

NOTICE OF INTENT
DRAINAGE IMPROVEMENT PROJECT
71 SPRING ST.
ASHLAND, MASSACHUSETTS

Applicant:

AGGREGATE INDUSTRIES – NORTHEAST REGION
35 VILLAGE ROAD
MIDDLETON, MASSACHUSETTS 01949

Prepared By:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
2 CORPORATION WAY
PEABODY, MASSACHUSETTS, 01960

CEC Project 343-810

NOVEMBER 2024



Civil & Environmental Consultants, Inc.

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 Copies of Fee Checks

1.0 INTRODUCTION

This narrative has been prepared by Civil & Environmental Consultants, Inc. (CEC) to supplement the WPA Form 3 – Notice of Intent (NOI) submitted on behalf of Aggregate Industries - Northeast Region, to the Ashland Conservation Commission for the drainage improvement project, located at 71 Spring Street in Ashland, Massachusetts (the “Site”). The proposed project includes stormwater drainage and roadway improvements along the project frontage on Spring Street. The drainage improvements consist of a proposed drainage channel, drainpipes, drain manholes, a proprietary separator, a flared end section with energy dissipation in the form of a riprap channel, prior to discharge to an existing stormwater basin. Roadway improvements include proposed pavement replacement, pavement markings, landscaped areas with shrubs/trees, and bituminous concrete curbing.

The scope of work for this project includes approximately 780 s.f. of impact to the 200’ Riverfront Area. There are no impacts on the 100-ft Buffer Zone to Bordering Vegetated Wetland or the Town of Ashland 25-ft No Disturb Zone. The extent of activities within the 200’ Riverfront Area include the construction of a 3-ft deep drainage channel with rip rap.

To enable the Conservation Commission to issue an Order of Conditions, this NOI is meant to provide sufficient information about the project as it is related to work within or abutting protected resource areas.

This project narrative describes the existing conditions, site history, resource areas, and proposed design/regulatory compliance for work within jurisdictional areas on and near the site. The proposed project is depicted on the Site Plans dated Nov. 7 2024 provided under separate cover and the design of the stormwater management system and compliance with the MassDEP Stormwater Management Standards is detailed in the Stormwater Report.

The applicant has filed a previous Notice of Intent application with the Town of Ashland for the same property. The previous NOI was approved and an Order of Conditions was issued (MassDEP # 95-0956).

2.0 SITE INFORMATION

2.1 PROJECT LOCATION

The Site is located on an approximately 147-acre parcel of land located at 71 Spring Street in Ashland, Massachusetts bound almost entirely by parcels owned by the Applicant. To the south is Cold Spring Brook, to the East is Ashland State Park and Ashland Reservoir, and to the North is Zachary Hill.

The Site is located at Assessors Parcel ID 27-098-00-000. The 147-acre property is bisected by Spring Street creating a 103-acre parcel on the north side of Spring St. and a 44-acre parcel on the south side of Spring St. No improvements or disturbance are proposed in the northern 103-acre parcel. The entirety of the Project Area is proposed along the developed portion (approximately 800 feet) of the property frontage on Spring Street. The Site is located within the Industrial zoning district. See Figure 1 for a Site Location Map and Figure 2 for an Aerial Site Plan.

2.2 EXISTING CONDITIONS

The site is currently partially developed and consists of an existing quarry (northern 103-acre parcel, outside scope of work), an existing industrial asphalt processing plant, asphalt and gravel roads, industrial manufacturing equipment, material stockpiling structures and storage facilities, and several buildings. There are bordering vegetated wetlands and a perennial stream riverfront area on site.

The Site consists of developed areas, forested upland and wetland areas. Existing topography within the Project Area has elevations ranging from 270 feet (NAVD88) along Spring Street at the western limit of the Project Area, to 242 feet at the eastern limit. Spring Street generally drains from west to east through the locus property. Directly south of Spring Street, the site is relatively flat with elevations around 247 feet. At the existing southern tree line, the site drops in elevation to Cold Spring Brook (Elev. 232).

The Site has a Flood Zone AE (Elev. 235) designation along Cold Spring Brook at the southernmost portion of the property. The remainder of the site is designated FEMA Flood Zone "X," an area outside of the 0.2% annual chance of flood. All proposed improvements are above elevation 241 and at least 100 feet from the Flood Zone "AE" designation.

Wetland resource areas were delineated in July 2024 by Lucas Environmental LLC and surveyed by Feldman Geospatial in July 2024. The following is a description of the jurisdictional and non-jurisdictional resource areas on site.

Cold Spring Brook

The northern/western Bank of Cold Spring Brook was delineated with blue survey flagging numbered sequentially from BF1-1 to BF1-41. The brook is generally confined within a well-defined channel and the banks are generally well defined, with portions less well defined. In the latter areas, field indicators of bankfull conditions, primarily changes in slope and changes in vegetation, were used to determine the MAHW line. The MAHW line coincides with the delineated Bank.

Wetland A – Bordering Vegetated Wetlands (BVW)

“Wetland A is a BVW located along the north and west sides of Cold Spring Brook. The wetland is delineated with pink survey tape numbered sequentially with flag series WFA-1 to WFA-45. Much of the delineated wetland boundary is located generally along the toe of a well-defined slope. In the area from flag WFA-26 through WFA-38, the BVW is bounded by a steep eroding slope of historic fill material. Erosion control barriers consisting of silt fencing and filter tubes are installed in this area to prevent eroding sediment from entering the BVW.”

Riverfront Area (RA)

The RA extends 200 feet horizontally from the delineated Inland Bank/MAHW along Cold Spring Brook within the Study Area. This includes the delineated BVW described above as well as adjacent upland areas. The adjacent upland RA consists variably of wooded upland along the bank of the brook, beyond which the RA is developed by active industrial property. Typical vegetation within the upland RA includes white pine, red oak, black birch, red maple, fox grape, burning bush, poison ivy, and Oriental bittersweet.

Existing Stormwater Basin 1

A human-made isolated stormwater management feature is located along the south side of Spring Street. This constructed basin consists of a stone lined bottom and stone berms and has developed wetland vegetation and hydric soils. The basin was delineated with pink survey tape numbered sequentially with flag series SW1-1 to SW1-21. This feature is non-jurisdictional as it was constructed as a stormwater management feature to contain stormwater runoff from Spring Street.

The Applicant previously filed a NOI with Ashland for a separate project on the same site. The work associated with the previous NOI was approved under Order of Conditions (MassDEP # 95-0956). The major components of the previously approved OOC is the construction of a perimeter berm along the southern edge of development, immediately up-gradient of Cold Spring Brook; the removal of a paved ramp, and the relocation of the asphalt plant storage facilities.

The improvements proposed in this application intend to improve upon the stormwater drainage of the previously approved work but are a separate project with no overlap of Project Area. All work for both projects is within the same parcel and by the same applicant. Work for both projects will be executed simultaneously, so the previously approved work is shown schematically on the Site Plans attached to this application. It is the intention of this project to coordinate construction phasing and erosion control measures between both project to eliminate sediment transport during construction throughout the entire construction process.

2.3 RESOURCE AREA ASSESSMENT

The following data sources were examined during the preliminary site investigation:

- Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps
- United States Geological Survey Topographic Quadrangle;
- MassGIS MassDEP Wetland and Hydrography Data layers;
- MassGIS Natural Heritage Atlas Data layers;
- United States Department of Agriculture, Natural Resources Conservation Service (USDA- NRCS) Soil Survey.

No Areas of Critical Environmental Concern (ACECs) were identified within the proposed project area at the time of review. No NHESP Estimated Habitats of Rare Wildlife or NHESP Priority Habitats of Rare Species were identified within the project area at the time of review. The site is, however, partially within the AE Flood Zone along Cold Spring Brook. The developed portions of the site as well as the Project area are above the and have a FEMA Flood Zone “X” designation. There is also a Zone II Wellhead Protection Area on the subject property. The proposed design utilizes two existing discharge points. Design Point 1 (DP-1, the existing infiltration basin in the Southwest of the site) is within the Wellhead Protection zone, but Design Point (DP-2) is outside the Wellhead protection boundary. The proposed design decreases flow to the Wellhead protection zone, which reduces risk to the resource area.

3.0 PROPOSED PROJECT

The proposed Project will:

- 1) Improve the stormwater management along the Spring Street frontage, therefore reducing the risk of sediment movement into the nearby resource areas.
- 2) Increase pervious area by providing vegetation/landscaping and reducing paved impervious coverage.
- 3) Create a safer, more formalized travel way within Spring Street.

This project includes the permanent removal of approximately 12,500 square feet (0.28) acres of impervious bituminous concrete pavement. Erosion control measures are to be implemented and adjusted throughout construction phasing to eliminate sediment transport throughout the site or offsite.

Stormwater Improvements

Stormwater improvements include the construction of a drainage channel ~300-ft long, 4-foot wide, 4-foot deep at its deepest point; along the southern edge of Spring Street which drains west to east and outlets to an 24" RCP drainpipe. The flow is then conveyed underground to a stormwater water quality unit, then through (2) drain manholes, which outlets into a 75-ft long drainage channel with a flared-end section and riprap velocity dissipation, which ultimately outlets to the existing stormwater basin at the east end of the site.

These proposed improvements will improve water quality, decrease the potential for ponding on Spring Street and the Site, to protect resource areas nearby by mitigating potential sediment transport, and to provide a safer traveled-way for drivers passing through the property on Spring Street.

Site Improvements

The proposed site improvements include a formalized two-way travel lane delineated using both a double-yellow centerline pavement marking and solid white shoulder pavement markings within the Spring St. right-of-way - as there is currently no delineation between traveled-way and private property. This provides a safer driving environment for both through-traffic and the vehicles entering/exiting the site. The existing vehicular access points on the Site will be formalized using pavement markings, curbing, fencing and gates, or a combination of the above.

These improvements are depicted on the Site Plans, prepared by CEC, dated November 7, 2024, attached.

A hydrological analysis is provided in the Stormwater Report provided under separate cover demonstrating that the project will provide water quality improvements and stormwater recharge to the maximum extent practicable in accordance with Standard 7 as this project qualifies as redevelopment.

Site Plans dated Nov. 7, 2024 depicting existing features, site topography, and the proposed improvements are provided under separate cover.

3.1 CONSTRUCTION WITHIN 200' RIVERFRONT AREA

There is a 200' Riverfront Area within the Project Area. Work proposed within the Riverfront Area consists of the construction of a 3' deep drainage channel. This BMP was chosen to limit the amount of enclosed drainage systems implemented, and to maximize the amount of overland "country drainage." This channel is meant to act as a conveyance to the final discharge point, the existing stormwater basin; as well as provide velocity dissipation and increase detention time.

3.2 REGULATORY COMPLIANCE

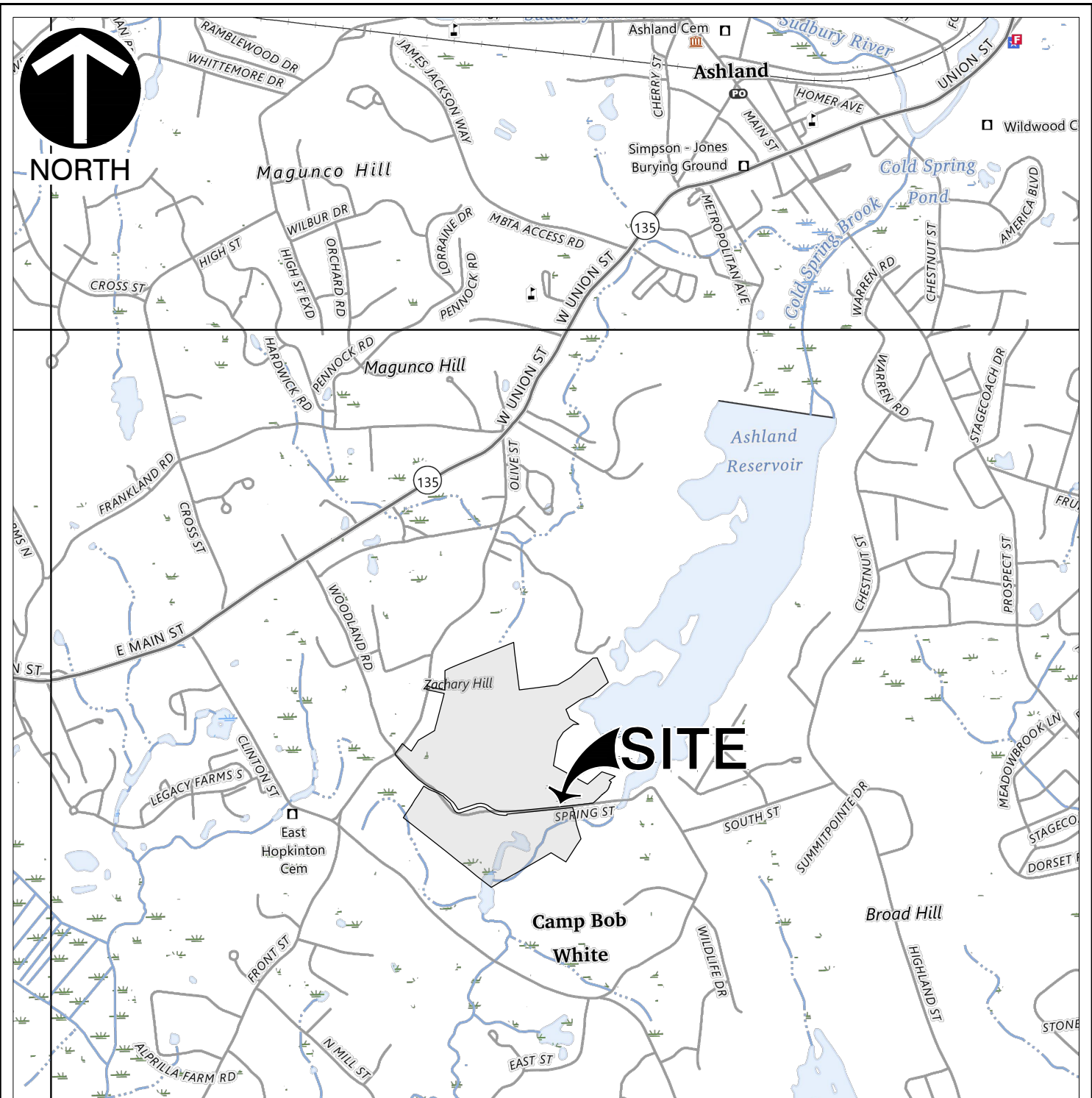
The site falls within the 200' Riverfront Area (RA), protected under the Wetlands Protection Act. Based upon the proposed design, a total of 780 square feet of work will occur within the RA as part of this project. All 780 square feet of this resource area has been previously disturbed and is not considered "virgin land." 300 square feet of the total 780 is existing, impervious paved surface being converted to pervious area. This is an overall improvement to the RA. The work proposed within the RA is designed to minimize erosive velocities and will not negatively impact the resource area. All work within RA proposed herein will improve the condition of the RA.

4.0 CONCLUSION

The Project design presented herein and as shown on the Site Plans has been prepared in accordance with applicable local, state, and federal regulations. The design includes Best Management Practices for maintaining stormwater runoff quality both during and after construction and is designed to protect downstream and underlying receiving waters from stormwater related impacts. The redevelopment Project will result in an improvement of stormwater runoff quality.

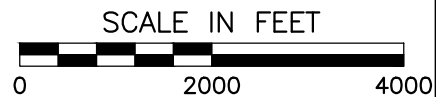
FIGURES


FIGURE 1 – SITE LOCUS
FIGURE 2 – AERIAL SITE PLAN
FIGURE 3 – FEMA FIRMETTE

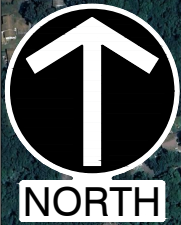


REFERENCE

- 1. U.S.G.S. 7.5' TOPOGRAPHIC MAPS
- MARLBORO QUADRANGLE, MA DATED: 2024
- FRAMINGHAM, QUADRANGLE, MA DATED: 2024
- BLACKSTONE QUADRANGLE, MA DATED: 2024
- FRANKLIN QUADRANGLE, MA DATED: 2024



 Civil & Environmental Consultants, Inc.	2 Corporation Way Suite 160 Peabody, MA 01960 Ph: 774.501.2176 www.cecinc.com		AGGREGATE INDUSTRIES- NORTHEAST REGION DRAINAGE IMPROVEMENTS 71 SPRING ST. ASHLAND MA	
			SITE LOCUS MAP	
DRAWN BY: CFB DATE: NOV. 7, 2024	CHECKED BY: CFB DWG SCALE: 1"=2000'	APPROVED BY: BEP PROJECT NO: 343-810	FIGURE NO.: 1	




SITE

REFERENCE

1. AERIAL IMAGERY SHOWN HEREON WAS TAKEN FROM PLEXEARTH AERIAL IMAGERY SOFTWARE IN 2024.

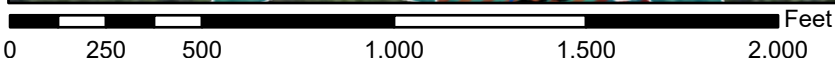


 Civil & Environmental Consultants, Inc.	2 Corporation Way Suite 160 Peabody, MA 01960 Ph: 774.501.2176 www.cecinc.com	AGGREGATE INDUSTRIES- NORTHEAST REGION DRAINAGE IMPROVEMENTS 71 SPRING ST. ASHLAND MA	
		SITE AERIAL MAP	
DRAWN BY: CFB	CHECKED BY: CFB	APPROVED BY: BEP	FIGURE NO.:
DATE: NOV. 7, 2024	DWG SCALE: 1"=500'	PROJECT NO: 343-810	2

National Flood Hazard Layer FIRMMette



71°28'51"W 42°14'6"N



1:6,000

71°28'13"W 42°13'39"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

- | | |
|---|---|
| <p>SPECIAL FLOOD HAZARD AREAS</p> | <ul style="list-style-type: none"> Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> Regulatory Floodway |
| <p>OTHER AREAS OF FLOOD HAZARD</p> | <ul style="list-style-type: none"> 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 <i>Zone X</i> Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> Area with Flood Risk due to Levee <i>Zone D</i> |
| <p>OTHER AREAS</p> | <ul style="list-style-type: none"> NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> Effective LOMRs Area of Undetermined Flood Hazard <i>Zone D</i> |
| <p>GENERAL STRUCTURES</p> | <ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall |
| <p>OTHER FEATURES</p> | <ul style="list-style-type: none"> B 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 |
| <p>MAP PANELS</p> | <ul style="list-style-type: none"> 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 **10/18/2024 at 10:43 AM** 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.


APPENDIX A
ABUTTERS LIST

October 17, 2024

To the Conservation Commission
71 Spring Street
Trimount Bituminous Products Co.
c/o Aggregate Industries Estates
Abutters To Map 27 Parcel 98

PARCEL ID	PARCEL LOCATION	OWNER NAME 1	OWNER NAME 2	MAILING ADDRESS	CITY/TOWN	STATE	ZIP
014/024.0-0001-0000.0	0 MAIN ST	DEPT OF ENVIRONMENTAL MANAGEMENT	(MASS COMMONWEALTH DNR)	251 CAUSEWAY ST SUITE 600 - 700	BOSTON	MA	02114
014/024.0-0008-0000.0	0 ASHLAND RESERVOIR	DEPT OF ENVIRONMENTAL MANAGEMENT	(MASS COMMONWEALTH DNR)	251 CAUSEWAY ST SUITE 600 - 700	BOSTON	MA	02114
014/027.0-0074-0000.0	194 OLIVE ST	AGGREGATE INDUSTRIES	NORTHEAST REGION INC	6211 ANN ARBOR RD	DUNDEE	MI	48131
014/027.0-0077-0000.0	0 OLIVE ST	TRIMOUNT BITUMINOUS PRODUCTS CO	AGGREGATE INDUSTRIES ESTATES	6211 ANN ARBOR RD	DUNDEE	MI	48131
014/027.0-0081-0000.0	0 OLIVE ST	TRIMOUNT BITUMINOUS PRODUCTS CO	AGGREGATE INDUSTRIES ESTATES	6211 ANN ARBOR RD	DUNDEE	MI	48131
014/027.0-0091-0000.0	0 ASHLAND RESERVOIR	DEPT OF ENVIRONMENTAL MANAGEMENT	(MASS COMMONWEALTH DNR)	251 CAUSEWAY ST SUITE 600 - 700	BOSTON	MA	02114
014/027.0-0092-0000.0	0 OLIVE ST REAR	TRIMOUNT BITUMINOUS PRODUCTS CO	AGGREGATE INDUSTRIES ESTATES	6211 ANN ARBOR RD	DUNDEE	MI	48131
014/027.0-0093-0000.0	58 OLIVE ST	TRIMOUNT BITUMINOUS PRODUCTS CO	AGGREGATE INDUSTRIES ESTATES	6211 ANN ARBOR RD	DUNDEE	MI	48131
014/027.0-0094-0000.0	0 OLIVE ST REAR	TOWN OF ASHLAND	ASHLAND RESERVOIR	101 MAIN ST	ASHLAND	MA	01721
014/027.0-0095-0000.0	0 OLIVE ST REAR	TOWN OF ASHLAND	ASHLAND RESERVOIR	101 MAIN ST	ASHLAND	MA	01721
014/027.0-0096-0000.0	0 OLIVE ST REAR	TOWN OF ASHLAND	ASHLAND RESERVOIR	101 MAIN ST	ASHLAND	MA	01721
014/027.0-0099-0000.0	8 SPRING ST	AGGREGATE INDUSTRIES	NORTHEAST REGION INC	6211 ANN ARBOR RD	DUNDEE	MI	48131
014/027.0-0100-0000.0	0 CLINTON ST	HOPKINTON LAND TRUST		PO BOX 56	WOODVILLE	MA	01784
014/027.0-0101-0000.0	0 CLINTON ST	PARKER KENNETH	ZOE PARKER	69 CLINTON ST	HOPKINTON	MA	01748
014/027.0-0102-0000.0	0 CLINTON ST	BAKER CHARLES P	MARJORIE L BAKER	67 CLINTON ST	HOPKINTON	MA	01748
014/027.0-0104-0000.0	206 OLIVE ST	BATER ROBERT & SUSAN	ADESA ROSE	206 OLIVE ST	ASHLAND	MA	01721
014/027.0-0108-0000.0	0 SPRING ST REAR	REGIONAL YOUNG MENS ETC	YMCA CAMP	COCHITUATE RD	FRAMINGHAM	MA	01701

The above reflects the latest information available on our records.


Jenn Ball
Assistant Town Manager

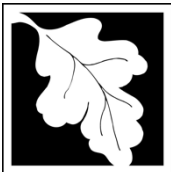
10/17/24
Date

APPENDIX B

WPA FORM 3

BORDERING VEGETATED WETLAND DETERMINATION FORMS

COPIES OF FEE CHECKS



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

Document Transaction Number

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>71 Spring Street</u>	<u>Ashland</u>	<u>01721</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>27-98</u>	<u>42.231290</u>	<u>-71.479640</u>
f. Assessors Map/Plat Number	d. Latitude	e. Longitude
	<u>27-98-00-000</u>	
	g. Parcel /Lot Number	

2. Applicant:

<u>Jarrett</u>	<u>Temple</u>	
a. First Name	b. Last Name	
<u>Aggregate Industries - Northeast Region</u>		
c. Organization		
<u>35 Village Road</u>		
d. Street Address		
<u>Middleton</u>	<u>MA</u>	<u>01949</u>
e. City/Town	f. State	g. Zip Code
<u>339-206-7719</u>	<u>j.temple@holcim.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

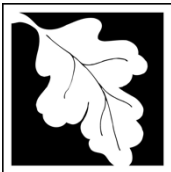
<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Brian</u>	<u>Potvin</u>	
a. First Name	b. Last Name	
<u>Civil & Environmental Consultants, Inc.</u>		
c. Company		
<u>2 Corporation Way - Suite 160</u>		
d. Street Address		
<u>Peabody</u>	<u>MA</u>	<u>01960</u>
e. City/Town	f. State	g. Zip Code
<u>978-884-1729</u>	<u>bpotvin@cecinc.com</u>	
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$1050.00</u>	<u>\$512.50</u>	<u>\$537.50</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:

MassDEP File Number

Document Transaction Number

City/Town

A. General Information (continued)

6. General Project Description:

Drainage Improvement Project

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:

Middlesex

a. County

12721

c. Book

b. Certificate # (if registered land)

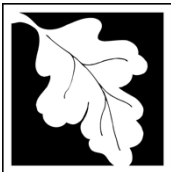
501

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:

MassDEP File Number

Document Transaction Number

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	

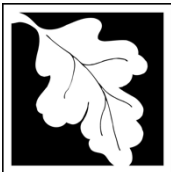
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

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:

MassDEP File Number

Document Transaction Number

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

- 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.

- 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**

- 8/1/2021
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*

- Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage

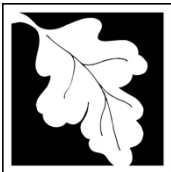
- Assessor's Map or right-of-way plan of site

- 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
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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

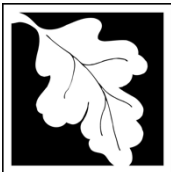
- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

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.

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



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Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

Drainage Improvement Permit Plans

a. Plan Title

Civil & Environmental Consultants

Brian Potvin

b. Prepared By

c. Signed and Stamped by

11/7/2024

1"=40'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

457

10/31/2024

2. Municipal Check Number

3. Check date

456

10/31/2024

4. State Check Number

5. Check date

Civil & Environmental Consultants

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
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WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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.

Jarrett Temple
1. Signature of Applicant

11/1/2024

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

11/7/2024

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.



Massachusetts Department of Environmental Protection
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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:

71 Spring Street
 a. Street Address
 Ashland
 b. City/Town

 c. Check number

 d. Fee amount

2. Applicant Mailing Address:

Jarrett
 a. First Name
 Temple
 b. Last Name
 Aggregate Industries - Northeast Region
 c. Organization
 35 Village Road
 d. Mailing Address
 Middleton
 e. City/Town
 MA
 f. State
 01949
 g. Zip Code
 339-206-7719
 h. Phone Number

 i. Fax Number
 jtemple@holcim.com
 j. Email Address

3. Property Owner (if different):

 a. First Name

 b. Last Name

 c. Organization

 d. Mailing Address

 e. City/Town

 f. State

 g. Zip Code

 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.



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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
3a - Site Preparation	1	\$1050	\$1050
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			\$1050
Step 6/Fee Payments:			
Total Project Fee:			\$1050
State share of filing Fee:			\$512.50
City/Town share of filing Fee:			\$537.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee less \$12.50
			c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 71 Spring Street City/Town: Ashland Sampling Date: 07/12/24

Applicant/Owner: Civil & Environmental Consultants, Inc. Sampling Point or Zone: WFA-7 WET

Investigator(s): Lucas Environmental, LLC Latitude / Longitude: 42.231086° / -71.472252°

Soil Map Unit Name: Raypole / Udorthents NWI or DEP Classification: PFO1B / R2UB3

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks)

Are Vegetation , Soil , or Hydrology significantly disturbed? (If yes, explain in Remarks)

Are Vegetation , Soil , or Hydrology naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydic Soils criterion met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetlands hydrology present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:			

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/> Depth (inches) <u>10.00</u>
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology <input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	Indicators that can be Reliable with Proper Interpretation <input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input checked="" type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	Indicators of the Influence of Water <input type="checkbox"/> Direct observation of inundation <input checked="" type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input checked="" type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size <u>30'</u> (narrow plot along stream)			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. White pine	<i>Pinus strobus</i>	FACU	85.5	Yes	No
2. Red maple	<i>Acer rubrum</i>	FAC	38.0	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>123.5</u> = Total Cover		
<u>Shrub/Sapling Stratum</u>		Plot size <u>15'</u> (narrow plot along stream)			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Sweet pepperbush	<i>Clethra alnifolia</i>	FAC	10.5	Yes	Yes
2. Roundleaf greenbrier	<i>Smilax rotundifolia</i>	FAC	10.5	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>21.0</u> = Total Cover		
<u>Herb Stratum</u>		Plot size <u>5'</u> (narrow plot along stream)			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Sweet pepperbush	<i>Clethra alnifolia</i>	FAC	10.5	Yes	Yes
2. Roundleaf greenbrier	<i>Smilax rotundifolia</i>	FAC	10.5	Yes	Yes
3. Virginia creeper	<i>Parthenocissus quinquefolia</i>	FACU	10.5	Yes	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>31.5</u> = Total Cover		

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30'</u> (narrow plot along stream)			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Roundleaf greenbrier	Smilax rotundifolia	FAC	3.0	Yes	Yes
2. Virginia creeper	Parthenocissus quinquefolia	FACU	3.0	Yes	No
3.					
4.					
			<u>6.0</u> = Total Cover		

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	9	6	
Prevalence Index:		Total % Cover (all strata)	Multiply by:
	OBL species		X 1 = 0.00
	FACW species		X 2 = 0.00
	FAC species		X 3 = 0.00
	FACU species		X 4 = 0.00
	UPL species		X 5 = 0.00
	Column Totals	(A) 0	(B) 0
Prevalence Index		B/A = 0.00	Is the Prevalence Index ≤ 3.0? Yes <input type="checkbox"/> No <input type="checkbox"/>
Wetland vegetation criterion met?			Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Definitions of Vegetation Strata

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 71 Spring Street City/Town: Ashland Sampling Date: 07/12/24
 Applicant/Owner: Civil & Environmental Consultants, Inc. Sampling Point or Zone: WFA-7 UPL
 Investigator(s): Lucas Environmental, LLC Latitude / Longitude: 42.231134° / -71.472239°
 Soil Map Unit Name: Raypole / Udorthents NWI or DEP Classification: PFO1B / R2UB3

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks)
 Are Vegetation , Soil , or Hydrology significantly disturbed? (If yes, explain in Remarks)
 Are Vegetation , Soil , or Hydrology naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydic Soils criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks, Photo Details, Flagging, etc.:			

HYDROLOGY

Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> Depth (inches) _____
Wetland Hydrology Indicators		
Reliable Indicators of Wetlands Hydrology <input type="checkbox"/> Water-stained leaves <input type="checkbox"/> Evidence of aquatic fauna <input type="checkbox"/> Iron deposits <input type="checkbox"/> Algal mats or crusts <input type="checkbox"/> Oxidized rhizospheres/pore linings <input type="checkbox"/> Thin muck surfaces <input type="checkbox"/> Plants with air-filled tissue (aerenchyma) <input type="checkbox"/> Plants with polymorphic leaves <input type="checkbox"/> Plants with floating leaves <input type="checkbox"/> Hydrogen sulfide odor	Indicators that can be Reliable with Proper Interpretation <input type="checkbox"/> Hydrological records <input type="checkbox"/> Free water in a soil test hole <input type="checkbox"/> Saturated soil <input type="checkbox"/> Water marks <input type="checkbox"/> Moss trim lines <input type="checkbox"/> Presence of reduced iron <input type="checkbox"/> Woody plants with adventitious roots <input type="checkbox"/> Trees with shallow root systems <input type="checkbox"/> Woody plants with enlarged lenticels	Indicators of the Influence of Water <input type="checkbox"/> Direct observation of inundation <input type="checkbox"/> Drainage patterns <input type="checkbox"/> Drift lines <input type="checkbox"/> Scoured areas <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Surface soil cracks <input type="checkbox"/> Sparsely vegetated concave surface <input type="checkbox"/> Microtopographic relief <input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):		

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION – Use both common and scientific names of plants.

<u>Tree Stratum</u>		Plot size <u>30'</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. White pine	Pinus strobus	FACU	85.5	Yes	No
2. Black birch	Betula lenta	FACU	10.5	No	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			<u>96.0</u> = Total Cover		
<u>Shrub/Sapling Stratum</u>		Plot size <u>15'</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Burningbush	Euonymus alatus	UPL	10.5	Yes	No
2. Glossy buckthorn	Frangula alnus	FAC	3.0	No	Yes
3. Pignut hickory	Carya glabra	FACU	3.0	No	No
4.					
5.					
6.					
7.					
8.					
9.					
			<u>16.5</u> = Total Cover		
<u>Herb Stratum</u>		Plot size <u>5'</u>			
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
1. Oriental bittersweet	Celastrus orbiculatus	FACU	10.5	Yes	No
2. Starflower	Trientalis borealis	FAC	3.0	No	Yes
3. Poison ivy	Toxicodendron radicans	FAC	3.0	No	Yes
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
			<u>16.5</u> = Total Cover		

VEGETATION – continued.

<u>Woody Vine Stratum</u>		Plot size <u>30'</u>		Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)
Common name		Scientific name					
1.	Oriental bittersweet	Celastrus orbiculatus		FACU	3.0	Yes	No
2.							
3.							
4.							
				<u>3.0</u> = Total Cover			

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?	
	4	0		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result	
	OBL species	0	X 1	= 0.00	
	FACW species	0	X 2	= 0.00	
	FAC species	9	X 3	= 27.00	
	FACU species	113	X 4	= 450.00	
	UPL species	11	X 5	= 52.50	
	Column Totals	(A) 132		(B) 529.5	
Prevalence Index		B/A = 4.01		Is the Prevalence Index ≤ 3.0?	
				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland vegetation criterion met?			Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Definitions of Vegetation Strata

- Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

CIVIL & ENVIRONMENTAL CONSULTANTS

31 BELLOWS RD
RAYNHAM, MA 02767

456

8-9/430
634

10-31-2024

Date



Pay to the Order of Commonwealth of Massachusetts

\$512.⁵⁰

Five Hundred Twelve 50/100

Dollars



Photo Safe Deposit
Details on back

PNC BANK

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For DEP- State Portion NOI Fee

Just D. Hill MP

CIVIL & ENVIRONMENTAL CONSULTANTS

31 BELLOWS RD
RAYNHAM, MA 02767

457

8-9/430
634

10-31-2024

Date



Pay to the Order of Town of Ashland

\$537.⁵⁰

Five Hundred Thirty Seven 50/100

Dollars



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For Town Portion of DEP NOI Fee

Just D. Hill MP

CIVIL & ENVIRONMENTAL CONSULTANTS

31 BELLOWS RD
RAYNHAM, MA 02767

458

8-9/430
634

10-31-2024

Date



Pay to the Order of Town of Ashland

\$1,450.⁰⁰

One Thousand Fifty 00/100

Dollars



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Just D. Hill MP