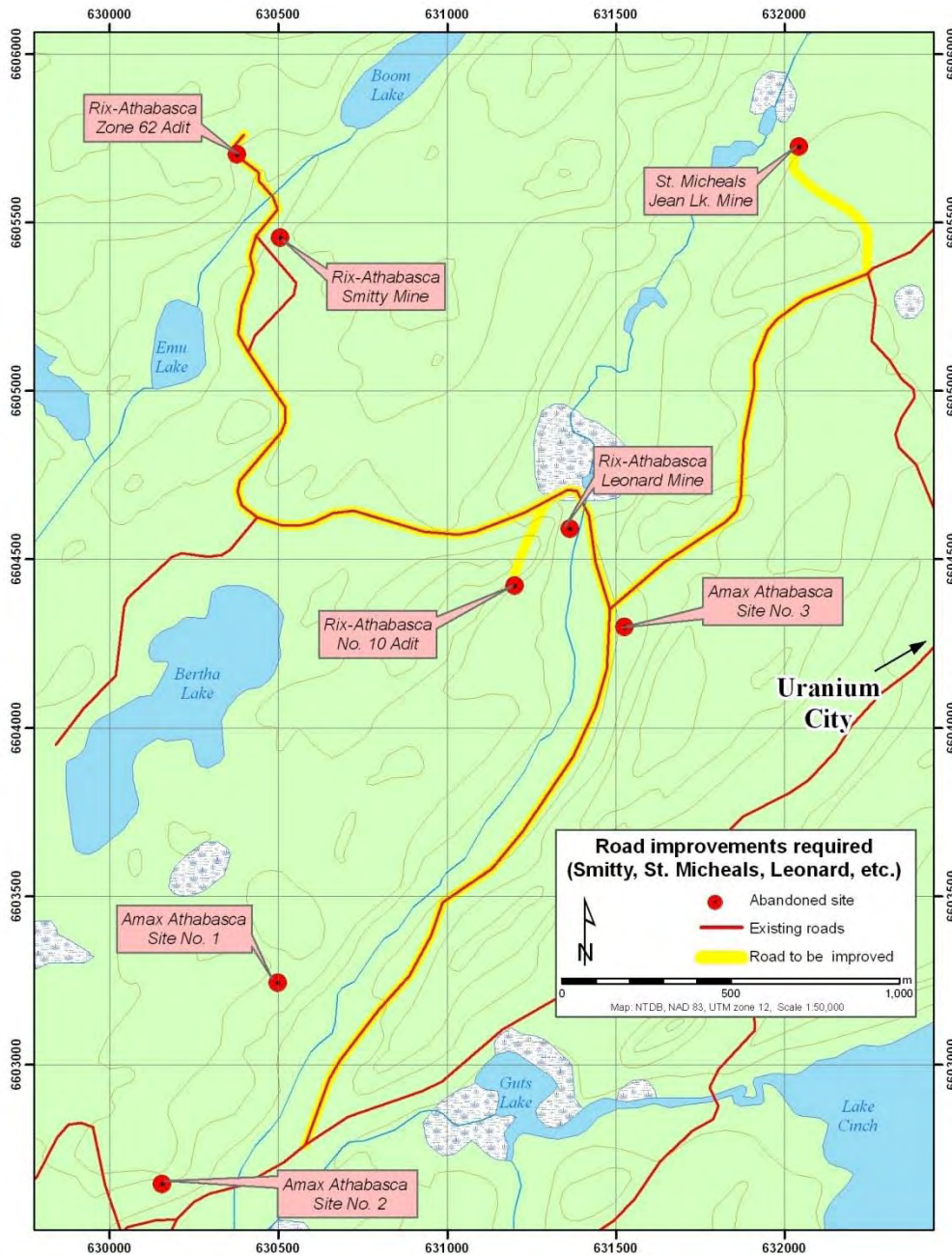




**Collecting metal  
debris for burial**



**After debris burial  
slash was placed  
over soil to help  
revegetation**

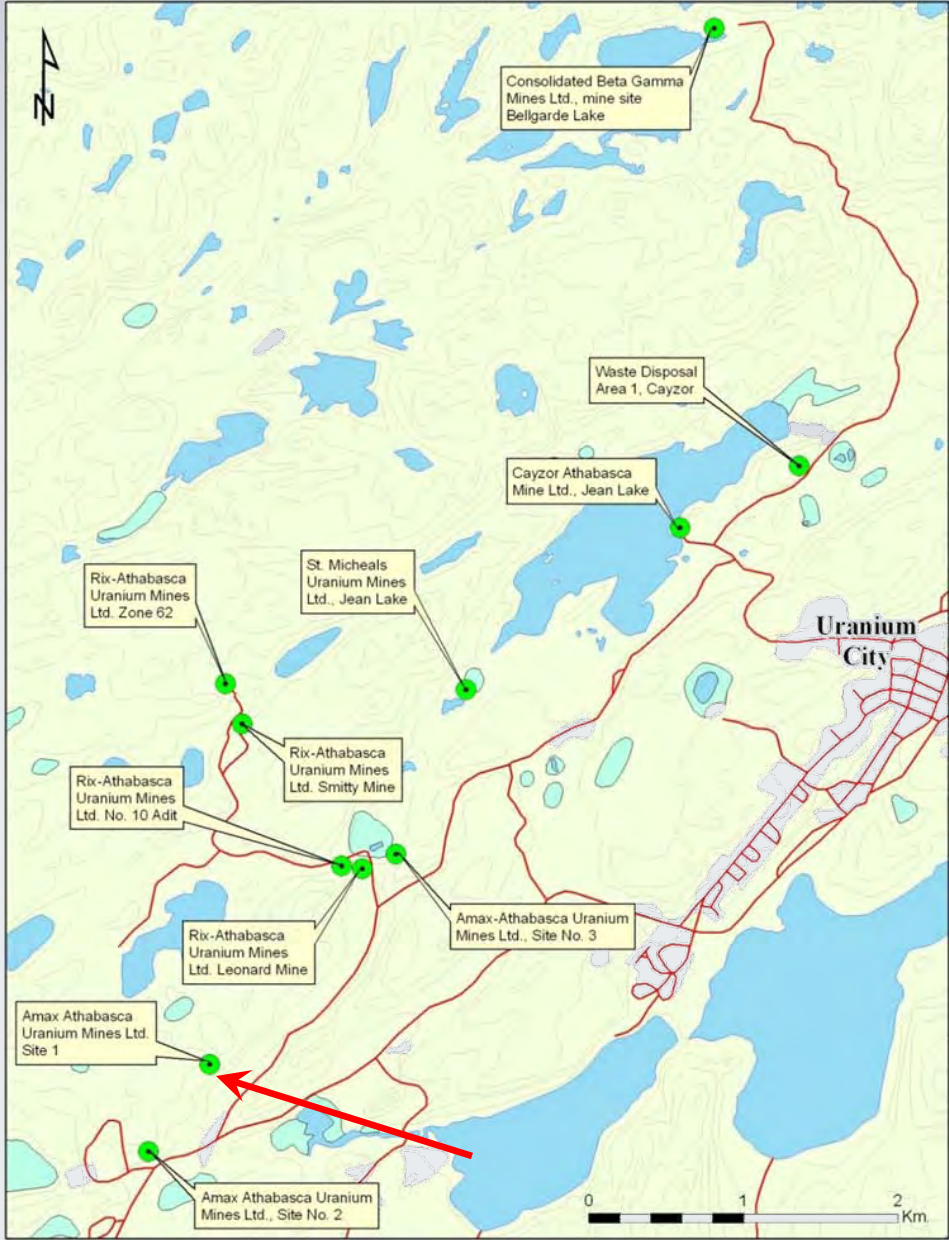


Remediation is also planned for eight other sites located just west of Uranium City along Rix road.

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

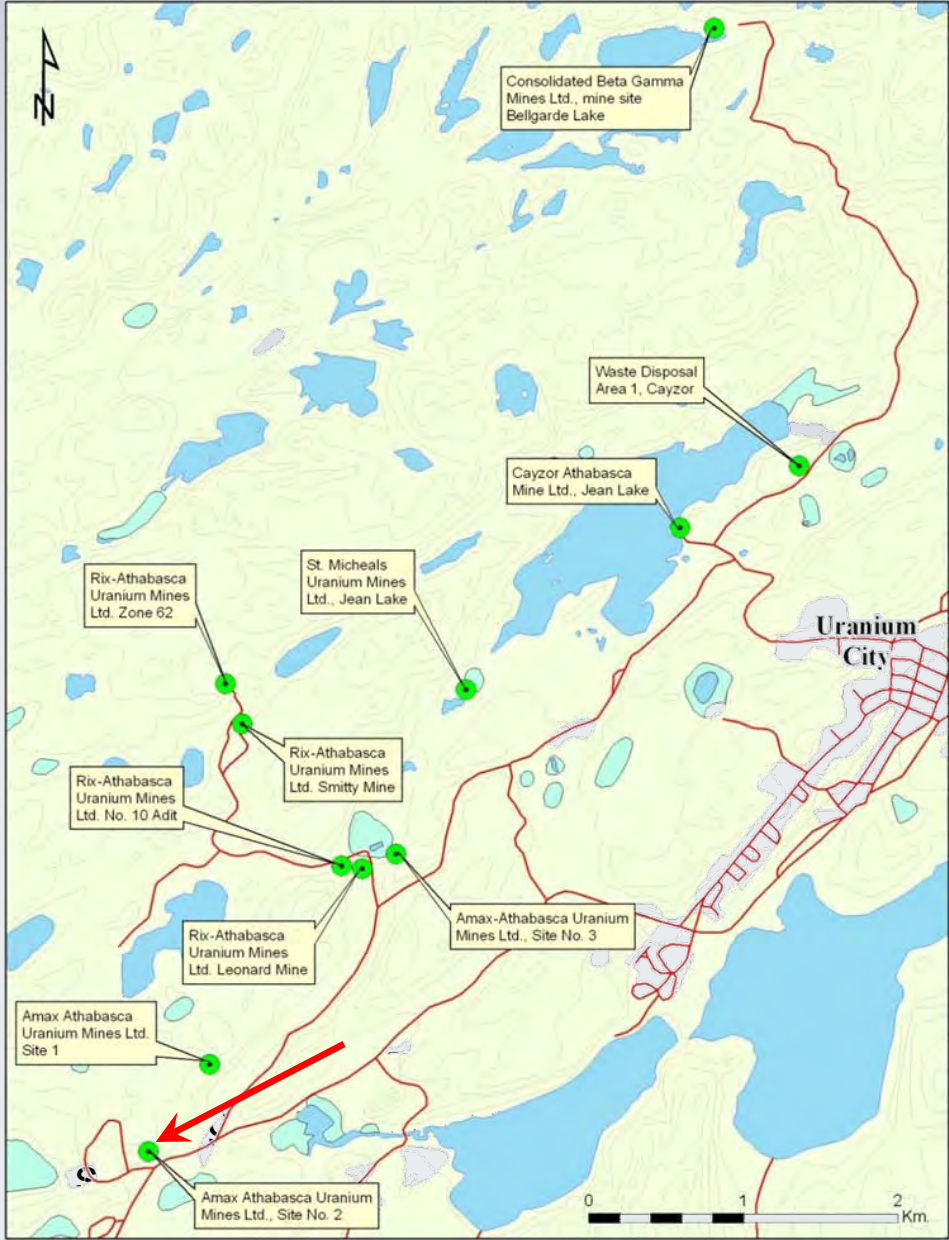
Access to St. Michaels, and the Amax-Athabasca sites will require road clearing only.

# 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 NL Eagle
- 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

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





# Rix-Athabasca Leonard mine



- Break up concrete slabs,
- Backfill adit
- 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



Waste rock cleared away  
from ice filled adit



Temporary gate placed  
over opening to allow ice  
to melt before rock  
backfill



# 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



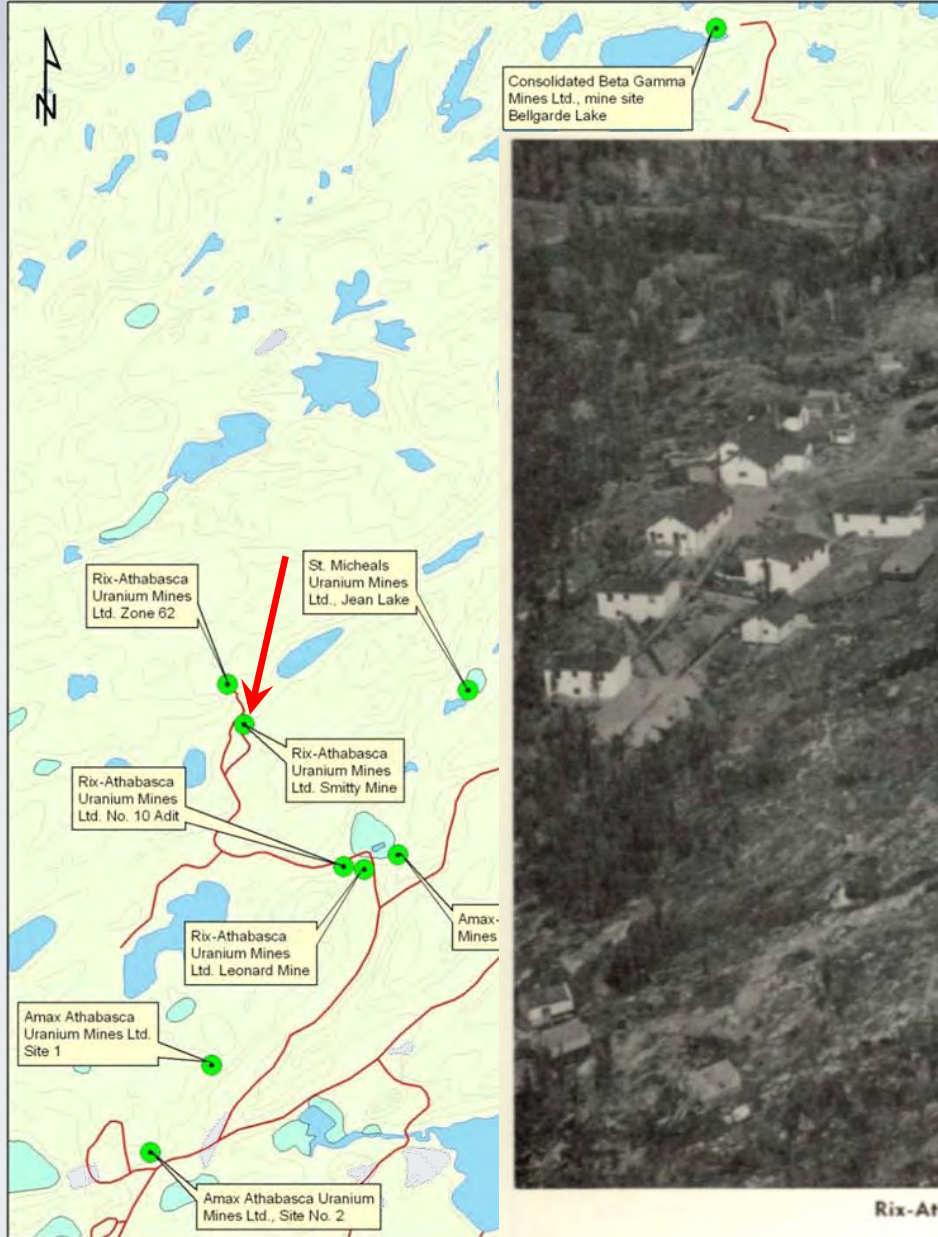
Adit 10 exposed and  
measured



Backfilled adit blocked  
with waste rock,



# Rix-Athabasca Smitty Mine site



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 until final disposal







## Breaking up concrete foundations

Broken concrete moved to on site disposal area for burial with waste rock





Large volume of steel debris collected at Smitty site



Concrete and steel being placed for burial with waste rock

Raise covered with wire mesh exposed, to be backfilled or covered with stainless steel cap



Previously unknown open raise discovered during course of remediation, plugged with polyurethane foam plug

**Remediation work is currently in progress at  
the satellite site**

**The contractor should be finished in  
approximately 2-3 weeks (mid Sept.)**

**Remaining activities:**

- **A** gamma survey will be done at each site
- **B**urn lumber collected and piled at site
- **C**ontinue to monitoring for signs of slumping
- **D**o site inspections with Saskatchewan Env.