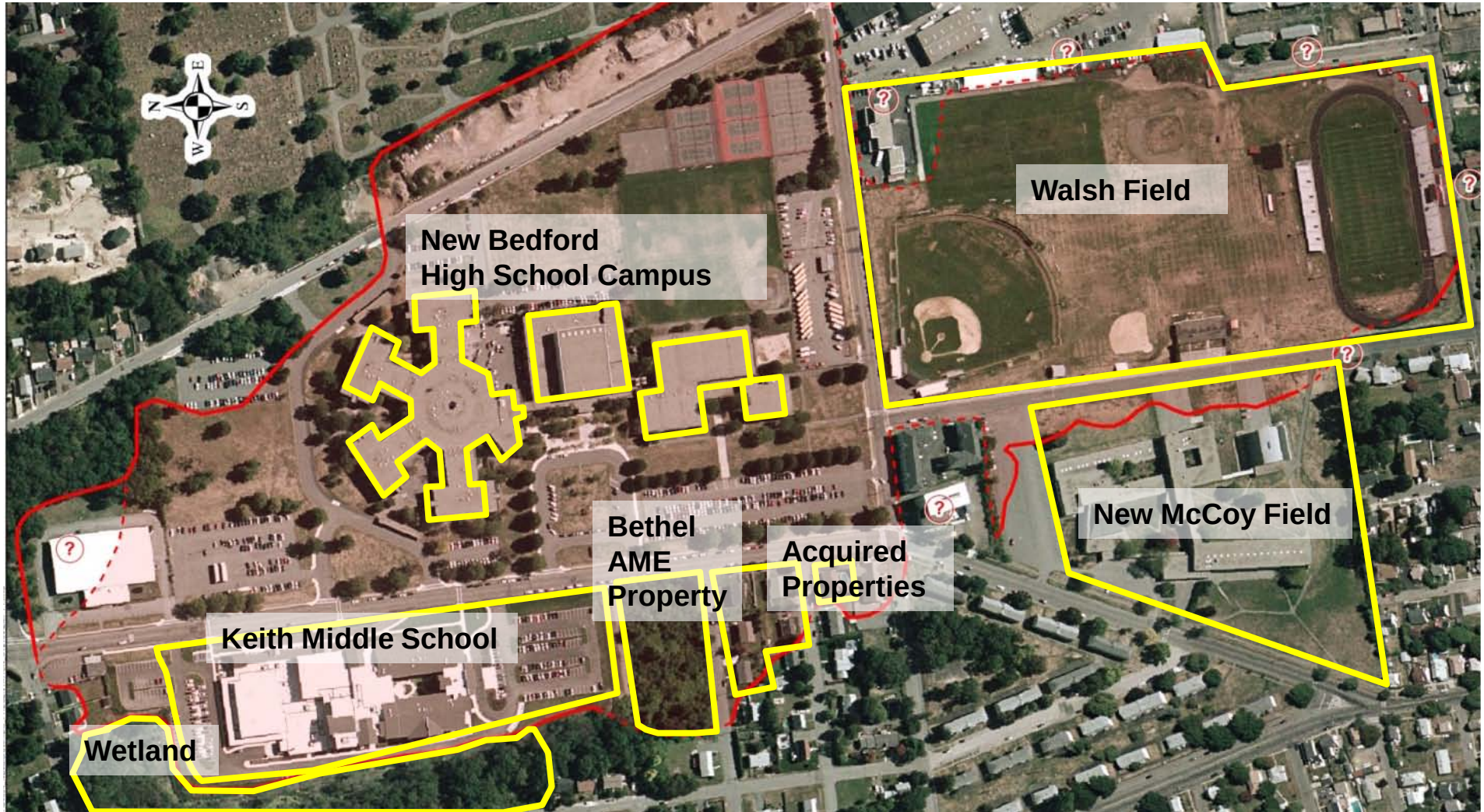
Parker Street Waste Site
Public Information Plan (PIP) Meeting

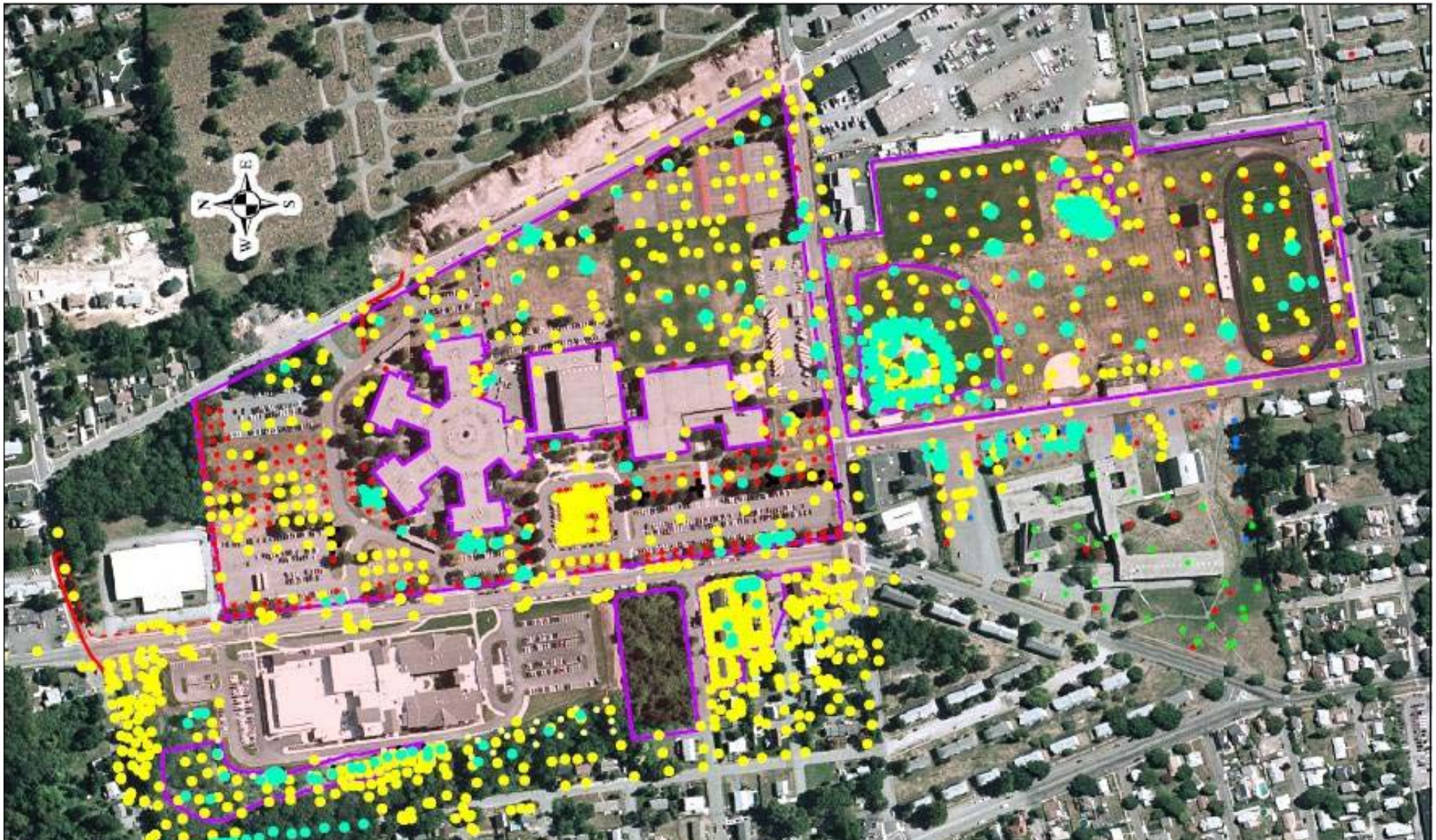
Tuesday – August 18, 2009



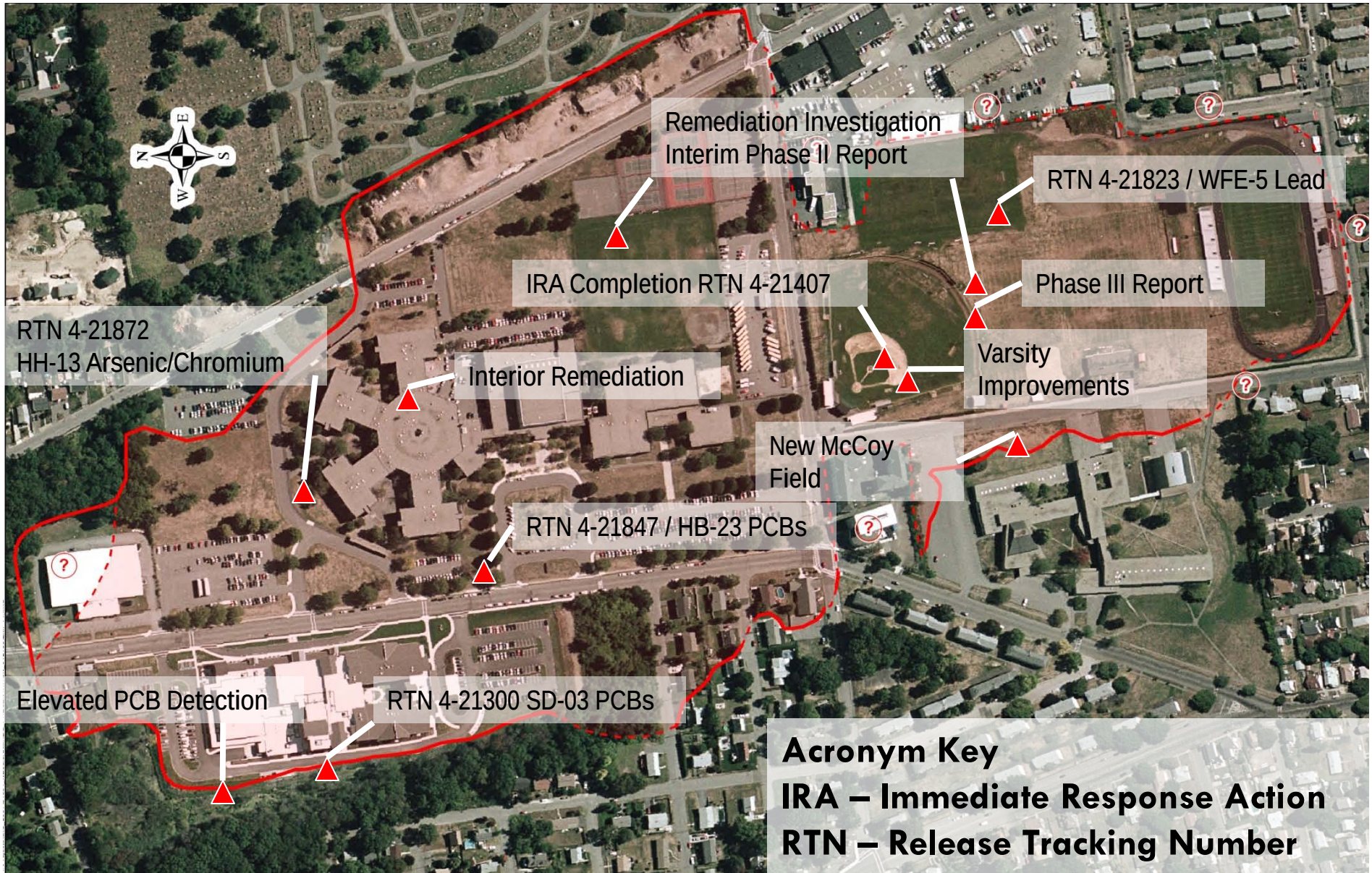
Summary Site Overview

Sample/Boring Coverage – Site Wide

Up to January 2009 (yellow), Feb 2009 – present (aqua)

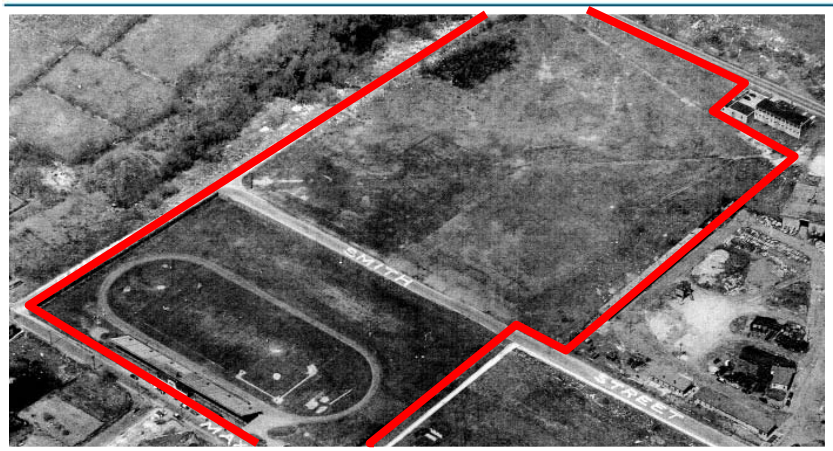


New Development Locations



New Developments

Interim Phase II Comprehensive Site Assessment Report Walsh Walsh Field/NBHS Campus



- Focused Phase II
  - Submitted July 21, 2009
  - Integrated TRC/BETA database (>2000 samples)
  - 8 monitoring wells
  - Method 2 risk assessment (8 new standards)
  - No current risk
- Supports Phase III Remedy Analysis
  - Walsh Interim Phase III submitted July 29, 2009
  - NBHS Interim Phase III to follow conceptual design process

New Developments/Walsh Field

Varsity/JV Fields

Varsity – Summer 2008

- Background
  - Imminent Hazard (IH) condition
  - Immediate Response Action (IRA)
  - RTN 4-21407
- Action Taken
  - Soil disposal completed 3/12-13/09
  - Soil accepted at Crapo Hill
  - Additional delineation
- Follow-up Actions
  - Incorporate into comprehensive remedy
  - Soil remediation planning in process

New Developments/Walsh Field

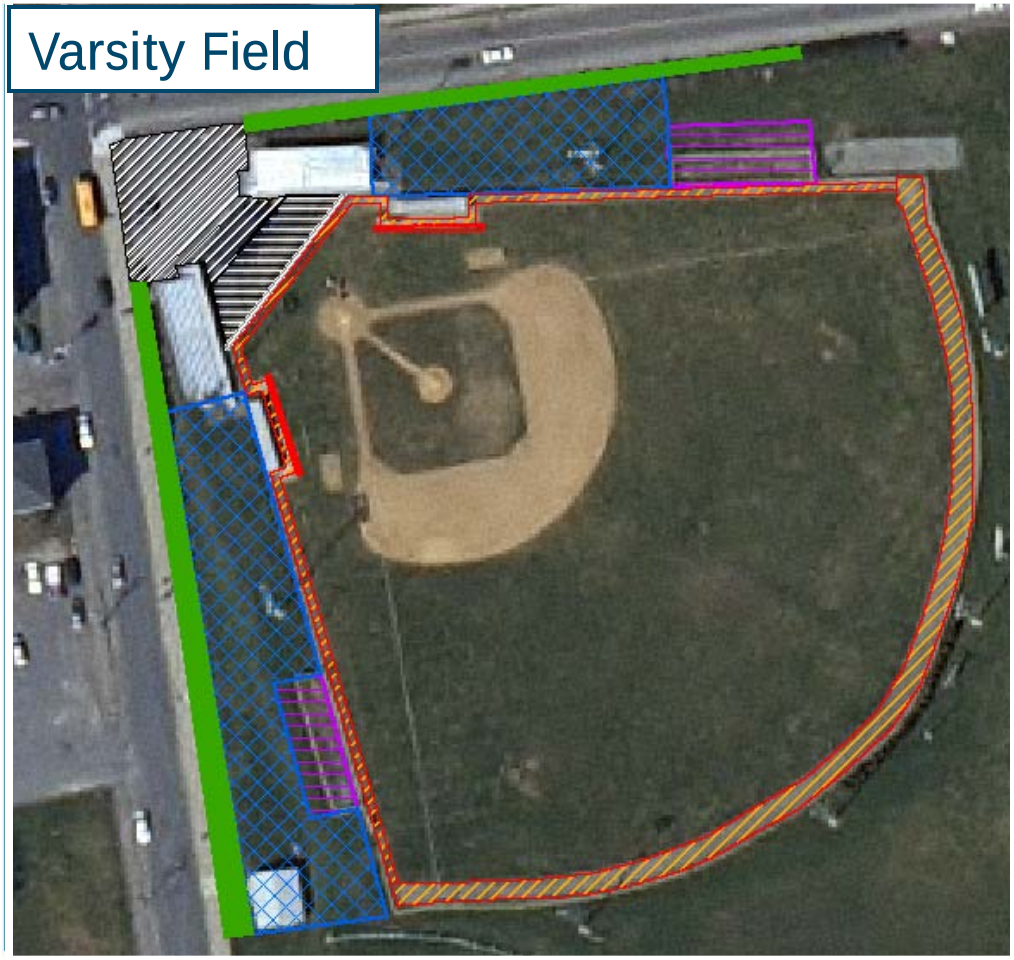
WFE-5 (Soccer Field Area) Immediate Response Action

WFE-5 - March 2009

- Background
  - IH condition - lead 3,360 mg/kg in top foot
  - Reported to MassDEP - 3/4/09
  - Release Tracking Number (RTN) 4-21823
- Actions Taken
  - Oral approval to excavate - 3/11/09
  - Excavation conducted - 3/13/09
  - Approximately 41 cu. yds.
  - Soils mixed with phosphate stabilizer.
  - Shipped to Crapo Hill - 7/20/2009
- Follow-up
  - Completion Report submitted – 8/18/2009

New Developments – Summary

Walsh Field – Varsity Improvements

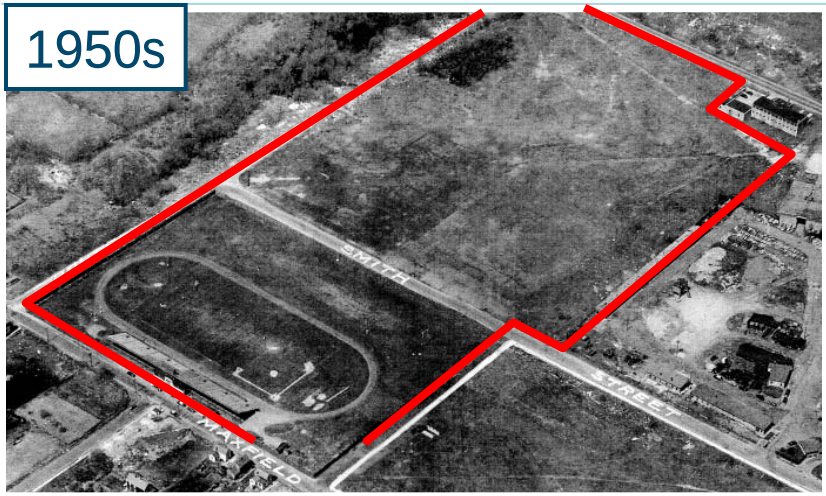


- Background
  - Field rehabilitation
  - Accommodate new baseball league
- Action Taken
  - RAM Plan prepared and submitted
  - Pre-characterization
  - Soil management plan
- Follow-up
  - Management of displaced soil
  - Filing of RAM Status Report

Walsh Field – Interim Phase III Remedial Alternatives Report

Recommended Remedial Approach

1950s



Present

- What does the Phase III do?
  - Presents results of initial screening of remedial alternatives.
  - Presents a detailed evaluation of the remedial action alternatives considered reasonable feasible.
  - Presents justification for the selected remedial action alternative.
  - Evaluates the feasibility of implementing the selected remedial action alternative.

Walsh Field – Interim Phase III

Supplemental Information

- Technologies screened
  - Institutional controls
  - Reclamation/recovery
  - Removal/excavation and off-site disposal
  - Solidification/stabilization
  - Containment
- Technologies deemed potentially applicable
  - Removal/off-site disposal
  - Removal/treatment off-site disposal
  - Containment/cover material
  - Institutional controls
- Selected approach
  - Combination of above
  - Achieves No Significant Risk (NSR)

Walsh Field

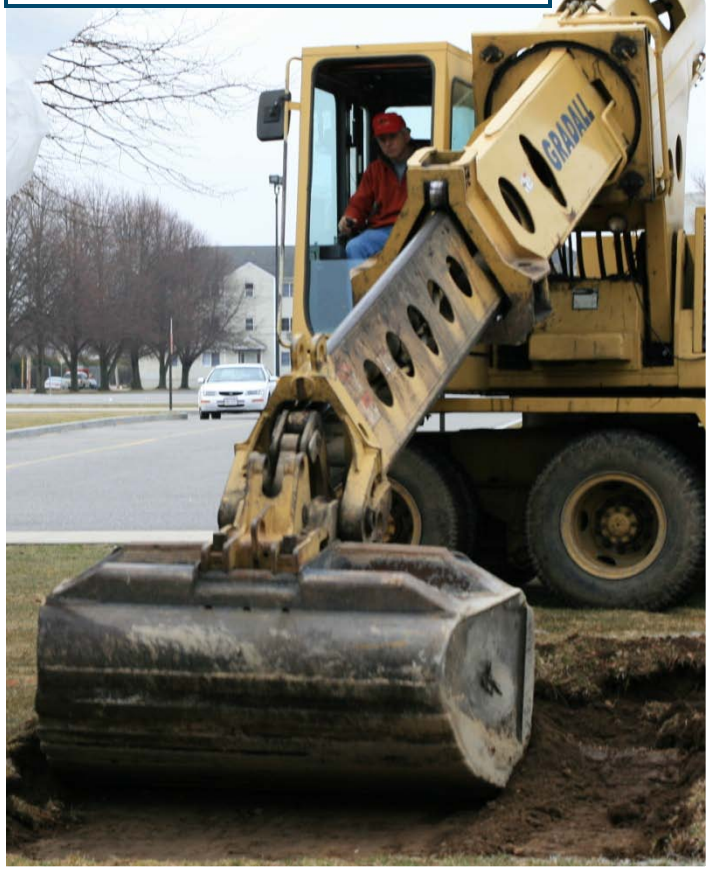
Anticipated Remediation Schedule for 2009

Action	Date/Time Frame
❑ Submit Release Abatement Measure Plan	❑ August 2009
❑ Initiate soil removal	❑ September 2009
❑ Prepare partial RAO	❑ Winter 2009/2010

New Developments/NBHS Campus

HB-23 Immediate Response Action

HB-23 – March 2009



- Background
  - IH condition – PCB >10 mg/kg
  - Reported to MassDEP - 3/19/09
  - RTN 4-21847
- Action Taken
  - Oral approval to excavate - 3/25/09
  - Excavation conducted - 3/28/09
  - Approximately 63 cu.yds.
  - Shipped under manifest to Model City, NY - 6/25/09
  - IRA Completion Report – 7/16/09
- Follow-up
  - Close-out with partial Response Action Outcome for NBHS

New Developments/NBHS Campus

HH-13 (House Area) – Immediate Response Action

HH-13 – April 2009

- Background
  - "Could pose" IH – arsenic = 40 mg/kg / chromium >200mg/kg
  - Reported to MassDEP 4/2/09
  - RTN 4-21872
- Action Taken
  - Further assessment
  - No IH condition present
  - Evaluated chromium valence state (found to be less toxic trivalent).
  - IRA Completion Report – 6/2/09
- Follow-up
  - Close-out with NBHS partial RAO.

High School – HH-13 (House Area)

Supplemental Information

- Evaluation Methodology
  - MassDEP guidance
    - IH Short Form calculation
    - Park user scenario
    - Chromium maximum concentration
    - Arsenic, barium, lead = averages
    - Total PCBs = average
    - PAHs = background
- Key Assumptions
  - Young child (1 to 6 years)
  - 24 week exposure (spring/fall)
  - 1 hour/day, 5 days/week
  - Inhalation, ingestion, dermal
  - Calculated both hex and tri chrome
  - Construction worker dust levels
- Analysis
  - Thresholds
    - Hazard Index > 10
    - Cancer risk > $1x10^{-5}$
- Outcome
  - Trivalent assumption – No IH present
    - Hazard Index = 1
    - Cancer risk = $3x10^{-6}$
  - Hexavalent assumption – No IH present
    - Hazard Index = 2
    - Cancer risk = $6x10^{-6}$
- Supporting Data
  - Chemical speciation show trivalent chromium is predominant.
  - ***All calculations presented in report.***

NBHS Campus

Anticipated Remediation Schedule for 2009/2010

Action	Date/Time Frame
90-percent design	Winter 2009
100-percent design	Winter/Early Spring 2010
Implementation	Summer 2010

NBHS Interior

Anticipated Remediation Schedule for 2009

Action	Date/Time Frame
❑ Plans/specs	❑ Completed
❑ Contract Award	❑ In Process
❑ Implementation	❑ August 2009

NBHS Interior

Path Forward

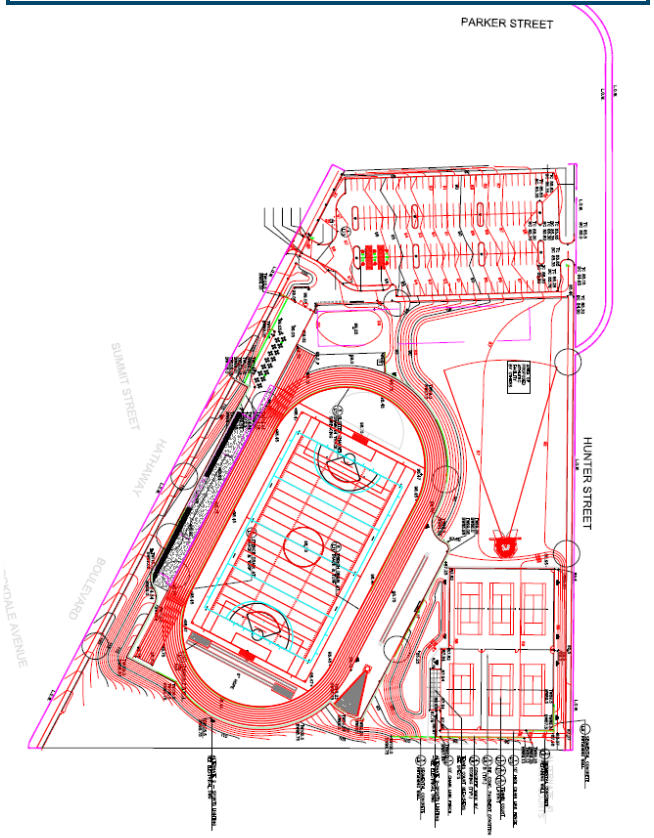
- Schedule further abatement per EPA regulation (PCB Bulk Product wastes, PCB Remediation wastes)
- Collect data to support remedial planning
- Continue Maintenance Measures
  - Incrementally reduce PCB exposures over time
  - Excluded PCB Products

New Developments – Summary

New Andre McCoy Field

Redevelopment of Former Keith Junior High School

New Andre McCoy Field



- Background
  - Athletic facility redevelopment
- Action Taken
  - Release Abatement Measure (RAM) Plan prepared and submitted
  - Pre-characterization conducted
  - Soil management and risk-reduction planning
  - Contaminated soil removal/risk reduction
  - "Like-Site" uncontaminated soil management
  - Submitted RAM Status Report August 11, 2009
- Follow-up
  - Filing of partial RAO this summer/fall

New Andre McCoy Field

Supplemental Information

- Contaminated soil removal
  - Soil removed from five areas identified in RAM plan.
  - Four lead, one petroleum
  - MCP Bill of Lading
- Soil receiving facilities
  - Greenwood St. Landfill (1, 2, 5)
    - Worcester, Massachusetts
  - Northbridge Landfill (3, 4)
    - Springfield, Massachusetts
- Removed soil quantities
  - Areas 1, 2, and 5 = 1,242 tons
  - Areas 3 and 4 = 625 tons
  - Area 4 = 416 tons
  - Total tonnage = 2,283

Keith Middle School

Long-Term Monitoring and Maintenance Implementation Plan (LTMMIP)

KMS Front Entrance (View South)

- LTMMIP Activities
  - Cap inspection
  - Wetland inspection
  - Groundwater sampling
  - Air monitoring
  - Personnel Training

New Developments

KMS Wetland – SD-03/New Area to North

SD-03 - March 2009

- Background
  - IH condition – Elevated PCBs
  - Reported to MassDEP 6/9/08
  - RTN 4-21300
- Action Taken
  - Further assessment
  - Fencing evaluation/bidding
  - Ecological risk analysis (in process)
  - Delineation of “new” elevated PCBs
- Follow-up
  - Fencing installation (soon to award)
  - EPA requested sampling (completed)
  - Remedy design (on-going)

Public Involvement Approach

-Update-

Public Involvement

- Minimum of Quarterly Public Meetings
- Periodic Milestone Meetings
- Massachusetts Contingency Plan Requirements
- On-line Posting of Data and Project Documents
- Weekly Updates of Planned Field Activities in the Newspaper (also posted on City website)
- *Newsletters/Fact Sheets*

Thank You for Your Time and Attention

Questions are Welcome