

EcoTec, Inc.

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To: Dan Behrend
Via email

Date: September 15, 2017

From: Scott Jordan

Re: Wetland Flagging Memorandum, 130-136
Worcester Street, Wellesley,
Massachusetts

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This memorandum including the attached sketch map is provided to EcoTec's client to explain the work that was done and to facilitate locating wetland flags and other identified resources. It is neither intended nor should it be used for any other purpose. This memorandum is not intended to be used as part of a wetland filing; a formal wetland resource evaluation will be provided for that purpose.

Attached is a rough sketch of the wetland flag and boundary locations at the above-referenced property that were delineated on September 14, 2017. In the table below, you will find the flag series numbers, flag type, and wetland types and locations. Locate all of these listed flags, including red test plot flags located near wetland flag A12. These test plot flags will be referenced in our wetland resource evaluation report.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A17 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in or near the southern portion of the site that is associated with a mapped perennial stream.
Start R1 to R9 Stop	Red Flags	Mean Annual High-water Line (MAHWL) of mapped perennial stream located offsite to the south.

The wetland resource areas listed in the table above were delineated in accordance with the Massachusetts Wetlands Protection Act (the "Act"; M.G.L c. 131, § 40) and its implementing regulations (the "Regulations"; 310 CMR 10.00).

FEDERAL WETLANDS

EcoTec has presumed that federal wetland boundaries are conterminous with the delineated Bordering Vegetated Wetlands or Bank. Federal wetland jurisdiction can be determined by the U.S. Army Corps of Engineers ("Corps") upon the filing of a Jurisdictional Determination or through the submittal of an Application for Permit to the Corps.

LOCAL WETLANDS PROTECTION BYLAW

The Town of Wellesley has a wetlands protection bylaw ("Bylaw") and has associated regulations ("Bylaw Regulations"). Provisions include a 25-foot No Disturbance Zone from the wetland edge and a 75-foot Limited Disturbance Zone which includes the remainder of the 100-foot Buffer Zone.

BUFFER ZONE

A 100-foot Buffer Zone extends horizontally outward from the A-series flags under the Regulations and the Bylaw and Bylaw Regulations. The Buffer Zone is considered a resource area under the Bylaw and Bylaw Regulations.

RIVERFRONT AREA

Based upon a review of the current USGS Map, Boston South Quadrangle, dated 1987, there is a stream which may be located within 200 feet of the site. Based upon observations made during the site inspection, there are no additional unmapped streams located on or within 200 feet of the site.

Based upon the stream mapping, the stream would be designated as perennial and would contain a 200-foot Riverfront Area under the Act/Regulations.

BORDERING LAND SUBJECT TO FLOODING (BLSF)

Based upon a review of the Flood Insurance Rate Map, Norfolk County, Massachusetts, Map Number 25021C0028E, Effective Date July 17, there are no mapped Zone A or Zone AE 100-year floodplains located on or near the site. The southern portion of the site is mapped as Other Flood Areas: Zone X, which is defined as areas located within the 0.2% annual chance flood (i.e., 500-year floodplain).

The project engineer should determine the presence and extent or absence of Bordering Land Subject to Flooding on the site. When present, Bordering Land Subject to Flooding would occur in areas where the mapped Zone A / 100-year flood elevation is located outside of or upgradient of the delineated Bordering Vegetated Wetlands (or in the absence of Bordering Vegetated Wetlands, Bank) boundary. Bordering Land Subject to Flooding does not have a 100-foot Buffer Zone under the Regulations, but has a 200-foot Buffer Zone under the Bylaw and Bylaw Regulations.

VERNAL POOLS

Vernal pools are not a resource area under the Act or Regulations; they are simply a type of wildlife habitat that may occur within other wetland resource areas (or even within unregulated uplands). Vernal pools are considered a wetland resource area under the Bylaw and Bylaw Regulations.

Based upon a review of the *Massachusetts Natural Heritage Atlas*, On-line Data Viewer, there are no mapped Certified Vernal Pools on the site. There are no mapped Certified Vernal Pools located within approximately 500 feet of the site. Certified Vernal Pools are Outstanding Resource Waters (“ORWs”) under the Massachusetts water quality regulations.

Based upon a review of the Spring 2001 *Massachusetts Aerial Photo Survey of Potential Vernal Pools*, there are no mapped Potential Vernal Pools on the site. There are no mapped Potential Vernal Pools located within approximately 500 feet of the site.

This mapping information is provided for general information purposes only, and should not be considered definitive regarding the presence or absence of vernal pools.

During the site inspection, an area on the site, within the vicinity of flags R6-R7, that could potentially qualify for certification as a vernal pool pursuant to the March 2009 Guidelines for the Certification of Vernal Pool Habitat were observed on the site. Observations would need to be made in the spring (i.e., mid-March to May) to document the requisite vernal pool biology and hydrology. Off-site observations were not made.

Under the February 4, 2015 Massachusetts General Permits issued by the Army Corps of Engineers under the U.S. Clean Water Act, a discharge of dredge or fill material within a vernal pool depression or the presence of an on-site or off-site (if known) vernal pool within 500 feet of a regulated activity elevates a Self-Verification (SV) eligible project to Pre-Construction Notification (PCN) required project.

RARE SPECIES

Based upon a review of the *Massachusetts Natural Heritage Atlas*, On-line Data Viewer, the site is not located within a mapped Estimated Habitat [for use with the Act and Regulations] and is not located within a mapped Priority Habitat [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00)].

DISCLAIMER

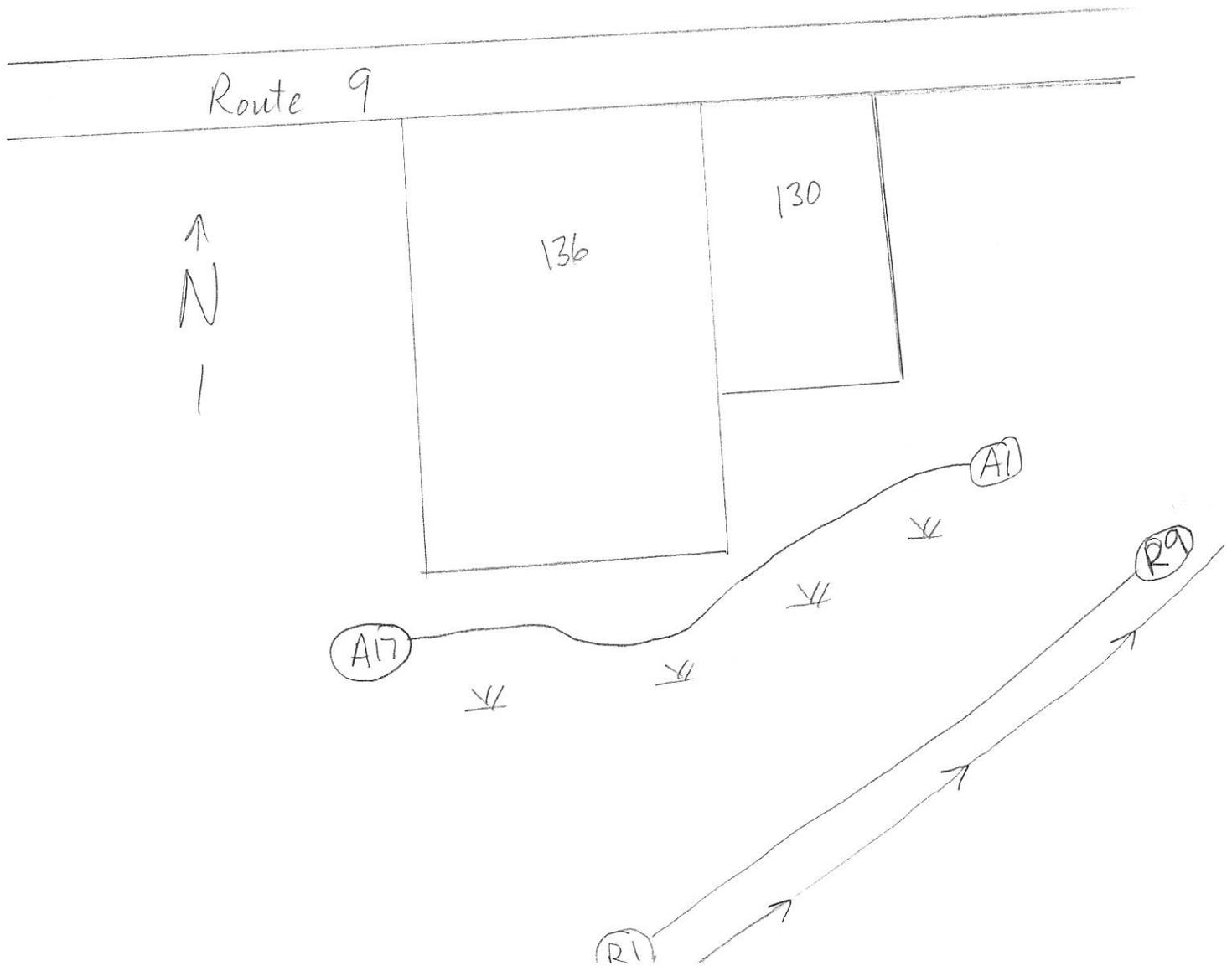
The reader should be aware that the regulatory authority for the determination of wetland jurisdiction rests with local, state, and federal authorities. Please note, that any work on the site, depending upon its scope, proximity to wetlands, and other project specific factors, may trigger the need for permitting under various local, state, and federal statutes.

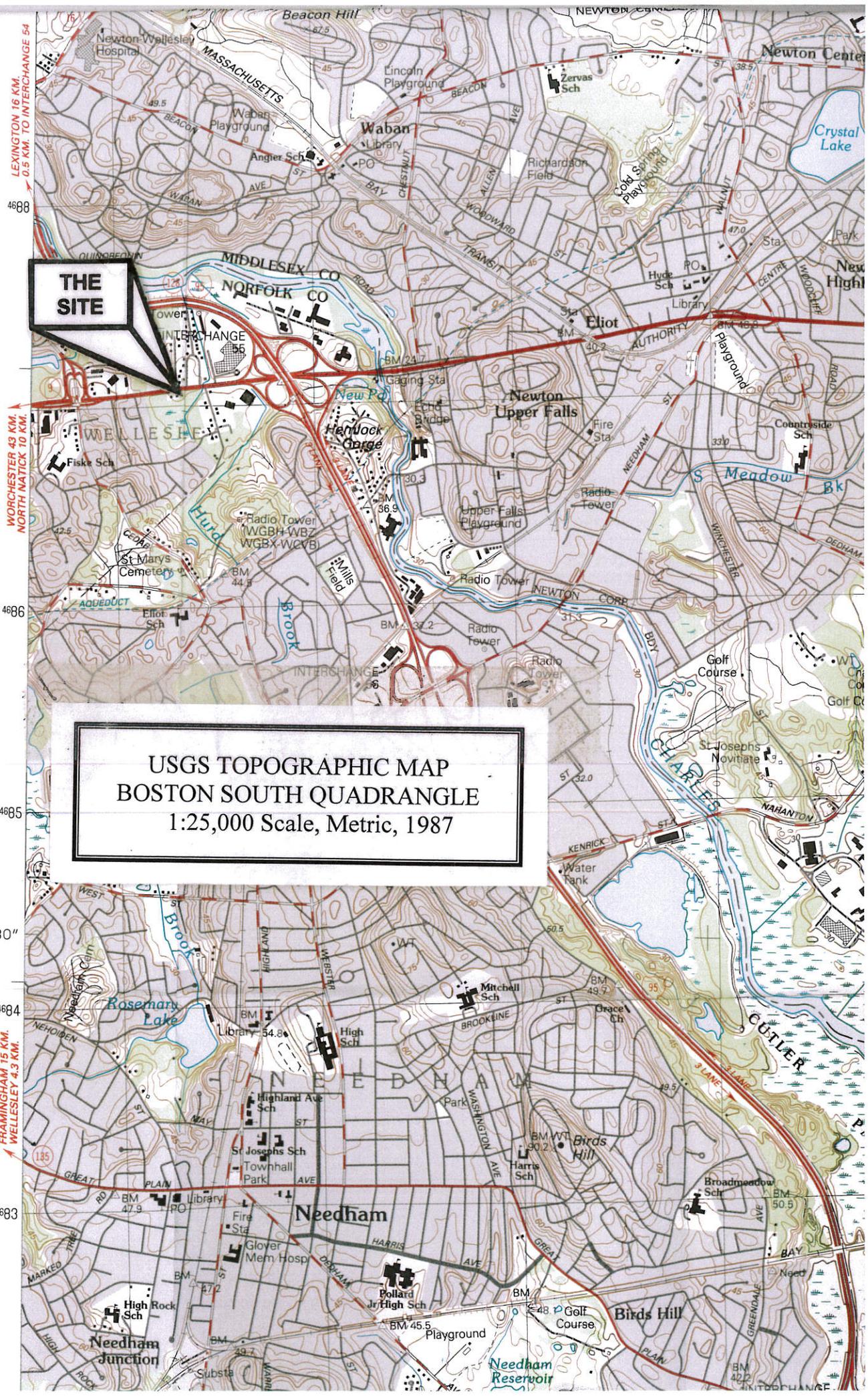
The wetland report will be prepared shortly. If you have any questions, please feel free to contact me at any time.

Wetland Delineation Field Sketch
130-136 Worcester Street, Wellesley
September 15, 2017
Prepared By: EcoTec, Inc.: Scott Jordan

NOT TO SCALE

This sketch is intended to provide a rough location of wetland delineation flags to facilitate field location. It should not be relied upon for any other purpose.





THE SITE

USGS TOPOGRAPHIC MAP
BOSTON SOUTH QUADRANGLE
1:25,000 Scale, Metric, 1987

LEXINGTON 16 KM.
0.5 KM. TO INTERCHANGE 64

WORCHESTER 43 KM.
NORTH WATICK 10 KM.

FRAMINGHAM 15 KM.
WELLESLEY 4.3 KM.

17' 30"

4683

4684

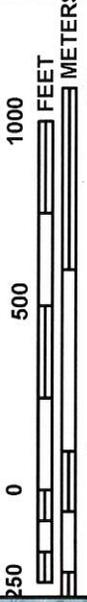
4685

4686

4688



MAP SCALE 1" = 500'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0028E

FIRM
FLOOD INSURANCE RATE MAP
NORFOLK COUNTY,
MASSACHUSETTS
(ALL JURISDICTIONS)

PANEL 28 OF 430
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:			
COMMUNITY	NUMBER	PANEL	SUFFIX
NORFOLK COUNTY	250215	0028	E
WELLESLEY, TOWN OF	250255	0028	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

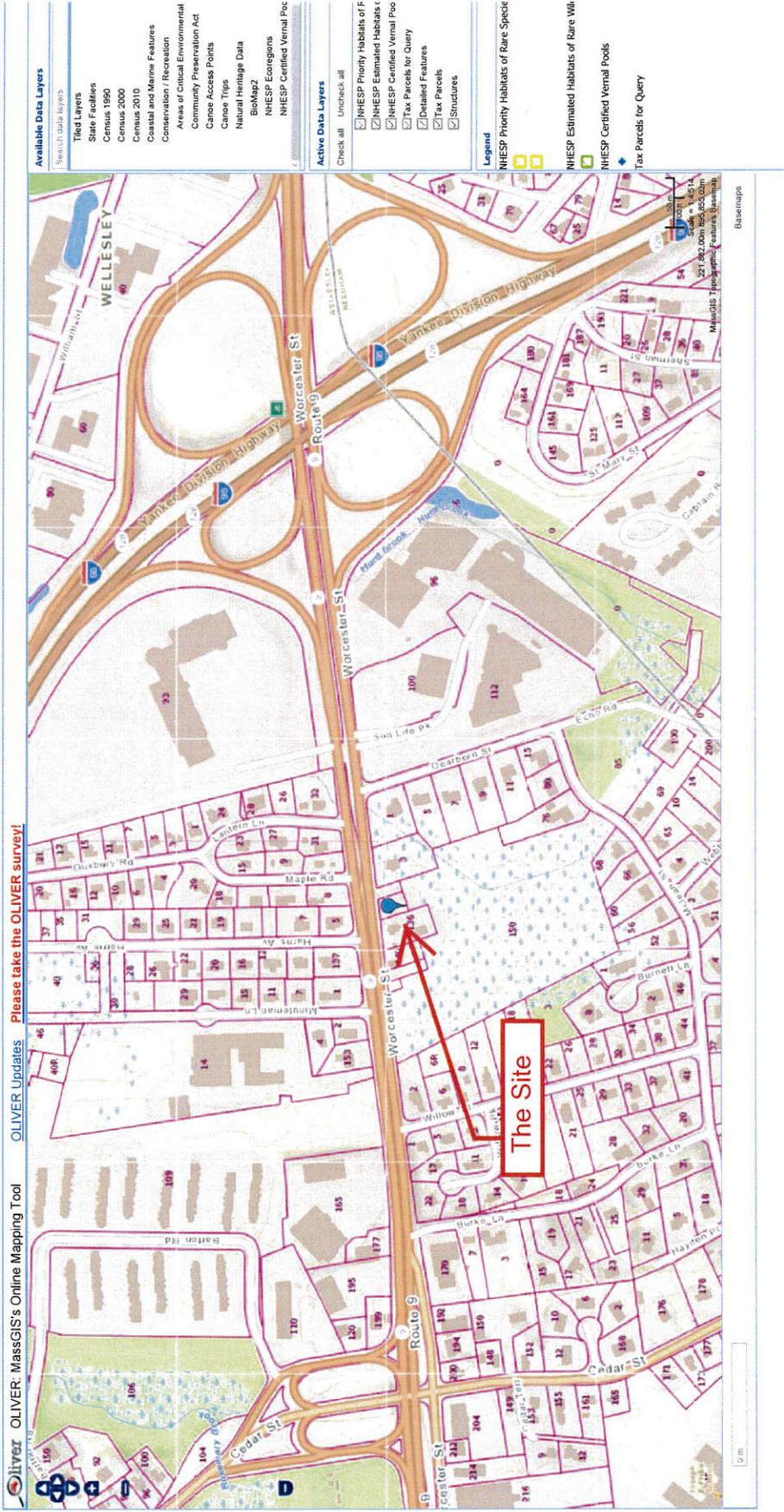


MAP NUMBER
25021C0028E
EFFECTIVE DATE
JULY 17, 2012

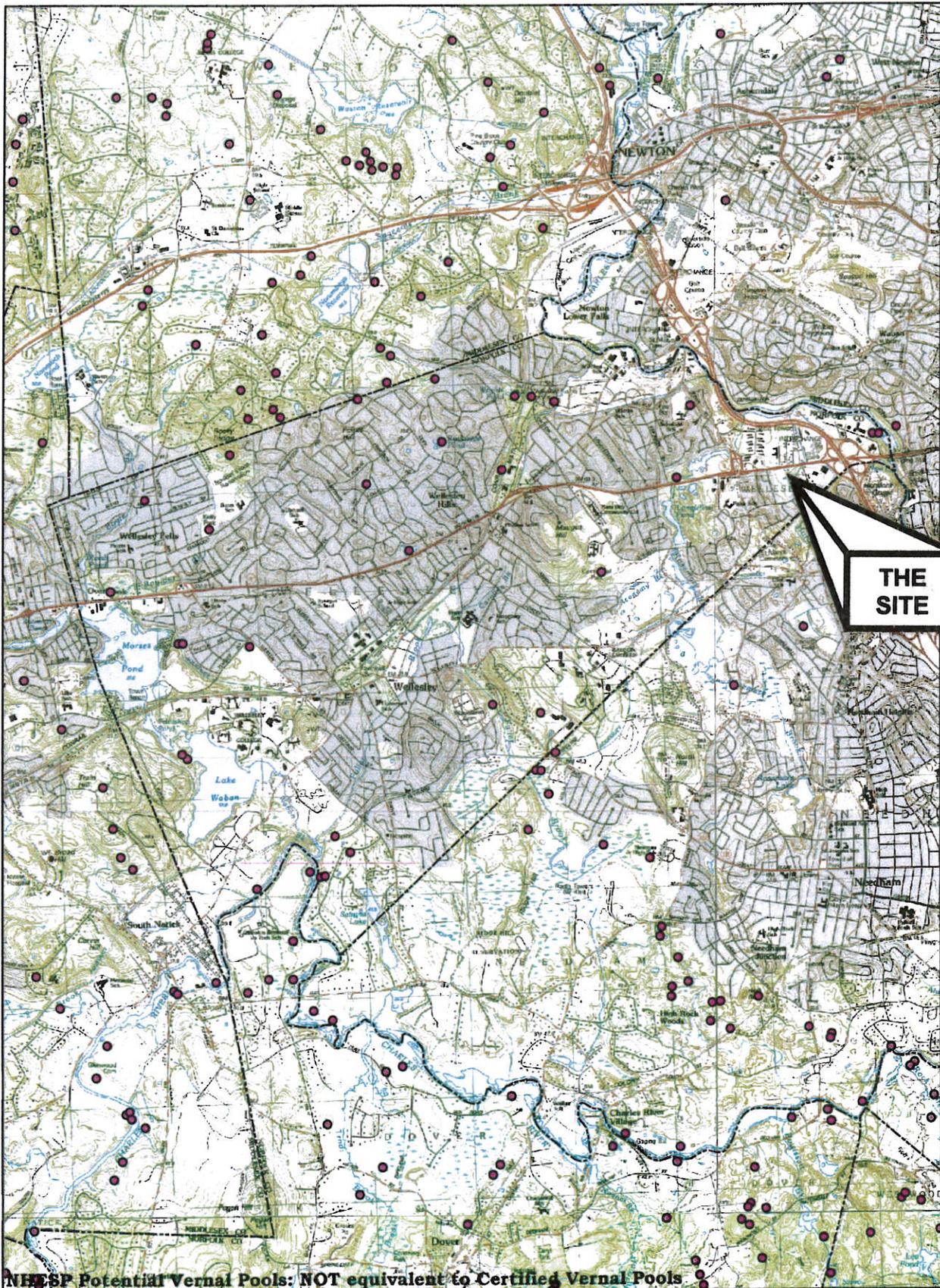
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEIMA Flood Map Store at www.msc.fema.gov





Wellesley Potential Vernal Pools



NHESP Potential Vernal Pools: NOT equivalent to Certified Vernal Pools

12/GIS/VernalPoolMaps/WellesleyPVPs.01.mxd

