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Conway Park

Draft Public Involvement Plan Presentation and Environmental Conditions Update Meeting
May 29, 2019

Weston & Sampson

Meeting Agenda

- Introductions and Background
- Draft Public Involvement Plan
- Project Overview and Data Recap
- New Information
- Anticipated Remedial Approach
- Next Steps & Schedule
- Questions

Opening Remarks

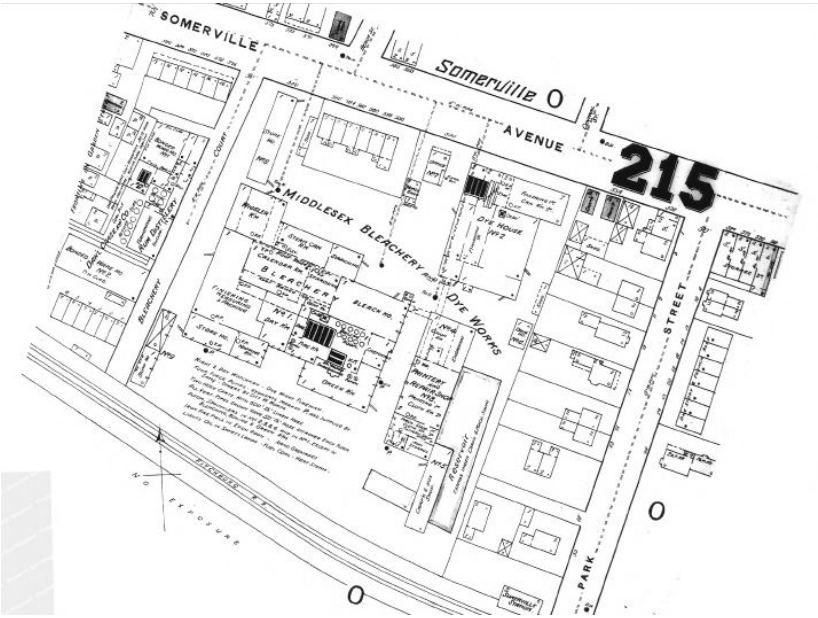
- Introductions
  - City Representatives
  - Weston & Sampson
  - MassDEP
  - EPA
- Project Overview

Project History

- Desire to fix the retaining wall
  - Geotechnical, structural Investigation
  - Environmental samples for soil disposal
  - Plus preliminary data to support park design
- Elevated lead and PCBs (in one sample)
- Supplemental investigation in March
- Resulted in notification to MassDEP and EPA
- Presented those data to the public in March, 2018

Site History

- 1800s Bleachery and Dye works established
- Operated until early 30s
- Field discussed in early-mid 40s
- Renovated in 1976 and in 2001



Assessment Process

- Site is regulated by MassDEP
  - Mass. Contingency Plan
  - LSP Oversight
- And by EPA
  - Toxic Substance Control Act
  - PCB sites
  - Approval process

Draft Public Involvement Plan

- Public Outreach –
  - Meetings on March 29, 2018 and December 5, 2018
  - Updates on Conway Park website
- Petitioners Requested that the Site become a Public Involvement Plan (PIP) Site (May 21, 2018)
- Milestones
  - Phase I and Tier Classification Report (March 28, 2019)
  - Letters to Petitioners – Dated April 12, 2019 (resent on 17th), May 10 and May 20, 2019
- Meeting to Present the Draft PIP

PIP Process

- Solicit Input prior to this meeting
- Establish a mailing list
- Establish an Information Repository
- Notify public on Upcoming Major Reports
  - Draft Reports made available
  - Present the Draft Reports
  - Public Comment Period
  - Address Comments
- Continues until Site Closure (or deemed unnecessary)

Contacts

PIP Point Person: Vithal Deshpande

- City of Somerville, Environmental Coordinator
- vdeshpande@somervillema.gov
- 617-625-6600 x5070

Conway Project Manager: Arn Franzen

- City of Somerville, Project Manager Director of Parks SPCD/OSPCD
- afranzen@somervillema.gov
- 617-625-6600 x2545

PIP Communications Manager: Denise Taylor

- City of Somerville, Dir. of Communications & Community Engagement
- dtaylor@somervillema.gov
- 617-625-6600 x2103

All three can be reached with one email at PIP@somervillema.gov

How to Stay Informed

Sign up for the official PIP U.S. Mail mailing list by contacting PIP@somervillema.gov

Sign up for Conway Email Updates at www.somervillema.gov/conwayfield

Visit the Conway Web Page at www.somervillema.gov/conwayfield

Sign up for the City E-Newsletter at www.somervillema.gov/subscribe

Comment on the Draft PIP

- Copies Available for Review
  - Central, West and East Branch Libraries
  - MassDEP's Searchable Sites – https://eeaonline.eea.state.ma.us/portal#!/wastesite/3-0034868
- Comment Period through June 19, 2019
- Address Comments and Finalize PIP by July 19, 2019

Future MCP Submittals

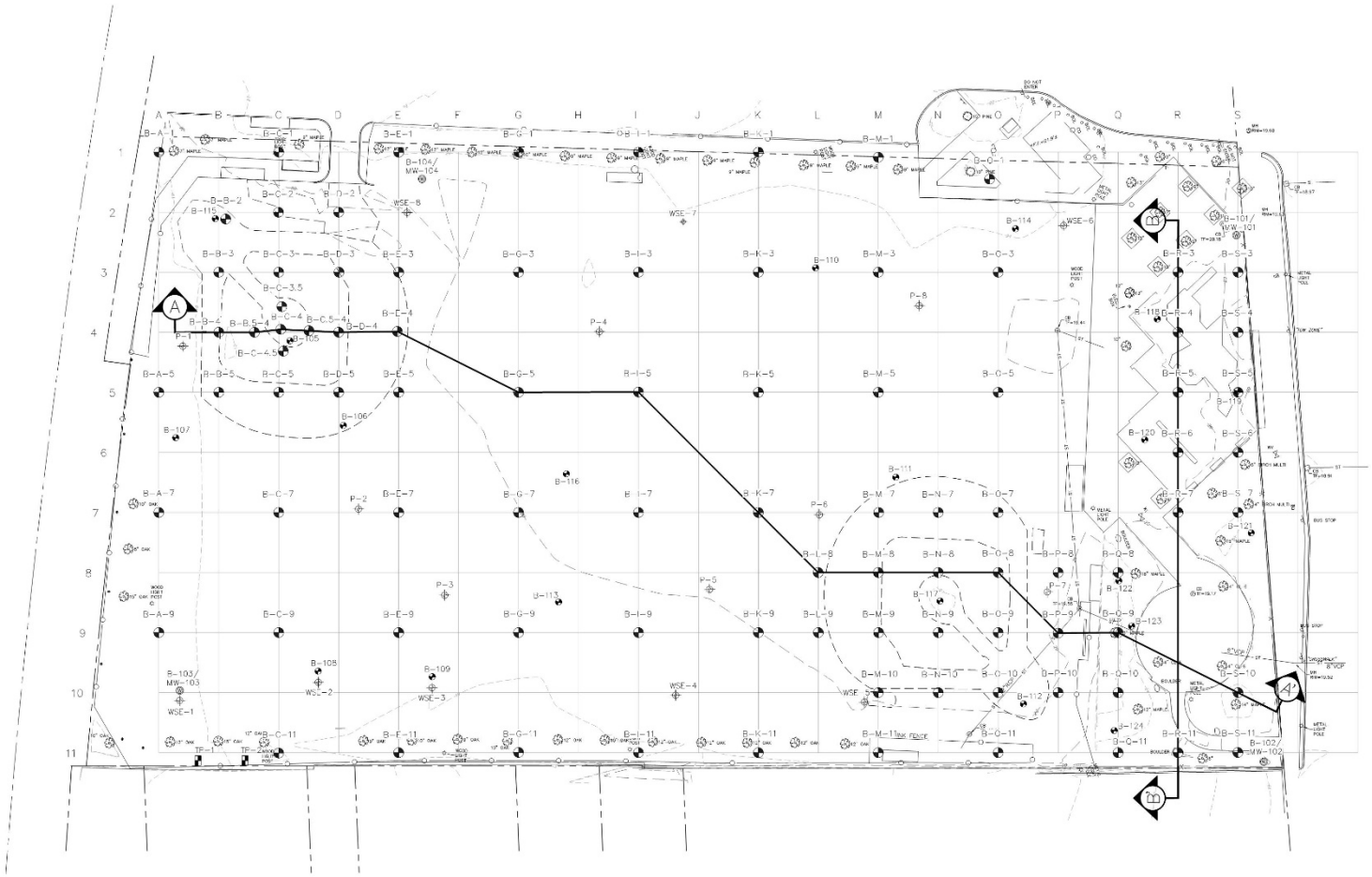
- Notification to the mailing list 14 days in advance of draft Documents
- Draft Documents at Public Repositories
- Public Meeting
- 20-day Public Comment Period
- Comments addressed
- Report Finalized

Findings and Data Review

- Playground
  - Northwest portion of playground
  - Southeastern portion of playground
- Ballfield
  - PCB Data Review

Field Summary

- Approximately 110 sampling locations
- Collected over 700 soil samples
  - Depth Integrated
  - Surface – 0-0.5 feet
  - 1- and 2- foot increments
- 4 groundwater wells
- 7 concrete samples



EXISTING CONDITIONS LEGEND:

- TREE CANOPY
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB/BUSH
- SIGN
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- WATER VALVE
- MANHOLE
- CATCHBASIN
- METAL POST/BOLLARD
- CONCRETE MONUMENT
- CHAIN LINKED FENCE
- OVERHEAD UTILITY WIRES
- GAS LINE
- WATER LINE & WATER VALVE
- SANITARY SEWER
- STORM SEWER
- CURBING
- UNDERGROUND ELECTRIC
- CONDUIT
- UNDER DRAIN
- UNDERGROUND TELEPHONE
- STONE WALL
- PROPERTY BOUNDARY
- ELEVATION CONTOUR

SOIL BORING/MONITORING WELL LEGEND:

- SOIL BORING (OCTOBER/NOVEMBER 2017)
- SOIL BORING (MARCH 2018)
- MONITORING WELL (MARCH 2018)
- SOIL BORING (JULY 2018)
- TEST PITS (OCTOBER 2017)

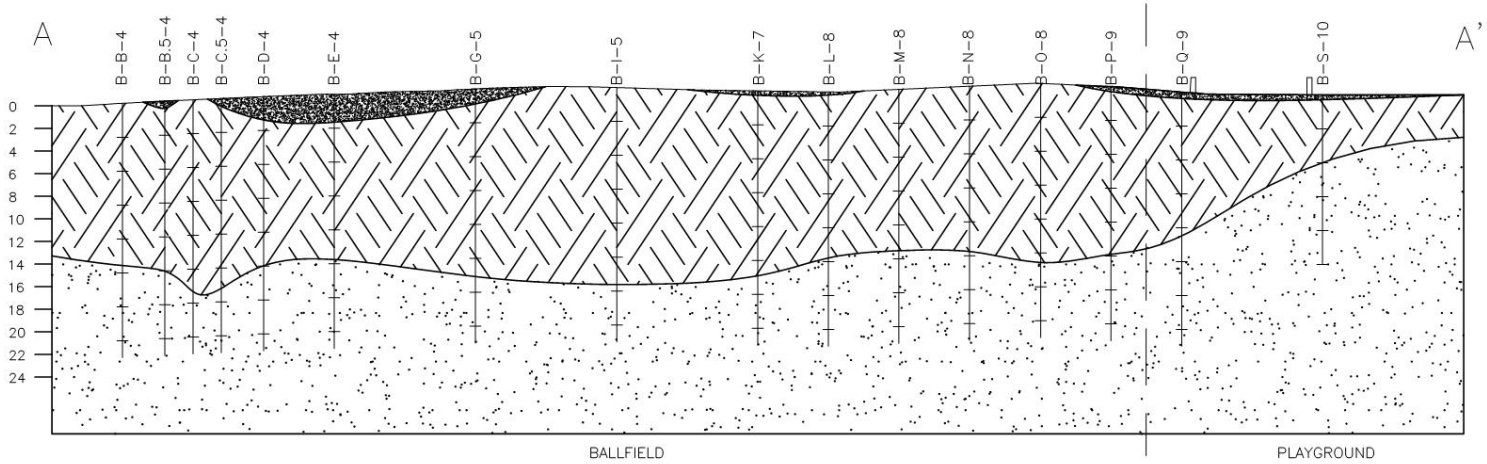
GRAPHIC SCALE 1" = 20'

FIGURE 2
CITY OF SOMERVILLE, MASSACHUSETTS
CONWAY PARK

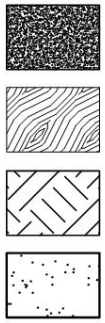
SITE PLAN

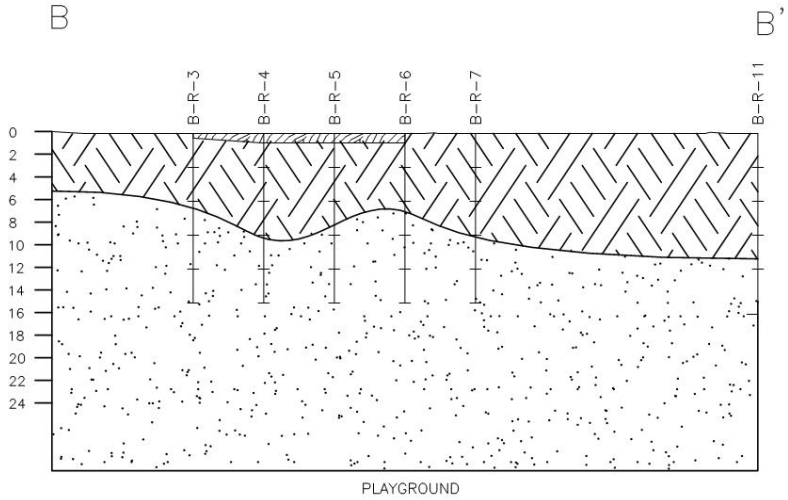
NOVEMBER 2018 SCALE: 1" = 20'

Weston & Sampson
Weston & Sampson Engineers, Inc.
5 Centennial Drive, Peabody, MA 01960



LEGEND





HORIZONTAL SCALE

40 20 0 40 80

SCALE: 1"=40'

VERTICAL SCALE: 1"=10'

FIGURE 4

SOMERVILLE, MA
CONWAY PARK

CROSS SECTION A-A' AND B-B'

DESIGNED BY:	MDM	CHECKED BY:	JRS	DATE:	AUGUST 2018

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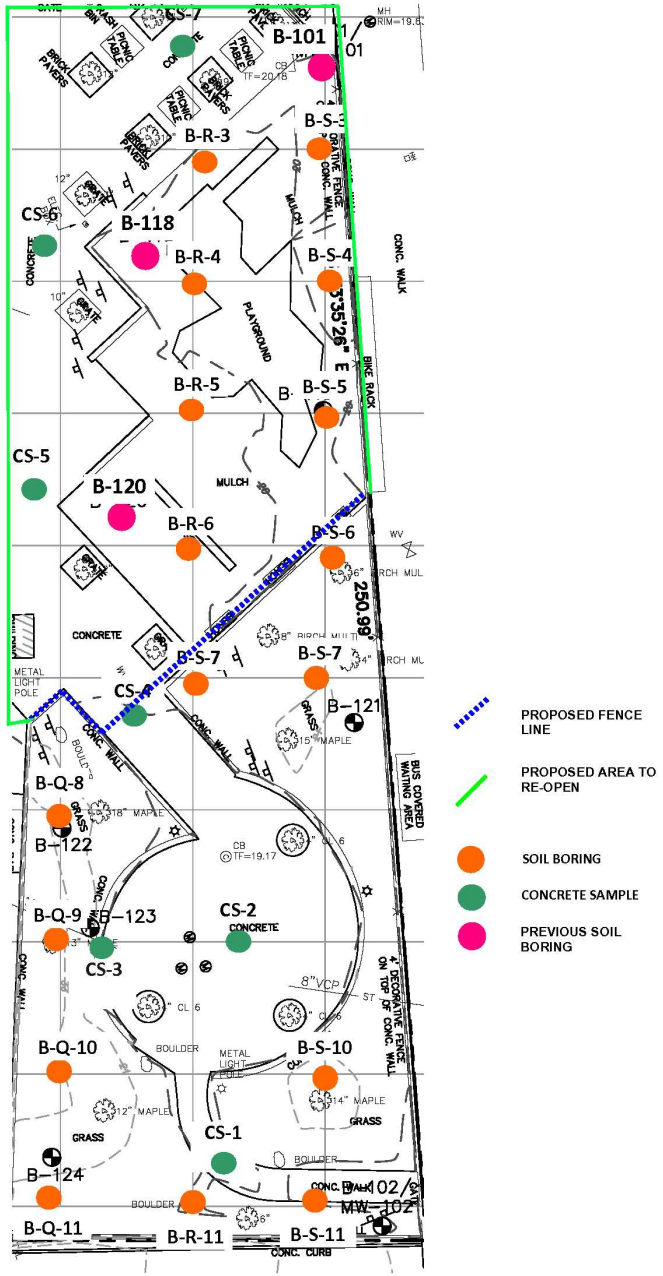
P:\MA\Somerville MA\Conway Park\CAD\Conway Park Cross Sections rev2.dwg

- Northwest portion
  - PCB Concentrations non detect or below 1 ppm
  - Lead - 1 sample met standard, rest below.

Parameter	Units	Min Conc.	Max. Conc.	No. of samples	EPC-Average All data	No. of samples	EPC-Average Surficial	MCP Method 1 Standard
Total PCBs	mg/kg	ND (<0.081)	0.27	39	0.07	20	0.09	1
Lead	mg/kg	4.2	200	35	63.82	18	67.91	200



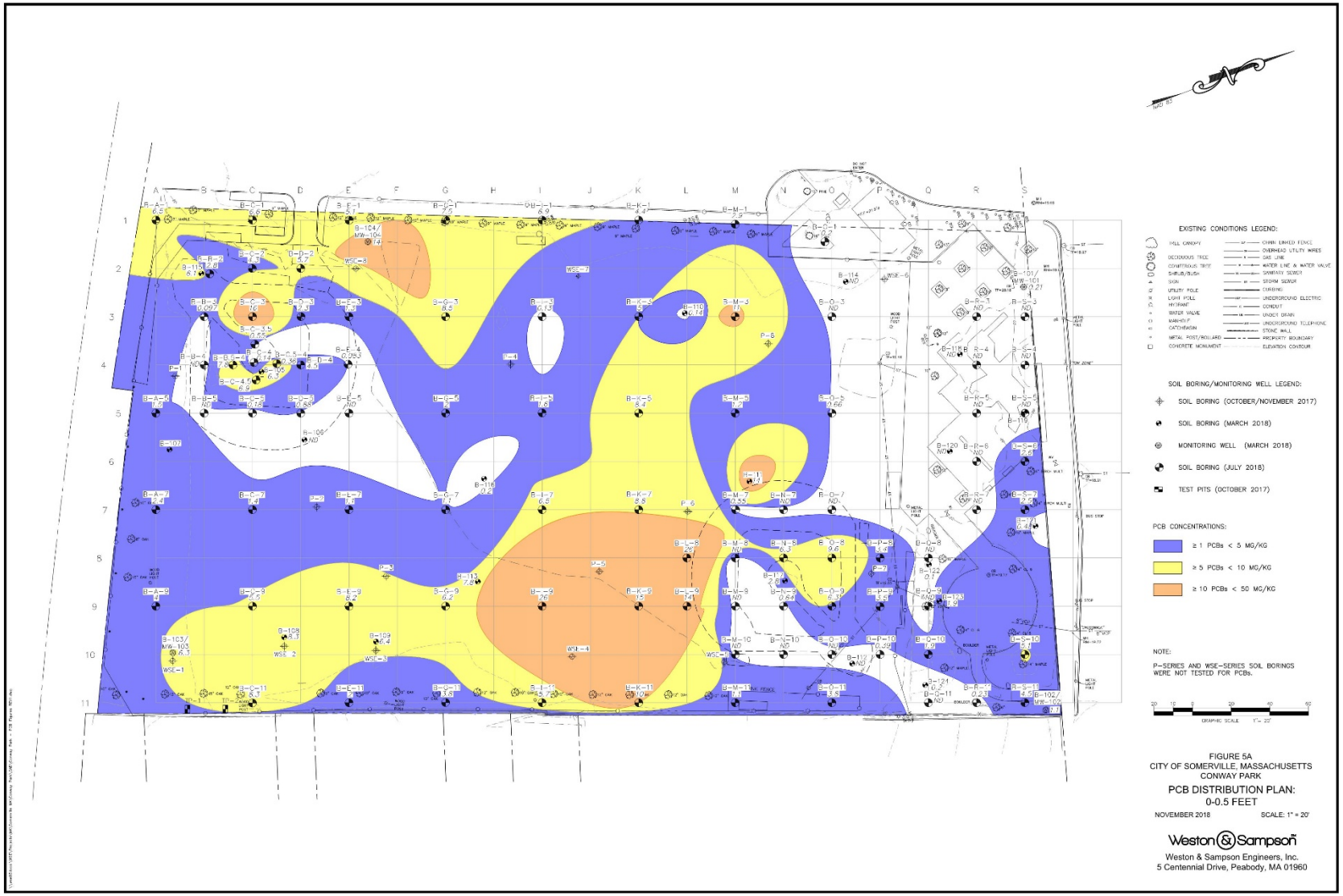
Playground Summary

- Northwest portion was reopened to the public in fall 2018
- Currently the Southeast Portion remains closed for now

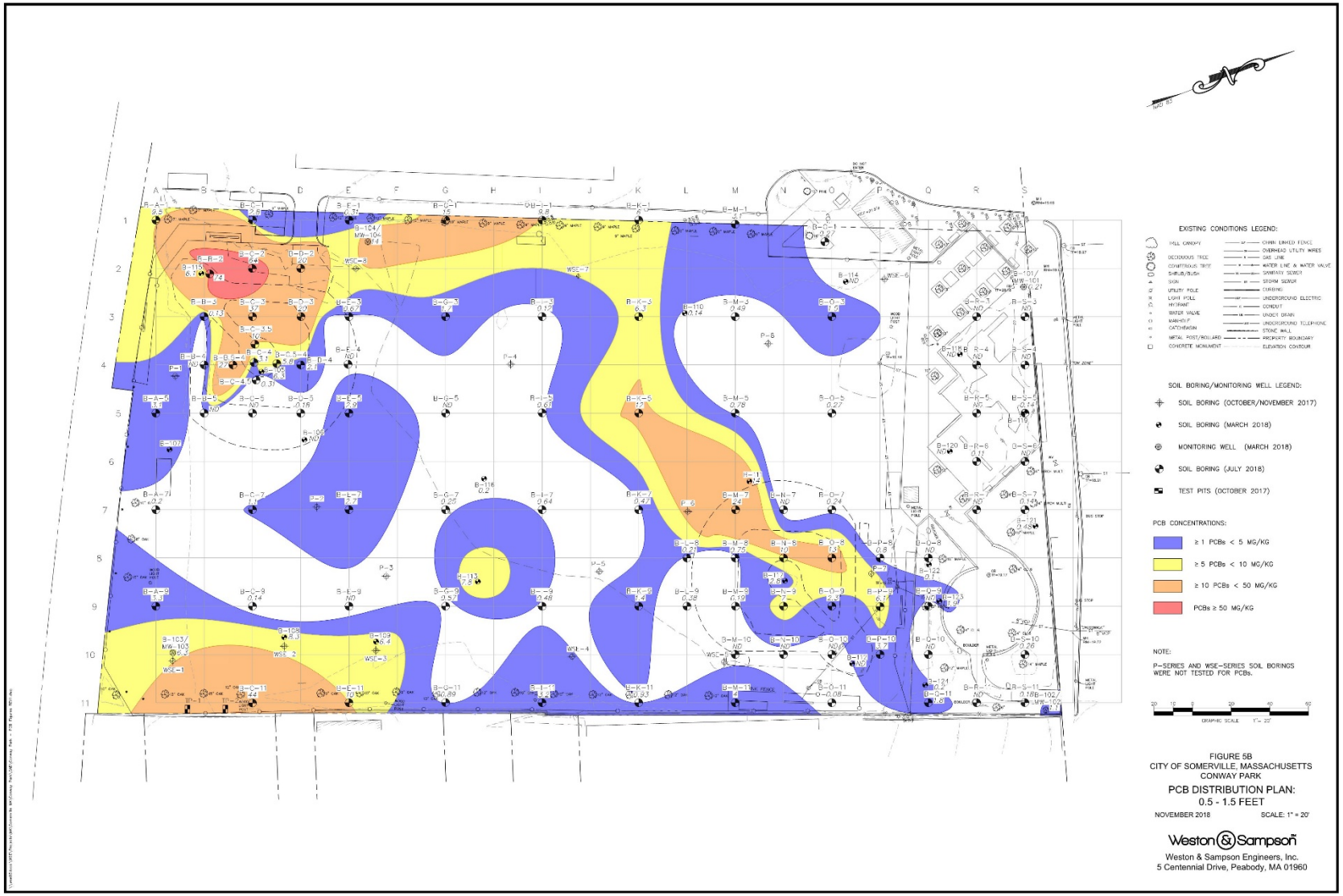
Ballfield Summary

- PCB concentrations decrease with depth
- 0-0.5 feet (surficial soil) not as impacted
- Highest concentrations >7.5 feet below grade

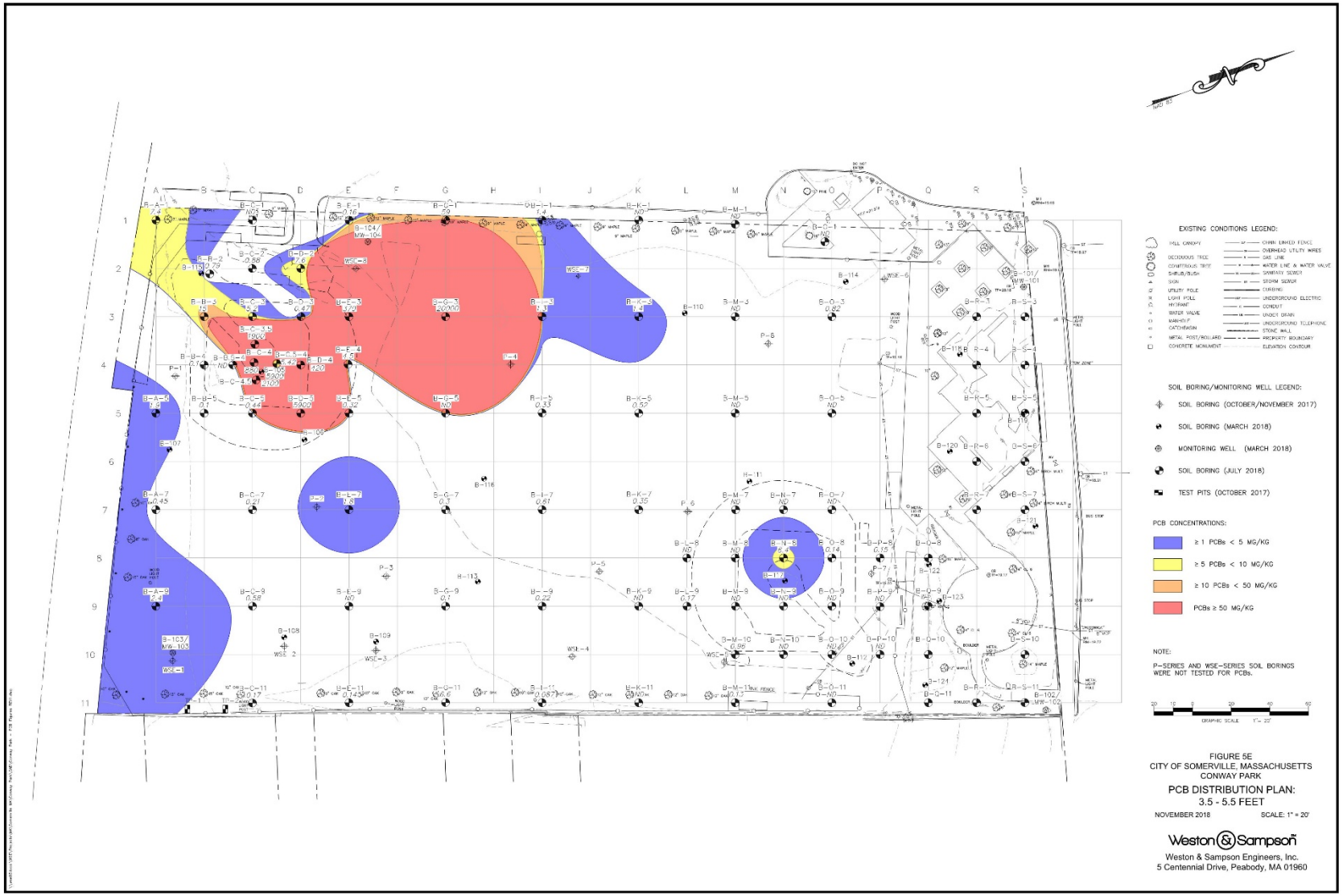
Depth Below Ground Surface	Non-Detect < 1 mg/kg	>/=1, < 5 mg/kg	>/=5, < 10 mg/kg	>/=10, < 50 mg/kg	> 50 mg/kg	Max Concentration
0 – 0.5 feet	24	22	21	7	0	26 mg/kg
0.5 – 1.5 feet	38	15	7	12	2	74 mg/kg
1.5 – 2.5 feet	38	19	4	11	2	1,200 mg/kg
2.5 – 3.5 feet	42	17	4	7	4	12,000 mg/kg
3.5 – 5.5 feet	53	7	5	1	8	20,000 mg/kg
5.5 – 7.5 feet	57*	7	1	6	3	2,600 mg/kg
7.5 – 9.5 feet	60*	2	1	1	1	40,000 mg/kg
9.5 – 11.5 feet	57*	3	1	1	0	49 mg/kg



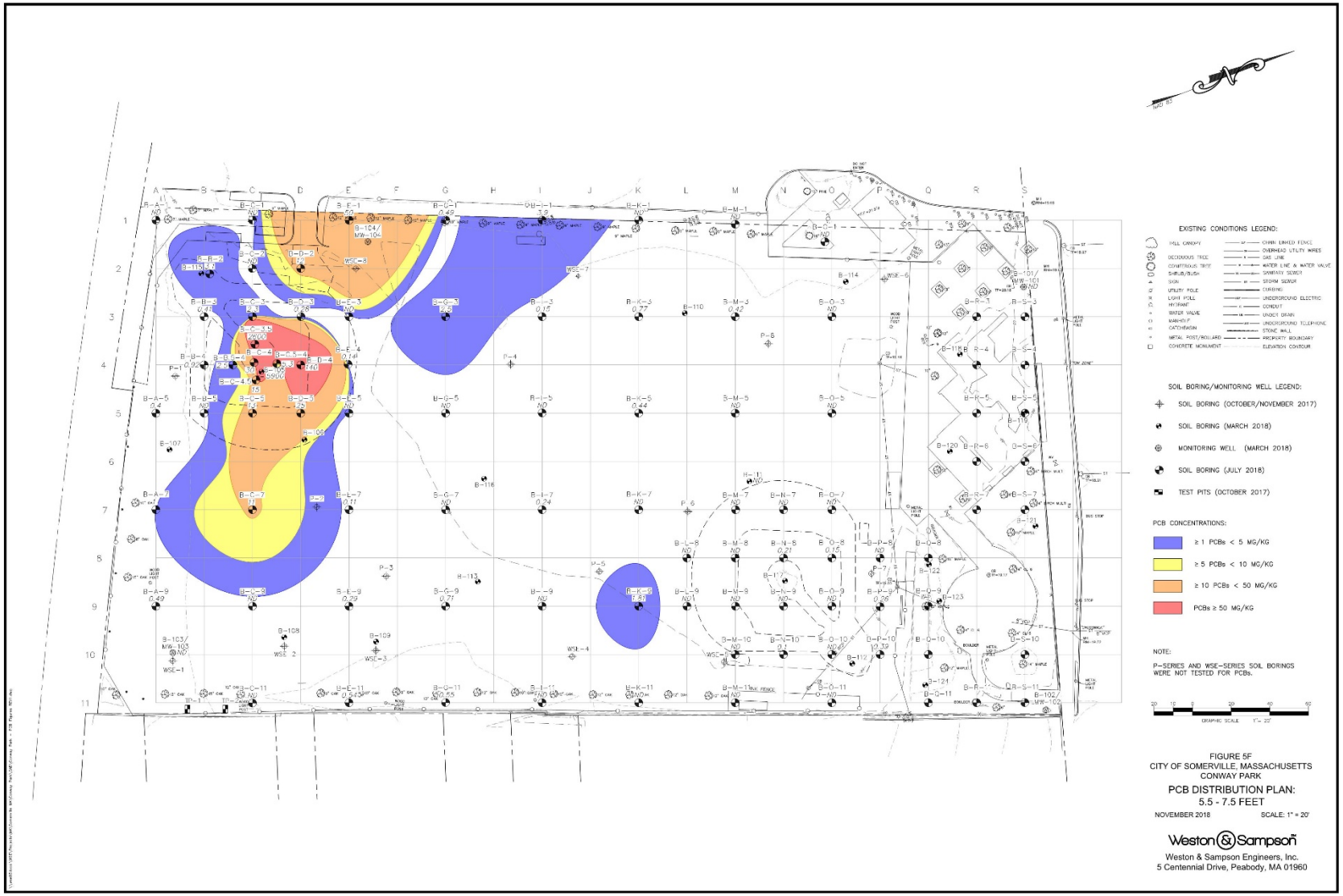
0 – 0.5 feet below grade



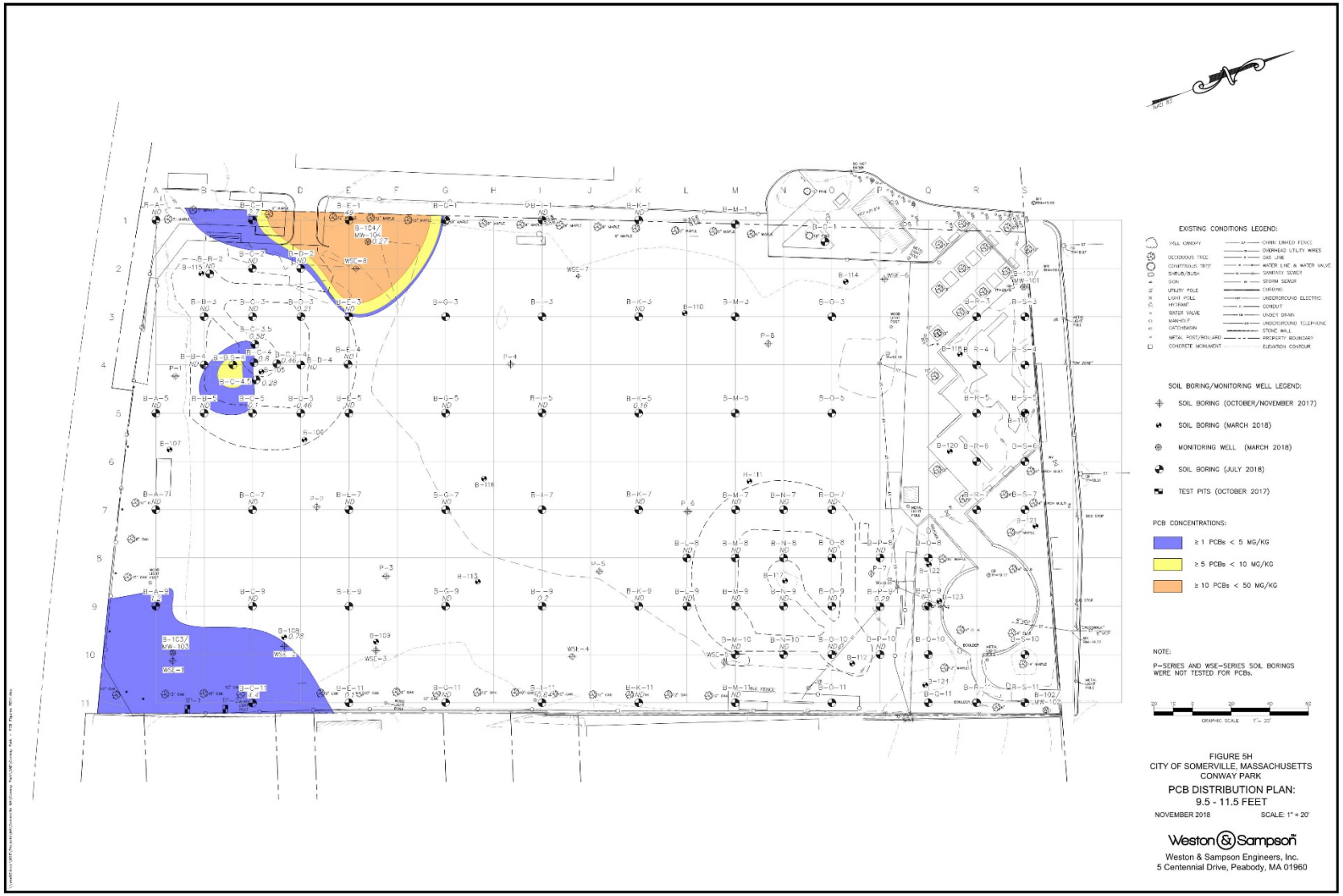
0.5 – 1.5 feet below grade



3.5 – 5.5 feet below grade



5.5 – 7.5 feet below grade



9.5 – 11.5 feet below grade

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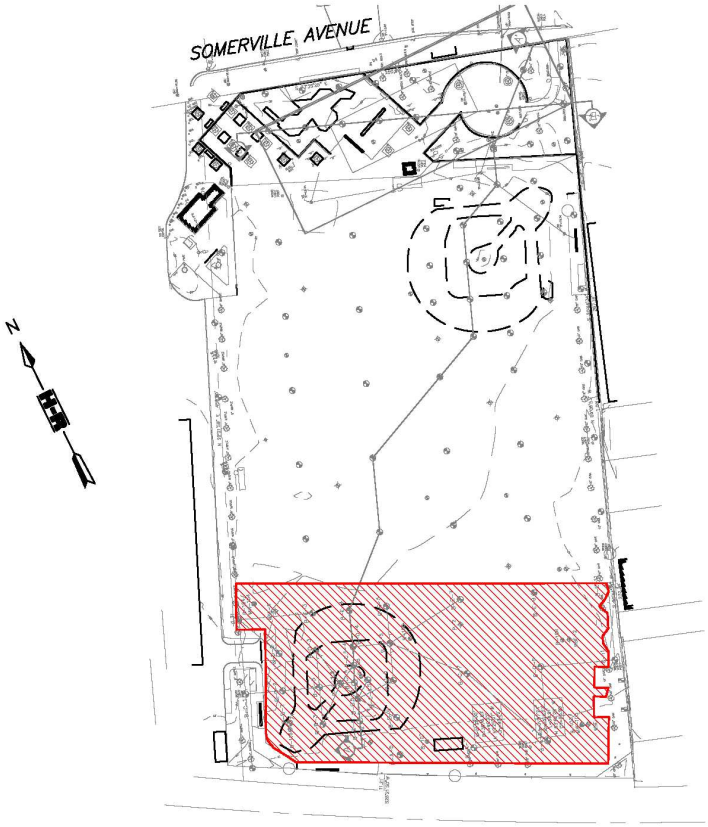
New Information

- Geophysical Survey – January 7, 2019
- Test Pit Program – May 14 – 16, 2019
- Remedial Planning & Conceptual Remedial Design



NOTE:

Modified from site plan provided by Weston & Sampson, Inc., identified as Conway Park – PCB Figures REV1.dwg.

LEGEND

APPROXIMATE LIMITS OF GEOPHYSICAL SURVEY AREA

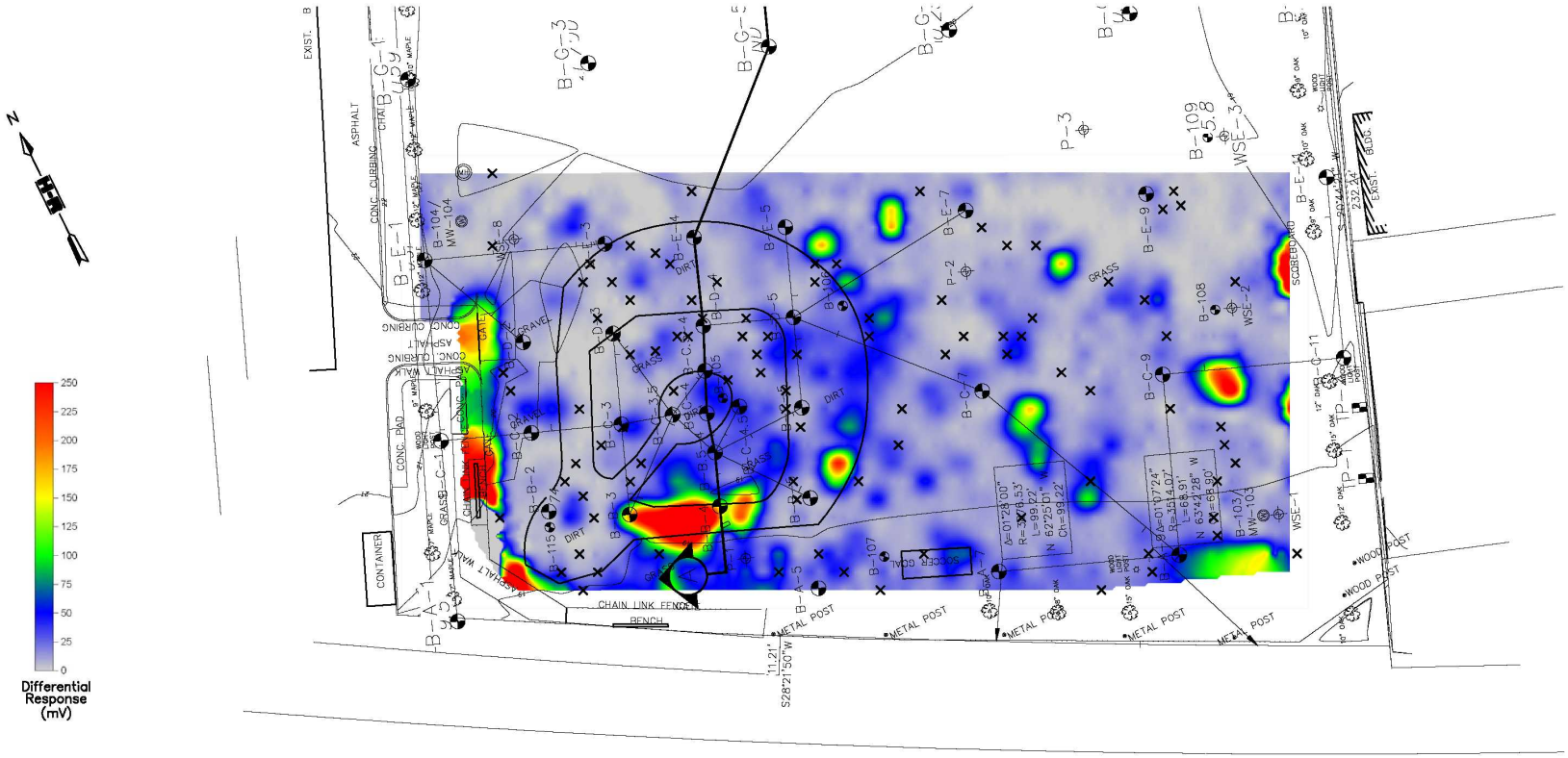
SCALE (feet)

0 80 160

Figure 2
Site Plan
Conway Park
550 Somerville Avenue
Somerville, Massachusetts

File 18MH50	January, 2018

HAGER–RICHTER
Salem, NH | Fords, NJ



LEGEND

DATA STATIONS

MANHOLE

SCALE (feet)

0 30 60

NOTES:

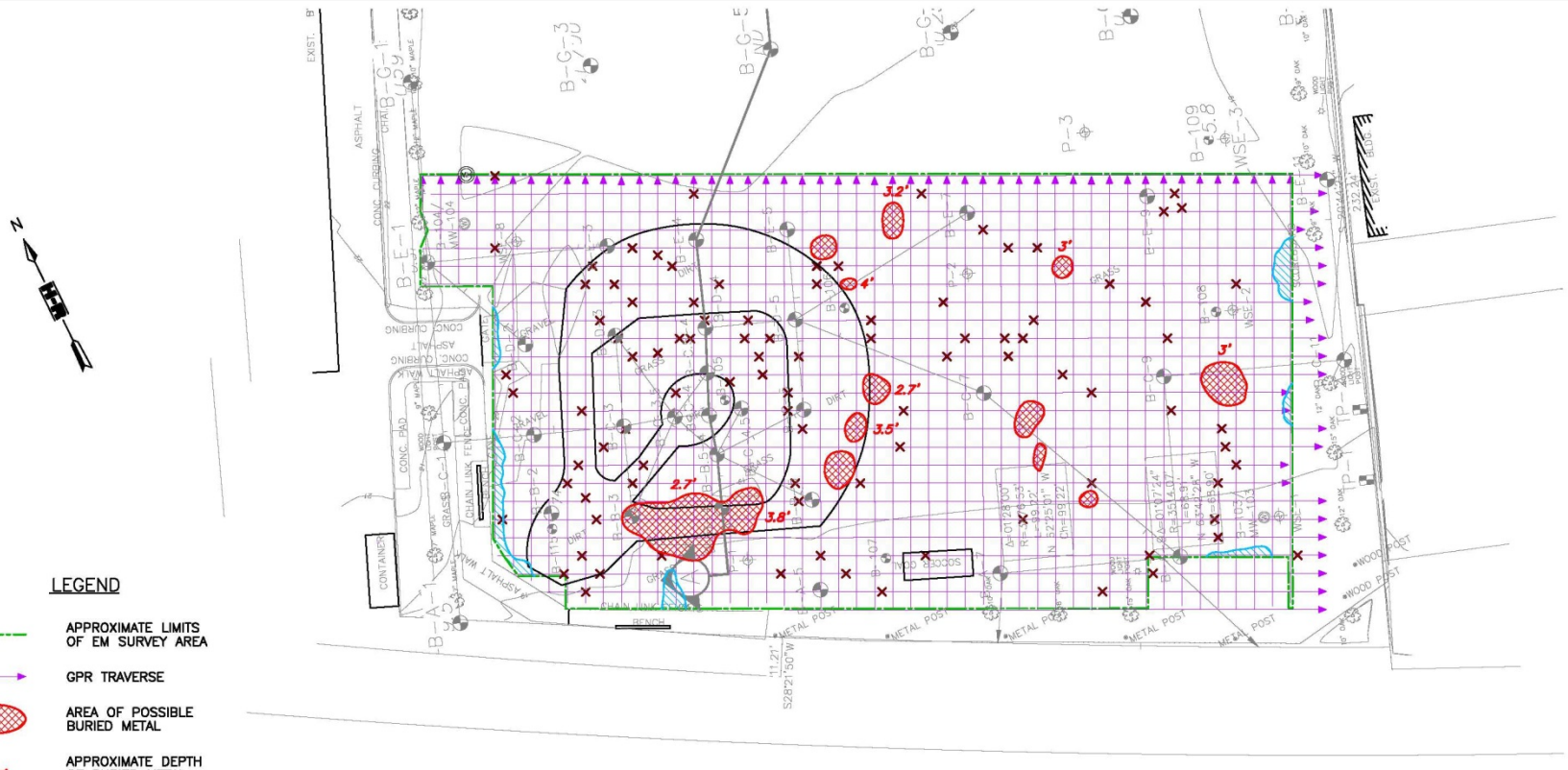
1. Modified from site plan provided by Weston & Sampson, Inc., identified as Conway Park – PCB Figures REV1.dwg.
2. Data were acquired with Geonics EM61–MK2. Differential response shown.
3. Differential response equals top coil response – bottom coil response.

Figure 3
EM61 Survey
Conway Park
550 Somerville Avenue
Somerville, Massachusetts

File 18MH50 | January, 2018

HAGER–RICHTER
Salem, NH | Fords, NJ

Weston & Sampson



LEGEND

- APPROXIMATE LIMITS OF EM SURVEY AREA
- GPR TRAVERSE
- AREA OF POSSIBLE BURIED METAL
- 2.7' APPROXIMATE DEPTH OF BURIED METAL OBJECT
- × UNIDENTIFIED BURIED OBJECT
- ANOMALY ATTRIBUTED TO EFFECTS OF SURFACE OBJECTS. THE PRESENCE OR ABSENCE OF BURIED METAL WITHIN THIS AREA CANNOT BE DETERMINED ON THE BASIS OF THE EM61 & MAGNETIC DATA ALONE.
- MANHOLE

SCALE (feet)

0 30 60

NOTE:

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Figure 5
GPR Survey &
Integrated Interpretation
Conway Park
550 Somerville Avenue
Somerville, Massachusetts

File 18MH50	January, 2018

HAGER–RICHTER
Salem, NH | Fords, NJ

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Test Pit Excavations


DEWALT
100'


2 192

Development of Remedial Options

- Remedial Planning & Conceptual Design
  - Combination of Excavation and Cover/Capping
  - Each Option has different costs
  - Met with EPA and DEP
    - February 28, 2019
    - March 21, 2019
  - Remove >50 PPM, reuse where possible
  - Cover System to eliminate Direct Contact

Conceptual Schedule

- Open Splash Pads
- Evaluate if EPA will conduct a Removal Action
- Develop a Release Abatement Measure (RAM)/Risk Based Cleanup Plan (RBCP)
- Design Plans and Specification
  - Excavation Plan
  - Dewatering if needed
  - End Point Targets
  - Dust and Site Controls
  - Transportation Routes and Disposal Options

Conceptual Schedule

- Construction Administration and Oversight
- Closure Sampling
- Demonstrate No Significant Risk
- Site Closure under State and Federal Regulations
- Conway Park Reconstruction

Summary

- Reviewed the Site History and Regulatory Overview
- Discussed the PIP and PIP Process
- Reviewed the data and update
- Discussed Next Steps
- Questions

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