



Parker Street Waste Site Public Information Plan (PIP) Meeting

Wednesday – January 19, 2011

Agenda

Updates/new developments/future activities

- Public involvement
- Walsh, NBHS, Acquired Residential Properties, New McCoy Field, Nemasket Street Lots, Keith Middle School.

Community Questions

Public Involvement

Public Involvement

- Periodic Milestone Meetings for the community
- Targeted meetings for interest groups (e.g., teachers)
- Massachusetts Contingency Plan Requirements
- On-line Posting of Data and Project Documents – City’s PSWS website
- Weekly Updates of Planned Activities – Newspaper/City website
- E-mail updates of new postings.
- Fact sheets (hard copy and website).
- Meeting announcement flyers for KMS/NBHS students/staff.
- I-Alert System for meeting announcements
- 20-day public comment periods for remedial work plans
 - Includes Immediate Response Action (IRA) and Release Abatement Measure (RAM)Plans

Public Engagement/Points of Contact

- ❑ City website

<http://www.newbedford-ma.gov/McCoy/sitemap/sitemap.html>

- ❑ Contact **Cheryl Henlin** to be added to the e-mail and/or mailing list for information regarding the Parker Street Waste Site at **(508) 961-4576** or **PSWS@newbedford-ma.gov**

- ❑ **Acquired parcels maintenance** – Contact the **Department of Public Facilities** at **(508) 979 -1524**.

Reminder: Reports, presentations, data availability, etc. Just click on the interactive map...



City LSP Role

LSP Responsibilities

- ❑ **310 CMR 40.0191 Accurate and Complete Record Keeping** *“No person shall make, or cause any person to make, any false, inaccurate, incomplete or misleading statement in any document which that person keeps or is required to keep pursuant to M.G.L. c. 21E, 310 CMR 40.0000”*
- ❑ **Disclosure of Material Facts (310 CMR 40.0015)** *“identify in the LSP Opinion the material facts, data and other information known ... about the disposal site that is pertinent to the LSP Opinion”*
- ❑ **Certification of Submittals (310 CMR 40.0009)** *“...attest under the pains and penalties of perjury ...the material information contained in this submittal is... true, accurate and complete...”*

Walsh Field

Walsh Field Remediation

Soil Excavation and Landfill Re-use

☐ Risk summary

- *It continues to be safe to use the athletic fields.*
- Risk assessment based on hundreds of soil samples.

☐ Actions Taken in Fall 2010

- Varsity Field soil removal completed.
- Field restoration completed.

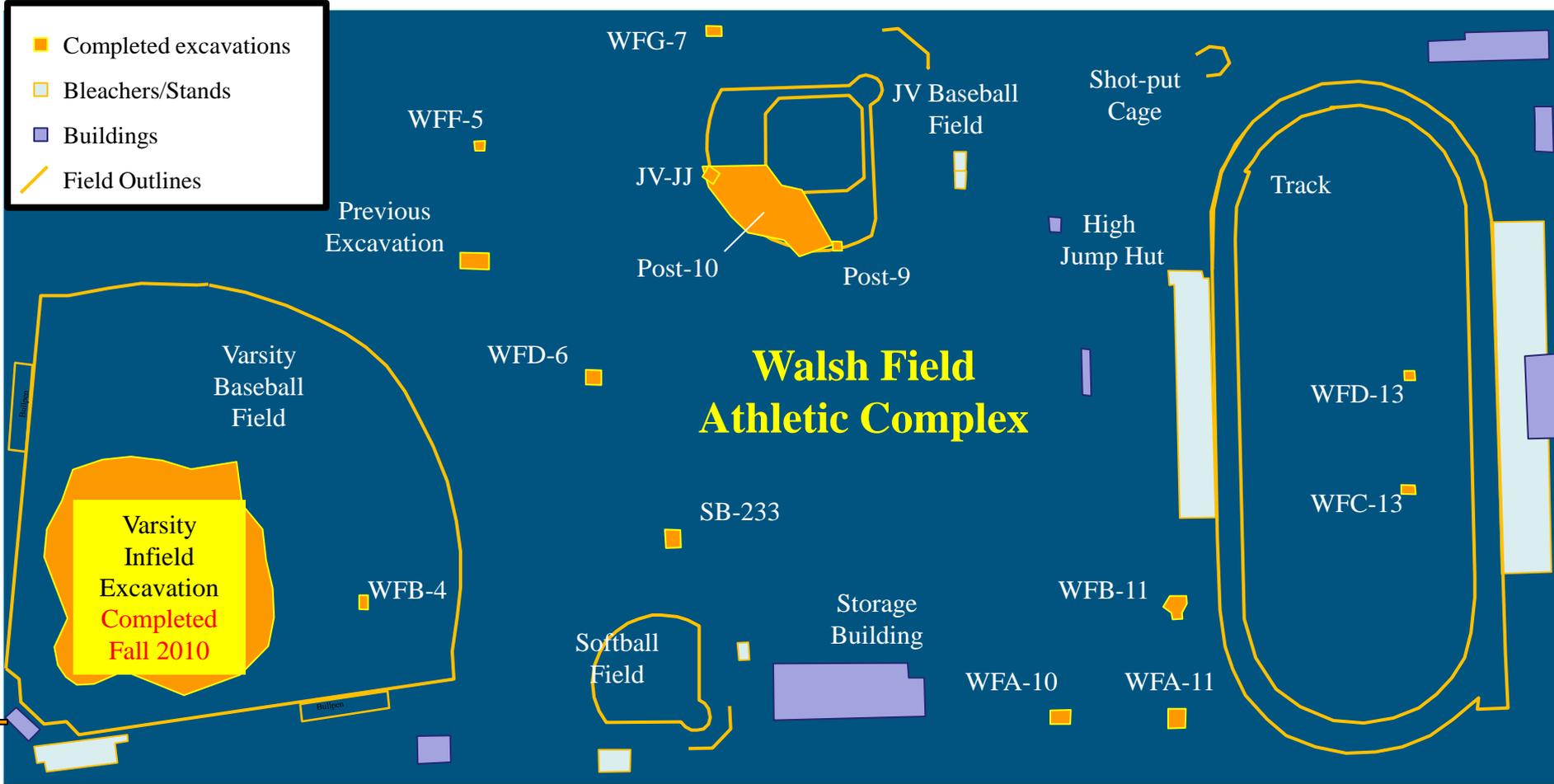
☐ Remaining activities

- Seeding of construction access roads this spring.
- Varsity improvements RAM completion.
- Response Action Outcome Report

☐ Closure report

- Due to MassDEP by 3/25/2011
- Risk assessment
- Activity and use limitation

Excavation Locations at the Walsh Field Athletic Complex



Water Line
Excavation

New Bedford High School

September 2010 through January 2011

Activities

NBHS Fluorescent Light Ballasts Inspection Summary

- ❑ PCB ballast were previously used in fluorescent lights
- ❑ Energy-related ballast replacement in 2005/2006
 - Replacements focused on classrooms.
 - Continued use of non-leaking ballasts is O.K. per EPA regulations.
- ❑ Inventory completed Fall 2010
 - Inspected fixtures throughout the building.
 - Identified remaining old ballast units.
 - Consultation and site visit with EPA.
- ❑ Newly issued guidance by EPA on 12/28/2010
 - City is in compliance with the new guidance.

NBHS Fluorescent Light Ballasts

Inspection Summary (continued)

□ Summary of findings

- Total number of fixtures – 7,679
- Number of impacted fixtures – 2,932
- Impacts observed in every block at varying frequencies.



NBHS Indoor Air Monitoring for PCBs

Recent Sampling/Planning for Future Round

Recent sample collection

- Daycare (A-227-4), collected in duplicate (August 25, 2010).
- ***All results below EPA's action limit and risk threshold***
- See memorandum dated January 10, 2011 on website:
[NBHS → Indoor Studies → Air Handling System Cleaning and Indoor Air Monitoring for PCBs → Day care room PCB Indoor Air Sampling Results](#)

Next round of PCB indoor air monitoring

- February 2011

Volatile Organic Compound (VOC) Investigation

August/September 2010 Data/Results

☐ Samples from groundwater monitoring wells

- Separate phase droplets noted in one Mechanical Room well.
- No VOCs above standards in fifteen of seventeen wells sampled in September 2010
 - No significant risk to building occupants.
- Results of sampling provided in the November 2010 Immediate Response Action (IRA) Status Report
 - Posted on the City's website

Volatile Organic Compound (VOC) Investigation

Supplemental Data Collection – October 2010 through January 2011

Additional groundwater monitoring wells

- Five wells installed between October and November 2010.
- Sampling indicates limited horizontal and vertical extent of VOC impacts.
- IRA Status Report submitted to MassDEP on November 29, 2010.
 - Posted on the City's website
- One 4-inch well installed in Mechanical Room for further response actions (December 2010).

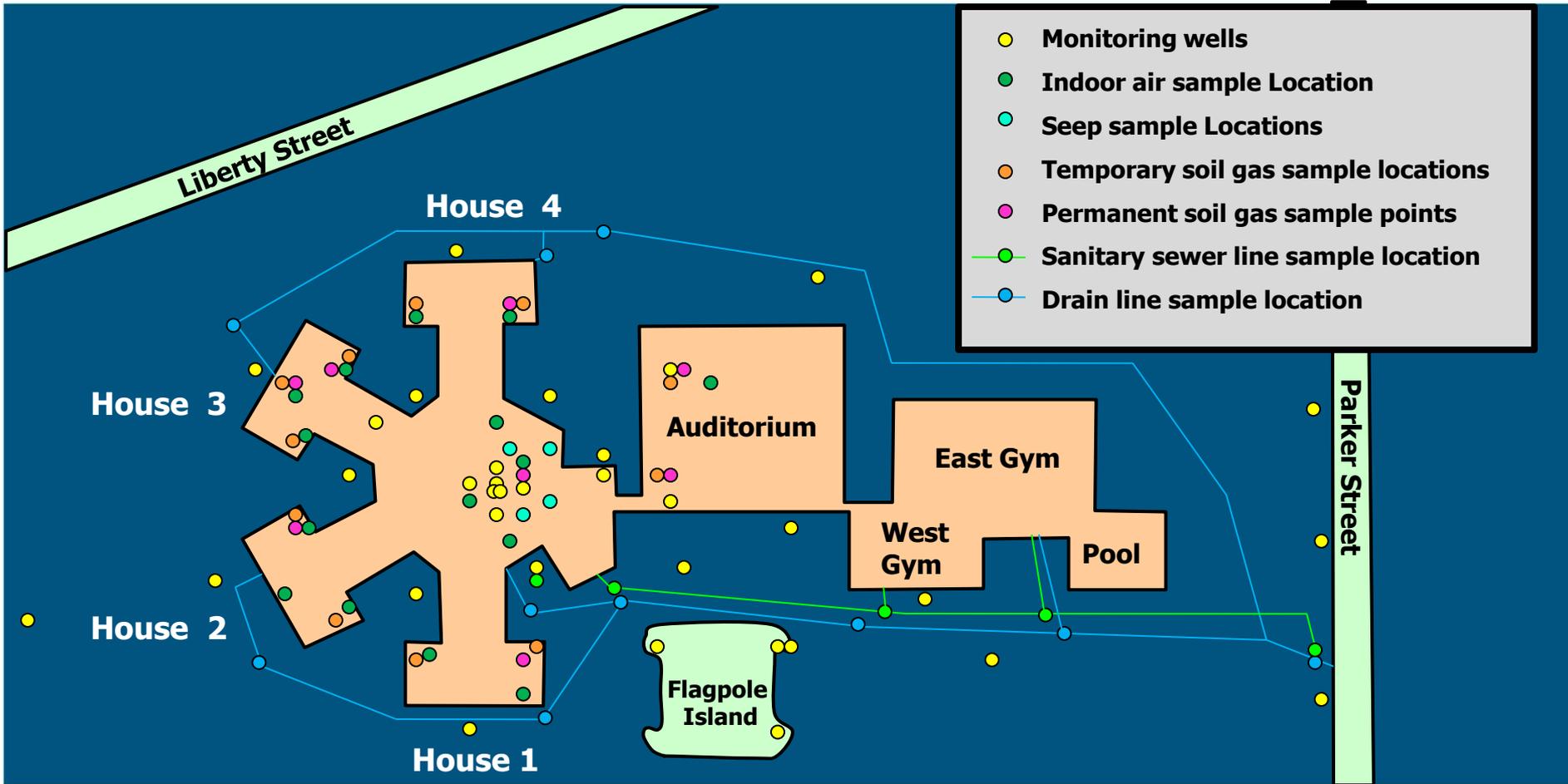
Seepage mitigation

- Specialty vendor began sealing of cracks and joints in the walls and floor (Mechanical Room) during NBHS holiday break in December 2010.
-

IRA Plan Modification submitted on January 18, 2011

New Bedford High School

Volatle Organic Compound (VOC) Investigation Locations



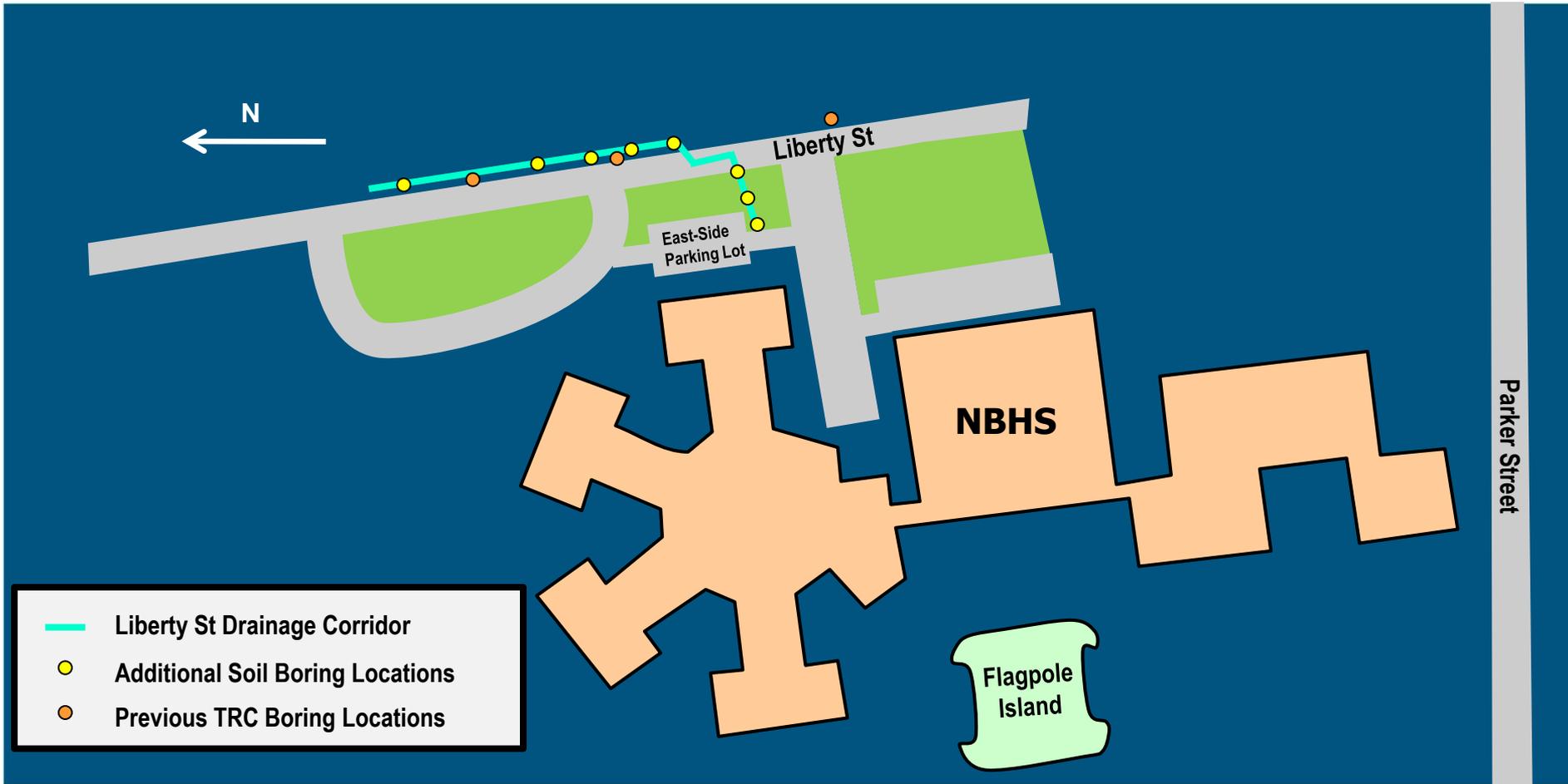
NBHS-Liberty Street Drainage Line

Status of Proposed Drainage Improvement Project

- ❑ **Characterized drainage line area**
 - Existing data from prior work (60 soil samples)
 - Eight additional borings (3 on NBHS campus) for PCBs.
- ❑ **EPA reviewed data to evaluate jurisdiction**
 - August 17, 2010 Letter: ***EPA approval not required.***
- ❑ **Falls under MassDEP jurisdiction**
 - Filed Utility-Related Abatement Measure (URAM) Plan—7/16/2010
- ❑ **Initiated and completed November 9 to 23, 2010**
 - URAM completion report pending offsite disposal of soil.

New Bedford High School

Approximate Liberty Street Drainage Work Location



New Bedford High School

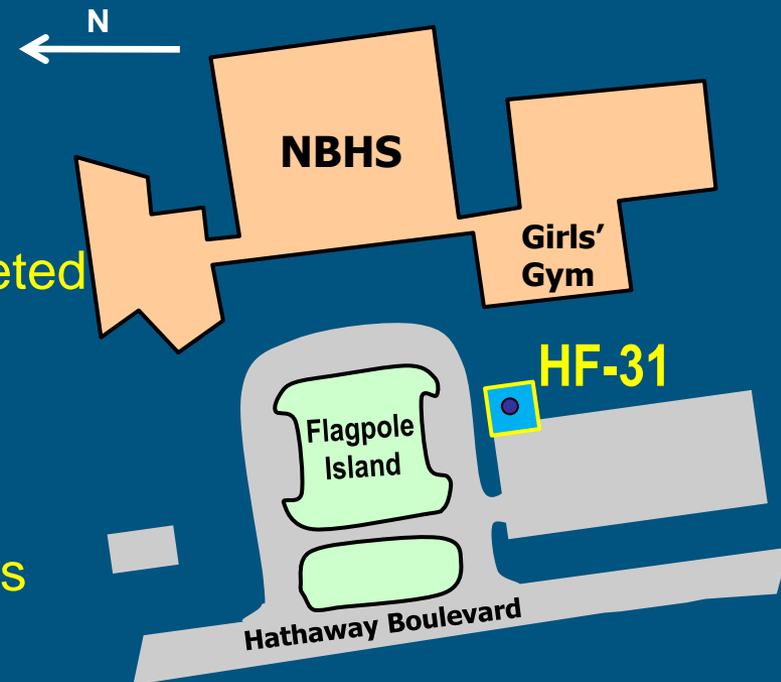
Upcoming Work

Soil Excavation Area

In front of Girl's Gymnasium Building
(Area of sample location HF-31)

☐ PCB impacted soil 1-3 ft below surface

- Release Abatement Measure (RAM) Plan.
- 20 day public comment period completed
 - October 22 – November 10, 2010
- Obtained approval from EPA
- MassDEP approval pending
- Work will be conducted when school is not in session (i.e., holiday breaks, weekends, vacations).
 - Tentatively scheduled for Feb. vacation



New Bedford High School

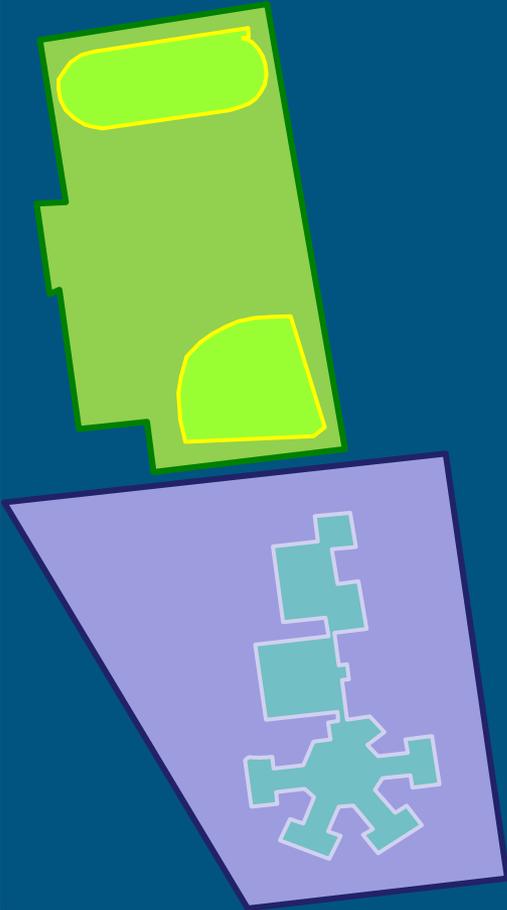
Building materials

- ❑ **Planning next phase of interior work scheduled for completion during the summer of 2011**
 - **Remove/remediate foam auditorium seating and light fixtures/old ballasts; remediate painted surfaces**
 - **Submit removal and abatement plan to EPA (Winter 2011)**
 - **Target summer 2011 implementation**

- ❑ **This planned action will complete the removal of the known Federally-regulated PCB building materials.**

Regulatory Submittals

Walsh Field/NBHS Campus



- Interim Phase II Comprehensive Site Assessment**
 - NBHS and Walsh Field
 - Submitted July 21, 2009 (5,000+ pages)
 - No significant risk in top foot.

- Final NBHS Phase II**
 - Submitted to MassDEP on January 4, 2011

- Modified IRA Plan for VOCs**
 - Submitted to MassDEP on January 18, 2011

- NBHS RAM Plan**
 - In preparation.

Final NBHS Phase II Report

Comprehensive Site Assessment

- ❑ **Currently safe to occupy/use NBHS and use the campus.**
- ❑ **Comprehensive data analysis**
 - **Based on work conducted by VHB, BETA and TRC**
- ❑ **Impacted media**
 - **Soil, groundwater, subslab soil vapor and indoor air.**
- ❑ **Risk drivers**
 - **Soil** - polychlorinated biphenyls, lead, and polyaromatic hydrocarbons deeper than 1 foot below ground surface.
 - **Groundwater** - trichloroethene and vinyl chloride
 - **Indoor air** - Incomplete pathway for volatile organic compounds

NBHS Campus Soil Remedy Release Abatement Measure

□ Combined soil removal and paving approach

- Prepare and issue draft Release Abatement Measure (RAM) Plan for public comment – *In preparation.*
- Twenty day public comment period.
- Massachusetts Department of Environmental Protection approval required.
- To be conducted when school is not in session (i.e., holiday breaks, weekends, vacations).

Acquired Residential Properties

Acquired Residential Properties

Activity Update

- ❑ Submitted RAM Completion Report for the demo work.
 - September 24, 2010

- ❑ Data collection to support Phase II report.
 - 83 soil borings (various depths), 3 groundwater monitoring wells
 - Conducted December 8 to 16, 2010
 - Seven supplemental test pit explorations.
 - Conducted December 6 to 10, 2010 to support forensic investigation
 - Targeting spring/summer 2011 for Phase II report issuance.

- ❑ Going Forward
 - Phase II report May 2011
 - RAM plan Summer 2011

New Andrea McCoy Field Nemasket Street Lots

New McCoy Field (Fmr. Keith Jr. High) Activity Update

□ Regulatory Filings

- Utility Related Abatement Measure (URAM) completion report submitted October 12, 2010
- Release Abatement Measure (RAM) completion report submitted November 24, 2010

□ Going forward

- File site closure report in 2011 (partial Response Action Outcome, or RAO), documenting that a condition of “No Significant Risk” has been achieved
- Implement activity and use limitation (AUL)

Nemasket Street Lots

Activity Update

☐ Investigations undertaken

- Clearing/brush chipping conducted October 14 & 15, 2010
- Geophysics – Ground penetrating radar and electromagnetic survey
 - Performed October 20 to 22, 2010
 - Anomalies identified helped guide test pit program (ballasts, drums, metal).
- Initial soil boring investigation – Initiated following test pit program
 - 25 soil borings, 3 groundwater monitoring wells
 - Conducted December 14 to 17, 2010
- Data collection to support a Phase II report.
 - Targeting Summer 2011 for Phase II report.

☐ Develop conceptual remedial approach.

- Summer 2011

Keith Middle School

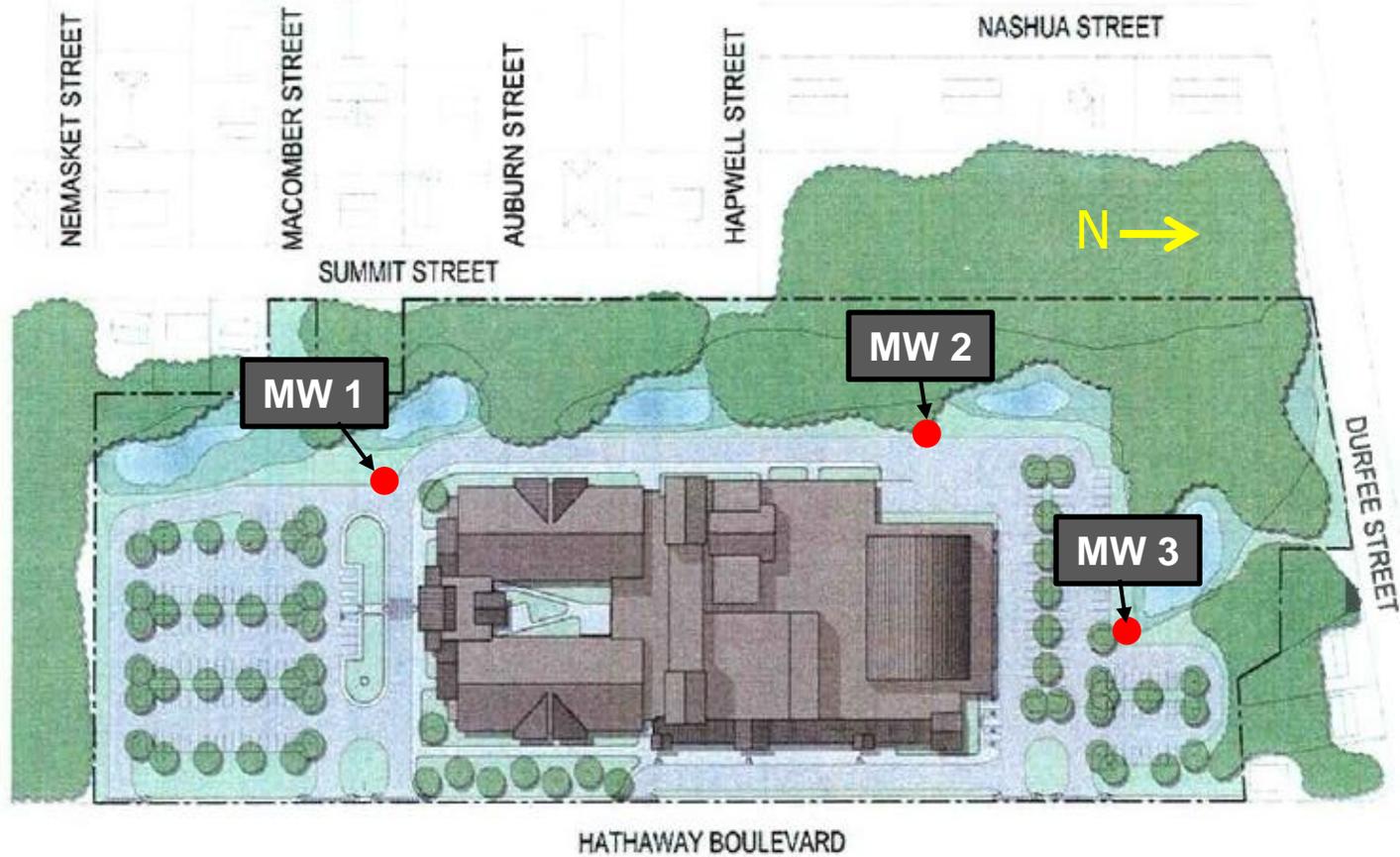
Keith Middle School - Regulatory Process Update

- ❑ **Wetland Sediment PCB – Immediate Response Action**
 - Completion Report Filing – October 8, 2010
 - Ecological Risk Assessment Filing – November 11, 2010
 - Remedial evaluation on-going

- ❑ **Long-Term Monitoring, Maintenance and Implementation Plan (LTMMIP)**
 - Cap Inspections – three-times/year – April, Aug., & Nov. 2010.
 - Indoor Air and Vent Monitoring – three-times/year – April, Aug., & Dec. 2010.
 - Wetland Inspection – once/year – May 2010.
 - Groundwater Sampling – twice/year – April & Sept. 2010
 - Site Personnel Training – once/year – April 2010

- ❑ **See Reports on Website – KMS and Wetland pages**

Update/Keith Middle School LTMMIP Groundwater Monitoring Well Locations



Ecological Risk Assessment

Two-phase evaluation

□ Stage I Environmental Screening

➤ Identification of constituents of concern –

- Surface water
 - ❖ Zinc
- Aquatic sediment
 - ❖ *Polyaromatic hydrocarbons (PAHs), pesticides, PCBs, metals*
- Surface Soil
 - ❖ *Polyaromatic hydrocarbons (PAHs), PCBs, metals*

□ Stage II Environmental Risk Characterization

- Sediment and surface soil risks (forested wetland)
- Utilizes indicator species and communities

Ecological Risk Assessment (continued)

Summary of Findings

☐ Sediment impacts

- Northern Wetland (no sediments to south)
 - Potential adverse affects on macroinvertebrates (midge larva)
 - ❖ Primarily PCBs, PAHs

☐ Forested wetlands

- Southern Forested Wetland
 - Condition of No Significant Risk
- Northern Forested Wetland
 - Potential adverse effects with some birds/mammals
 - ❖ PCB congeners, lead and/or zinc

Ecological Risk Assessment (continued)

Summary of Findings/Going Forward

□ Zinc in surface water

- 11/20 > acute/chronic national recommended water quality criterion.
 - Massachusetts Surface Water Standard [314 CMR 4.05(5)(e)]
 - Condition of “Readily Apparent Harm”
 - ❖ Site-related hazardous material > Mass. Surface Water Standard
 - Amphibians, fish, & microinvertebrates not at risk.
 - Detections above Mass. Standard may not be representative
 - One out of seven 2010 results were below the standard.
 - Condition of “Readily Apparent Harm” characterization still applies.
-

□ Going forward

- Prepare Phase II report (Summer 2011)

KMS Indoor Air and Vent Monitoring

Update/Keith Middle School

Air Monitoring for Polychlorinated Biphenyls

- Air/vent concentrations of PCBs at KMS are similar to or less than background air concentrations.
- Air/vent PCBs below EPA Action Level (0.05 ug/m³).
- Risk evaluation shows risk below MassDEP criteria.

Update/Keith Middle School

Air Monitoring for Volatile Organic Compounds (VOCs)

- ❑ VOCs in exterior vents decreasing in concentration over time
 - Includes compounds in detected soil gas, indicating that the system is performing as designed.

- ❑ VOCs detected in indoor air
 - Background concentrations (off-gassing of building materials)
 - Also attributable to maintenance activities

Thank You for Your Time and Attention

Questions are Welcome