

New Bedford High School Staff Meeting

Wednesday – August 31, 2011

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Agenda

- Polychlorinated Biphenyls (PCBs) Indoor Remediation**
- PCB Indoor Air Monitoring**
- Soil Remediation for NBHS Campus**
- Dioxin**
- Groundwater (Mechanical Room)**
- General Q&A***

NBHS 2011 PCB Interior Remediation Synopsis

❑ Wall Paint –

- *Rooms B-230, A-211-3, and A-213-4*
- *Remedial approach and status:*
 - Removal of the sheetrock false wall (completed)
 - Chemically strip paint from the surfaces until visual remnants are removed (completed)
 - Analytical testing to evaluate removal performance (completed)
 - Reinstallation of the false wall (in progress – expected to be ready for 9/6).

❑ Auditorium Seats –

- *Foam seat cushions classified as PCB Remediation Waste in the Main Auditorium.*
- *Remedial approach and status:*
 - Remove and dispose of foam, refurbish seats (in process).

❑ Fluorescent Light Fixtures –

- *Impacts from releases of ballast contents*
 - A total of 2,946 light fixtures targeted
 - 884 old ballasts were found to still be in use (included in the 2,946 fixture count).
- *Remedial approach and status:*
 - Remove (completed), dispose (completed), replace in kind (in progress – expected to be ready for 9/6)
 - New lights have a slightly different light spectrum.

PCBs in Indoor Air

❑ PCBs in NBHS indoor air

- *Comprehensive sampling round during 2011 February vacation*
 - 59 interior air samples (largest effort to date)
 - Three rooms (A-110-1, A-315-1, A-203-2) above $0.3 \mu\text{g}/\text{m}^3$ total PCBs.
 - Five rooms (A-112-2, A-311-2, A-307-3, A-212-4, A-315-4) above $0.05 \mu\text{g}/\text{m}^3$
 - 15 were at or below 2008 results.
 - The majority of the samples did not detect PCBs in indoor air.
- *Focused /expedited April 2011 vacation sampling round following light tray removal*
 - Results similar to February 2011
 - Rooms A-110-1, A-315-1, and A-203-2 closed until testing determines the levels are below $0.3 \mu\text{g}/\text{m}^3$ total PCBs

❑ 2011 Post-Remedial Air Sampling

- *Focused on A-Block (August 23/24, 2011)*
- *One sample per house per floor for a total of 12 samples (3 per house)*
- *Includes all rooms that were above $0.05 \mu\text{g}/\text{m}^3$ and $0.3 \mu\text{g}/\text{m}^3$ Total PCBs*
- *Evaluation pending laboratory data analysis.*

NBHS Campus Soil Remediation 2011

Soil Excavation







- *Approximately 8,000 cubic yards removed since February 2011 to achieve state soil standards.*
- *Approximately 2,000 to 3,000 cubic yards remain to be excavated (total volume dependent on final design, which is still being evaluated).*

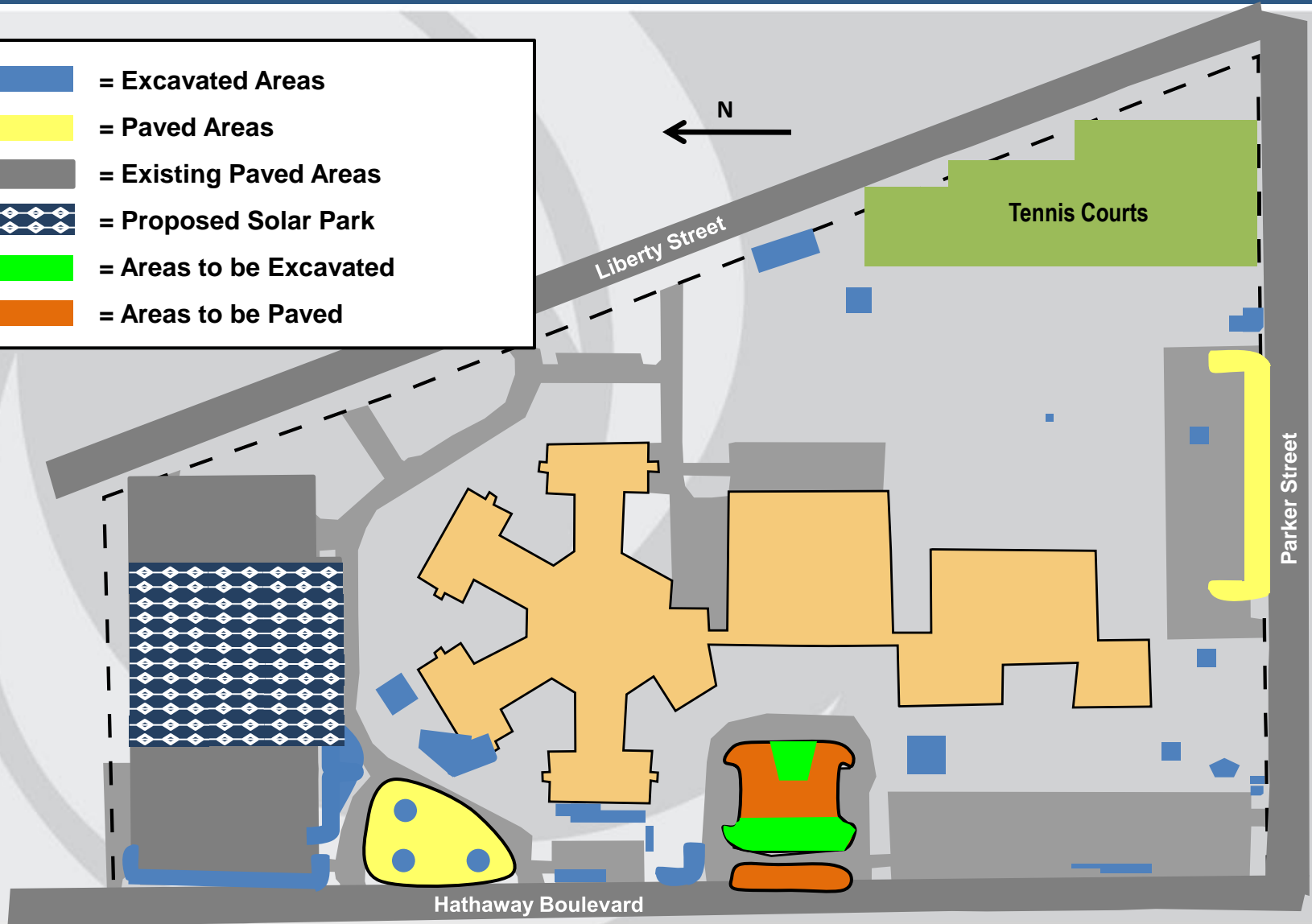
Paving/Other

- *Expand paving/exposure barriers to prevent direct contact with impacted soil.*
 - *Earthwork and grading*
 - *Flag pole island modification*
 - *Other traffic islands and adjacent sidewalks*
 - *Solar power development north of school building (between north parking lots) – installation may begin during fall 2011*

Considerable effort undertaken to preserve stands of trees in areas slated for remediation

NBHS Campus Soil Remediation

-  = Excavated Areas
-  = Paved Areas
-  = Existing Paved Areas
-  = Proposed Solar Park
-  = Areas to be Excavated
-  = Areas to be Paved

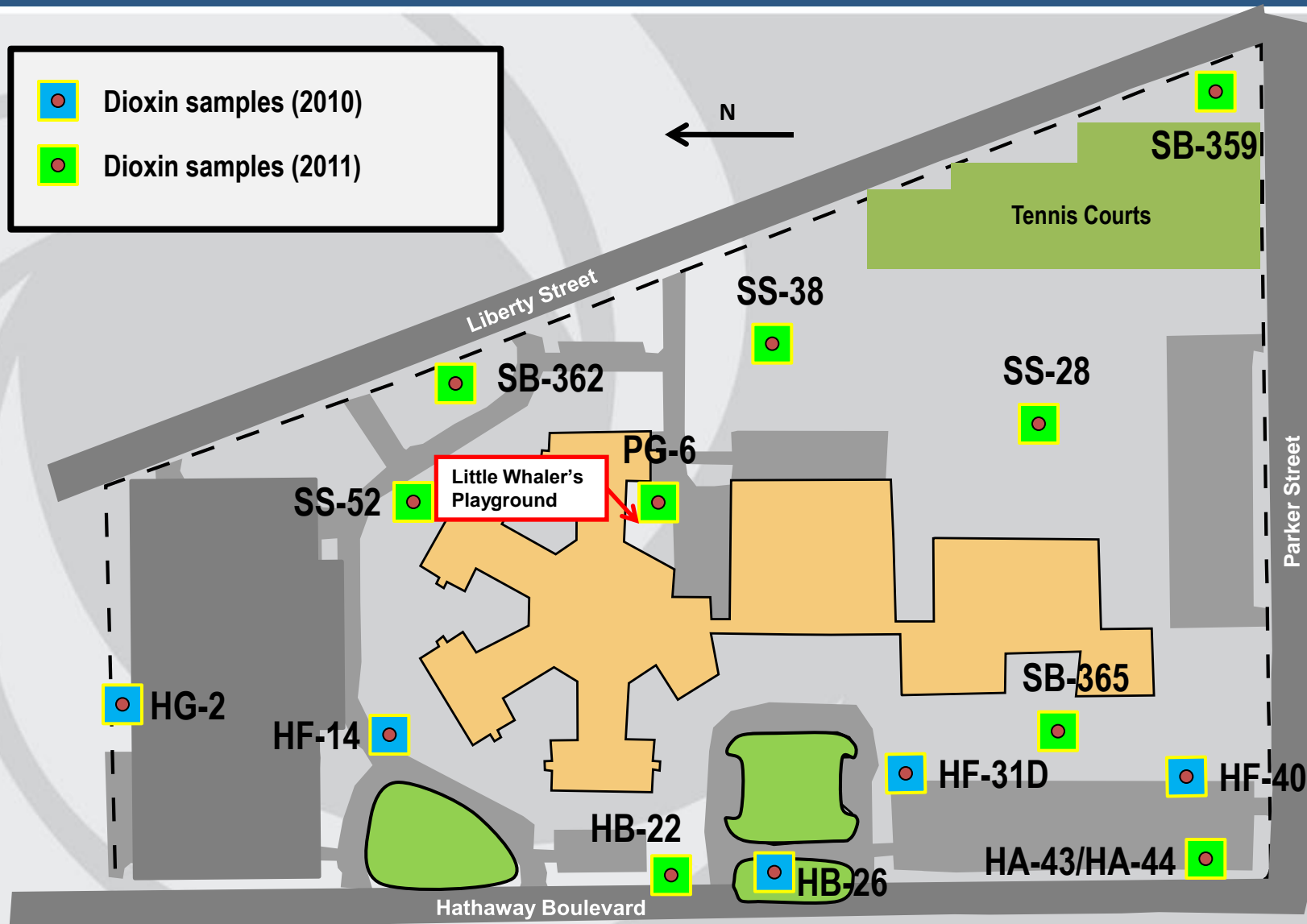


Dioxin Sampling following MassDEP Jan. 2011 Letter

☐ TRC sampled 9 more locations in June 2011:

- *Rear (Liberty Street) traffic island*
- *Tennis court area*
- *Southwest corner of campus*
- *West-edge of campus (west of Houses)*
- *Little Whalers playground*
- *Fenced playing field (rear of gym)*
- *Unfenced playing field (rear of D-block)*
- *West side of NBHS gym*

NBHS Approximate Dioxin Soil Sampling Locations



Groundwater

- ❑ **Chlorinated Volatile Organic Compound (VOC) groundwater impacts under Mechanical Room.**
 - **Remedy underway via Modified IRA Plan (January 2011).**

- ❑ **Currently safe to occupy NBHS and the surrounding campus.**
 - **Groundwater samples from wells in the Mechanical Room exceed standards.**
 - **No other sub-slab results above applicable standards.**
 - **No Significant Risk to the health of building occupants.**

- ❑ **Potential exposure evaluation**
 - **Direct contact and vapor intrusion to regularly occupied spaces.**
 - **No current direct contact risk.**
 - **No impact to occupied spaces.**

Immediate Response Action (IRA) Update

- ❑ *Pumping and vacuum extraction (Total Fluid Extraction [TFE]) at MW-27R in the Mechanical Room.*

- ❑ *Remove chlorinated VOC-impacted groundwater in the vicinity of MW-27R.*
 - *Approximately 2,600 gallons removed to date.*
 - *Chlorinated VOC-impacted groundwater concentrations significantly reduced.*
 - *Additional remediation options under evaluation for Mechanical Room Area.*

- ❑ *New development*
 - *PCBs present in VOC product removed from the well.*
 - *Detected during disposal characterization in July 2011.*
 - *Further evaluation pending.*

Thank you for your attention!

Questions are Welcome!