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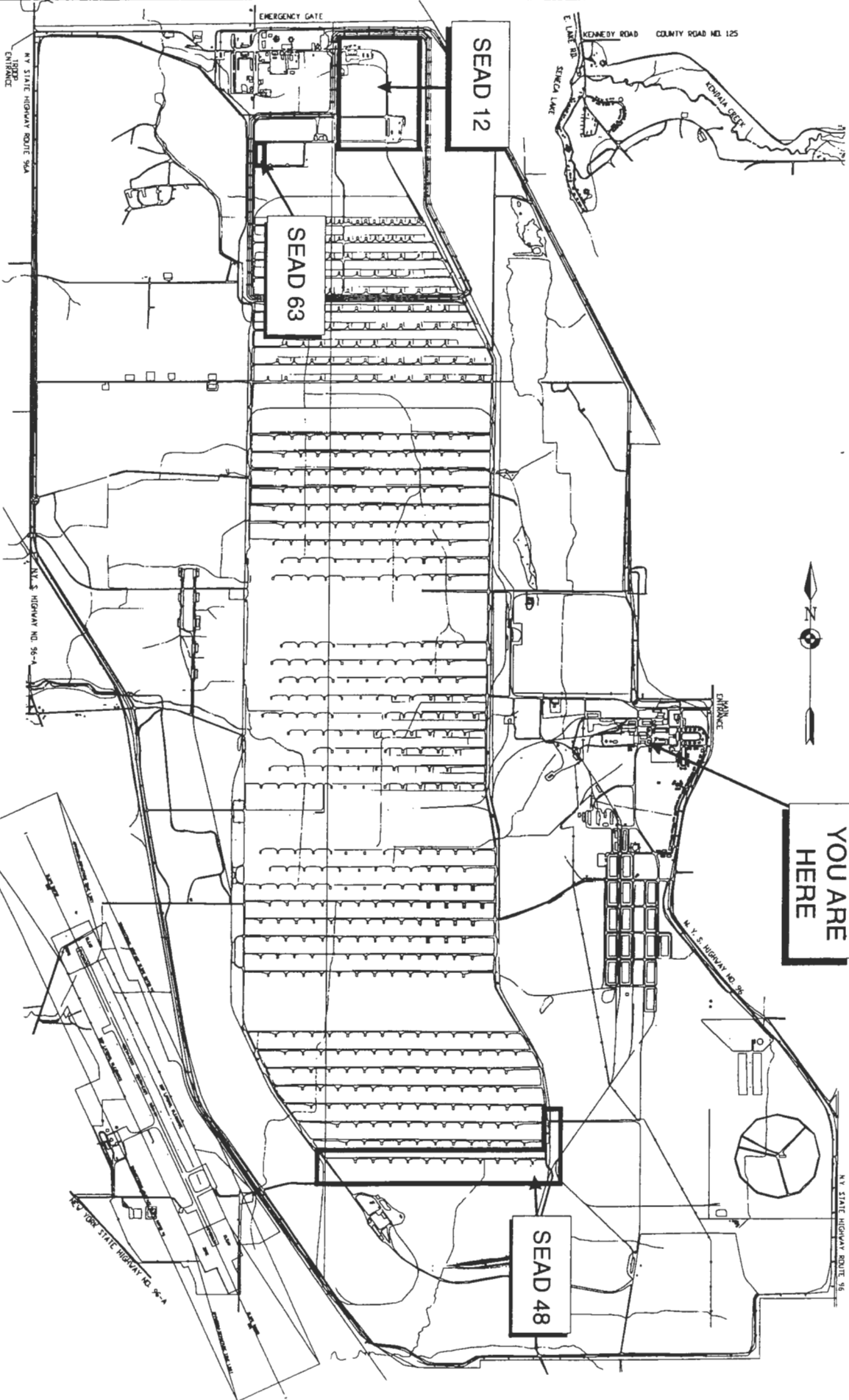
Pitchblend Storage Igloos  
SEAD-48  
Peer Review Presentation

Presented by  
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# Pitchblend Storage Igloos

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- Site History
- Project Schedule
- Site Characterization
- Reuse Implications
- Risk Assessment
- Technology Selection
- Cost
- Initiatives to Reduce Cost
- Summary





ROAD

IGLOO ROAD NO. 39

E0801

E0802

E0803

E0804

E0805

E0806

E0807

E0808

E0809

E0810

E0811

FAYETTE ROAD

LOADING DOCK 600

LOADING DOCK 305



SD48SITE.DWG

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# Site History

## Pitchblend Storage Igloos

# Pitchblend Storage Igloos

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- Storage during brief period from 1942 to support Manhattan Project
- 11 igloos ( E-0800 row) stored 1823 barrels of high grade uranium oxide
- Result of 1979 DOE survey found radiological contamination in and near entrance to the igloos. Igloos remained empty awaiting decontamination

# Pitchblend Storage Igloos

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- 1985 survey by U.S. Army Ballistics Laboratory recommended interior decontamination of surfaces and soil removal outdoors at two igloos
- SEAD Safety Officer coordinated a decontamination of igloos in 1985 U. S. Nuclear Regulatory Commission conducted closeout survey in 1987
- NYSDEC and NYSDOH performed a follow up survey in 1993 and found some areas of contamination in and around two igloos

# Project Schedule

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- Draft RI/FS Work Plan December 1995
- Draft RI Submission November 2000
- Draft FS Submission March 2001
- Draft Prap July 2001
- Draft ROD January 2002



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# Site Characterization

## Pitchblend Storage Igloos

# EXTENT OF CONTAMINATION

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- E-0804: inside along concrete drainage ditch, outside drain, and soils
- E-0808: one location inside igloo
- Debris and soil samples: elevated concentrations of U-238 and Ra-226
- Full extent to be determined during the RI

# Reuse Implications

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## Conservation/Recreation Area

- Area has not yet been addressed under the National Historic Preservation Act
- An eligibility determination will be necessary for possible inclusion to the National Register of Historic Places
- One or more igloos may be eligible
- The entire igloo row may be considered as a historic district

# Risk Assessment

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To be determined during the  
RI/FS process

# Technology Selection

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- No action
- Surface Washing
- Vacuum blasting
- Excavation with off-site disposal
- Institutional controls
- Entombment

# Initiatives to Reduce Cost

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- Utilize data generated from the proposed unrestricted use building survey will determine which igloos will require decontamination

# Cost

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- FY 99                      RI/FS                      \$1,000 K
- FY 02                      RD                                      600 K
- FY 03                      RA                                      2,000 K

# Summary

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- E-800 igloos used to store pitchblend ore in 1940's
- Igloos decontaminated in 1985
- Additional contamination discovered in 1993
- Two igloos were noted with hot spots
- RI/FS to begin in FY 2000
- Full extent of contamination found will determine the remedial action required



