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**Project Address:** 100 & 200 Financial Park  
Franklin, MA 02038

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**Date Prepared:** May 11, 2023

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**Project Number:** 22051

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**Prepared for:** Berkeley Partners  
1 Sansome Street, Suite 1500  
San Francisco, CA 94101

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**Prepared by:** **Highpoint Engineering Inc.**  
Dedham Executive Center  
980 Washington Street, Suite 216  
Dedham, MA 02026  
[www.highpointeng.com](http://www.highpointeng.com)

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**FIGURES**

- USGS Map
- FEMA Map
- Soils Map
- NHESP Map
- Critical Areas Map

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**APPENDIX A****Filing Fees**

- WPA NOI Wetland Fee Transmittal Form
- Local Filing Fee Calculation Worksheet
- Fee Checks

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**APPENDIX B****Abutter Information**

- Certified List of Abutters
- Notification to Abutters
- Affidavit of Service
- Certified Mail Slips

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**APPENDIX C****Supporting Information**

- Wetland Resource Report (by Hancock Associates)
  - Stormwater Management Analysis (under separate cover)
  - Site Development Plans (under separate cover)
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May 11, 2023

Mr. Patrick Gallagher, Chairman  
Franklin Conservation Commission  
355 East Central Street  
Franklin, MA 02038

Re: Application for Notice of Intent  
100 & 200 Financial Park – Warehouse/Industrial Development  
Franklin, Massachusetts

Dear Mr. Chairman:

On behalf of our Client, Berkeley Partners (Applicant), Highpoint Engineering Inc. (Highpoint, Agent) is submitting the enclosed Notice of Intent Submission for the project located at 100 & 200 Financial Park in Franklin, MA (the Site), identified on the Assessors' Map as Parcel #312-020-000-000 and #312-020-001-000.

The Applicant requests review by the Town of Franklin Conservation Commission of the Notice of Intent Application for redevelopment of the Project site within buffer zone areas as depicted in the attached documents and definitive plans entitled, "100 Financial Park – Warehouse/Industrial Development" dated May 11, 2023, prepared by Highpoint Engineering, Inc.

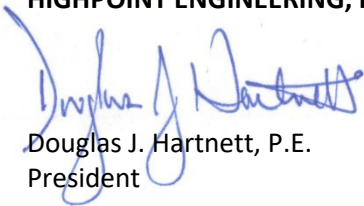
The submission includes the following documentation:

- One (1) original and eight (8) hard copies of Notice of Intent Submission booklet dated May 11, 2023, containing:
  - Cover letter
  - Executive Summary
  - WPA Form 3 – Notice of Intent
  - Resource Area Impact Summary
  - USGS Map
  - FEMA Map
  - Soils Map
  - NHESP Map
  - Critical Areas Map
  - WPA NOI Wetland Fee Transmittal Form
  - Local Filing Fee Calculation Worksheet
  - Fee checks (scanned copies)
  - Certified List of Abutters
  - Notification to Abutters
  - Affidavit of Service
  - Certified Mail Slips (scanned copies)
  - Wetland Resource Report (by Hancock Associates)
- Two (2) hard copies of full-size Site Development Plans, dated May 11, 2023
- Seven (7) hard copies of half-size (11x17) Site Development plans dated May 11, 2023
- Three (3) hard copies of Stormwater Management Analysis, dated May 11, 2023
- One (1) check for \$1,862.50 to Town of Franklin (local bylaw fee and WPA fee – Town Share)

We respectfully request that this project be placed on the next available Conservation Commission agenda. If in the meantime, you should have any questions please contact my office at 781-770-0977.

Sincerely,

**HIGHPOINT ENGINEERING, INC.**

A handwritten signature in blue ink, appearing to read 'Douglas J. Hartnett', written over a faint blue circular stamp.

Douglas J. Hartnett, P.E.  
President

cc: Commonwealth of Massachusetts, DEP, Central Regional Office, Worcester, MA  
Andy Ramirez, Berkeley Partners  
File



**INTRODUCTION**

This narrative summarizes the proposed development of a 220,000± sf flex-warehouse building and 65,000± sf flex-warehouse building expansion at 100 and 200 Financial Park, Franklin, Massachusetts, respectively (the Project). The properties subject to this Site Plan Review Application consists of two lots, Lot 5A and Lot 5GB, owned by ICBP IV Holdings 34, LLC with a total combined area of approximately 51.05 acres. Lot 5A currently supports a 180,500± sf office building that is leased by Marsh & McLennan Companies for a telecommunication data center. Lot 5B currently supports a 65,000± sf warehouse that is leased by Champagne Logistics. Primary site access is off Washington Street with a bituminous driveway that extends through the site providing secondary access to Grove Street. Surface parking lots and utility infrastructure support the buildings and site use.

Assuming all municipal permits and approvals can be obtained for the Project, ICBP IV Holdings 34, LLC will apply for reconfiguration of the lot lines under an 81P - Approval Not Required submission after obtaining the municipal approvals. The lot lines will be reconfigured such that each of the proposed buildings will be on separate lots. The proposed buildings and new lots will be compliant with zoning dimensional requirements after the reconfiguration of the lot lines.

With the exception of a waiver request to reduce the required surface parking, the warehouse development project has been designed in accordance with the Franklin Zoning By-laws (as amended). Given the existing developed nature of the property, topographic limitations, and environmental constraints the Project seeks to meet the design guidance set forth in the Franklin Best Development Practices Guidebook to the extent practicable.

## HISTORY

The property was originally developed in 1980 by Digital Equipment Corporation who constructed the current 180,500± sf office building and 56,000± sf attached warehouse building. A graded building pad for future 60,000± sf warehouse expansion was constructed, as well as surface parking lots and central stormwater management facility that provides both detention and supplemental water source for fire protection. An access driveway bisects the site connecting Washington Street with Grove Street. The work as proposed is shown on plans prepared by The Maguire Group. The property was subsequently sold to Putnam Investments (Putnam).

In 1994 Putnam (currently Marsh & McLennan) obtained Site Plan Approval and an Order of Conditions for construction of a 1,317 space parking lot expansion south of the office building. A Special Permit was also issued for installation of above-ground fuel storage tanks. The record plans and reports prepared by Sasaki Associates indicate that the parking lot expansion and related stormwater management improvements were designed to operate independently from the existing site drainage at that time, and the stormwater management system was designed in accordance with applicable state and local regulations in effect. Approximately 540 (42%) of the approved 1,317 parking spaces were constructed.

In 1995 Putnam obtained Definitive Subdivision Plan Approval from the Planning Board for the creation of Lots 1, 2, and a cul-de-sac.

In 1999 the Conservation Commission issued a Certificate of Compliance to close out the Order of Conditions regulating the parking lot construction and drainage improvements.

In 2015 Franklin Property Owner, LLC purchased the property from the California Teachers Retirement Association.

In 2016 the Conservation Commission issued an Order of Resource Area Delineation approving the locations of the bank of a perennial stream, bordering and isolated vegetated wetlands, and their respective buffer zones.

In 2017 Franklin Property Owner, LLC and Benjamin Franklin Education Foundation, Inc. recorded an Approval Not Required Plan for the subdivision of the property and adjacent vacant lots.

In 2018 Champagne Logistics, the tenant of the 56,000± sf warehouse building, added a 9,000± sf mezzanine inside the building, increasing its gross floor area to 65,000± sf. The breezeway connection between the 180,500± sf office building and warehouse building was also demolished in 2018.

In 2020 ICBP IV REIT Acquisitions, LLC recorded an Approval Not Required Plan for the subdivision of the property into Lots 5A and 5B.

Presently the existing office building is leased and operated as a telecommunications data center. The warehouse building is leased and operated as a logistics warehouse.

**SITE CONDITIONS**

The Project site lies within the Industrial (I) zoning district, the Biotechnology Use Overlay District, and the Water Resource Overlay District. The property includes the existing 180,500± sf office building and 65,000± sf warehouse building with associated surface parking, trailer storage, landscape, stormwater improvements, utilities, and natural wooded open space.

Environmental resource areas include Mine Brook, which flows west to east along the north lot line. Dix Brook, located to the west of the property, flows south to north and discharges at its confluence with Mine Brook. Environmental resource areas located along the periphery of the Project site include perennial stream, bordering/isolated vegetated wetlands, riverfront area, inland bank, and 100-year flood zone associated with Mine Brook. No work is proposed within these environmental resource areas. The Project site also lies within a Zone II public water supply wellhead protection area.

Topography ranges from gently sloping within the previously developed area, to moderate/severe slopes in some of the natural wooded areas.

Soils are generally classified as HSG-A throughout the upland portions of the property based upon the USDA – Soil Conservation Service Soils Atlas for Norfolk County. On-site soil testing conducted via excavated test pits confirmed the presence of A-soils throughout both the higher and lower elevation areas. A groundwater gradient beneath the property has been established through extensive monitoring well readings and reporting associated with the Special Permit monitoring program. The groundwater gradient has been adopted from the exhibit entitled “Groundwater Contour Map, Spring 2010”, prepared by Environmental Health and Engineering, Inc. as provided by the building maintenance manager. Additionally, groundwater levels measured in monitoring wells shown on the exhibit by McArdle Gannon Associates on March 26, 2023, generally correlated with those shown on the exhibit.

**PROPOSED DEVELOPMENT**

The Project includes the demolition of the existing 180,500± sf office building and the construction of a 220,000± sf one-story flex-warehouse building (“Building 1”) and a 65,000± sf one-story flex-warehouse building (“Building 2”) with a shared loading dock/truck court area. The existing 65,000± sf warehouse building (“Building 3”) and associated loading dock will be maintained.

The proposed warehouses are located within developed areas of the property. The footprint falls within portions of the existing northwest parking/trailer storage lots to minimize construction and grading impacts to bordering vegetated wetland and Riverfront buffer zones, as well as reducing grading impacts to steep slopes that face these resource areas. The south parking lot will be maintained and will continue to be used by tenants of the adjacent warehouse building at 300 Financial Park. The remaining portion of the northwest parking/trailer storage lot will be reconfigured and supplemented with new parking lots to the east of proposed Buildings 1 and 2, and to the west of existing Building 3. An additional trailer storage lot is proposed to the south of existing Building 3. The parking areas and access drive alignments have been configured to maximize parking near each of the existing and proposed building entrances while providing a layout that integrates the overall development.

The proposed warehouse buildings are at the same elevation as the existing 180,500± sf office building, requiring significant re-grading along the eastern edge of proposed Building 1 and the shared truck court and at both proposed entrances of Building 1. Re-grading will also be required on the west and south sides of existing Building 3 to accommodate the proposed parking and trailer storage lots. These areas are provided with a minimum 5' shoulder and maximum 3:1 slope grading. No finished grades are proposed below the estimated seasonal high-water table as identified in the referenced Groundwater Contour Map.

Stormwater/Utility Infrastructure:

The stormwater management system within the northwest parking/trailer storage lot and around the existing office and warehouse buildings will be modified and expanded to accommodate the proposed development and reconfigured parking areas. The existing drainage system consists of a traditional catch basin/drain manhole collection system with discharge to the onsite detention pond located to the North of the property. The reconfigured drainage collection system will connect to existing on-site drainage requiring the use of the same catch basin/drain manhole methodology. Rain gardens and Contech hydrodynamic separators will be installed upstream of the on-site drainage connection points to enhance water quality and improve discharges above what is provided today.

Peak flow attenuation is accomplished by stormwater infiltration and controlled outflow via outlet control structure prior to discharge to the existing drainage collection system. Subsurface detention/infiltration basins with outlet control structures will be constructed beneath the shared loading dock/truck court area and the northwest, west, and east parking lots. Building, loading dock, and adjacent parking runoff will be treated, controlled, and discharged to the existing site drainage collection system that flows to an existing detention basin on the northern portion of the site. This basin will provide additional treatment downstream of the proposed stormwater BMP’s. See the Stormwater Management Report for detailed analysis of the drainage collection system.

The sewer collection system will be modified and expanded to accommodate the proposed buildings and replace the existing sewers within the proposed development footprint, which currently remove sewage from Building 3, Benjamin Franklin Classical Charter Public School (BFCCPS), and 300 Financial. The proposed system consists of traditional gravity sewer serving the buildings with discharge to the existing site sewer collector located off the northeast corner of the existing office building. The existing sewer



force main from BFCCPS and the existing gravity sewer from the warehouse building at 300 Financial Park will be modified to discharge into a new manhole to the south of proposed Building 2 and then into a replacement gravity sewer collector which will convey the combined flow from BFCCPS and 300 Financial to the gravity sewer system serving the proposed development. The gravity sewer system will collect sewage from existing Building 3 and proposed Building 2, convey the combined sewage northwards, and then collect sewage from proposed Building 1. This area eventually flows to the Washington Street Sewer Pump station. A sewer capacity study will be coordinated with the Franklin DPW. The recommendations of the study will be shared with the Planning Board when the study is completed.

The water distribution system will consist of an 8" CLDI water/fire protection loop around Building 1 and a 6" CLDI water /hydrant water line around Building 2, each with connections to the existing 16" CLDI water main that extends from Washington Street through the site and into the warehouse building at 300 Financial. Fire hydrants, domestic water, and fire protection services will extend off the new 8" water loop and 6" water/hydrant water line. Details of the water distribution system will be coordinated with the Franklin DPW.

**PROJECT ATTRIBUTES AND MITIGATION**

In addition to the scope of work noted in the Proposed Development section of this narrative, the following project attributes and mitigation are summarized for the Planning Board's consideration:

- **Structures:** After re-configuration of the lot lines, the proposed 220,000± sf warehouse and the proposed 65,000± sf warehouse will reside on Lot 5A and the existing 65,000± sf warehouse will reside on Lot 5B. All existing and new structures will meet applicable dimensional requirements under the Zoning By-laws, after the proposed lot line re-configuration. The Applicant may choose to subdivide the warehouse development project further pending final tenant leasing agreement.
- **Streets:** The existing site driveways on Washington Street and Grove Street will provide access to the project site identical to what occurs under existing conditions. The site driveway will serve as the principal access throughout the site with additional driveways located for vehicular and loading access in the core development area. New public or private rights-of-way are not proposed by the Project.
- **Access:** Access to the site from town streets will be provided as currently exists, with reconfiguration of driveways in the core development area. Access around the site is intended to support tractor trailer, fire/emergency apparatus, and passenger vehicle turning and maneuvering requirements.
- **Parking:** Parking is intended to be shared by tenants of the three warehouse buildings. The limited use of the existing warehouse facility under its current lease, and the projected parking demand for traditional warehouse operations for facilities of the type proposed, result in a parking demand that is much lower than what is required under the Zoning By-law. A waiver to reduce the required number of off-street parking spaces is requested from 350 to 262. New parking configurations meet dimensional requirements for stall size and drive aisle widths.
- **Loading Facilities:** The existing Building 3 loading facilities are unaffected by the project. New shared loading facilities for the 220,000± sf warehouse and 65,000± sf warehouse are designed to accommodate access and maneuvering for WB-67 tractor trailer design vehicles.
- **Trailer Storage:** The existing trailer storage area will be reconfigured and supplemented with an additional trailer storage lot to the south of existing Building 3. A small portion of the proposed shared loading facilities will also be dedicated to trailer storage. The ratio of trailer storage spaces to loading dock spaces in the shared loading area will be determined by tenant requirements.
- **Solid Waste Management:** The existing Building 3 warehouse solid waste management is unaffected by the proposed development. Solid waste management for proposed flex-warehouses (Buildings 1 and 2) in the form of refuse storage areas, containers, compactors, and other materials handling will be dictated by tenant requirements and located within the designated loading dock areas. Final locations of these facilities will be included on site plans submitted for building permit in conformance with the Zoning By-laws. Hazardous materials storage and handling is not anticipated at this time.
- **Landscape and Screening:** Landscape islands and tree quantities proposed within the parking fields are provided in accordance with the zoning by-laws. Landscape materials selection has been made with reference to the Franklin Best Development Guidebook. The existing and developed areas are located within the middle core of the campus with significant distance from adjacent industrial and residential areas. The development has been designed to maintain to the extent

practicable existing hills and natural vegetation to provide screening as viewed from Washington Street.

- Signage: Identity and wayfinding signage will be designed in accordance with the Signage Regulations of the Zoning By-laws.
- Traffic: See attached Traffic Impact and Access Study for analysis and conclusions.

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## RESOURCE AREA IMPACT SUMMARY

See Appendix C for the Wetland Delineation Report by Hancock Associates. Resource areas discussed in the report include the following:

- Riverfront associated with the Mean High Water of Dix Brook, a perennial stream.
- Bordering vegetated wetland (BVW) associated with Dix Brook west of the development site.
- Bordering/isolated vegetated wetland (BVW/IVW) associated with depressions located along Washington Street.
- Inland Bank associated with the detention basin/fire pond and the inland bank associated with Spring Pond
- Bordering Land Subject to Flooding with the FEMA mapped Zone AE 100-year floodplain on the property designated at elevation 241.4'.
- Wetlands F, G, H, J/K, and N are all NHSEPH mapped vernal pools with Wetland M and P identified to contain potential vernal pool habitat based on the observed physical properties.

The proposed development will result in minor impacts to the 100' Buffer Zones of the noted BVW's. Buffer Zone impacts include the following.

- The buffer zone associated with the BVW F and vernal pool located southeast along Washington Street is partially developed by a portion of the paved parking lot, site grading and utility services. A proposed area of disturbance of approximately 11,845 sf is located generally within existing disturbed areas. No new stormwater discharges are proposed to this area.
- The buffer zone associated with the BVW L for the detention basin/fire pond located at the norther portion of the site is impacted by a portion of the paved parking lot, site grading and utility services. A proposed area of disturbance of approximately 52,000+/- sf is located generally within existing disturbed areas. Overall impervious area will be decreased in this area for the proposed conditions. Also, much of the existing lawn area will be reseeded with a wetland mix.
- The buffer zone associated with IVW M located to the west of Financial Park the existing road will be impacted by grading associated with the proposed raingardens for the project. Overall impervious area will be decreased in this area for the proposed conditions. The disturbed area within the buffer is approximately 3,360 +/- sf. No new stormwater discharges are proposed to this area.
- The buffer zone associated with BVW K is located to the west of Financial Park the existing road and will be impacted by proposed grading and a small portion of a proposed parking lot. The

disturbed area within the buffer is approximately 8,235 +/- sf. No new stormwater discharges are proposed to this area.

Refer to the Resource Area Impact Summary Chart, attached, for total area impacts to the resource areas located adjacent to the development area.



**Town of Franklin Conservation Commission**

**RESOURCE AREA IMPACT SUMMARY FORM**

**The Franklin Wetlands Protection Bylaw  
Franklin Town Code Section 181**

<b>Resource Area</b>	<b>Alteration Proposed</b>	<b>Mitigation Proposed</b>
Bordering Vegetated Wetland (SF)	0 sf	-
Bank (LF)	0 sf	-
Land Under Water Bodies (SF)	0 sf	-
Isolated Wetland (SF)	0 sf	-
Vernal Pool (SF)	0 sf	-
Buffer Zone (SF)	<b>67,600 sf</b>	<b>N/A</b>
Riverfront (SF)	0 sf	-
100-Year Floodplain (CF)	0 sf	-
(SF) = Square Feet (LF) = Linear Feet (CF) = Cubic Feet Flood Storage		

Wetland Series F, G, H, J/K, and N are identified as a Natural Heritage & Endangered Species Program (NHESP) potential vernal pool. No survey of these resource areas have been conducted to date. The project proposes approximately 15,914 sf of disturbance within the buffer zone to the potential vernal pools. The majority of the disturbance will take place within the existing disturbed areas. The project proposes to reconfigure the parking lot adjacent to these potential vernal pools which will result in reducing the impervious cover by approximately 10,325 sf. The reduction of the impervious cover within the buffer will improve the buffer zone with respect to existing conditions.

Refer to the Wetland Delineation Report by Hancock Associates provided in Appendix C for additional information on the Vernal Pools.

This statement will describe the proposed project will affect the functions and characteristic of the floodplains and wetlands adjacent to the site by addressing the following topics:

- **Public Water Supplies:** The proposed project is located approximately 1,000 linear feet from the nearest public well, #2101000-06G. The stormwater management system designed for the development will collect runoff generated by the new impervious surfaces and convey it to either a Contech CDS® or Contech Cascade® Water Quality Inlet or biofiltration areas before discharging into the existing detention pond or underground detention/infiltration systems. The public well will not be adversely affected by the development because the water quality inlets, biofiltration areas, and underground detention/infiltration systems have been sized to provide the required water quality pretreatment based on one-inch water quality depth prior to infiltration.

The site is served by municipal sewer. No privately owned wastewater treatment works or ground disposal sites are proposed for the project.

- **Private Water Supplies:** The proposed project is approximately 5,000 linear feet away from a private well located at 8 Washington Street. Water quality improvements are proposed as part of the project in conformance with the Massachusetts Stormwater Management Handbook. Due to the significant distance the project will not adversely affect the private water supply.

The site is served by municipal sewer. No privately owned wastewater treatment works or ground disposal sites are proposed for the project.

- **Groundwater:** Review of the Groundwater Contour Map, dated June 23, 2010, prepared by Environmental Health and Engineering, Inc. and results of test pits and well readings performed by McArdle Gannon in March 2023, indicate that the depth to groundwater on site is approximately 5' – 8' deep. A minimum of 2.5' of separation is provided between the bottom of the proposed infiltration systems and the estimated seasonal high groundwater table (ESHGWT). For earthwork activities, maximum cut is within 3' of the ESHGWT. No excavations will take place within the ESHGWT during construction.
  - **Flood Control:** No construction activities will take place within the 100-Year flood plain.
  - **Erosion and Sedimentation:** Erosion and sedimentation control for construction activities has been addressed through the details and notes shown of Soil Erosion & Sedimentation Control Plan and as outlined in the Construction Phase Operation and Maintenance Plan included in Appendix D of the Stormwater Management Report. Refer to the Long-Term Operation and Maintenance Plan included in the Stormwater Management Report for post-construction details and schedules.
  - **Storm Damage Prevention:** The project proposes to maintain a minimum 25-foot deep natural wooded buffer adjacent to the BVWs/IVWs existing around the development. This wooded buffer will provide protection to the wetlands from strong winds during large storm events. Soil erosion and sedimentation controls will be installed and maintained to minimize potential sediment transport or uncontrolled sediment deposition associated with storm runoff.
  - **Water Quality:** During construction a temporary sediment basin will be created on site, to collect and treat runoff prior to releasing it toward the BVWs. All existing and new catch basin will be
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installed with a SiltSack® Inlet Protection Device to help remove sediments from runoff before entering the collections system. The limit of work will be protected by a silt fence/ hay bale line or straw wattles to prevent sediment from impacting sensitive environmental areas. Post-Construction, runoff collected from the development site will received water quality treatment through Contech CDS® or Contech Cascade® Water Quality Inlets or biofiltration areas. The water quality BMPs have been designed to meet the requirements of the Massachusetts Stormwater Handbook.

- Water Pollution Control: During construction, the installation of the SiltSack® Inlet Protection Device and the temporary sediment basin will assist in removing fines and sediment for the runoff prior to discharge. A materials handling plan will be established prior to the start of construction, to keep potentially contaminated materials away from the stormwater collection system including instructions on spill prevention and clean-up. After construction, the property manager shall issue periodic reminders to the building tenants to avoid dumping or releasing pollutants into the catch basins or onto the ground. Periodic street sweeping of the paved area and scheduled maintenance of the stormwater BMPs will help prevent water pollution.
  - Fisheries: The project proposes no adverse impacts to fisheries.
  - Shellfish: Not Applicable.
  - Wildlife Habitat: The project design seeks to minimize impact to open space and natural wooded areas by consolidating the development as close to the core of the existing development as possible. Potential wildlife corridors connecting resource area, riverfront area, and upland areas will be maintained by not creating physical barriers such as fences and gates between these areas. Mature tree canopy and vegetative understory within the riverfront and adjacent upland areas will be maintained to the extent possible. Potential vernal pool habitats and areas within 100' of these sites will be improved by reducing existing impervious cover.
  - Rare Species Habitat: No rare species habitat exists within the limits of the development site based on review of the 2023 Priority and Estimated Habitat layers by NHESP.
  - Agriculture: The proposed development is located within the Industrial Zoning District over a mile away from any agricultural activities.
  - Aquaculture: Not Applicable.
  - Recreation: The development site is located across the street from an existing baseball field southwest of the property. The project limits are on the south side of Financial Park. Activities from the project site will not impact the existing recreation field.
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The Project seeks to avoid, minimize, and mitigate impacts to environmental resource areas and their related buffer zones. The development seeks to accomplish mitigation goals of the Wetland Protection By-law this in the following manner:

1. There are no impacts to environmental resource areas as defined in the Massachusetts Wetlands Protection Act (WPA).
2. Building, parking, loading, and access have been oriented in a manner to consolidate site development into a “core area”, a portion of which has been previously developed. This includes reconfiguration of existing surface parking and reconstruction of drainage collection facilities to accommodate the development program.
3. Alteration of the Potential Vernal Pool (PVP) resource area regulated under the Franklin Wetland Protection By-law (100’ from Annual Mean High Water) is generally limited to existing disturbed paved and maintained landscape areas. The Project proposes to reduce the impervious area footprint.
4. Alteration of the resource area buffer zones is approximately 67,600 sf. This area includes portions of the previously developed site, maintained landscape areas, and natural wooded area. Where buffers extend into the developed site access driveways are aligned to maximize distance from the resource area and minimize impacts to the buffer. Where possible pavement has been removed from within the buffer zone. Landscape areas will be permanently stabilized. Fences or permanent barriers will not be installed in an effort to maintain wildlife corridors within the buffer zone and adjacent upland areas



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 3 – Notice of Intent**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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MassDEP File Number

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Document Transaction Number

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City/Town

**Important:**  
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:  
 Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

**A. General Information**

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>100 &amp; 200 Financial Park</u>	<u>Franklin</u>	<u>02038</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>312</u>	<u>42.06256</u>	<u>-71.41739</u>
f. Assessors Map/Plat Number	d. Latitude	e. Longitude
	<u>020-000 and 020-001</u>	
	g. Parcel /Lot Number	

2. Applicant:

<u>Brendan</u>	<u>Pellerin</u>	
a. First Name	b. Last Name	
<u>Berkeley Partners</u>		
c. Organization		
<u>1 Washington Mall   Suite 701</u>		
d. Street Address		
<u>Boston</u>	<u>MA</u>	<u>02108</u>
e. City/Town	f. State	g. Zip Code
<u>(802) 353-2523</u>	<u>bpellerin@berkeleypartners.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant):  Check if more than one owner

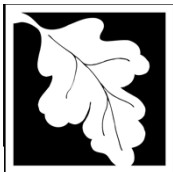
<u>Matt</u>	<u>Novak</u>	
a. First Name	b. Last Name	
<u>ICBP IV Holdings 34, LLC c/o Berkeley Partners</u>		
c. Organization		
<u>1111 Broadway   Suite 1670</u>		
d. Street Address		
<u>Oakland</u>	<u>CA</u>	<u>94607</u>
e. City/Town	f. State	g. Zip Code
<u>(415) 450-1762</u>	<u>mnovak@berkeleypartners.com</u>	
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Douglas</u>	<u>Hartnett, PE</u>	
a. First Name	b. Last Name	
<u>Highpoint Engineering Inc.</u>		
c. Company		
<u>980 Washington Street   Suite 216</u>		
d. Street Address		
<u>Dedham</u>	<u>MA</u>	<u>02026</u>
e. City/Town	f. State	g. Zip Code
<u>781-770-0977</u>	<u>dhartnett@highpointeng.com</u>	
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$2,050.00</u>	<u>\$1,012.50</u>	<u>\$1,037.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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MassDEP File Number

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Document Transaction Number

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City/Town

## A. General Information (continued)

### 6. General Project Description:

The Project proposes the demolition of the existing 183,300 sf footprint office building and construct two new warehouse/industrial buildings with a total building footprint of 236,500 sf. Project improvements include new paved parking lots, drive aisles, and loading docks providing access to both new and existing buildings. New and renovated landscape, upgraded utilities and drainage are

### 7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1.  Single Family Home
- 2.  Residential Subdivision
- 3.  Commercial/Industrial
- 4.  Dock/Pier
- 5.  Utilities
- 6.  Coastal engineering Structure
- 7.  Agriculture (e.g., cranberries, forestry)
- 8.  Transportation
- 9.  Other

### 7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1.  Yes  No      If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

#### 2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

### 8. Property recorded at the Registry of Deeds for:

Norfolk

a. County

36923

c. Book

b. Certificate # (if registered land)

217

d. Page Number

## B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1.  Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2.  Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 3 – Notice of Intent**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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MassDEP File Number

---

Document Transaction Number

---

City/Town

**B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)**

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet _____	2. square feet _____
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____	2. square feet _____
	3. cubic yards dredged _____	

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____	2. square feet _____
	3. cubic feet of flood storage lost _____	4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____	
	2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - <b>specify coastal or inland</b> _____	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: \_\_\_\_\_ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet \_\_\_\_\_ b. square feet within 100 ft. \_\_\_\_\_ c. square feet between 100 ft. and 200 ft. \_\_\_\_\_

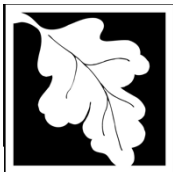
5. Has an alternatives analysis been done and is it attached to this NOI?  Yes  No

6. Was the lot where the activity is proposed created prior to August 1, 1996?  Yes  No

3.  Coastal Resource Areas: (See 310 CMR 10.25-10.35)

**Note:** for coastal riverfront areas, please complete **Section B.2.f.** above.





Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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MassDEP File Number

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Document Transaction Number

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City/Town

**B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)**

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	
	_____	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	_____	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4.  Restoration/Enhancement  
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

_____	_____
a. square feet of BVW	b. square feet of Salt Marsh

5.  Project Involves Stream Crossings

_____	_____
a. number of new stream crossings	b. number of replacement stream crossings



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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MassDEP File Number

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Document Transaction Number

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City/Town

## C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

### Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to [http://maps.massgis.state.ma.us/PRI\\_EST\\_HAB/viewer.htm](http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm).

a.  Yes     No    **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program  
Division of Fisheries and Wildlife  
1 Rabbit Hill Road  
Westborough, MA 01581**

2023  
b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

c. Submit Supplemental Information for Endangered Species Review\*

1.  Percentage/acreage of property to be altered:
  - (a) within wetland Resource Area \_\_\_\_\_ percentage/acreage
  - (b) outside Resource Area \_\_\_\_\_ percentage/acreage
2.  Assessor's Map or right-of-way plan of site

2.  Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work \*\*
  - (a)  Project description (including description of impacts outside of wetland resource area & buffer zone)
  - (b)  Photographs representative of the site

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

\*\* MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.





Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

**WPA Form 3 – Notice of Intent**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File Number
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City/Town

**Online Users:**  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

**C. Other Applicable Standards and Requirements (cont'd)**

- 4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?  
 a.  Yes  No      If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.  
 b. ACEC

---

- 5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?  
 a.  Yes  No
- 6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?  
 a.  Yes  No
- 7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?  
 a.  Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
  - 1.  Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
  - 2.  A portion of the site constitutes redevelopment
  - 3.  Proprietary BMPs are included in the Stormwater Management System.
 b.  No. Check why the project is exempt:
  - 1.  Single-family house
  - 2.  Emergency road repair
  - 3.  Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

**D. Additional Information**

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

**Online Users:** Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1.  USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2.  Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.





Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

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MassDEP File Number

---

Document Transaction Number

---

City/Town

## F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

DocuSigned by: <i>Brendan Pellerin</i>	5/3/2023
DocuSigned by: DD7AC48D2183478	2. Date 5/3/2023
1. Signature of Applicant <i>[Signature]</i>	
E210A7A9EC5A489 3. Signature of Property Owner (if different) Douglas Hartnett <small>Professional Engineer License No. 2022510115136400</small>	4. Date 05/11/2023
5. Signature of Representative (if any)	6. Date

### For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

### For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

### Other:


If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

## Town of Franklin Conservation Commission

### PROPERTY ACCESS SIGNATURE FORM

I hereby request that the Franklin Conservation Commission review this NOI/RDA/ANRAD application. I (we) grant authority to the Franklin Conservation Commission members and agents to go onto my (our) property solely for purposes directly related to the inspection and approval of this application and for follow-up compliance with the permit conditions.

DocuSigned by:  


Signature of Property Owner

5/10/2023

Date



## Town of Franklin Conservation Commission

### APPLICATION PROCESS SIGNATURE FORM

There are three different applications that can be submitted to undertake work in a jurisdictional area: a Notice of Intent (NOI), a Request for Determination (RDA) and a Minor Buffer Zone Activity (MBZA). All three applications have different criteria for submission and approval and the NOI and RDA are governed by both the state law and the local bylaw. The MBZA is issued under the local bylaw only.

When a potential applicant requests advice from the Conservation Agent on which application to file, the opinion of the Agent is based on the information given by the potential applicant and any other information available to the Agent, e.g. the town's GIS system. The Agent has no legal right to go onto private property at any time until after an application is filed or permission of the property owner is given.

It is important that all applicants understand that after an application is filed, additional information may come to light e.g. via a field inspection or a review of the application, that may impact the scope of the submitted application and the approval process. **Therefore, it is the ultimate responsibility of the applicant to decide which application to file.**

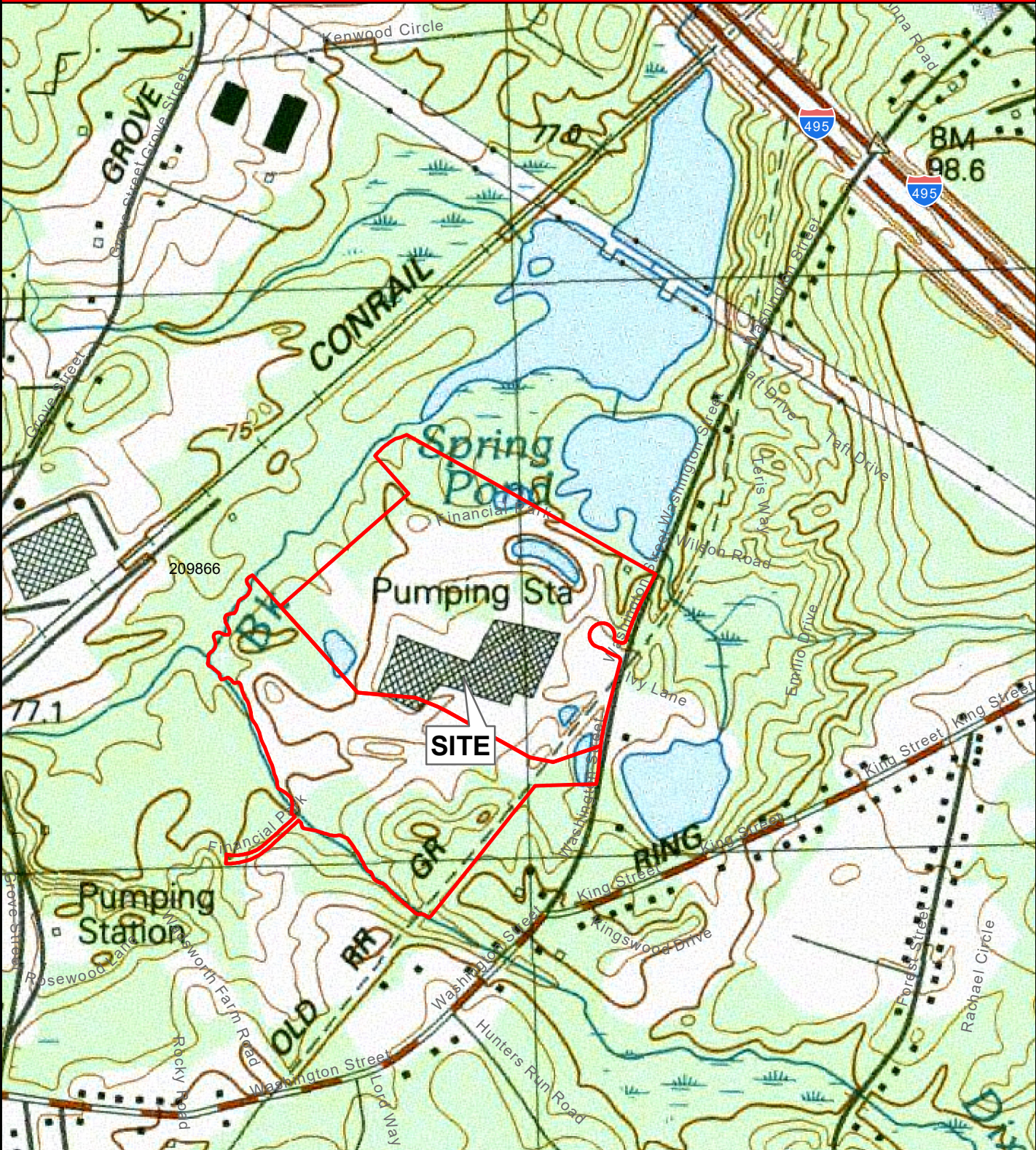
In light of the above, please sign below indicating an understanding of this policy and submit it with the application.

DocuSigned by:  
  
EZ10A4A9EC3A489...  
\_\_\_\_\_  
Signature of Property Owner

5/10/2023  
\_\_\_\_\_  
Date

**FIGURES**





Source: Office of Geographic and Environmental Information (MassGIS); Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs; NearMap Ltd./NearMap US, Inc.



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 CONSULTING


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 980 WASHINGTON ST., SUITE 216  
 DEDHAM, MA 02026

[www.HighpointEng.com](http://www.HighpointEng.com)

**USGS MAP**

**100 & 200 Financial Park  
 Franklin, MA 02038**

**2/7/2023**



0      410      820      1,640 Feet

1 in = 800 ft





**LEGEND**

**MassDOT Roads**

**Road Type**

- Major Road, Collector
- Minor Road, Arterial
- ▭ Level III Assessors Parcels
- ▭ Flood Zone A
- ▭ Flood Zone AE
- ▭ Flood Zone X
- ▭ Subject Property

Source: Office of Geographic and Environmental Information (MassGIS); Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs; NearMap Ltd./NearMap US, Inc.



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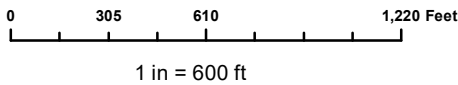
DEDHAM EXECUTIVE CENTER  
 980 WASHINGTON ST., SUITE 216  
 DEDHAM, MA 02026

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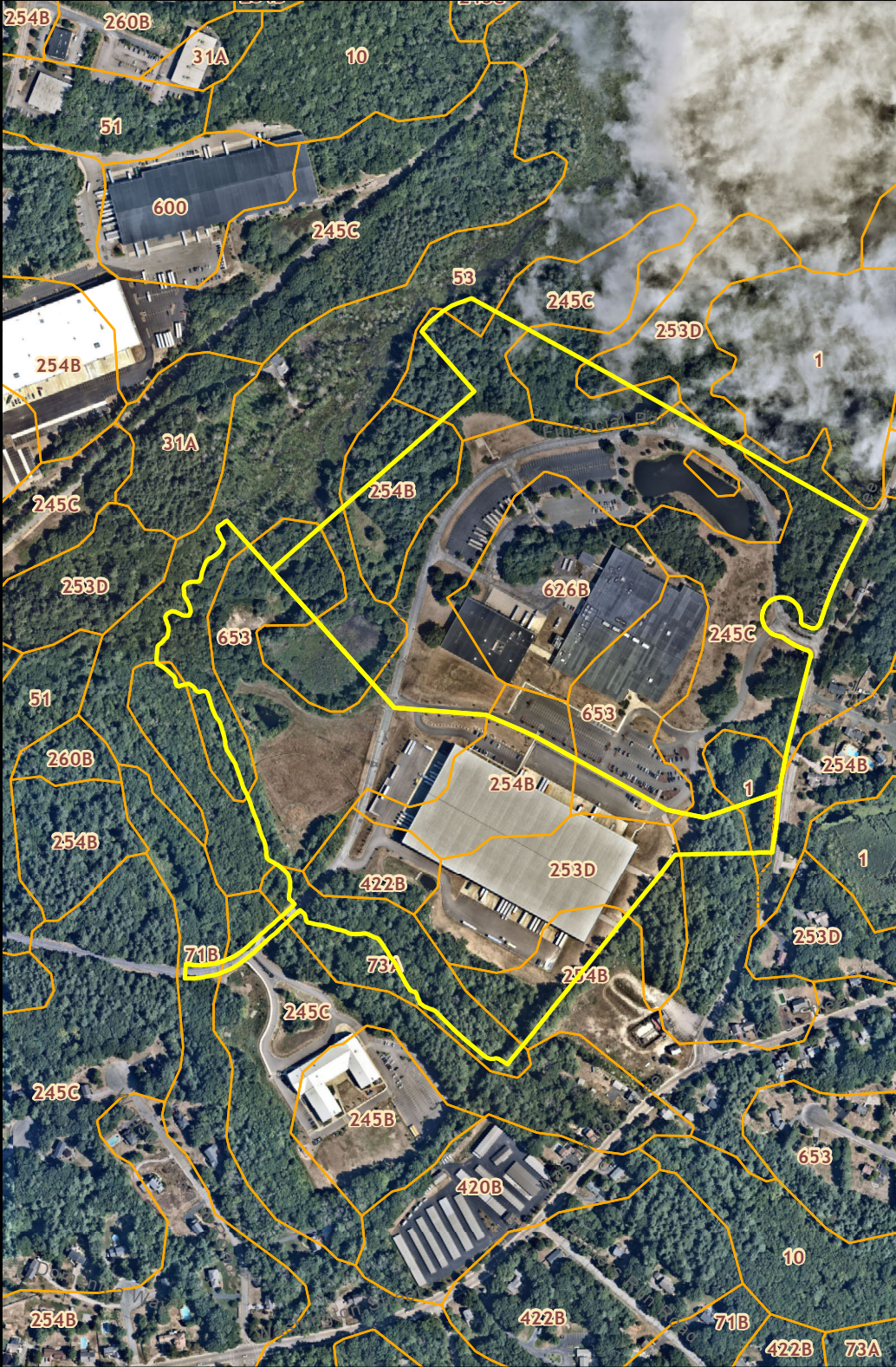
**FEMA FLOOD MAP**

**100 & 200 Financial Park  
 Franklin, MA 02038**

**2/8/2023**





**LEGEND**

- Town Boundary
- Soils

**MassDOT Roads**

**Road Type**

- Multi-lane Hwy, not limited access
- Other Numbered Highway
- Major Road, Collector
- Minor Road, Arterial
- Subject Property

**SOIL SUMMARY:**

- 653-Udorthents, Sandy (HSG: A)
- 71B-Ridgebury Fine Sandy Loam, 3-8% Slopes (HSG: D)
- 73A-Whitman Fine Sandy Loam 0-3% Slopes (HSG: D)
- 422B-Canton Fine Sandy Loam 0-8% Slopes (HSG:B)
- 245B-Hinckley Loamy Sand 3-8% Slopes (HSG:A)
- 254B-Merrimac Fine Loamy Sand 3-8% Slopes (HSG:A)
- 253D-Hinckley Loamy Sand 15-35% Slopes (HSG:A)
- 626B-Merrimac-Urban Land Complex 0-8% Slopes (HSG: A)
- 53-Freetown Muck 0-1% Slopes (HSG: B/D)
- 245C-Hinckley Loamy Sand 8-15% Slopes (HSG:A)
- 1- Water

Source: United States Department of Agriculture Natural Resources Conservation Service

Source: Office of Geographic and Environmental Information (MassGIS); Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs; NearMap Ltd./NearMap US, Inc.



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**SOILS MAP**

**100 Financial Park  
 Franklin, MA 02038  
 City/Town, MA ZIP**

**2/7/2023**



0 305 610 1,220 Feet

1 in = 600 ft





**LEGEND**

- Town Boundary
- MassDOT Roads**
- Road Type**
- Major Road, Collector
- Minor Road, Arterial
- ⊙ Potential Vernal Pools
- Subject Property
- ▭ Level III Assessors Parcels

**Notes:**

No NHESP habitats are located on the property.

Source: Office of Geographic and Environmental Information (MassGIS); Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs; NearMap Ltd./NearMap US, Inc.



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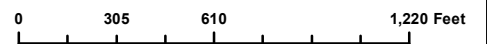
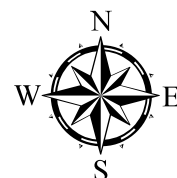
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DEDHAM, MA 02026

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**NHESP MAP**

**100 & 200 Financial Park  
Franklin, MA 02038**

**2/8/2023**



1 in = 600 ft





- LEGEND**
- Subject Property
  - MA DFW Coldwater Fisheries Resources
  - MassDOT Roads**
  - Road Type**
  - Major Road, Collector
  - Minor Road, Arterial
  - Town Boundary
  - Level III Assessors Parcels
  - Community Groundwater Source

**NOTES:**

Entire Subject Property is located within Wellhead Protection Area DEP Approved Zone II

Source: Office of Geographic and Environmental Information (MassGIS); Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs; NearMap Ltd./NearMap US, Inc.



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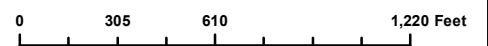
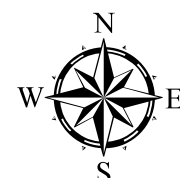
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## CRITICAL AREA MAP

**100 & 200 Financial Park  
Franklin, MA 02038**

**2/8/2023**



1 in = 600 ft



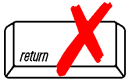
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**APPENDIX A – FILING FEES**



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**NOI Wetland Fee Transmittal Form**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**Important:** When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



**A. Applicant Information**

1. Location of Project:

100 & 200 Financial Park  
 a. Street Address Franklin  
 b. City/Town  
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Brendan Pellerin  
 a. First Name b. Last Name  
 Berkeley Partners  
 c. Organization  
 1 Washington Mall | Suite 701  
 d. Mailing Address  
 Boston MA 02108  
 e. City/Town f. State g. Zip Code  
 (802) 353-2523 bpellerin@berkeleypartners.com  
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

Matt Novak  
 a. First Name b. Last Name  
 ICBP IV Holdings 34, LLC c/o Berkeley Partners  
 c. Organization  
 1111 Broadway | Suite 1670  
 d. Mailing Address  
 Oakland CA 94607  
 e. City/Town f. State g. Zip Code  
 (415) 450-1762 mnovak@berkeleypartners.com  
 h. Phone Number i. Fax Number j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

**B. Fees**

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

**Step 1/Type of Activity:** Describe each type of activity that will occur in wetland resource area and buffer zone.

**Step 2/Number of Activities:** Identify the number of each type of activity.

**Step 3/Individual Activity Fee:** Identify each activity fee from the six project categories listed in the instructions.

**Step 4/Subtotal Activity Fee:** Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

**Step 5/Total Project Fee:** Determine the total project fee by adding the subtotal amounts from Step 4.

**Step 6/Fee Payments:** To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



**Town of Franklin Conservation Commission**

**LOCAL FILING FEE CALCULATION WORKSHEET**

**1. NOTICE OF INTENT (NOI)**

**1.1. New Individual Single Family Home (SFH)** \$200.00 \_\_\_\_\_  
This includes all projects associated with a SFH

**1.2. Work Associated with Existing Residential Property** \$50.00 \_\_\_\_\_  
Above-ground pools, fences or other incidental projects involving land disturbance that are not covered by the MBZA

**1.3. Control of Nuisance Vegetation** \$50.00 \_\_\_\_\_  
This category shall not apply to any non-natural deposition of material e.g. vegetative debris

**1.4. Subdivisions**

Base Fee \$600.00 \_\_\_\_\_  
Infrastructure in Buffer Zone **or** Resource Area  
Roads \_\_\_\_\_ linear feet x \$2.00 = \_\_\_\_\_  
\*Drainage Structures \_\_\_\_\_ X \$10.00 each = \_\_\_\_\_  
Wetland Resource Area Disturbed \_\_\_\_\_ square feet x \$0.50= \_\_\_\_\_

(If single family homes are proposed as part of a subdivision application, for each house in jurisdiction, individual NOI fees will apply.)

**1.5. Multifamily Dwellings, including Condominium Units:**  
\_\_\_\_\_ MFDU x \$100.00 \_\_\_\_\_

**1.6. Commercial/Industrial**

Base Fee \$600.00 \$600.00  
Infrastructure in Buffer Zone **or** Resource Area

Roads	<u>0</u>	linear feet x \$2.00	=	_____
*Drainage Structures	<u>10</u>	X \$10.00 each	=	<u>\$100.00</u>
Wetland Resource Area Disturbed	<u>0</u>	square feet x \$0.50	=	_____
Buildings	<u>1</u>	X \$125 each	=	<u>\$125.00</u>
All Accessory Improvements		\$100.00	=	_____

**2. REQUEST FOR DETERMINATION (RDA)** \$100.00

**3. MINOR BUFFER ZONE ACTIVITY (MBZA)** \$50.00

**4. ABBREVIATED NOTICE OF RESOURCE AREA DETERMINATION (ANRAD)**

\$0.50/foot/resource area: = \_\_\_\_\_

**5. OTHER PERMITS/SERVICES**

Order of Conditions Extension	\$50.00	_____
Certificate of Compliance Request	\$50.00	_____
Certificate Re-Inspection	\$50.00	_____
Status Letter for Financial Institution	\$100.00	_____
Permit Amendment	\$100.00	_____

**6. FILING FEE CALCULATION**

**Town Share of State Fees** (See NOI Wetland Fee Transmittal Form) \$ 1,037.50

**Local Filing Fee Calculated Above** \$ 825.00

**TOTAL Due Town of Franklin (Check No.1)** \$ 1,862.50

**State Share of Filing Fee** (See NOI Wetland Fee Transmittal Form)

**TOTAL Due DEP (Check No. 2)** \$ \$1,012.50

**7. ADVERTISING FEE (Check No. 3) TBD**

The fee will be the exact amount the newspaper charges for that specific advertisement. Once the advertisement is placed with the paper, by the Conservation Commission, the applicant will be notified of the cost and will be expected to submit a check for that exact amount, payable to the Town of Franklin, to the Conservation Department prior to the first hearing.

\*Drainage structures: catch basins, manholes, leaching basins, gutter inlet or any other man-made structure (other than a pipe) for purposes of controlling drainage.

DATE:05/08/2023 CK#:131 TOTAL:\$1,012.50\*\*\* BANK:ICBP IV Holdings 34, LLC(b100fp)  
PAYEE:Department of Environmental Protection Commonwealth of Massachusetts(v0001015) MEMO: Filing Fee 05/05/23

Property	Account	Invoice - Date	Description	Amount
b100fp	6040-004	b100fp101250 - 05/05/20	Filing Fee 05/05/23	1,012.50
				1,012.50

DATE:05/08/2023 CK#:131 TOTAL:\$1,012.50\*\*\* BANK:ICBP IV Holdings 34, LLC(b100fp)  
PAYEE:Department of Environmental Protection Commonwealth of Massachusetts(v0001015) MEMO: Filing Fee 05/05/23

Property	Account	Invoice - Date	Description	Amount
b100fp	6040-004	b100fp101250 - 05/05/20	Filing Fee 05/05/23	1,012.50
				1,012.50

ICBP IV Holdings 34, LLC  
1111 Broadway Suite 1670  
Oakland, CA 94607  
b100fp

JPMorgan Chase  
New York, NY 10017

Date	Check No.	Check Amount
05/08/2023	131	\$1,012.50***

\*\*\*\* ONE THOUSAND TWELVE AND 50/100 DOLLARS

VOID IF NOT PAID WITHIN 90 DAYS

TO THE ORDER OF Department of Environmental Protection Commonwealth of Massachuset  
PO Box 3982  
Boston, MA 02241-3982

*Bahaar Sidhu*

MEMO: Filing Fee 05/05/23

00001311

03222716270

81926593211

REORDER 140-5187 FORM #7200  
DATE:05/08/2023 CK#:130 TOTAL:\$1,862.50\*\*\* BANK:ICBP IV Holdings 34, LLC(b100fp)  
PAYEE:Town of Franklin(v0001034) MEMO: Filling Fee 05/05/23

Property	Account	Invoice - Date	Description	Amount
b100fp	6040-004	b100fp186250 - 05/05/20	Filling Fee 05/05/23	1,862.50
				<hr/> 1,862.50

DATE:05/08/2023 CK#:130 TOTAL:\$1,862.50\*\*\* BANK:ICBP IV Holdings 34, LLC(b100fp)  
PAYEE:Town of Franklin(v0001034) MEMO: Filling Fee 05/05/23

Property	Account	Invoice - Date	Description	Amount
b100fp	6040-004	b100fp186250 - 05/05/20	Filling Fee 05/05/23	1,862.50
				<hr/> 1,862.50

ICBP IV Holdings 34, LLC  
1111 Broadway Suite 1670  
Oakland, CA 94607  
b100fp

JPMorgan Chase  
New York, NY 10017

Date 05/08/2023 Check No. 130 Check Amount \$1,862.50\*\*\*

\*\*\* ONE THOUSAND EIGHT HUNDRED SIXTY TWO AND 50/100 DOLLARS

VOID IF NOT PAID WITHIN 90 DAYS

TO THE ORDER OF  
Town of Franklin  
P.O. Box 986  
Medford, MA 02155-0010

*Bahar Sidhu*

MEMO: Filling Fee 05/05/23

000130

322271627 819265932

WARNING: THIS DOCUMENT HAS SECURITY FEATURES IN THE PAPER



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**APPENDIX B – ABUTTER INFORMATION**

## Town of Franklin Conservation Commission

### NOTIFICATION TO ABUTTERS

#### Under the Massachusetts Wetlands Protection Act And The Franklin Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following proposed project:

**Berkeley Partners** \_\_\_\_\_ has filed a Notice of Intent with the Franklin Conservation Commission for the 100 & 200 Financial Park Warehouse/Industrial Development on May 11, 2023 \_\_\_\_\_, under the Wetlands Protection Act (M.G.L c.131 §40).

Copies of the Notice of Intent may be examined during regular office hours at Highpoint Engineering, Inc. 980 Washington Street | Suite 216 | Dedham, MA 02026

Copies may also be examined by contacting the Franklin Conservation Department located at 355 East Central Street, Franklin, MA, (508) 520-4929.

Notice of the public hearing including the date, time, and place will be published at least five (5) days in advance in the Milford Daily News.

Notice of the public hearing including the date, time, and place will be posted in the Franklin Town Hall at least forty eight (48) hours in advance of the public hearing.

The public hearing will be held on Thursday, June 1, 2023 \_\_\_\_\_, 2023 \_\_\_\_\_, at 7:00 \_\_\_\_\_pm at the Town Council Chambers, located on the Second Floor of the Municipal Building on 355 East Central Street. The meeting is also available via Zoom, and can be accessed through the Conservation Commission agenda for that night, which will be posted on the Town's website 48 hours prior to the meeting. Please call the Conservation Department at (508) 520-4929 if you have any questions.

You may also contact the Massachusetts Department of Environmental Protection, Central Regional Office, Worcester, MA at (508) 792-7650.

**Town of Franklin Conservation Commission**

**AFFIDAVIT OF SERVICE**

**Under the Massachusetts Wetlands Protection Act**

(To be submitted to the Massachusetts Department of Environmental Protection and the Franklin Conservation Commission when filing a Notice of Intent)

I, **Douglas Hartnett, PE** hereby certify under the pains and penalties of perjury that on **May 11, 2023**, I gave Notification to Abutters in compliance with second paragraph of Massachusetts General Laws Chapter 131, Section 40 in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by **Berkeley Partners** with the Franklin Conservation Commission on **May 11, 2023** for property located on **100 & 200 Financial Park Franklin, MA.**

The Notification to Abutters form and list of the abutters to whom it was given and their addresses are attached to the Affidavit of Service.

Douglas Hartnett  Digitally signed by Douglas Hartnett  
Date: 2023.05.10 11:58:43-04'00'

05/10/2023

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



122814

Abutter's List Request Form

Status: Active

Date Created: Mar 20, 2023

Applicant

Connie Lu  
clu@highpointeng.com  
980 WASHINGTON ST, 216  
216  
DEDHAM, MA 02026  
9787602414

Primary Location

100 FINANCIAL PARK  
FRANKLIN, MA 02038

Owner:

ICBP IV HOLDINGS 34 LLC C/O BERKELEY PARTNERS  
1 SANSONE STREET - SUITE 1500 SAN FRANCISCO, CA  
94104-4448

Abutter's List Request Form

Which Board/Commission is requiring this list?

Planning Board & Conservation Commission

What is the purpose for the request?

Site Plan Review & Notice of Intent

How would you like to receive this abutters list?

Emailed

What email address should we use to send you the abutters list?

clu@highpointeng.com

General Parcel Information

<b>Assessor's Parcel ID</b> 312-020-000-000	<b>Property Street Address</b> 100 Financial Park
--	--

<b>Assessor's Parcel ID</b> 312-020-001-000	<b>Property Street Address</b> 200 Financial Park
--	--

Property Owner Information

<b>Property Owner</b> ICBP IV HOLDINGS 34 LLC C/O BERKELEY PARTNERS	<b>Property Owner's Mailing Address</b> 1 SANSONE STREET, SUITE 1500
<b>Town/City</b> SAN FRANCISCO	<b>Zip/Postal Code</b> 94101-4448



Franklin, MA

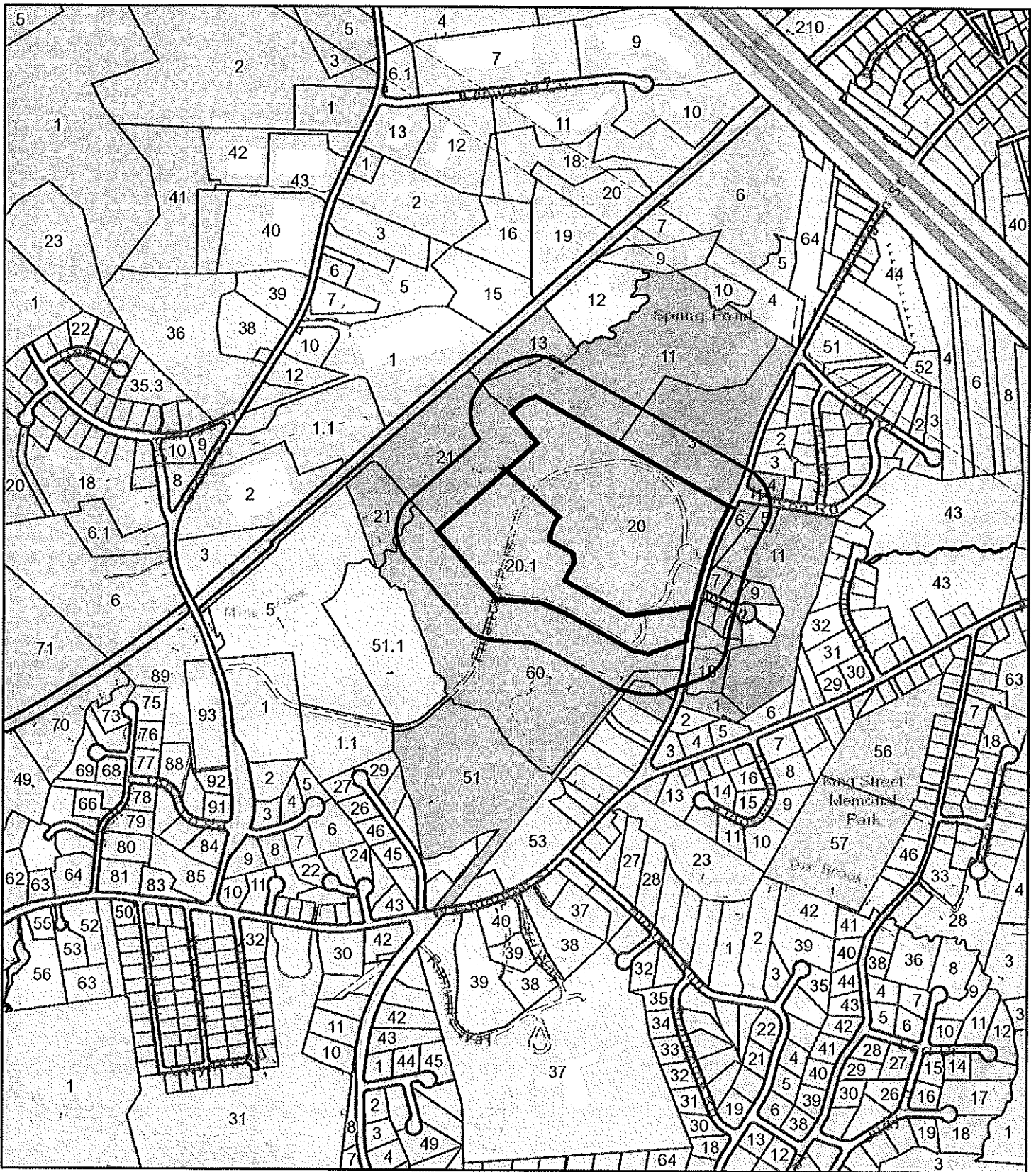


March 20, 2023

1 inch = 1000 Feet



www.cai-tech.com



This information is believed to be correct but is subject to change and is not warranted.



# 300 foot Abutters List Report

Franklin, MA  
March 20, 2023

## Subject Properties:

Parcel Number: 312-020-000  
CAMA Number: 312-020-000-000  
Property Address: 100 FINANCIAL PARK

Mailing Address: ICBP IV HOLDINGS 34 LLC C/O  
BERKELEY PARTNERS  
1 SANSONE STREET - SUITE 1500  
SAN FRANCISCO, CA 94104-4448

Parcel Number: 312-020-001  
CAMA Number: 312-020-001-000  
Property Address: 200 FINANCIAL PARK

Mailing Address: ICBP IV HOLDINGS 34 LLC C/O  
BERKELEY PARTNERS  
1 SANSONE STREET - SUITE 1500  
SAN FRANCISCO, CA 94104-4448

## Abutters:

Parcel Number: 305-003-000  
CAMA Number: 305-003-000-000  
Property Address: 291 WASHINGTON ST

Mailing Address: CHENT REALTY INC  
291 WASHINGTON ST  
FRANKLIN, MA 02038

Parcel Number: 305-011-000  
CAMA Number: 305-011-000-000  
Property Address: WASHINGTON ST

Mailing Address: UNITED STATES OF AMERICA  
696 VIRGINIA ROAD  
CONCORD, MA 01742

Parcel Number: 305-013-000  
CAMA Number: 305-013-000-000  
Property Address: MINE BROOK

Mailing Address: MCP III 176 GROVE LLC C/O MARCUS  
PARTNERS, INC.  
260 FRANKLIN ST  
BOSTON, MA 02110

Parcel Number: 311-021-000  
CAMA Number: 311-021-000-000  
Property Address: GROVE ST

Mailing Address: MCP III 210 GROVE LLC C/O MARCUS  
PROPERTIES INC  
260 FRANKLIN ST - SUITE 620  
BOSTON, MA 02110

Parcel Number: 312-004-000  
CAMA Number: 312-004-000-000  
Property Address: 372 WASHINGTON ST

Mailing Address: DANIELLO ALBERT AJR DANIELLO  
THERESA M  
372 WASHINGTON ST  
FRANKLIN, MA 02038

Parcel Number: 312-005-000  
CAMA Number: 312-005-000-000  
Property Address: 1 WILSON RD

Mailing Address: VERNEY LAWRENCE J VERNEY RITA E  
1 WILSON RD  
FRANKLIN, MA 02038

Parcel Number: 312-006-000  
CAMA Number: 312-006-000-000  
Property Address: 394 WASHINGTON ST

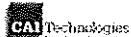
Mailing Address: WETZELL HALLIE PAONE NICHOLAS  
394 WASHINGTON ST  
FRANKLIN, MA 02038

Parcel Number: 312-007-000  
CAMA Number: 312-007-000-000  
Property Address: 2 IVY LN

Mailing Address: CARUSO MICHAEL CARUSO VANESSA  
2 IVY LN  
FRANKLIN, MA 02038

Parcel Number: 312-008-000  
CAMA Number: 312-008-000-000  
Property Address: 4 IVY LN

Mailing Address: RIPLEY JAMES F RIPLEY LAUREL E  
4 IVY LN  
FRANKLIN, MA 02038



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This information is believed to be correct but is subject to change and is not warranted.

3/20/2023

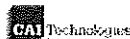
Page 1 of 3



# 300 foot Abutters List Report

Franklin, MA  
March 20, 2023

Parcel Number: 312-009-000 CAMA Number: 312-009-000-000 Property Address: 6 IVY LN	Mailing Address: TRAN DUC THUY DANG 6 IVY LN FRANKLIN, MA 02038
Parcel Number: 312-011-000 CAMA Number: 312-011-000-000 Property Address: WASHINGTON ST	Mailing Address: FRANKLIN TOWN OF 355 EAST CENTRAL STREET FRANKLIN, MA 02038
Parcel Number: 312-013-000 CAMA Number: 312-013-000-000 Property Address: IVY LN	Mailing Address: KANE JOHN 1 IVY LN FRANKLIN, MA 02038
Parcel Number: 312-014-000 CAMA Number: 312-014-000-000 Property Address: 5 IVY LN	Mailing Address: HAMMANN MICHELLE L HAMMANN JOHN 5 IVY LN FRANKLIN, MA 02038
Parcel Number: 312-015-000 CAMA Number: 312-015-000-000 Property Address: 3 IVY LN	Mailing Address: MOORE ROBERT E KIRK KRISTEN 3 IVY LN FRANKLIN, MA 02038
Parcel Number: 312-016-000 CAMA Number: 312-016-000-000 Property Address: 1 IVY LN	Mailing Address: BOYCE KEVIN BOYCE KATIE 1 IVY LN FRANKLIN, MA 02038
Parcel Number: 312-017-000 CAMA Number: 312-017-000-000 Property Address: 460 WASHINGTON ST	Mailing Address: SARKAR SUZANNA & AMBAR SARKAR JOANNE HEBERT 460 WASHINGTON ST FRANKLIN, MA 02038
Parcel Number: 312-018-000 CAMA Number: 312-018-000-000 Property Address: 456 WASHINGTON ST	Mailing Address: GILMAN SCOTT J GILMAN AMY 456 WASHINGTON ST FRANKLIN, MA 02038
Parcel Number: 312-020-000 CAMA Number: 312-020-000-000 Property Address: 100 FINANCIAL PARK	Mailing Address: ICBP IV HOLDINGS 34 LLC C/O BERKELEY PARTNERS 1 SANSONE STREET - SUITE 1500 SAN FRANCISCO, CA 94104-4448
Parcel Number: 312-020-001 CAMA Number: 312-020-001-000 Property Address: 200 FINANCIAL PARK	Mailing Address: ICBP IV HOLDINGS 34 LLC C/O BERKELEY PARTNERS 1 SANSONE STREET - SUITE 1500 SAN FRANCISCO, CA 94104-4448
Parcel Number: 312-021-000 CAMA Number: 312-021-000-000 Property Address: 340 GROVE ST	Mailing Address: FRANKLIN TOWN OF 355 EAST CENTRAL STREET FRANKLIN, MA 02038
Parcel Number: 321-001-000 CAMA Number: 321-001-000-000 Property Address: 462 WASHINGTON ST	Mailing Address: BIANCO ROSE M 462 WASHINGTON ST FRANKLIN, MA 02038



www.cai-tech.com

This information is believed to be correct but is subject to change and is not warranted.





# 300 foot Abutters List Report

Franklin, MA  
March 20, 2023

Parcel Number: 321-051-000  
CAMA Number: 321-051-000-000  
Property Address: 500 FINANCIAL PARK

Mailing Address: BENJAMIN FRANKLIN CLASSICAL  
CHARTER PUBLIC SCHOOL  
500 FINANCIAL PARK  
FRANKLIN, MA 02038

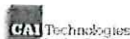
Parcel Number: 321-060-000  
CAMA Number: 321-060-000-000  
Property Address: 300 FINANCIAL PARK

Mailing Address: 300 FINANCIAL PARK OWNER LLC  
1270 SOLDIERS FIELD RD  
BOSTON, MA 01284

Parcel Number: 321-062-000  
CAMA Number: 321-062-000-000  
Property Address: WASHINGTON ST

Mailing Address: WASHINGTON LOT 1C LLC  
133 PEARL ST SUITE 400  
BOSTON, MA 02110

*Kevin M. Doyle, 3-20-23*



[www.cai-tech.com](http://www.cai-tech.com)

This information is believed to be correct but is subject to change and is not warranted.

3/20/2023

Page 3 of 3

300 FINANCIAL PARK OWNER  
1270 SOLDIERS FIELD RD  
BOSTON, MA 01284

ICBP IV HOLDINGS 34 LLC  
C/O BERKELEY PARTNERS  
1 SANSONE STREET - SUITE 1500  
SAN FRANCISCO, CA 94104-4448

WASHINGTON LOT 1C LLC  
133 PEARL ST SUITE 400  
BOSTON, MA 02110

BENJAMIN FRANKLIN CLASSIC  
500 FINANCIAL PARK  
FRANKLIN, MA 02038

KANE JOHN  
1 IVY LN  
FRANKLIN, MA 02038

WETZELL HALLIE  
PAONE NICHOLAS  
394 WASHINGTON ST  
FRANKLIN, MA 02038

BIANCO ROSE M  
462 WASHINGTON ST  
FRANKLIN, MA 02038

MCP III 176 GROVE LLC  
C/O MARCUS PARTNERS, INC.  
260 FRANKLIN ST  
BOSTON, MA 02110

BOYCE KEVIN  
BOYCE KATIE  
1 IVY LN  
FRANKLIN, MA 02038

MCP III 210 GROVE LLC  
C/O MARCUS PROPERTIES INC  
260 FRANKLIN ST - SUITE 620  
BOSTON, MA 02110

CARUSO MICHAEL  
CARUSO VANESSA  
2 IVY LN  
FRANKLIN, MA 02038

MOORE ROBERT E  
KIRK KRISTEN  
3 IVY LN  
FRANKLIN, MA 02038

CHENT REALTY INC  
291 WASHINGTON ST  
FRANKLIN, MA 02038

RIPLEY JAMES F  
RIPLEY LAUREL E  
4 IVY LN  
FRANKLIN, MA 02038

DANIELLO ALBERT AJR  
DANIELLO THERESA M  
372 WASHINGTON ST  
FRANKLIN, MA 02038

SARKAR SUZANNA & AMBAR  
SARKAR JOANNE HEBERT  
460 WASHINGTON ST  
FRANKLIN, MA 02038

FRANKLIN TOWN OF  
355 EAST CENTRAL STREET  
FRANKLIN, MA 02038

TRAN DUC  
THUY DANG  
6 IVY LN  
FRANKLIN, MA 02038

GILMAN SCOTT J  
GILMAN AMY  
456 WASHINGTON ST  
FRANKLIN, MA 02038

UNITED STATES OF AMERICA  
696 VIRGINIA ROAD  
CONCORD, MA 01742

HAMMANN MICHELLE L  
HAMMANN JOHN  
5 IVY LN  
FRANKLIN, MA 02038

VERNEY LAWRENCE J  
VERNEY RITA E  
1 WILSON RD  
FRANKLIN, MA 02038

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**APPENDIX C – SUPPORTING INFORMATION**

# HANCOCK ASSOCIATES

Surveyors | Engineers | Scientists

March 15, 2023

Highpoint Engineering Inc.  
980 Washington Street, Suite 216  
Dedham, MA 02026

## **RE: 100 and 200 Financial Park, Franklin – Wetland Delineation Report**

The following report summarizes the methodology and findings of a wetland delineation performed by a qualified Hancock Associates Professional Wetland Scientist (PWS®) at 100 and 200 Financial Park in Franklin, MA.

### **EXISTING CONDITIONS AND DESKTOP REVIEW**

100 and 200 Financial Park (identified as Parcel ID#s 312-020 -000 and -001 on Franklin Assessors Maps) are abutting commercial properties under common ownership spanning approximately 51-acres. The properties are developed with a research and development facility and a warehouse constructed around 1981.

Prior to the site visit and field delineations, a desktop review of the property was conducted using available resources such as MassGIS data layers, Town of Franklin GIS data layers, USGS 7.5-minute quadrangle maps, NRCS soil survey maps, aerial photography, and Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs).

According to MassGIS datalayers, five (5) of the wetlands included in this delineation area are mapped Natural Heritage and Endangered Species Program (NHESP) Potential Vernal Pools. These include Wetlands F, G, H, J/K, and N as characterized herein.

Also, according to MassGIS data layers, Dix Brook is a designated Coldwater Fisheries Resource, and the entirety of the property is located with a Zone II Wellhead Protection Area.

According to the USGS 7.5-minute quadrangle maps, Mine Brook to the West, and Dix Brook to the south, are both mapped perennial streams.

Accord to the FEMA FIRM, portions of the property are located within mapped Zone AE 100-year floodplain elevation(s) coinciding with the resource area Bordering Land Subject to Flooding.

# HANCOCK ASSOCIATES

Surveyors | Engineers | Scientists

## WETLAND DELINEATION

Based on desktop review and field delineations, jurisdictional wetland resource areas on the subject properties include Bordering Vegetated Wetland (BVW), Riverfront Area, Inland Bank, and Bordering Land Subject to Flooding (BLSF). These resource areas are discussed herein.

### BORDERING VEGETATED WETLAND (BVW)

In accordance with the MA WPA implementing regulations 310 CMR 10.55(2)(a), Bordering Vegetated Wetland is defined as, “*freshwater wetlands which border on creeks, rivers, streams, ponds and lakes. The types of freshwater wetlands are wet meadows, marshes, swamps and bogs. Bordering Vegetated Wetlands are areas where the soils are saturated and/or inundated such that they support a predominance of wetland indicator plants*”. The limit of BVW is further defined as, “*the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist. Wetland indicator plants shall include but not necessarily be limited to those plant species identified in the Act. Wetland indicator plants are also those classified in the indicator categories of Facultative, Facultative+, Facultative Wetland-, Facultative Wetland, Facultative Wetland+, or Obligate Wetland in the National List of Plant Species That Occur in Wetlands: Massachusetts (Fish & Wildlife Service, U.S. Department of the Interior, 1988) or plants exhibiting physiological or morphological adaptations to life in saturated or inundated conditions*”.

### WETLAND F

Wetland F is a Palustrine Emergent Wetland (PEM). Wetland indicator plant species observed within this system included red maple (*Acer rubrum*, FAC), slippery elm (*Ulmus rubra*, FAC), highbush blueberry (*Vaccinium corymbosum*, FACW), common winterberry (*Ilex verticillata*, FACW), tussock sedge (*Carex stricta*, OBL), and cinnamon fern (*Osmundastrum cinnamomeum*, FACW). The center of this wetland is open water, as vegetation is limited to the margins of bank. Indicators of hydrology used in delineation included standing water, water-stained leaves, buttressed tree trunks, shallow rooting, and high-water stains. This wetland is a mapped NHESP Potential Vernal Pool and appears to have the physical properties to support vernal pool aquatic life cycles.

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## WETLAND G

Wetland G is a Palustrine Scrub Shrub Wetland (PSS). Surface water retention was observed through the system and it is uniformly vegetated throughout with a shrub layer dominated by common winterberry providing approximate 60 to 70% cover. Wetland indicator plant species observed within this system included red maple, common winterberry, highbush blueberry, cinnamon fern, speckled alder (*Alnus incana*, FACW), and sensitive fern (*Onoclea sensibilis*, FACW). Indicators of hydrology used in delineation included standing water, water-stained leaves, adventitious rooting, and high-water stains. This wetland is a mapped NHESP Potential Vernal Pool and appears to have the physical properties to support vernal pool aquatic life cycles.

## WETLAND H

Wetland H is a PSS wetland. Wetland H is located on the outer margin of our study area to the extent that it broadcasts associated setbacks and buffer on to the subject property. Wetland H is similar in nature to Wetland G and has surficial hydrologic connectivity to Wetland G via a short and narrow channel. Wetland indicator plant species observed within this system included red maple, highbush blueberry, cinnamon fern, tussock sedge, silky dogwood (*Swida amomum*, FACW), and sphagnum moss (*Spagnum* sp.). Indicators of hydrology included standing water, water-stained leaves, buttressed tree trunks, shallow rooting, and high-water stains. This wetland appears to have the physical properties to support vernal pool aquatic life cycles.

## WETLAND J/K

Wetland K is a large wetland complex comprised of Palustrine Forested (PFO), PSS, and open water classifications. The J-series and K – 100 series of flags demarcate the limit of BVW (and Inland Bank) around an open water pond. The K-200 and -300 series of flags transition into vegetated wetlands associated with forested floodplain spanning away from Mine Brook. Wetland indicator plant species observed within this system included red maple, speckled alder, highbush blueberry, common winterberry, silky dogwood, sensitive fern, cinnamon fern, tussock sedge, and sweet pepperbush (*Clethra alinifolia*, FAC). Indicators of hydrology included open water, water-stained leaves, buttressed tree trunks, shallow rooting, and high-water stains. The open water area detailed as the J-series and K-100 series is a mapped NHESP potential vernal pool, however vernal pool habitat in this feature is questionable due to the large size and likelihood that there is a sustainable fish population in the pond. However, a

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portion of the Wetland K system between wetland flags K-328 and K-343 appears to have the physical properties to support vernal pool aquatic life cycles.

## WETLAND M (*Isolated*)

Wetland M is as PFO/PSS isolated vegetated wetland which may not meet the state jurisdictional classification of BVW due to hydrologic isolation. The Town of Franklin however regulates isolated vegetated wetland under their local Wetland Bylaw. The feature is a confined depression with no surficial hydrologic inlet or outlet. The feature was delineated as vegetated wetland in accordance with MassDEP methodology and is included herein for discussion. Wetland M is a forested topographic depression observed to retain ponded standing water. Wetland indicator plant species observed in Wetland M included red maple, highbush blueberry, common winterberry, sweet pepperbush, and sphagnum moss. Indicators of hydrology included standing water and high-water marks. This wetland appears to have the physical properties to support vernal pool aquatic life cycles. Please note this feature is likely also classified as Isolated Land Subject to Flooding (ILSF) and should be presumed and regulated as such unless additional survey and engineering beyond the scope of this delineation can prove that it does not meet the volumetric capacity to qualify as ILSF.

## WETLAND N

Wetland N is a PFO/Open Water wetland system. Wetland indicator plant species observed within this system included roundleaf greenbrier (*Smilax rotundifolia*, FAC), red maple, common winterberry, highbush blueberry, cinnamon fern, sensitive fern, and tussock sedge. Field indicators of hydrology included open and standing water, high water stains, buttressed trunks, shallow rooting. Wetland N is an NHESP mapped potential vernal pool and open water portions of the wetland appears to have the physical properties to support vernal pool aquatic life cycles.

## WETLAND P

Wetland P is a PFO/PSS wetland. Wetland P is isolated with the exception hydrologic passage through a stormwater culvert to Spring Pond, thus the feature is regulated as BVW. The wetland is characterized as having hummocks and pit-and-mound topography with water retained in lower depressions, but not surface water retention uniformly throughout the entire wetland. The wetland has a shrub layer with about 50% cover, dominated by highbush blueberry, common winterberry, and sweet pepperbush. Other wetland indicator plant species

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Surveyors | Engineers | Scientists

observed in Wetland P included green ash (*Fraxinus pennsylvanica*, FACW), roundleaf greenbriar, slippery elm, red maple, cinnamon fern, sensitive fern, and tussock sedge. Indicators of hydrology included standing water, hummocks, shallow rooting, and high water stains. This feature may have suitable physical properties to support vernal pool aquatic life cycles, however the shallow and non-uniform surface area retaining water reduces breeding habitat potential.

## RIVERFRONT AREA

In accordance with the MA WPA implementing regulations 310 CMR 10.58(2)(a), Riverfront Area is defined as, *“the area of land between a river’s mean annual high water line and a parallel line measured horizontally. The riverfront area may include or overlap other resource areas or their buffer zones. The riverfront area does not have a buffer zone”*. The jurisdictional horizontal distance of Riverfront Area for this location is 200-feet. Furthermore, section 310 CMR 10.58(2)(a)1 states, *“A river is any natural flowing body of water that empties to any ocean, lake, pond, or other river and which flows throughout the year. Rivers include streams... that are perennial because surface water flows within them throughout the year.”* Section 310 CMR 10.58(2)(a)1.a goes on to state, *“A river or stream shown as perennial on the current United States Geological Survey (USGS) or more recent map provided by the Department is perennial.”*

Both Mine Brook to the north and Dix Brook to the south are USGS mapped perennial streams that project 200-foot Riverfront Areas onto the subject property.

For the purposes of this study, only limited sections of Dix Brook and Mine Brook closest in proximity to the limits of proposed work were field delineated based on field indicators of bankfull condition to identify the location of Mean Annual High Water (MAHW) of the brooks. These locations are detailed on the Existing Conditions Plan with flags noted as “MAHW”.

For the purposes of approximating the extent of Riverfront Area in remaining areas that are not germane or proximate to proposed work, we digitized the center of stream through underlying and scaling aerial imagery to the survey plan, calculating the estimated bankfull width through StreamStats to approximate the limit of MAHW, and projecting the approximated 200-foot Riverfront Area in these areas. According to Stream Stats, the estimated bankfull width of Dix



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Brook is 19.1ft, and the estimated bankfull width of Mine Brook is 27.9ft (refer to StreamStats Reports in Attachment A). This is qualified as Note #12 on the Existing Conditions Plan.

## INLAND BANK

In accordance with the MA WPA implementing regulations 310 CMR 10.54(2), Inland bank is defined as, *“A Bank is the portion of the land surface which normally abuts and confines a waterbody. It occurs between a water body and a vegetated bordering wetland and adjacent flood plain, or, in the absence of these, it occurs between a water body and an upland... The upper boundary of a Bank is the first observable break in the slope or the mean annual flood level, whichever is lower. The lower boundary of a Bank is the mean annual low flow level”*.

## WETLAND L

Wetland L is a man-made fire pond and detention basin constructed prior to November 18, 1996 with the original development of the property. This fire pond previously had a fountain in the center of the feature which was removed after it was determined it was contributing to algal blooms. This pond is maintained as manicured turf lawn to the edge of water and there are no hydric soils or wetland indicator plant species up gradient of the bank, thus there is no associated BVW with this feature.

## WETLAND O

Wetland O represents the margin of Inland Bank associated with Spring Pond, a natural pond occurring within 100-feet of the subject property. The wetland scientist conservatively delineated Inland Bank associated with this feature to include a narrow margin of BVW along the shoreline, such that the associated 100-foot Buffer Zone broadcast from this feature represents the most conservative distance from Inland Bank/BVW.

## BORDERING LAND SUBJECT TO FLOODING (BLSF)

In accordance with the MA WPA implementing regulations 310 CMR 10.57(2)(a)3., *“The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm. Said boundary shall be that determined by reference to the most recently available flood profile data prepared for the community within which the work is proposed under the National Flood Insurance Program”*.

The FEMA mapped Zone AE 100-year floodplain on the property is designated at elevation 241.4'. The FEMA mapped 100-year floodplain has been identified via elevational survey and

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LIDAR of the property and is detailed on our Existing Plan (refer to Note #11 on the Existing Conditions Plan).

## VERNAL POOLS

Wetlands F, G, H, J/K, and N are all NHESP mapped potential vernal pools. In addition, portions of Wetland M and P were also identified to contain potential vernal pool habitat based on the observed physical properties, to include isolation from fish populations and enough water retention to support the aquatic stage life cycles of vernal pool obligate amphibians and invertebrates. Breeding season surveys in observance of biological properties of these features in affirmation of whether or not these features are being used by vernal pool obligate species toward NHESP vernal pool certification has not been conducted as part of this study.

## BUFFER AND SETBACK ZONES

Under the Massachusetts Wetlands Protection Act and Town of Franklin Wetland Regulations, there is a jurisdictional 100-foot buffer zone associated with BVW and Inland Bank. According to the Town of Franklin Wetland Bylaw, Franklin imposes a 25-foot No Disturb Zone, and 50-foot limited alteration setback zones broadcast from all wetland resources with the exception of BLSF. Isolated vegetated wetlands are not regulated under the MA WPA but are regulated under the Town of Franklin Wetland regulations with all associated buffer and setback zones applied.

Please feel free to contact me regarding any questions, comments, or concerns with the information herein.

Regards,



David Cowell, PWS, CWB, CERP

Senior Wetland Scientist/Associate



## Attachments:

A – Figures

# HANCOCK ASSOCIATES

Surveyors | Engineers | Scientists

B – MassDEP BVW Data Forms

## **Attachment A Figures**



# National Flood Hazard Layer FIRMMette



71°25'20"W 42°4'N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

**OTHER AREAS**

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

**GENERAL STRUCTURES**

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

**OTHER FEATURES**

- 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
- 17.5 Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

**MAP PANELS**

- Digital Data Available
- No Digital Data Available
- Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/16/2023 at 2:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



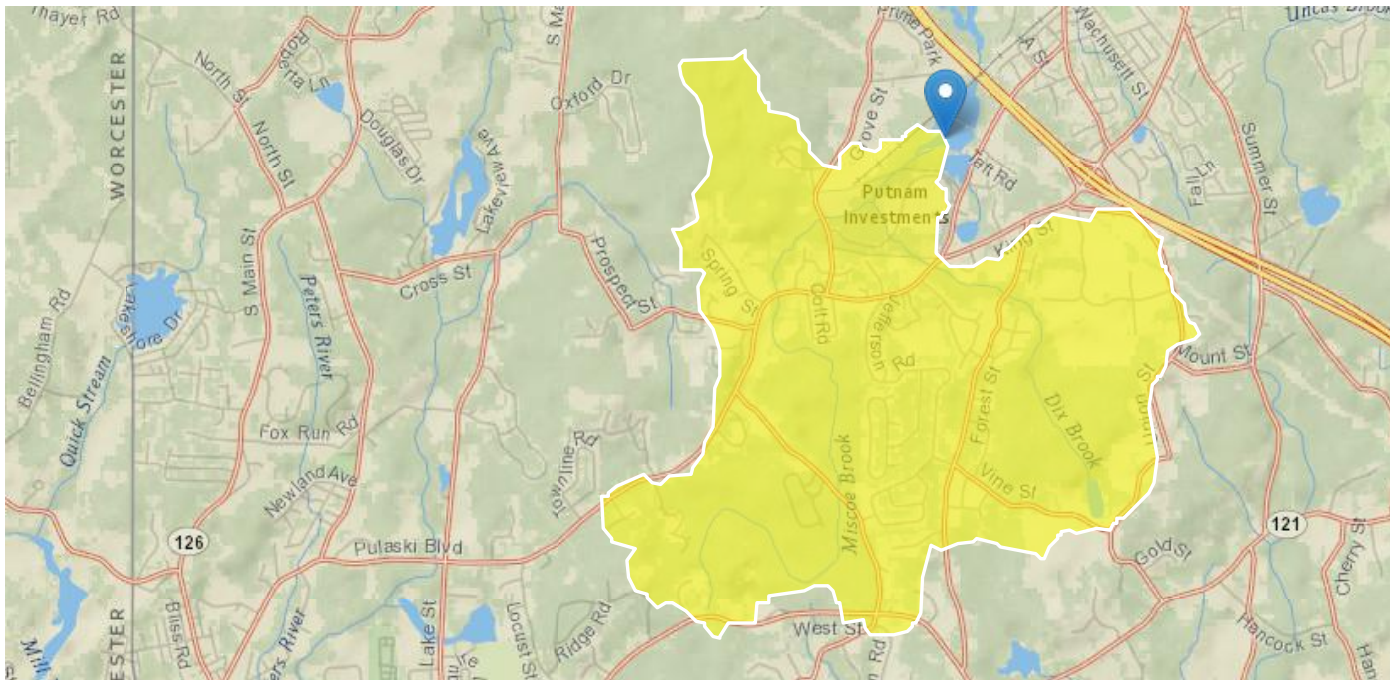
# 100 Financial Park, Franklin, MA - Mine Brook StreamStats Report

Region ID: MA

Workspace ID: MA20230316182646627000

Clicked Point (Latitude, Longitude): 42.06773, -71.41577

Time: 2023-03-16 14:27:06 -0400



 Collapse All

## ➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	5.634	percent
BSLDEM250	Mean basin slope computed from 1:250K DEM	2.629	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.24	square mile per mile
DRNAREA	Area that drains to a point on a stream	5.32	square miles
ELEV	Mean Basin Elevation	320	feet
FOREST	Percentage of area covered by forest	74.43	percent
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	11.6	percent
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
PCTSNDGRV	Percentage of land surface underlain by sand and gravel deposits	49.23	percent

➤ Bankfull Statistics

Bankfull Statistics Parameters [Bankfull Statewide SIR2013 5155]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.32	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	5.634	percent	2.2	23.9

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.32	square miles	0.07722	940.1535

Bankfull Statistics Parameters [New England P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.32	square miles	3.799224	138.999861

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.32	square miles	0.07722	59927.7393

Bankfull Statistics Flow Report [Bankfull Statewide SIR2013 5155]

PIl: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	ASEp
Bankfull Width	27.9	ft	21.3
Bankfull Depth	1.49	ft	19.8
Bankfull Area	41.2	ft^2	29
Bankfull Streamflow	109	ft^3/s	55

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	30.4	ft
Bieger_D_channel_depth	1.81	ft
Bieger_D_channel_cross_sectional_area	55.9	ft^2

Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	40.3	ft

Statistic	Value	Unit
Bieger_P_channel_depth	1.99	ft
Bieger_P_channel_cross_sectional_area	81.2	ft <sup>2</sup>

### Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	22.3	ft
Bieger_USA_channel_depth	1.72	ft
Bieger_USA_channel_cross_sectional_area	42.1	ft <sup>2</sup>

### Bankfull Statistics Flow Report [Area-Averaged]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	ASEp
Bankfull Width	27.9	ft	21.3
Bankfull Depth	1.49	ft	19.8
Bankfull Area	41.2	ft <sup>2</sup>	29
Bankfull Streamflow	109	ft <sup>3</sup> /s	55
Bieger_D_channel_width	30.4	ft	
Bieger_D_channel_depth	1.81	ft	
Bieger_D_channel_cross_sectional_area	55.9	ft <sup>2</sup>	
Bieger_P_channel_width	40.3	ft	
Bieger_P_channel_depth	1.99	ft	
Bieger_P_channel_cross_sectional_area	81.2	ft <sup>2</sup>	
Bieger_USA_channel_width	22.3	ft	
Bieger_USA_channel_depth	1.72	ft	
Bieger_USA_channel_cross_sectional_area	42.1	ft <sup>2</sup>	

#### *Bankfull Statistics Citations*

**Bent, G.C., and Waite, A.M.,2013, Equations for estimating bankfull channel geometry and discharge for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2013–5155, 62 p., (<http://pubs.usgs.gov/sir/2013/5155/>)**

**Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G.,2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p.**

([https://digitalcommons.unl.edu/usdaarsfacpub/1515?](https://digitalcommons.unl.edu/usdaarsfacpub/1515?utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_campaign=PDFCov)

[utm\\_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm\\_medium=PDF&utm\\_campaign=PDFCov](https://digitalcommons.unl.edu/usdaarsfacpub/1515?utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_campaign=PDFCov)



➤ Probability Statistics

Probability Statistics Parameters [Perennial Flow Probability]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5.32	square miles	0.01	1.99
PCTSNDGRV	Percent Underlain By Sand And Gravel	49.23	percent	0	100
FOREST	Percent Forest	74.43	percent	0	100
MAREGION	Massachusetts Region	0	dimensionless	0	1

Probability Statistics Disclaimers [Perennial Flow Probability]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Probability Statistics Flow Report [Perennial Flow Probability]

Statistic	Value	Unit
Probability Stream Flowing Perennially	0.963	dim

*Probability Statistics Citations*

**Bent, G.C., and Steeves, P.A.,2006, A revised logistic regression equation and an automated procedure for mapping the probability of a stream flowing perennially in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2006–5031, 107 p. ([http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR\\_2006-5031rev.pdf](http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR_2006-5031rev.pdf))**

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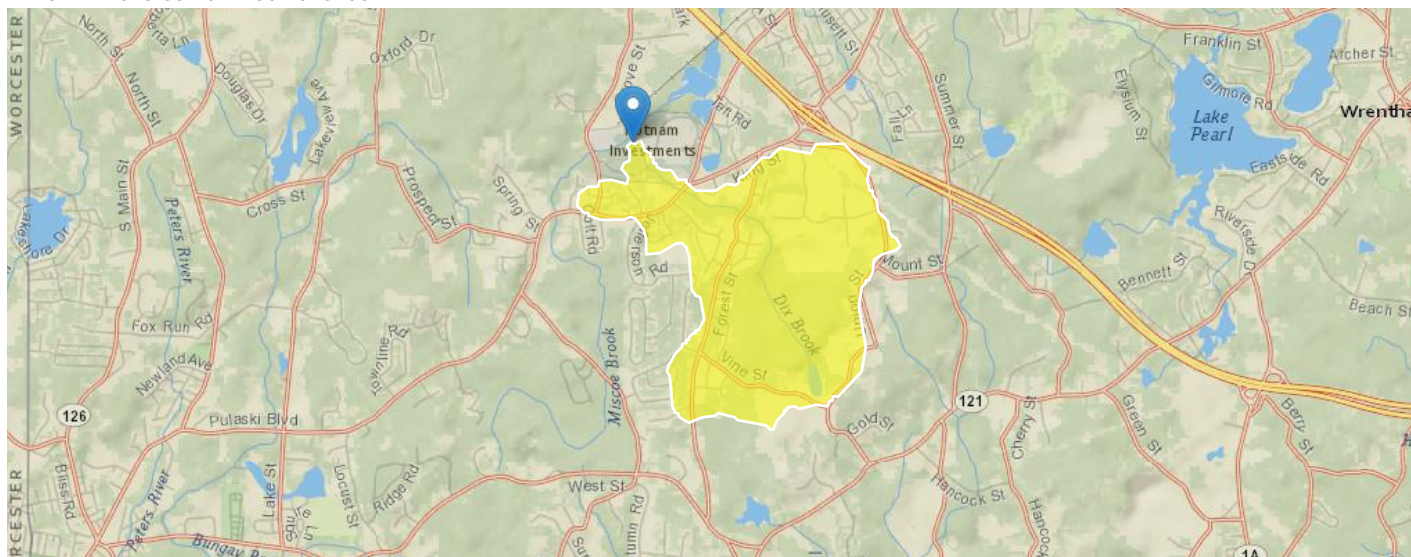
Application Version: 4.13.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

# 100 Financial Park, Franklin, MA - Dix Brook StreamStats Report

Region ID: MA  
 Workspace ID: MA20230316183005665000  
 Clicked Point (Latitude, Longitude): 42.06253, -71.42319  
 Time: 2023-03-16 14:30:25 -0400



[+ Collapse All](#)

## Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	5.079	percent
DRNAREA	Area that drains to a point on a stream	2.12	square miles
ELEV	Mean Basin Elevation	349	feet
FOREST	Percentage of area covered by forest	68.07	percent
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	3.32	percent
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
PCTSNDGRV	Percentage of land surface underlain by sand and gravel deposits	39.83	percent

## Peak-Flow Statistics

Peak-Flow Statistics Parameters [Peak Statewide 2016 5156]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	0.16	512
ELEV	Mean Basin Elevation	349	feet	80.6	1948
LC06STOR	Percent Storage from NLCD2006	3.32	percent	0	32.3

Peak-Flow Statistics Flow Report [Peak Statewide 2016 5156]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	Plu	ASEp
50-percent AEP flood	82.7	ft <sup>3</sup> /s	42.1	162	42.3
20-percent AEP flood	138	ft <sup>3</sup> /s	69.3	275	43.4
10-percent AEP flood	182	ft <sup>3</sup> /s	89.2	371	44.7
4-percent AEP flood	246	ft <sup>3</sup> /s	117	519	47.1
2-percent AEP flood	300	ft <sup>3</sup> /s	138	654	49.4
1-percent AEP flood	357	ft <sup>3</sup> /s	159	803	51.8
0.5-percent AEP flood	420	ft <sup>3</sup> /s	181	974	54.1
0.2-percent AEP flood	510	ft <sup>3</sup> /s	210	1240	57.6

Peak-Flow Statistics Citations

Zarriello, P.J., 2017, Magnitude of flood flows at selected annual exceedance probabilities for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2016-5156, 99 p. (<https://dx.doi.org/10.3133/sir20165156>)

➤ Bankfull Statistics

Bankfull Statistics Parameters [Bankfull Statewide SIR2013 5155]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	5.079	percent	2.2	23.9

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	0.07722	940.1535

Bankfull Statistics Parameters [New England P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	3.799224	138.999861

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	0.07722	59927.7393

Bankfull Statistics Flow Report [Bankfull Statewide SIR2013 5155]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	ASEp
Bankfull Width	19.1	ft	21.3
Bankfull Depth	1.13	ft	19.8
Bankfull Area	21.2	ft <sup>2</sup>	29
Bankfull Streamflow	50.5	ft <sup>3</sup> /s	55

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	20.8	ft
Bieger_D_channel_depth	1.39	ft
Bieger_D_channel_cross_sectional_area	29.3	ft <sup>2</sup>

## Bankfull Statistics Disclaimers [New England P Bieger 2015]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

## Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	31.2	ft
Bieger_P_channel_depth	1.62	ft
Bieger_P_channel_cross_sectional_area	50.8	ft <sup>2</sup>

## Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	16.1	ft
Bieger_USA_channel_depth	1.41	ft
Bieger_USA_channel_cross_sectional_area	25.6	ft <sup>2</sup>

## Bankfull Statistics Flow Report [Area-Averaged]

PIl: Prediction Interval-Lower, Plu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	ASEp
Bankfull Width	19.1	ft	21.3
Bankfull Depth	1.13	ft	19.8
Bankfull Area	21.2	ft <sup>2</sup>	29
Bankfull Streamflow	50.5	ft <sup>3</sup> /s	55
Bieger_D_channel_width	20.8	ft	
Bieger_D_channel_depth	1.39	ft	
Bieger_D_channel_cross_sectional_area	29.3	ft <sup>2</sup>	
Bieger_P_channel_width	31.2	ft	
Bieger_P_channel_depth	1.62	ft	
Bieger_P_channel_cross_sectional_area	50.8	ft <sup>2</sup>	
Bieger_USA_channel_width	16.1	ft	
Bieger_USA_channel_depth	1.41	ft	
Bieger_USA_channel_cross_sectional_area	25.6	ft <sup>2</sup>	

## Bankfull Statistics Citations

Bent, G.C., and Waite, A.M., 2013, Equations for estimating bankfull channel geometry and discharge for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2013-5155, 62 p., (<http://pubs.usgs.gov/sir/2013/5155/>)

Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G., 2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p. ([https://digitalcommons.unl.edu/usdaarsfacpub/1515?utm\\_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm\\_medium=PDF&utm\\_campaign=PDFCoverPages](https://digitalcommons.unl.edu/usdaarsfacpub/1515?utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_campaign=PDFCoverPages))

utm\_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm\_medium=PDF&utm\_campaign=PDFCoverPages)

## ➤ Probability Statistics

## Probability Statistics Parameters [Perennial Flow Probability]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.12	square miles	0.01	1.99
PCTSNDGRV	Percent Underlain By Sand And Gravel	39.83	percent	0	100

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
FOREST	Percent Forest	68.07	percent	0	100
MAREGION	Massachusetts Region	0	dimensionless	0	1

#### Probability Statistics Disclaimers [Perennial Flow Probability]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

#### Probability Statistics Flow Report [Perennial Flow Probability]

Statistic	Value	Unit
Probability Stream Flowing Perennially	0.917	dim

#### Probability Statistics Citations

**Bent, G.C., and Steeves, P.A., 2006, A revised logistic regression equation and an automated procedure for mapping the probability of a stream flowing perennially in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2006-5031, 107 p. ([http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR\\_2006-5031rev.pdf](http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR_2006-5031rev.pdf))**

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Application Version: 4.13.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

**Attachment B MassDEP BVW Data Forms**

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Upland Plot		Transect Number: Flag F-114	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*

#### Herbaceous

None

#### Shrub/Sapling Layer

Eastern white pine ( <i>Pinus strobus</i> )	38.0	64%	Yes	FACU
Asiatic bittersweet ( <i>Celastrus orbiculatus</i> )	10.5	18%	No	UPL
Black cherry ( <i>Prunus serotina</i> )	10.5	18%	No	FACU

#### Tree Layer

Eastern white pine ( <i>Pinus strobus</i> )	10.5	22%	No	FACU
Red maple ( <i>Acer rubrum</i> )	38.0	78%	Yes	FAC*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: **0**

Number of dominant non-wetland indicator plants: **1**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **Yes**

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Hinckley loamy sand  
 hydric soil inclusions: No

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

Site Inundated: \_\_\_\_\_

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: \_\_\_\_\_

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment Deposits: \_\_\_\_\_

Drainage patterns in BVW: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

\_\_\_\_\_  
 \_\_\_\_\_

Other: \_\_\_\_\_

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<u>  X  </u>
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	_____	<u>  X  </u>
<b>Sample location is in a BVW</b>	_____	<u>  X  </u>

Submit this form with the Request for Determination of Applicability or Notice of Intent.



## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Wet Plot		Transect Number: Flag F-114	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b><u>Herbaceous</u></b>				
Cinnamon fern ( <i>Osmundastrum cinnamomeum</i> )	10.5	100%	Yes	FACW*
<b><u>Shrub/Sapling Layer</u></b>				
Highbush blueberry ( <i>Vaccinium corymbosum</i> )	10.5	100%	Yes	FACW*
<b><u>Tree Layer</u></b>				
Red maple ( <i>Acer rubrum</i> )	38.0	92%	Yes	FAC*
Swamp white oak ( <i>Quercus bicolor</i> )	3.0	7%	No	FACW*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Water  
 hydric soil inclusions: yes

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: Standing water observed/ponded
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: High water mark staining evident
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves:
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_
- Other: Wetland edge pronounced along bank, waterfowl habitat, potential vernal pond

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u>  X  </u>	_____
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	<u>  X  </u>	_____
<b>Sample location is in a BVW</b>	<u>  X  </u>	_____

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Upland Plot		Transect Number: Flag G-109	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b><u>Herbaceous</u></b>				
Princess pine ( <i>Dendrolycopodium obscurum</i> )	38.0	100%	Yes	FACU
<b><u>Shrub/Sapling Layer</u></b>				
Highbush blueberry ( <i>Vaccinium corymbosum</i> )	3.0	50%	Yes	FACW*
American beech ( <i>Fagus grandifolia</i> )	3.0	50%	Yes	FACU
<b><u>Tree Layer</u></b>				
Eastern white pine ( <i>Pinus strobus</i> )	20.5	66%	Yes	FACU
Eastern white oak ( <i>Quercus alba</i> )	10.5	33%	No	FACU

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: **1**

Number of dominant non-wetland indicator plants: **3**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **No**

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Hinckley loamy sand  
 hydric soil inclusions: No

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
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Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

### Other Indicators of Hydrology: (check all that apply & describe)

Site Inundated: \_\_\_\_\_

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: \_\_\_\_\_

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment Deposits: \_\_\_\_\_

Drainage patterns in BVW: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other: \_\_\_\_\_

### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<u>  X  </u>
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	_____	<u>  X  </u>
<b>Sample location is in a BVW</b>	_____	<u>  X  </u>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Wet Plot		Transect Number: Flag G-109	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b><u>Herbaceous</u></b>				
Sensitive fern ( <i>Onoclea sensibilis</i> )	3.0	100%	Yes	FACW*
<b><u>Shrub/Sapling Layer</u></b>				
Common winterberry ( <i>Ilex verticillata</i> )	38.0	74%	Yes	FACW*
Highbush blueberry ( <i>Vaccinium corymbosum</i> )	10.5	20%	No	FACW*
Speckled Alder ( <i>Alnus incana</i> )	3.0	6%	No	FACW*
<b><u>Tree Layer</u></b>				
Red Maple ( <i>Acer rubrum</i> )	10.5	100%	Yes	FAC*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Water  
 hydric soil inclusions: yes

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

### Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: Standing water observed
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: High water mark staining evident on woody trunks
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: Present
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- Other: Adventitious roots

### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u>  X  </u>	_____
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	<u>  X  </u>	_____
<b>Sample location is in a BVW</b>	<u>  X  </u>	_____

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Wetland Plot		Transect Number: Flag H-101	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b><u>Herbaceous</u></b>				
Pennsylvania sedge ( <i>Carex pensylvanica</i> )	3.0	100%	Yes	UPL
<b><u>Shrub/Sapling Layer</u></b>				
Eastern white pine ( <i>Pinus strobus</i> )	38.0	93%	Yes	FACU
Highbush blueberry ( <i>Vaccinium corymbosum</i> )	3.0	7%	No	FACW*
<b><u>Tree Layer</u></b>				
Red maple ( <i>Acer rubrum</i> )	10.5	100%	Yes	FAC*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: **1**

Number of dominant non-wetland indicator plants: **2**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **No**

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Hinckley loamy sand  
 hydric soil inclusions: No

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
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Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

### Other Indicators of Hydrology: (check all that apply & describe)

Site Inundated: \_\_\_\_\_

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: \_\_\_\_\_

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment Deposits: \_\_\_\_\_

Drainage patterns in BVW: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other: \_\_\_\_\_

### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<u>  X  </u>
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	_____	<u>  X  </u>
<b>Sample location is in a BVW</b>	_____	<u>  X  </u>

Submit this form with the Request for Determination of Applicability or Notice of Intent.



## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Wet Plot		Transect Number: Flag H-101	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b><u>Herbaceous</u></b>				
Tussock sedge ( <i>Carex stricta</i> )	10.5	44%	Yes	OBL*
Cinnamon fern ( <i>Osmundastrum cinnamomeum</i> )	10.5	44%	Yes	FACW*
Spagnum moss ( <i>Sphagnum</i> sp.)	3.0	12%	No	OBL*
<b><u>Shrub/Sapling Layer</u></b>				
Highbush blueberry ( <i>Vaccinium corymbosum</i> )	38.0	93%	Yes	FACW*
Silky dogwood ( <i>Swida amomum</i> )	3.0	7%	No	FACW*
<b><u>Tree Layer</u></b>				
Red maple ( <i>Acer rubrum</i> )	20.5	100%	Yes	FAC*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 4

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Water  
 hydric soil inclusions: Yes

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

#### Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: Standing water observed
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: High water mark staining evident on woody trunks
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: Present
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- Other: Adventitious roots

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u>  X  </u>	_____
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	<u>  X  </u>	_____
<b>Sample location is in a BVW</b>	<u>  X  </u>	_____

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Upland Plot		Transect Number: Flag K-339	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b>Herbaceous</b>				
Princess pine ( <i>Dendrolycopodium obscurum</i> )	10.5	77%	Yes	FACU
Eastern spiky wintergreen ( <i>Gaultheria procumbens</i> )	3.0	23%	No	FACU
<b>Shrub/Sapling Layer</b>				
Sweet pepperbush ( <i>Clethra alnifolia</i> )	20.5	87%	Yes	FAC*
Highbush blueberry ( <i>Vaccinium corymbosum</i> )	3.0	13%	No	FACW*
<b>Tree Layer</b>				
White pine ( <i>Pinus strobus</i> )	38.0	78%	Yes	FACU
Red oak ( <i>Quercus rubra</i> )	10.5	22%	No	FACU

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 1

Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **No**

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Hinckley loamy sand  
 hydric soil inclusions: No

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
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Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

### Other Indicators of Hydrology: (check all that apply & describe)

Site Inundated: \_\_\_\_\_

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: \_\_\_\_\_

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment Deposits: \_\_\_\_\_

Drainage patterns in BVW: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other: \_\_\_\_\_

### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<u> X </u>
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	_____	<u> X </u>
<b>Sample location is in a BVW</b>	_____	<u> X </u>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Wet Plot		Transect Number: Flag K-339	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b>Herbaceous</b>				
Cinnamon fern ( <i>Osmundastrum cinnamomeum</i> )	10.5	77%	Yes	FACW*
Spagnum moss ( <i>Sphagnum</i> sp.)	3.0	22%	No	OBL*
<b>Shrub/Sapling Layer</b>				
Sweet pepperbush ( <i>Clethra alnifolia</i> )	38.0	100%	Yes	FAC*
<b>Tree Layer</b>				
Red maple ( <i>Acer rubrum</i> )	20.5	87%	Yes	FAC*
Red oak ( <i>Quercus rubra</i> )	3.0	13%	No	FACU

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Water  
 hydric soil inclusions: Yes

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: Standing water observed
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: High water mark staining evident
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves:
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- Other: High vernal pond habitat, standing water and isolation, forested depression

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u>  X  </u>	_____
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	<u>  X  </u>	_____
<b>Sample location is in a BVW</b>	<u>  X  </u>	_____

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Upland Plot		Transect Number: Flag G-109	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b>Herbaceous</b>				
Alleghany sedge <i>(Carex allegheniensis/pensylnanica)</i>	10.5	100%	Yes	UPL
<b>Shrub/Sapling Layer</b>				
Autumn olive <i>(Elaeagnus umbellata)</i>	10.5	78%	Yes	UPL
Greenbriar <i>(Smilax glauca)</i>	3.0	22%	No	FAC*
<b>Tree Layer</b>				
Red oak <i>(Quercus rubra)</i>	20.5	66%	Yes	FACU
Red maple <i>(Acer rubrum)</i>	10.5	34%	No	FAC*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: **0**

Number of dominant non-wetland indicator plants: **2**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **No**

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Hinckley loamy sand  
 hydric soil inclusions: No

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
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Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

### Other Indicators of Hydrology: (check all that apply & describe)

Site Inundated: \_\_\_\_\_

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: \_\_\_\_\_

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment Deposits: \_\_\_\_\_

Drainage patterns in BVW: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other: \_\_\_\_\_

### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<u>  X  </u>
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	_____	<u>  X  </u>
<b>Sample location is in a BVW</b>	_____	<u>  X  </u>

Submit this form with the Request for Determination of Applicability or Notice of Intent.



## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Wet Plot		Transect Number: Flag M-109	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
<b>Herbaceous</b>				
Sphagnum ( <i>Sphagnum sp.</i> )	3.0	100%	Yes	OBL*
<b>Shrub/Sapling Layer</b>				
Highbush blueberry ( <i>Vaccinium corymbosum</i> )	10.5	15%	No	FACW*
Sweet pepperbush ( <i>Clethra alnifolia</i> )	38.0	55%	Yes	FAC*
Winterberry ( <i>Ilex verticillata</i> )	20.5	30%	No	FACW*
<b>Tree Layer</b>				
Red maple ( <i>Acer rubrum</i> )	38.0	100%	Yes	FAC*

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 5

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Water  
 hydric soil inclusions: yes

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: Standing water observed/ponded
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: High water mark staining evident
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves:
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- Other: Forested topographic depression, prime vernal pond habitat, isolated, buttressed trunks, well-defined toe of slope, pronounced wetland edge

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u>  X  </u>	_____
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	<u>  X  </u>	_____
<b>Sample location is in a BVW</b>	<u>  X  </u>	_____

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Upland Plot		Transect Number: Flag N-131	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*

#### Herbaceous

None

#### Shrub/Sapling Layer

Witch hazel ( <i>Hamamelis virginiana</i> )	20.5	100%	Yes	FACU
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#### Tree Layer

Red oak ( <i>Quercus rubra</i> )	20.5	35%	No	FACU
Eastern white pine ( <i>Pinus strobus</i> )	38.0	65%	Yes	FACU

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: **0**

Number of dominant non-wetland indicator plants: **3**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **No**

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Hinckley loamy sand  
 hydric soil inclusions: No

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
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Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

Site Inundated: \_\_\_\_\_

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: \_\_\_\_\_

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment Deposits: \_\_\_\_\_

Drainage patterns in BVW: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Other: \_\_\_\_\_

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	<u>  X  </u>
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	_____	<u>  X  </u>
<b>Sample location is in a BVW</b>	_____	<u>  X  </u>

Submit this form with the Request for Determination of Applicability or Notice of Intent.

## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: **Highpoint Engineering** Prepared by: **David Cowell, PWS** Project location: **100-200 Financial Park, Franklin, MA** DEP File#: **None Issued**

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: Wet Plot		Transect Number: Flag N-131	Date of Delineation:
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*

#### Herbaceous

Cinnamon fern ( <i>Osmundastrum cinnamomeum</i> )	20.5	100%	Yes	FACW*
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#### Shrub/Sapling Layer

Highbush blueberry ( <i>Vaccinium corymbosum</i> )	38.0	100%	Yes	FACW*
--	------	------	-----	-------

#### Tree Layer

Red maple ( <i>Acer rubrum</i> )	20.5	100%	Yes	FAC*
----------------------------------	------	------	-----	------

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent



## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? Yes  
 title/date: Norfolk and Suffolk Counties  
 map number: MA616  
 soil type mapped: Water  
 hydric soil inclusions: yes

Are field observations consistent with soil survey?  
 Remarks:

#### 2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: Standing water observed/ponded
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: High water mark staining evident
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves:
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- Other: BVW/bank margins around a small pond, potential vernal pond if no fish, pronounced toe of slope transitioning to upland, ponded water, buttressed trunks, may not dry seasonally

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	<u>  X  </u>	_____
<b>Wetland hydrology present:</b>		
Hydric soil present	_____	_____
Other indicators of hydrology present	<u>  X  </u>	_____
<b>Sample location is in a BVW</b>	<u>  X  </u>	_____

Submit this form with the Request for Determination of Applicability or Notice of Intent.