

Project CLEANS (CLEAnup of Abandoned Northern Sites)

**SMA Expo Presentation
7 October 2010**

Project Overview



- ↳ Saskatchewan Research Council contracted by the Saskatchewan Ministry of Energy and Resources

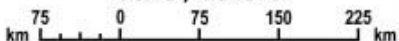
- ↳ Managing Project CLEANS
 - ↳ Gunnar mine and mill site
 - ↳ Lorado mill site
 - ↳ 36 satellite mine sites (without tailings)

- ↳ Multi-year project

LEGEND / LÉGENDE

- Provincial capital / Capitale provinciale
- Other populated places / Autres lieux habités
- Trans-Canada Highway / La Transcanadienne
- Major road / Route principale
- - - International boundary / Frontière internationale
- - - Provincial boundary / Limite provinciale

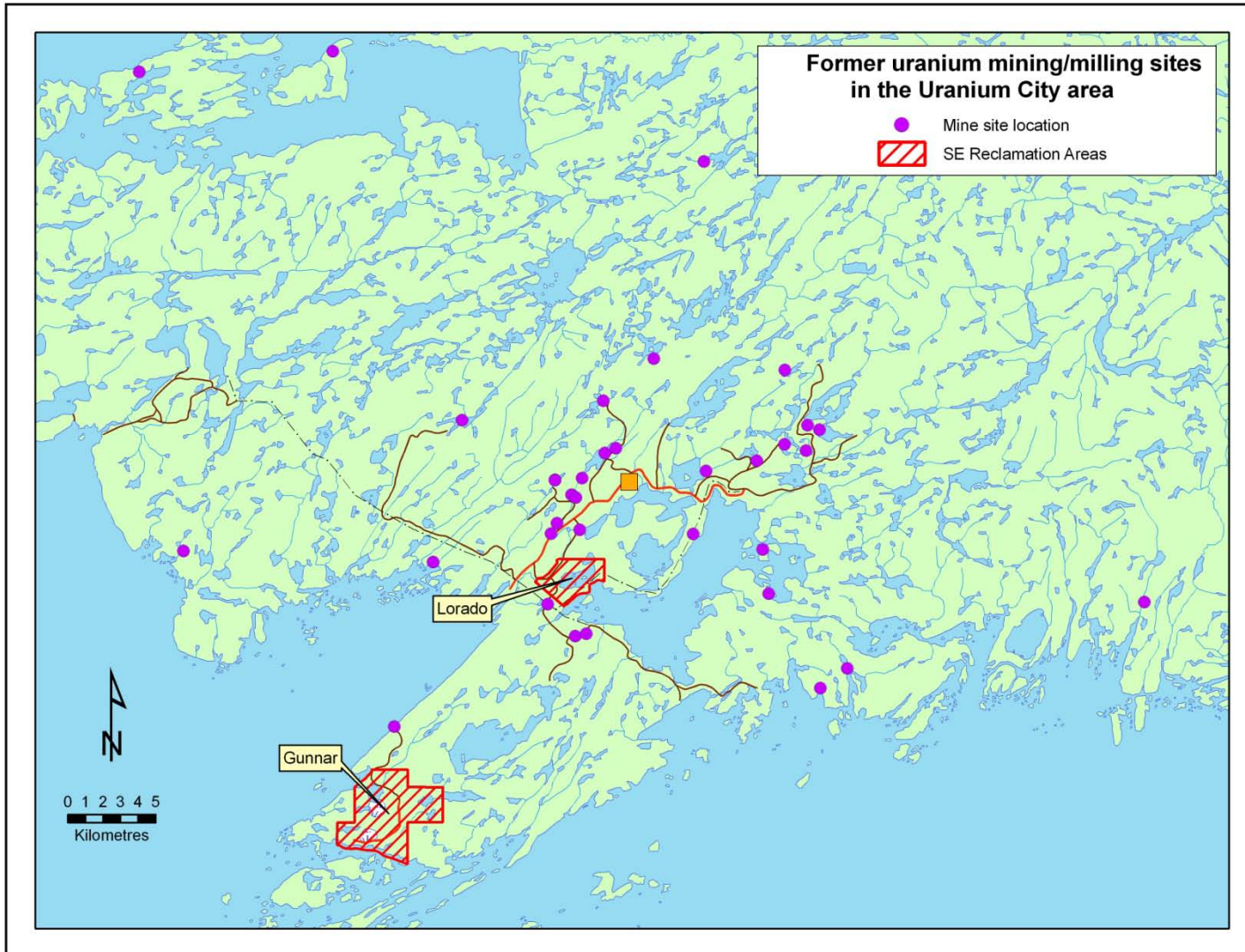
Scale / Echelle



Gunnar Site

↪ Approximately 825 kilometers by air north of Saskatoon

Mine Site Locations



Gunnar Site

- ↳ Major Components:
 - ↳ Buildings
 - ↳ Waste Rock
 - ↳ Pit
 - ↳ Tailings
- ↳ Hazardous Materials
 - ↳ Asbestos
 - ↳ Radiation
 - ↳ Other debris

Gunnar Site



- ↳ Work planned
 - ↳ 2010 – Wooden structures
 - ↳ 2011 – Remaining Buildings
 - ↳ 2012 – Other remediation



Gunnar Mine Site



Main Tailings

Acid Plant

Haul Road

Waste Rock Pile

Mill

Men's Dorms

Powerhouse

Flooded Pit

Sports Field

Shop

Office

Waste Rock Pile

"Mall"

Rink

Marina

School

Headframe

Tank Farm

Dock

100 50 0 100 Meters

Lake Athabasca

Satellite Sites

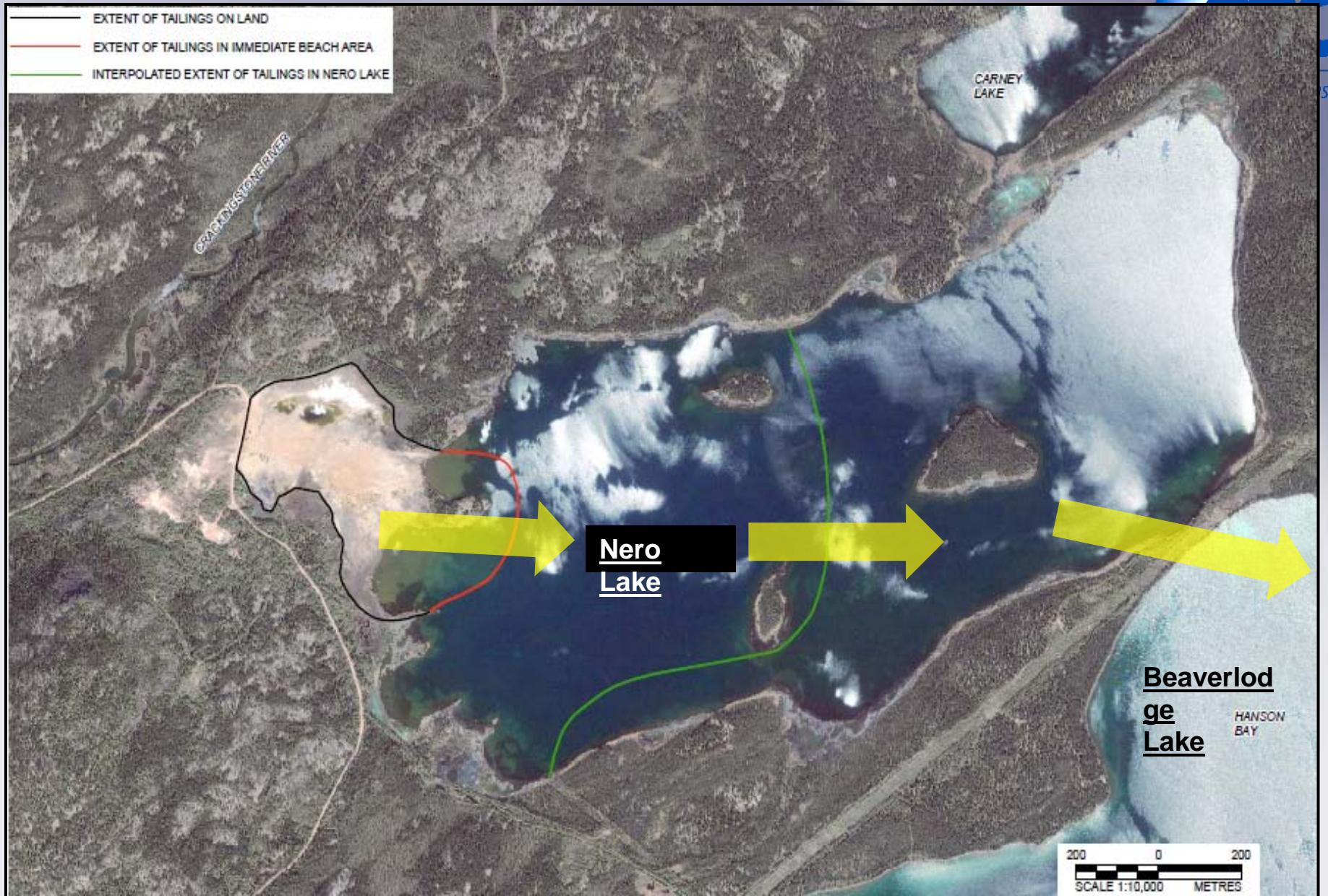
- ↳ Mostly small sites
 - ↳ Adits, raises, trenches
- ↳ Remediation has started on 20 sites
- ↳ Future sites are very remote – no road access

Satellites



Lorado Site

- ↳ Environmental Assessment recently started
- ↳ Remediation work to start after project receives necessary regulatory approvals (approx. 2-3 years)
- ↳ Major issues:
 - ↳ Tailings
 - ↳ Water quality
 - ↳ Land bridge



Work types

- ↳ Building Demolition
- ↳ Earth Moving/Excavation
- ↳ Hazardous Materials Handling
- ↳ Logistics
 - ↳ Transportation
 - ↳ Field Camp support

Thank You...



**Concept by a
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www.saskcleans.ca