## PROPOSED PLAN SUMMARY FORMER LORING AIR FORCE BASE LAUNDRY ANNEX CENTRAL DRIVE, PRESQUE ISLE, MAINE

## JANUARY 30, 2024 6:30 PM

OPERATING FLOOR EL. 491.00

TRACTOR NO.

TRACTORISTS & GOMERAN





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## **MEETING STRUCTURE**



Meeting is being recorded and will be transcribed for the record.

Feel free to ask questions at any time

- In addition, opportunities available to ask questions between sections
- Please state your name before making a comment and speak clearly for recording to capture comment accurately.

### Responsiveness Summary

 Comments received verbally during the public meeting or in writing (by February 23, 2024) will be included in the Responsiveness Summary section of the Record of Decision



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## **MEETING STRUCTURE**

### USACE presenters include:

Beth Gosselin, Moderator (USACE Public Affairs Office) Heather Sullivan, USACE FUDS Program Manager Allison Drouin, Project Manager, Credere Associates (USACE Contractor) Amy Rosenstein, USACE Risk Assessor Marie Wojtas, USACE Project Manager

Also attending:

Max Luick, Project Manager, Maine Department of Environmental Protection (DEP) Brent Smith, USACE Geologist

Grace Greenberg, USACE Risk Assessor



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Formerly Used Defense Sites (FUDS) Process

### **Remedial Investigation**

- Nature and Extent of Contamination
- Fate and Transport of Contaminants
- Risk Assessments

Proposed Plan



## WHAT IS FUDS?



## CERCLA (1980)

- Comprehensive Environmental Response, Compensation, and Liability Act

SARA (1986) – Superfund Amendments & Reauthorization Act

DERP (1986) – Defense Environmental Restoration Program

» Formerly Used Defense Site (FUDS)









## FORMERLY USED DEFENSE SITE (FUDS)



## Questions?



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## **PROJECT LOCATION**





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## SITE HISTORY

- 1941-1974: Presque Isle Air Force Base
- 1941 1974: Central Drive used for warehouses and Laundry Annex
- November 25, 1974 deeded to
  Presque Isle Industrial Council (PIIC)
- 1974: CoPI/PIIC
- 1980s: building demolition
- 1994-1998: underground storage tank (UST) and building foundation removal





## **CURRENT LAND USE & RESTRICTIONS**



#### Managed by PIIC since 1974

#### Current and Future Land Use

- Currently undeveloped
- Future designation as parking lot or undeveloped
- 1978 deed restricts use to airport uses
- City of Presque Isle Ordinance restricts use and limits construction due to lot size
- Drinking water (Municipal Supply)
- Nearest supply well is 2,500 feet southeast
- Public water available to Site





## HISTORICAL SITE INVESTIGATIONS



- 1994: UST Removals and Closure Assessments
- 1996-1997: Initial Site Investigation
- 1998: Building foundation removed
- 1999-2004: Surface Water and Sediment Monitoring
- 2015: Current conditions Trip Report
- 2016-2017: Additional Investigation Trip Report (two)
- 2022-2023: Remedial Investigation (RI) Report -Final RI Report January 2023



## **REMEDIAL INVESTIGATION**



The goals of the RI were to:

- Develop a conceptual site model (CSM)
  - Identify possible source(s) of contamination and their constituents
  - Understand the hydrogeology
  - Characterize the nature and extent of contamination
  - Evaluate the fate and transport of contaminants
- Conduct human health and screening level ecological risk assessments to determine if Site posed any unacceptable risks



## **TYPES OF INFORMATION COLLECTED**

## Samples Taken

## Subsurface soil:

- 22 (1996-1997)
- 17 (2016-2017)

# Culvert sediment and surface water:

- Several rounds 1999-2004

### Groundwater:

- 4 wells sampled 1996-1997
- 4 wells sampled 2015







## SITE AND STUDY AREA MAP





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# SURFACE WATER AND SEDIMENT SAMPLING







## SOIL AND GROUNDWATER SAMPLING LOCATIONS





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## SOIL AND GROUNDWATER SAMPLING LOCATIONS









Concentrations of residual contaminants are primarily petroleum constituents at a depth of limited exposure (10 feet bgs or more)

Contaminants of potential concern (COPC) were identified if the analyte was detected above its respective Project Action Limit

The COPC class identified at the site was polycyclic aromatic hydrocarbons (PAHs) - (xylenes, naphthalene, benzo(a)pyrene, and dibenzo(a,h)anthracene)





## PROJECT HISTORY AND REMEDIAL INVESTIGATION

Questions?

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## **GRAPHICAL CONCEPTUAL SITE MODEL**



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## **RISK ASSESSMENT RESULTS**

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#### Human Health Risk Assessment (HHRA)

Selected chemicals of potential concern (COPCs) to evaluate in the HHRA, based on exceedances of health-protective screening levels and background:

- No COPCs in groundwater, soil gas, sediment, or surface water.
- Several PAHs (xylenes, naphthalene, benzo(a)pyrene, and dibenzo(a,h)anthracene) were selected as COPCs in subsurface soil.

#### Estimated health risks for receptors in Site media:

• Only future construction/utility worker based on depth of contamination.

#### **Decision Point:**

- To qualify as a contaminant of concern under CERCLA, estimated risks for the assumed exposure pathways at a Site must be greater than background and:
  - Exceed a 1 x 10<sup>-4</sup> site cancer risk, or
  - Exceed a Hazard Index of 1 for non-cancer adverse health effects.

#### **Results:**

- Cumulative cancer risks for all exposure scenarios were  $< 1 \times 10^{-4}$ .
- For non-cancer adverse health effects, all Hazard Indices were < 1.

#### **Conclusion:**

No unacceptable human health risks for current or future Site uses.



### Risk Assessment Results (continued)

#### Screening Level Ecological Risk Assessment (SLERA)



Selected chemicals of potential ecological concern (COPECs) to evaluate, based on exceedances of ecological screening levels and background:

- All sediment and surface water sampling results were below ecological screening levels, so no COPECs were selected.
- Some soil concentrations at depth exceeded ecological screening levels.

#### Developed ecological site description, potential exposure pathways and receptors as part of the CSM:

• Ecological exposure pathways likely only for exposure to surface water and sediment.

#### A refined analysis of ecological risk was not required based on screening level results.

#### **Decision Point:**

- To qualify as an ecological contaminant of concern, Site contaminants must:
- Exceed an ecological screening level and background, and/or
- Show evidence of off-site migration that could affect habitat.

#### **Results:**

- All sediment and surface water sampling results were below ecological screening values and thus are unlikely to pose unacceptable risks to ecological receptors
- Some COPECs in soils > 6 ft depth exceeded ecological screening levels, though future construction is unlikely in this location.
- A full baseline ecological risk assessment was not required

#### **Conclusion:**

#### No unacceptable current or future ecological risks.



### Risk assessment results (continued)

#### **Petroleum Assessment**

#### Estimated health risks for receptors in Site media:

• Only future utility worker (Maine DEP Construction Worker criteria) based on depth of contamination.

#### **Decision Point:**

• Concentrations that exceed Maine DEP Remedial Action Guidelines (RAGs).

#### **Results:**

- Results in LASB8-1 (12-14 ft bgs) and LASB11-1 (6-8 ft bgs) were above the construction worker RAGs for C9-C12 aliphatics.
- However, based on the depth of contamination and anticipated future use/site use limitations, no exposure pathways are likely.

#### **Conclusion:**

No unacceptable human health risks for exposures to petroleum-related contaminants with current or future use.





## **RISK ASSESSMENT CONCLUSIONS**



- Results of the baseline human health risk assessment and the screening level ecological risk assessment indicate there are no unacceptable human health or ecological risks at the Site.
- The Petroleum Assessment identified results above the Maine DEP RAGs, but no complete exposure pathways were identified.
- A Feasibility Study is not warranted as media within the Site do not pose unacceptable risks to human and/or ecological receptors.



## RISK ASSESSMENT



## Questions?



## **PROPOSED PLAN**



USACE is proposing "No Further Action" as the remedial decision for the site.

Under CERCLA, if no unacceptable risks to human health or the environment are present, the determination of No Further Action is appropriate.





## Record of Decision (ROD) [anticipated to be completed in Summer 2024]

- Responsiveness Summary is part of the ROD. It will include responses to public comments received during the comment period.
- ROD will be added to the Information Repository. Notification of its completion will be published in local newspaper.





Verbal comments at today's meeting and any questions and answers have been recorded.

Written comments due February 23, 2024

Comments and responses will be included in the Part 3: Responsiveness Summary of the Record of Decision



## **COMMENT PROCESS**

Send written comments to:

## Ms. Marie Wojtas, Project Manager US Army Corps of Engineers New England District 696 Virginia Road Concord, MA 01742-2751

(978)-318-8788

email: marie.a.wojtas@usace.army.mil





## **INFORMATION REPOSITORIES**



The Administrative Record (AR) File contains all documents relied upon as a basis for the remedy selection.

The Administrative Record can be found at the following locations:

LOCAL: Caribou Public Library 30 High Street Caribou, Maine 04736

USACE: New England District office 696 Virginia Road, Concord, Massachusetts 01742-2751

Key Documents posted on USACE <u>https://www.nae.usace.army.mil/missions/projects-topics/former-loring-air-force-base-afb-laundry-annex/</u>



## **PROPOSED PLAN**



## Questions?