

*Public Involvement Process  
for the Bird Machine  
Company Property*

Presented By  
Baker Hughes Process Systems, Inc.  
and Weston Solutions, Inc.

# Welcome and Introductions

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- Dina C. Kuykendall, Director of Environmental Affairs, Baker Hughes
- Clayton Curtis, Manager, Health Safety & Environment, Baker Hughes
- Arthur Cunningham, LSP, Weston Solutions, Inc., Licensed Site Professional

# Public Involvement Process

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- Introduce the Draft Public Involvement Plan (PIP)
- Defines how we will communicate information about the Bird site to the community
- Shows how the community can communicate concerns

# Baker Hughes Process Systems

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- Global Company, Responsible Corporate Citizen
- Committed to protect
  - Employee and community health and safety
  - The environment
- HS&E Policy endorsed by CEO
  - Used by employees in making business decisions
- Community outreach

# Baker Hughes Process Systems

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- We're here to:
  - Provide accurate picture of environmental status
  - Listen to community concerns, questions
  - Future Development plans not available
- Developed portions of Bird site cleaned to Commercial/Industrial Standard
  - Commensurate with level of contamination/risk
  - Previous use of the Property, current zoning

# Baker Hughes Process Systems

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- **Commitment to Cleanup**
  - Voluntary Remediation, agency notified and participates as needed
  - Dedicated project manager – Clayton Curtis
  - Involvement by Director & V.P. HS&E, others
  - Resources and Environmental Expertise Identified – Weston Solutions
  - Funding – nearly \$2.5 Million, >2 M in 2005; nearly 50% of global remediation spending

# Bird Machine History & Overview

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- 1888 Sanborn Map identifies Walpole Emery Mill
- 1919 Bird Machine moves to the site
- Expansions in 1946, 1964, 1974
  - Marks building construction and subsurface disturbances
  - Expansion and associated demolition is believed to have resulted in onsite burial of debris and contaminants

# Bird Machine History & Overview

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- Baker Hughes purchases Bird in June 1989
  - Initial investigations conducted with acquisition
  - Remediation of known issues conducted in 1990
- Assets of Bird sold to Andritz in 2004
- Manufacturing ceased in December 2004
- Shipment of Inventory complete in August 2005
  - In preparing for closure, the standard investigation process identified additional issues
  - Historical contamination occurred prior to Baker ownership of property

# Bird Machine History and Overview

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- Investigation has included comprehensive research:
  - Review of aerial photos
  - Interviews of former employees
  - Evaluation of site operating areas/activities
  - Sampling in areas of concern to determine chemicals of concern (nature and extent)
- Release notifications were made as necessary

# Weston Solutions

## Bird Machine Project Overview

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- Description of Public Involvement Plan
- Review of Bird Investigation Results
- Progress of Remediation
- Future Plans
- Frequent Breaks for Questions & Answers

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# Public Involvement Plan

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- Requested by petition
- Plan drafted - available tonight for comment
- 20-day comment period closes January 25, 2006
- Final Plan available February 24, 2006

## Purpose of the Public Involvement Plan

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- Identify community concerns
- Provide opportunities for public comment
- Evaluate comments in the planning process
- Explain the Massachusetts Contingency Plan (MCP) process

# *Elements of Public Involvement Plan*

Local information repository

Mailing list

List of community concerns

Project schedule

Public Involvement meeting schedule

Other opportunities for public comment

# Massachusetts Contingency Plan Process

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- MCP is a Massachusetts Department of Environmental Protection (MassDEP) program
- This is a Tier II (non-priority) site
- MassDEP delegated decision-making to Licensed Site Professionals (LSP) at Tier II sites
- MassDEP periodically audits Tier II sites

# Licensed Site Professional

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- Hold paramount the public welfare, health, safety and the environment
- Subject to a code of conduct
- Independently interpret and apply the regulations
- LSP Board issues the License

## MCP Process – 6 year timeline

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- Phase I - Tier Classification – 1 year
- Phase II – Site Assessment – 2 years
- Phase III – Remedial Action Plan – concurrent with Phase II
- Phase IV/V- Conduct Remedy-3 years
- Response Action Outcome within 6 years or sooner

# Bird Machine Company

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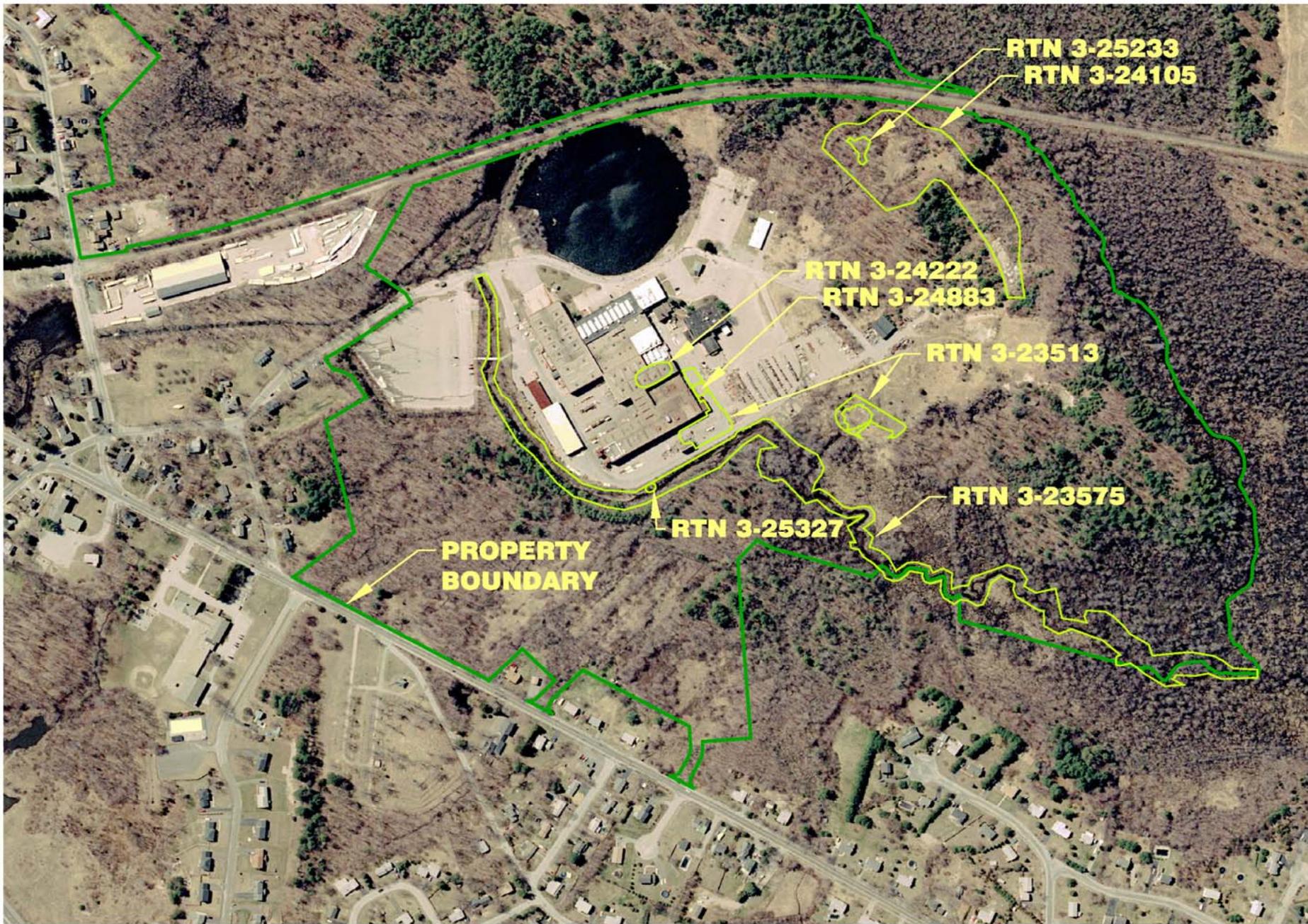
- Manufactured industrial machinery, primarily centrifuges
- Metal fabrication and machining – metals, oil, and paint
- Development lab – paper, petrochemical industry, and municipal wastewater

## Seven Active MCP Release Areas

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- Lead Release Area – RTN 3-23513
- Hydrocarbon Release to Neponset River – RTN 3-23575
- Demolition Debris Area – RTN 3-24105
- Manufacturing Building Site – RTN 3-24222
- NAPL Site – RTN 3-24883
- Western ACM Site – RTN 3-25233
- Flood-related Release of Oil to Neponset River – RTN 3-25327

RTN: Release Tracking Number



**RTN 3-25233**  
**RTN 3-24105**

**RTN 3-24222**  
**RTN 3-24883**

**RTN 3-23513**

**RTN 3-23575**

**RTN 3-25327**

**PROPERTY**  
**BOUNDARY**



**RTN 3-23513**

RTN 3-23513

## Lead Release Area

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- Lead in soil; nickel in groundwater
- Reported January 2004
- Disposal of metal cuttings, cutting oils, coolant, and paint occurred prior to mid-1970s (before Baker ownership)
- Area 1 & 2: located under two layers of pavement
- Area 3: under 1 to 2 ft of soil cover

# Lead Release Area Activities

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- Release Abatement Measure commenced in July 2005 and is on-going
  - Excavation of soil and debris
  - Air monitoring to protect public health and safety
  - Transportation & Off-site Disposal (“T&D”)
  - Confirmation sampling and Backfill
  - Re-vegetate or repave
- Area 1 & 2 removal completed in 2005
- Area 3 - 50% complete, to be finished in 2006

# Lead Release Area Status

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- 5,400 tons of excavated material was disposed of at Turnkey Landfill in Rochester NH.
- About 30 drums were disposed of at EQ Northeast, Inc. waste facility in Michigan (no liquids, solids only)
- Status Report was filed in October 2005
- The next Status Report is due in April 2006
- Comprehensive Site Assessment (Phase II) and Remedial Action Plan (Phase III) are due January 2007



RTN 3-24883

## RTN 3-24883 - NAPL Site

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- Non-Aqueous Phase Liquid (NAPL) – a viscous hydrocarbon substance
- Observed during assessment of the Lead Release Area in May 2005 - reported to MassDEP immediately
- Removal completed along with Lead Area 1
- This site will be linked with the Lead Release Area in the same location.

# *Discussion Opportunity*

*Questions & Answers*

**RTN 3-24105**



## RTN 3-24105 – Demolition Debris Area

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- Historical disposal area about 3 acres
- Soil (fill material), scrap metal, asphalt, brick, concrete, misc. building materials, 55-gallon drums
- Drums (20 to date) primarily contained metal cuttings
- Reportable Concentrations of dioxin (0.2 parts per billion) found in soil; likely source was test samples of paper/pulp
- Lead, nickel and zinc in groundwater (likely sources- paint, metal alloys)
- MassDEP notified July 2004
- Release Abatement Measure started in July 2005
- 2100 tons of material disposed at Turnkey Landfill.

## Demolition Debris Area

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- Status Report submitted in November 2005
- The next Status Report is due in May 2006
- Additional response activities for 2006
- A Comprehensive Site Assessment (Phase II) and Remedial Action Plan (Phase III) are due in July 2007

**RTN 3-25233**



## RTN 3-25233 –Western ACM Site Demolition Debris Area

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- Asbestos-containing material (ACM) was encountered in September 2005 during excavation
- MassDEP assigned a new Release Tracking Number (RTN)
- Immediate Response Action (IRA) started
- Plan later submitted in November 2005

# Western ACM Site

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- Asbestos-containing material (ACM) present in fiberglass fabric - less than 5% asbestos
- Approximately 600 tons of soil and ACM has been removed and disposed of at Turnkey Landfill in Rochester NH
- Remaining ACM presently covered with soil and/or plastic sheeting
- When removal is complete, this Site will be linked with RTN 3-24105 (Demolition Debris Area)

# *Discussion Opportunity*

*Questions & Answers*



RTN 3-24222

## RTN 3-24222 Manufacturing Building Area

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- Area is 1/4 acre within 5 acres of manufacturing buildings
- Release area applies only to soil and groundwater beneath part of Building 6A
- Cutting oil from leaking machine sumps (2)
- Reportable concentrations of oil, nickel, and lead in soil; nickel and lead in groundwater
- Release Notification – August 2004

## Manufacturing Building Area

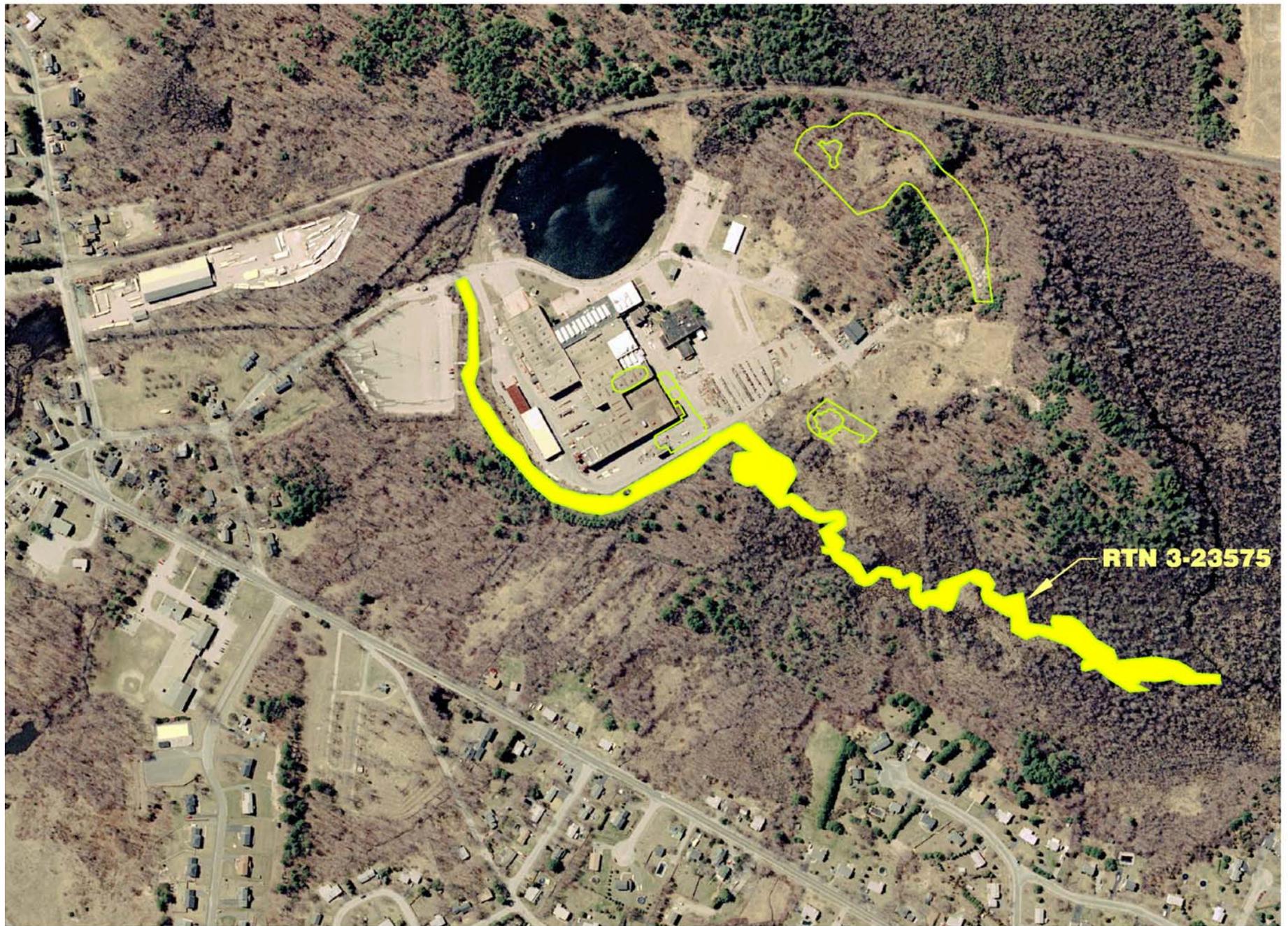
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- Release Abatement Measure is planned for winter/spring of 2006.
- Objective is to prevent release of oil from soil to a sub-floor concrete storm drain
- Release Abatement Measure Plan will be submitted
- Public comments will be addressed before commencing work

## RTN 3-23575 - Release of Hydrocarbons to the Neponset River

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- Bird employees discovered an oil stain embedded in the ice on the Neponset River, January 2004 - notification made
- MassDEP inspected in January 2004
- Immediate Response Action Plan approved by MassDEP in April 2004: required sampling and Environmental Risk Characterization



RTN 3-23575

## Neponset River Area

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- Source unknown – connection to “tailrace”
- 2004 water quality and sediment data submitted in Initial Site Investigation Report
- Surface water samples met all Surface Water Quality Criteria for metals and hydrocarbons
- Water, sediment, and fish sampling in August 2005
- Sediment bioassays performed fall 2005 and we are waiting for laboratory results

## Neponset River Area

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- Status Report submitted in December 2005
- Further work pending results of Human Health and Environmental Risk Characterization
- Immediate Response Action Completion Statement will be issued in spring of 2006
- Phase II (Comprehensive Site Assessment) and Phase III (Remedial Action Plan) to be completed by January 2007



**RTN 3-25327**

## RTN 3-25327 Flood-related Release of Oil to the Neponset River

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- Building No. 8 flooded during 50 to 100 year flood event on weekend of October 15 and 16, 2005
- Unforeseeable release of oily residue from floors and sumps in the building to Neponset River
- Discovered and reported to MassDEP on October 17, 2005
- Immediate Response Action (IRA) required by MassDEP

# Flood Release

## Immediate Response Action

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- Oil-absorbent booms deployed
- Oil on floor and pavement cleaned
- Storm drain pressure-washed
- Water and wastes disposed of at licensed off-site facilities
- Additional sump pump installed to prevent recurrence

## Flood Release Area

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- Immediate Response Action (IRA) Plan submitted to MassDEP in December 2005
- IRA Completion Statement expected in February 2006
- This area will be linked with RTN 3-23575 (Release of Hydrocarbons to the Neponset River).

# *Discussion Opportunity*

*Questions & Answers*

# Summary of Active Sites

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- After site linking is done, there will be four active sites:
  - Lead Release Area – RTN 3-23513
  - Demolition Debris Area – RTN 3-24105
  - Neponset River – RTN 3-23575
  - Manufacturing Building – RTN 3-24222

## Activities in 2006

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- Manufacturing Building - Release Abatement Measure
- Neponset River – Immediate Response Action Completion Report (including Environmental Risk Characterization)
- Demolition Debris Area/Western ACM – maintenance of erosion controls, and additional excavation as weather allows
- Lead Release Area – maintenance of erosion controls, and off-site transportation and disposal of soil

# Recap

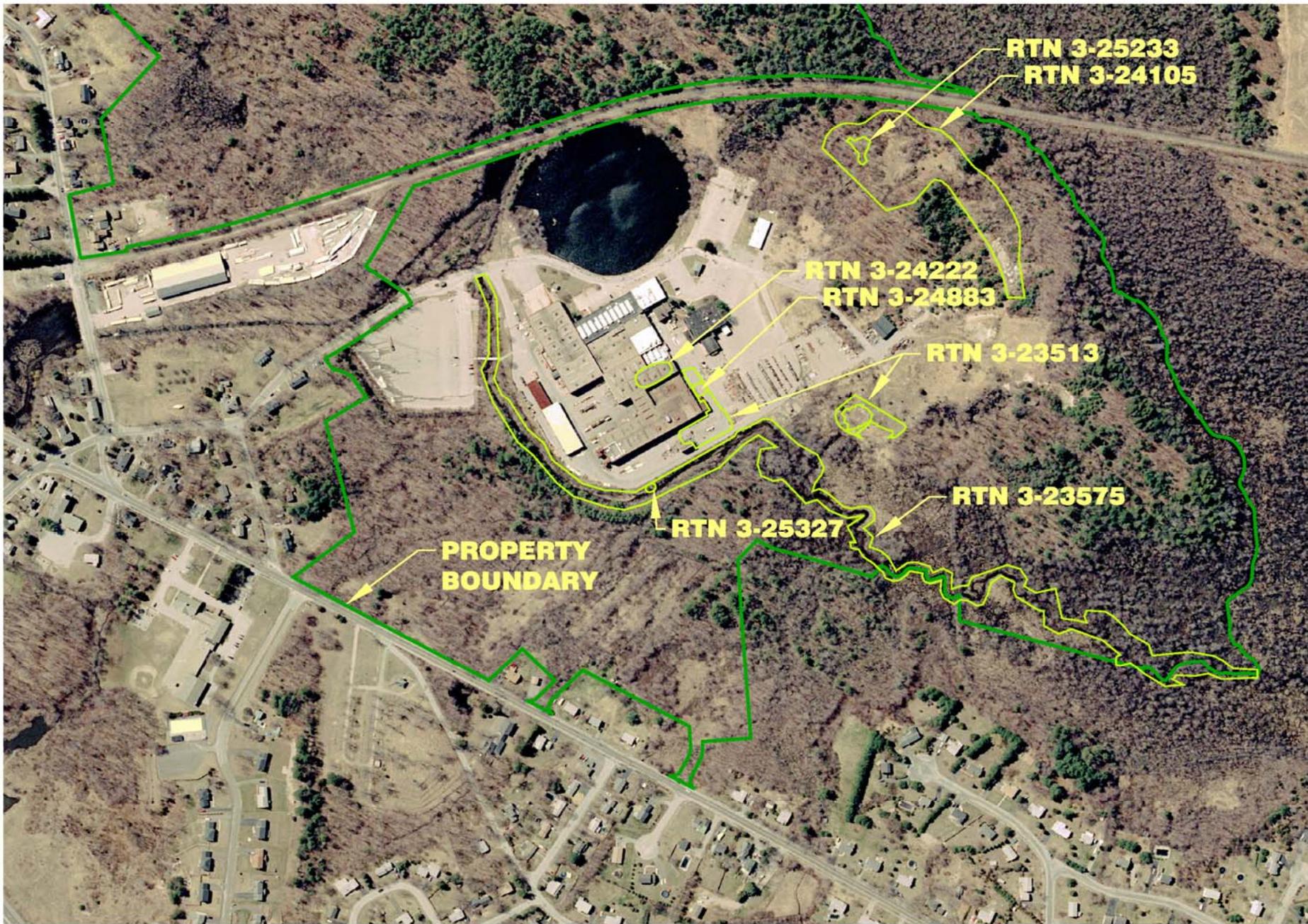
## Public Involvement Plan Schedule

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- Comment period on Plan ends January 25, 2006
- Final Plan will be available February 24, 2006
- Repository will be updated frequently
- Next PIP status meeting proposed for late July 2006 – time and place to be announced

*Conclusion*  
*Discussion Opportunity*

*Questions & Answers*



**RTN 3-25233**  
**RTN 3-24105**

**RTN 3-24222**  
**RTN 3-24883**

**RTN 3-23513**

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