

# Public Involvement Plan Meeting Former Raytheon Facility Wayland, MA

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Large Meeting Room  
Wayland Town Hall  
Wayland, MA

September 28, 2000

# Meeting Agenda

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- Introduction
- Presentation of Site Conditions
- Question Period
  - Important to identify speakers (name and address)
  - Comments need to be documented
- Accept additional names for public mailings



# Introduction

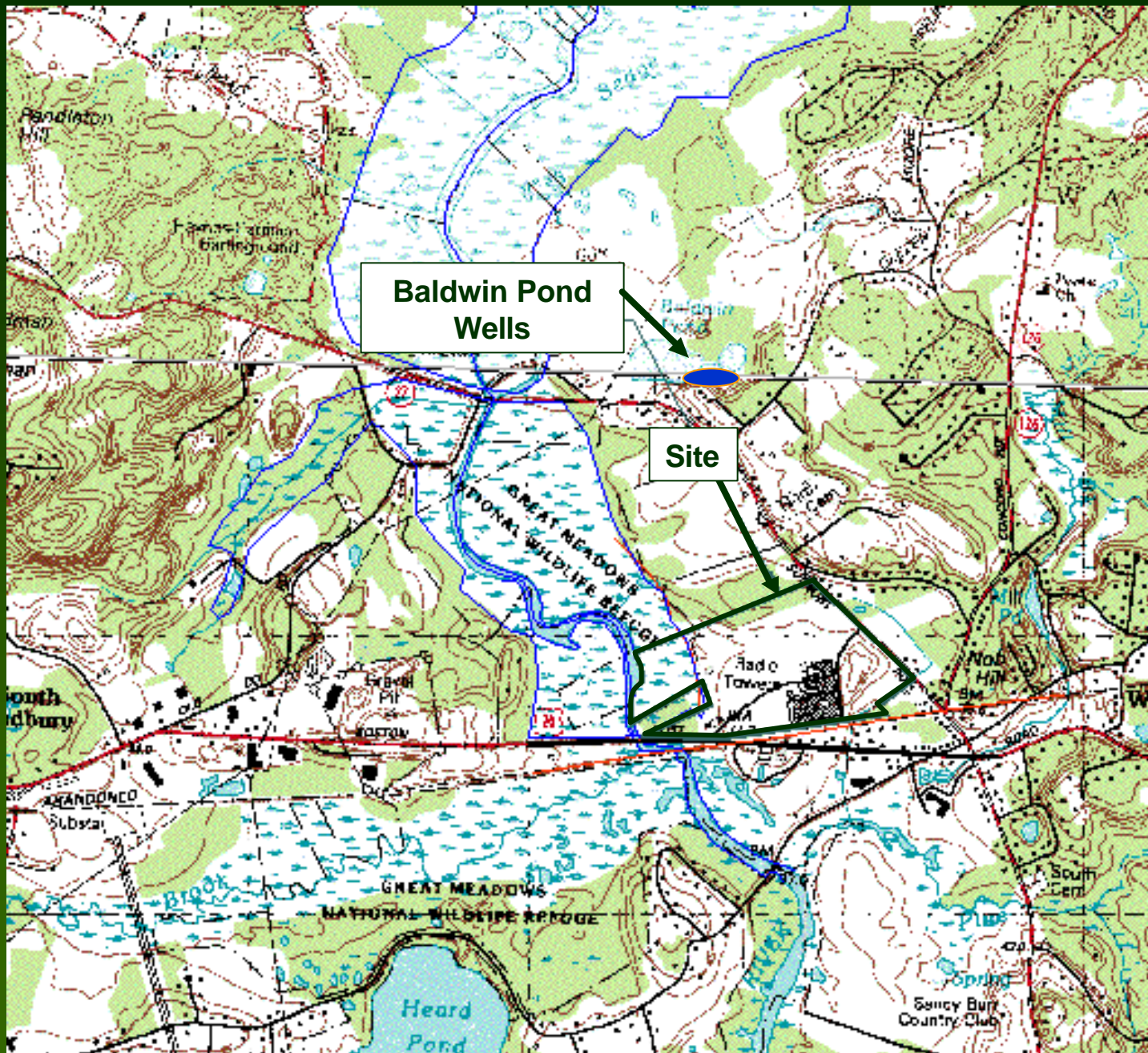


# Presentation of Site Conditions

# Land-Use History

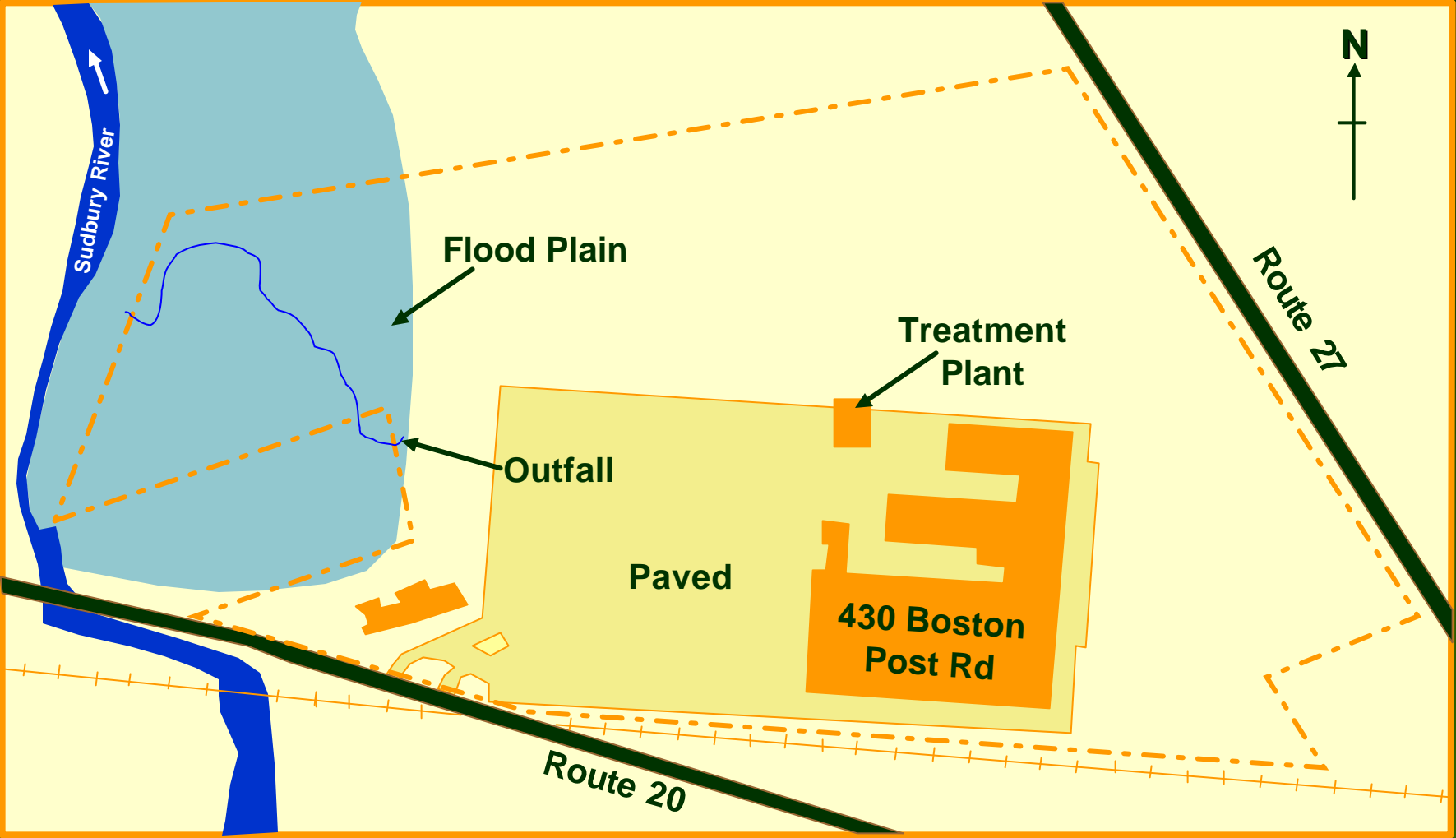
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- Size of land 83 acres
- 1955 - Previously undeveloped land
- 1955-97 - Raytheon leased property (never owned)
- 1957-95 - Raytheon operations
- Property located in Water Supply Protection Zone II
- Wetlands located on property
  - Adjacent to Sudbury River
  - Contiguous with Great Meadows NWR
  - Outfall





# Site Plan





# Raytheon Operations History

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- Research and development facility for defense electronics
- Radar development and testing
  - Test radars on roof
  - Targets on towers
- Prototype electronic equipment
  - Antennae and transmitters
  - Design and test of manufacturing processes
- Retrofit of defense electronic field equipment

# Site/Regulatory History

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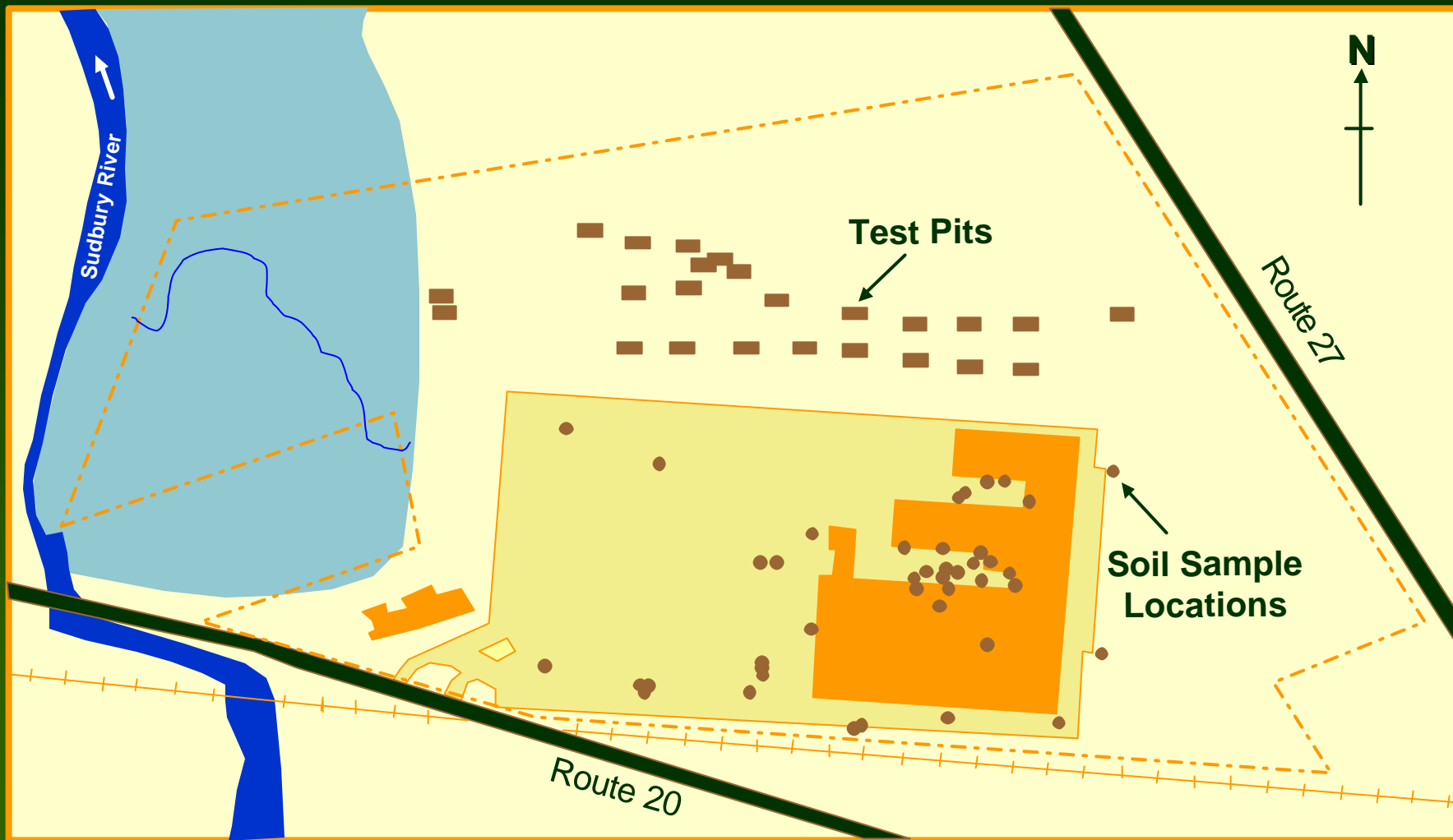
- 1995-96 - Site closure activities
  - RTN # 1783 CERCLIS review 1987 (C)
  - RTN # ERBn92-1340 UST Removal 1992 (C)
- May 1995 - Initiated a Phase I Investigation
  - Identified several areas of concern
    - RTN # 3-13302 Fuel Oil Release 1996 (C)
    - RTN # 3-13574 VOCs in groundwater 1996
    - RTN # 3-14042 PCBs in Soil 1996
- May 1996 - Phase I submitted to MADEP
- 1997 - MCP Tier 1B Classification
- Several remedial actions to date

# Investigation in Process

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- Investigative activities included samples of soil groundwater, sediments, surface water; and aquifer testing
- Soil evaluation and removal actions
  - 67 samples analyzed for metals, VOCs, PAHs, and PCBs
  - 24 test pits completed in northern portion
  - 4 Limited Removal Actions (“LRAs”) performed
  - Two Release Abatement Measures (“RAMs”) performed
    - tank removal and Activity and Use Limitation (“AUL”) by new owner, Wayland Business Center (“WBC”)
    - soil removal for RTN # 3-14042
  - Soil concentrations are below MCP standards with exception of the restricted areas (WBC AUL)

# Soil Sampling Plan



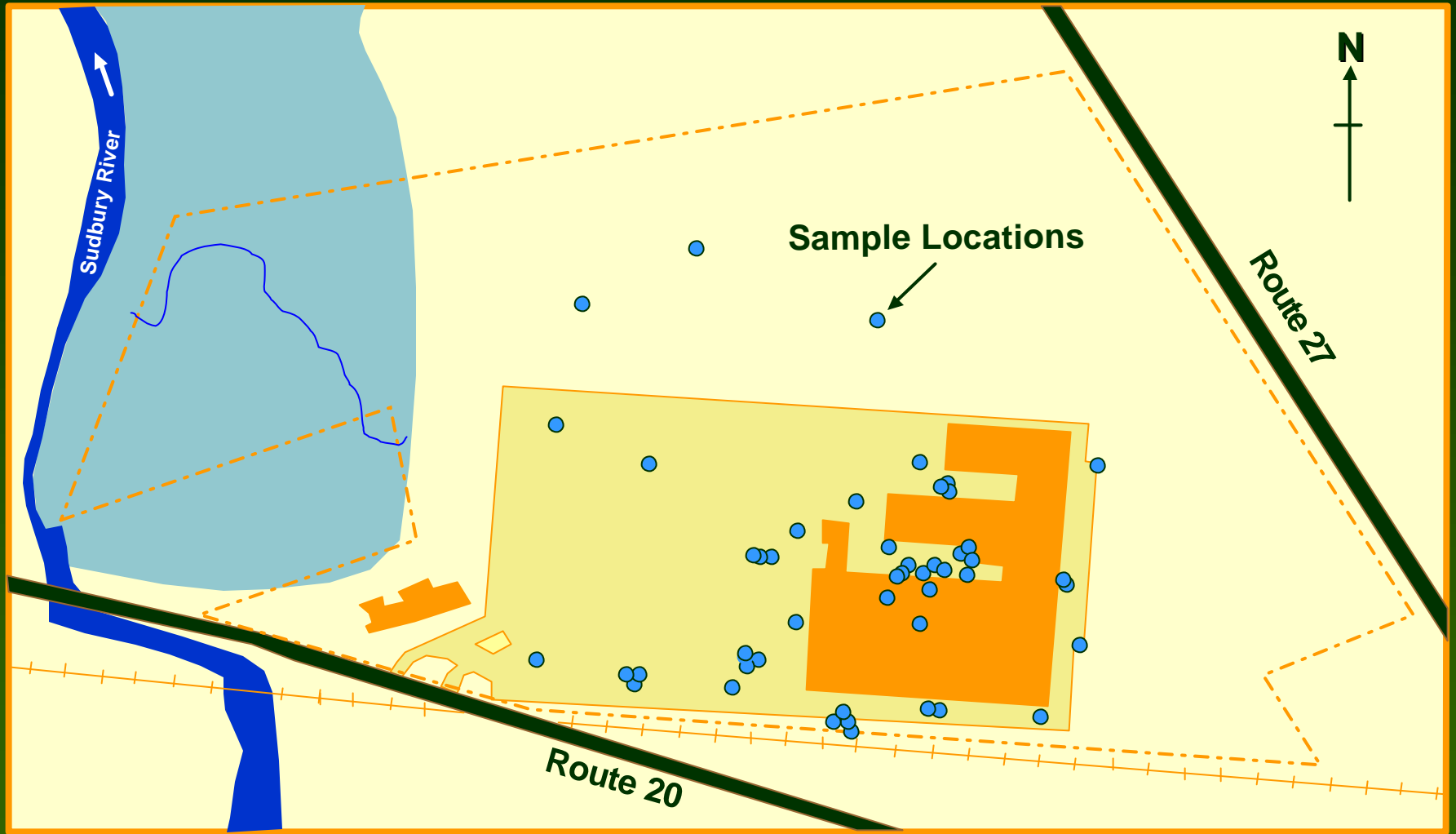
# Investigation in Process

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## ■ Groundwater evaluation

- Site located in Zone II for Baldwin Pond Wells (1/2 mile)
- 58 GW wells installed to date (shallow, intermediate, deep and bedrock wells)
- Iterative process, 5 phases of drilling
- > 100 analyses of samples since 1996
- Analyzed for VOCs, metals, TPH and inorganic compounds
- VOCs exceed applicable MCP guidelines
- Groundwater remediation will be required

# Groundwater Sampling Plan



# Investigation in Process

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## ■ Sediment evaluation

- 1986-91 U.S. Fish & Wildlife (“USFW”) sampling of Great Meadows National Wildlife Refuge
  - mercury, arsenic, lead, cadmium, chromium, copper and PCBs detected
- 1990 Raytheon identified improperly connected plumbing
  - collected sediment and surface water samples near outfall
  - detected metals and PAHs
  - non-detect for butyl cellusolve, PCBs and pesticides
  - closed under prior regulations
- 1995 - additional sediment samples collected, could not duplicate USFW data
- 1995 - Response Action Outcome (“RAO”) filed for 1990 release

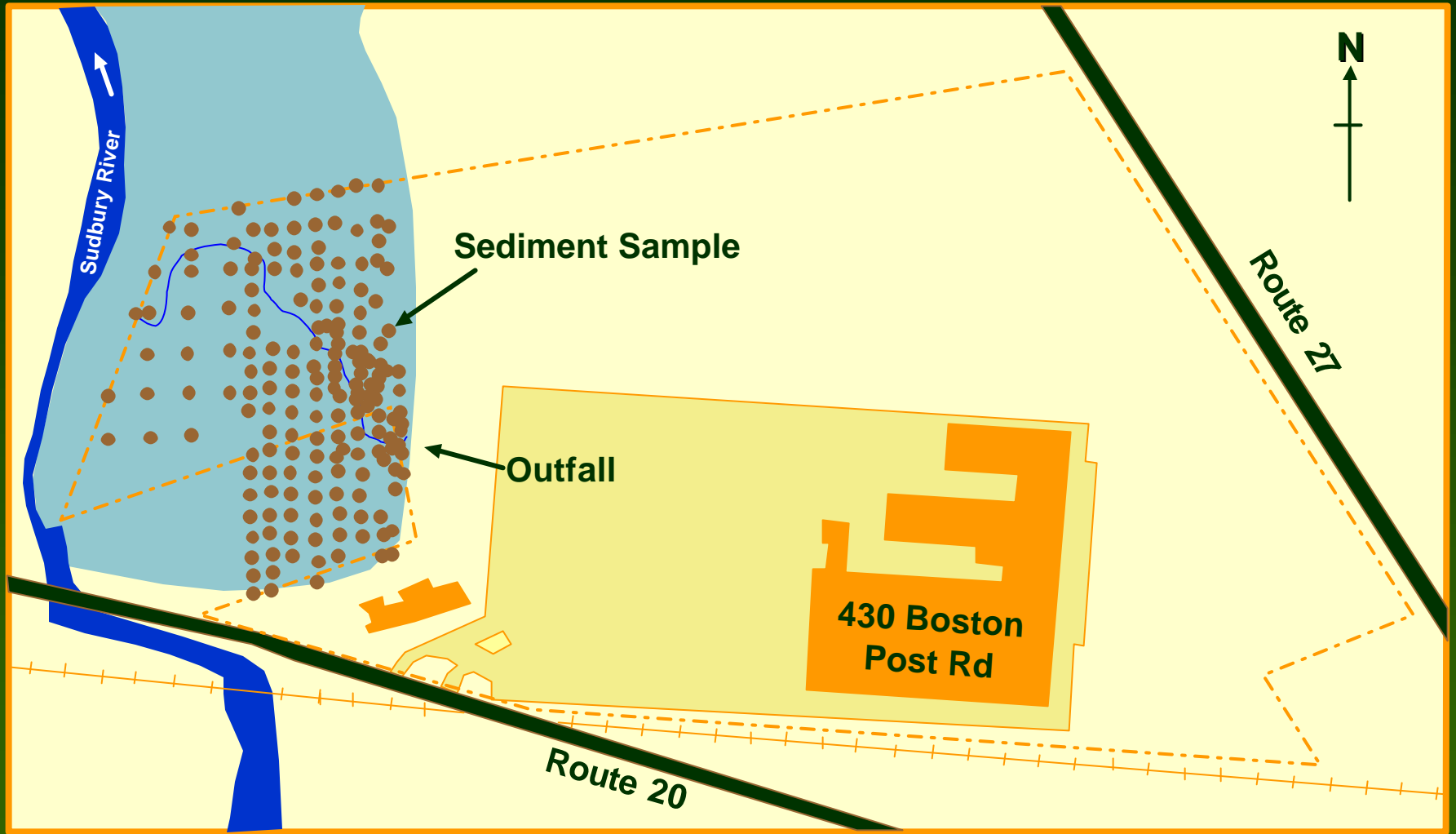
# Investigation in Process

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- Sediment evaluation (con't)
  - Phase II evaluation indicated need for additional sediment sampling
    - late 1998 detected metals, petroleum, and PCBs near outfall
    - retained wetland and ecological specialists
    - 1999 completed 2 additional sampling rounds
    - January 2000 - specialists identified vegetation with stunted growth (historic)



# Sediment Sampling Plan



# Regulatory Implication

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- 310 CMR 40.0955 Imminent Hazard Risk  
Characterization *“The following conditions shall constitute an Imminent Hazard to the environment; a) evidence of stressed biota attributed to the disposal site”*
  - Area of stunted vegetation coincides with contaminants
  - April 26, 2000 Raytheon verbally notified MADEP
  - May 4, 2000 MADEP site inspection
  - May 10, 2000 NOR issued (RTN # 3-19482) Wetland
  - May 25, 2000 Tier IA Permit Application submitted to MADEP
  - June 26, 2000 Imminent Hazard Evaluation, IRA plan
  - August 23, 2000 Public Involvement Plan
  - September 7, 2000 MADEP response (Tier 1B appropriate)

# Public Involvement Plan (“PIP”)

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- Citizens can become formally involved in the planning of response actions by submitting a petition
- Purpose of PIP is to:
  - Provide public with site information and an opportunity for comment to draft documents
- June 24, 2000, received a petition for the PIP
- June 28, 2000, delivered a presentation to the Town
- August 22, 2000, completed the PIP interview with the Town Officials
- August 23, 2000, the Draft PIP was submitted to the PIP members

# Public Involvement Plan

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- 20-day public comment period following this meeting
- Written response is due to Raytheon before October 13, 2000
- A summary of the comments received and a response to those comments will be prepared
- Documents will be made available at the information repositories (Public Library and Board of Health)
- Notice of availability of the documents will be sent to the PIP mailing list

# Public Involvement Process

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- Future opportunities for the public to comment on submittals:
  - Phase II Comprehensive Site Assessment
  - Phase III Remedial Action Plan
  - Phase IV Remedy Implementation Plan
  - IRA and RAM Plans
  - RAOs (including AULs)

# Future Actions

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- Finalize Notice of Proposed Permit Decision received from MADEP (comments due to MADEP 10/4/00)
- Finalize PIP
- Complete Phase II & Phase III Site Investigations
  - additional sediment, surface water and biota sampling and analyses may be needed
  - biota survey
  - human and ecological risk assessments
  - evaluate remedial alternatives
- Schedule dependent on MADEP, EPA and PIP reviews
- Perform remedial actions



# Question Period



Accept Additional Names for  
Public Mailings