NOTICE OF INTENT

SHABOKIN WATER TREATMENT PLANT SHERIDAN ROAD DEVENS, MA

SUBMITTED TO:

Devens Enterprise Commission 33 Andrews Parkway Devens, MA 01434

SUBMITTED ON BEHALF OF:

MassDevelopment 33 Andrews Parkway Devens, MA 01434

PREPARED BY:

Caron Environmental Consulting 247 Bragg Hill Road Westminster, MA 01473

PROJECT ENGINEER:

Wright-Pierce 600 Federal Street; Suite 2151 Andover, MA 01810

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Massachusetts WPA Form 3—Notice of Intent (September 2020)

Attachments

- Locus Map (September 2020)
- Wetland Delineation Letters (November 2018)
- Abutters List (August 2020)
- Storm Water Report (September 2020)
- Project Plans (September 2020)

PROJECT NARRATIVE

Project Introduction and Overview

This Notice of Intent (NOI) is being filed by the MassDevelopment in accordance with the Massachusetts Wetlands Protection Act (MAWPA) (M.G.L. Chapter 131, Section 40) and its implementing regulations (310 CMR 10.00) and the Devens Zoning By-law (Chapter XII Wetlands Protection). This NOI is being filed for the construction of a water treatment plant.

The proposed project consists of the construction of a new water treatment plant, at 88 Sheridan Road. The water treatment plant will consist of a 7500 sq. ft. water treatment plant, an electrical generator and fuel tank on concrete pads, propane tank on concrete pad, a 10,000-gallon sanitary tank, a 4000-gallon tight tank, electrical connections, a paved driveway with three parking spots, watermains, connections, clearing of about 0.30 acres of vegetation and appurtenances.

Project Impacts and Mitigation

Buffer Zone:

The majority of the proposed work for the Shabokin Water Treatment Plant is outside of the 100-foot Buffer Zone. Clearing of 4200 sq. ft. of vegetation, a portion of the paved driveway, a portion of a stormwater basin, 250 linear feet of raw watermain and 290 linear feet of finish water main and 390 linear feet of underground electric are proposed within the 100-foot Buffer Zone. Due to the location of the current access drive it is not feasible to locate the work outside of the 100-foot Buffer Zone. Clearing of 410 sq. ft. and 25 linear feet of the underground electric is necessary within the 25' No Disturbance Area.



WPA Form 3 - Notice of Intent

A. General Information

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

Provided by MassDEP: MassDEP File Number **Document Transaction Number** Devens

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





2.

3.

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

88 Sheridan Road		Devens	01434
a. Street Address	William The Control	b. City/Town	c. Zip Code
Latitude and Longitu	ide.	42°31'12.3"N	71°36'41.9"W
	uue.	d. Latitude	e. Longitude
2/3	The Board	99-202/99-203	
f. Assessors Map/Plat Nu	umber	g. Parcel /Lot Number	
Applicant:			
James		Moore	
a. First Name		b. Last Name	
MassDevelopment			
c. Organization			
33 Andrews Parkwa	ly		
d. Street Address			04404
Devens e. City/Town		MA f. State	01434 g. Zip Code
(978) 784-2931	(079) 772 7406	The second secon	
h. Phone Number	(978) 772-7496 i. Fax Number	jmoore@massdevelop j. Email Address	oment,com
a. First Name	uired if different from ap	b. Last Name	nore than one owner
a. First Name Massachusetts Deve c. Organization	elopment Finance Agend	b. Last Name	nore than one owner
a. First Name Massachusetts Deve c. Organization 99 High Street; 11th	elopment Finance Agend	b. Last Name	nore than one owner
a. First Name Massachusetts Deve c. Organization 99 High Street; 11th	elopment Finance Agend	b. Last Name	
a. First Name Massachusetts Deve c. Organization 99 High Street; 11th d. Street Address Boston	elopment Finance Agend	b. Last Name	02110 g. Zip Code
a. First Name Massachusetts Develor. c. Organization 99 High Street; 11th d. Street Address Boston e. City/Town	elopment Finance Agend	b. Last Name	02110 g. Zip Code
a. First Name Massachusetts Develor. c. Organization 99 High Street; 11th d. Street Address Boston e. City/Town (617) 330-2000	elopment Finance Agend	b. Last Name Cy MA f. State	02110 g. Zip Code
a. First Name Massachusetts Develor. c. Organization 99 High Street; 11th d. Street Address Boston e. City/Town (617) 330-2000 h. Phone Number	elopment Finance Agend n Floor i. Fax Number	b. Last Name Cy MA f. State jmoore@massdevelop	02110 g. Zip Code
a. First Name	elopment Finance Agend n Floor i. Fax Number	b. Last Name Cy MA f. State jmoore@massdevelop	02110 g. Zip Code
a. First Name Massachusetts Develor. c. Organization 99 High Street; 11th d. Street Address Boston e. City/Town (617) 330-2000 h. Phone Number Representative (if an	elopment Finance Agend n Floor i. Fax Number	b. Last Name D. Last Name MA f. State jmoore@massdevelop j. Email address	02110 g. Zip Code
a. First Name Massachusetts Develor. Organization 99 High Street; 11th d. Street Address Boston e. City/Town (617) 330-2000 h. Phone Number Representative (if an	elopment Finance Agend n Floor i. Fax Number ny):	b. Last Name D. Last Name MA f. State jmoore@massdevelop j. Email address Caron	02110 g. Zip Code
a. First Name Massachusetts Devec. Organization 99 High Street; 11th d. Street Address Boston e. City/Town (617) 330-2000 h. Phone Number Representative (if ar Charles a. First Name Caron Environmenta c. Company	elopment Finance Agend n Floor i. Fax Number ny):	b. Last Name D. Last Name MA f. State jmoore@massdevelop j. Email address Caron	02110 g. Zip Code
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5.



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Pr	ovided by MassDEP:
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A. General Information (continued)

6. General Project Description: This project is the construction of a water treatment plant at 88 Sheridan Road. The water treatment plant is proposed to be 7500 sq. ft. in size with its associated driveway and parking, an emergency generator and fuel tank on concrete pads, propane tank on concrete pad, watermains, connections, electrical connections, a 10,000-gallon residuals holding tank, a 4000-gallon tight tank and appurtenances. 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. Dother			
75.	2. Limited Project Type If the proposed activity is eligible to be treated as a CMR10.24(8), 310 CMR 10.53(4)), complete and at	0.24 ed prolete	(coas roject list a	stal) or 310 CMR 10.53 (inland)? t applies to this project. (See 310 CMR and description of limited project types) cal Restoration Limited Project (310
8.	Project Checklist and Signed Certification. Property recorded at the Registry of Deeds for:			
	Middlesex South			
	a. County	b. C	ertific	ate # (if registered land)
	26317	3		
	c. Book	d. P	age N	lumber
В.	Buffer Zone & Resource Area Impa	act	s (te	emporary & permanent)
1. 2.	 ☑ Buffer Zone Only – Check if the project is located Vegetated Wetland, Inland Bank, or Coastal Regular Inland Resource Areas (see 310 CMR 10.54-10 Coastal Resource Areas). 	ed or	nly in	the Buffer Zone of a Bordering rea.
	Check all that apply below. Attach narrative and any project will meet all performance standards for each			

standards requiring consideration of alternative project design or location.



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

ce Area	Size of Proposed Alteration	Proposed Replacement (if any)	
Bank	1. linear feet	2. linear feet	
Wetland	1. square feet	2. square feet	
Land Under Waterbodies and	1. square feet	2. square feet	
vvaterways	3. cubic yards dredged		
ce Area	Size of Proposed Alteration	Proposed Replacement (if any)	
Bordering Land Subject to Flooding	1. square feet	2. square feet	
Isolated Land	3. cubic feet of flood storage lost	4. cubic feet replaced	
Subject to Flooding	1. square feet		
	2. cubic feet of flood storage lost	3. cubic feet replaced	
Riverfront Area	Name of Waterway (if available) - sp	pecify coastal or inland	
Width of Riverfront Area	(check one):		
25 ft Designated D	Densely Developed Areas only		
_			
200 it All other pro	ojecis		
otal area of Riverfront Ar	ea on the site of the proposed proje	ect: square feet	
Proposed alteration of the	Riverfront Area:		
otal square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.	
las an alternatives analys	sis been done and is it attached to t	this NOI? Yes No	
Vas the lot where the acti	vity is proposed created prior to Au	gust 1, 1996?	
stal Resource Areas; (Se	e 310 CMR 10.25-10.35)		
or coastal riverfront areas	please complete Section R 2 f	hove	
	Bank Bordering Vegetated Wetland Land Under Waterbodies and Waterways De Area Bordering Land Subject to Flooding Isolated Land Subject to Flooding Riverfront Area Width of Riverfront Area 100 ft New agricul 200 ft All other profotal area of Riverfront Area Proposed alteration of the otal square feet Iss an alternatives analys Vas the lot where the activated Resource Areas: (See	Bank Bordering Vegetated Wetland 1. square feet Land Under Waterbodies and Waterways 2. cubic feet of flood storage lost Riverfront Area Width of Riverfront Area (check one): 2. cubic feet of flood Areas only 1. square feet 2. cubic feet of flood storage lost 1. Name of Waterway (if available) - spoons only 2. cubic feet of flood Areas only 2. cubic feet of flood Storage lost 3. cubic feet of flood storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 4. Storage feet 5. cubic feet of flood Storage lost 6. cubic feet of flood Storage lost 7. Name of Waterway (if available) - spoons only 8. cubic feet of flood Storage lost 9. cubic feet of flood Storage lost 1. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 1. Name of Waterway (if available) - spoons only 2. cubic feet of flood Storage lost 3. cubic feet of flood Storage lost 4. Name of Waterway (if available) - spoons only 4. Cubic fee	

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

3.



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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.

Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
а. 🗌	Designated Port Areas	Indicate size under Land Und	der the Ocean, below
b. 🔲	Land Under the Ocean	1. square feet	-
		2. cubic yards dredged	
с. 🗌	Barrier Beach	Indicate size under Coastal Be	eaches and/or Coastal Dunes below
d. 🗌	Coastal Beaches	1. square feet	2. cubic yards beach nourishment
е. 🗌	Coastal Dunes	1. square feet	2. cubic yards dune nourishment
		Size of Proposed Alteration	Proposed Replacement (if any)
f. 🗆	Coastal Banks	1. linear feet	-
g. 📙	Rocky Intertidal Shores	1. square feet	
h. 🔲	Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. 🗌	Land Under Salt Ponds	1. square feet	
j. 🗆	Land Containing	2. cubic yards dredged	
, ப	Shellfish	1. square feet	
k. 🔲	Fish Runs		inks, inland Bank, Land Under the der Waterbodies and Waterways,
ı. 🗍	Land Subject to	1. cubic yards dredged	
☐ Re	Coastal Storm Flowage storation/Enhancement roject is for the purpose of	1. square feet f restoring or enhancing a wetland tered in Section B.2.b or B.3.h ab	d resource area in addition to the
amoun	t here.		ove, predecionar die additional
a. square	e feet of BVW	b. square feet of	f Salt Marsh
☐ Pro	pject Involves Stream Cros	ssings	
a. numbe	er of new stream crossings	b. number of rep	placement stream crossings

4.

5.

on



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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C.	Other	Applicable	Standards ar	nd Requirements
•	O	, ibbilonnic	otaliaalao al	ia i togan cincinto

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.	the m Natur Mass	ost re al He achus	ecent ritage setts	Estime and Natura	roposed project located in Estimated Habitat of Rare Wildlife as indicated ated Habitat Map of State-Listed Rare Wetland Wildlife published by the Endangered Species Program (NHESP)? To view habitat maps, see the all Heritage Atlas or go to tate.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

ision of Fisheries and Wildlife 1 Rabbit Hill Road 07/27/20 Westborough, MA 01581 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: 0%/ 0 acres (a) within wetland Resource Area percentage/acreage 4.6%/ 1.5 acres (b) outside Resource Area percentage/acreage
 - 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)
 - Photographs representative of the site

wpaform3.doc • rev. 2/8/2018

Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/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. Page 5 of 9



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

	Project	ts altering 10 or more acres of land, also sub	omit:
	(d)		77711.
		Vegetation cover type map of site	
	(e)	Project plans showing Priority & Estima	ated Habitat boundaries
	(f) O	R Check One of the Following	
	1.	http://www.mass.gov/dfwele/dfw/nhesp	MESA exemption applies. (See 321 CMR 10.14, o/regulatory review/mesa/mesa exemptions.htm; the project is within estimated habitat pursuant to
	2. 🔲	Separate MESA review ongoing.	a. NHESP Tracking # b. Date submitted to NHESP
	3. 🗌	Separate MESA review completed. Include copy of NHESP "no Take" dete Permit with approved plan.	ermination or valid Conservation & Management
3.	For coasta	Il projects only, is any portion of the prop fish run?	osed project located below the mean high water
	a. 🛛 Not a	applicable - project is in inland resource	area only b. Yes No
	If yes, inclu	ude proof of mailing, hand delivery, or ele	ectronic delivery of NOI to either:
	South Shore the Cape &	e - Cohasset to Rhode Island border, and Islands:	North Shore - Hull to New Hampshire border:
	Southeast M Attn: Enviro 836 South F New Bedfor	Marine Fisheries - Marine Fisheries Station nmental Reviewer Rodney French Blvd. d, MA 02744 F.EnvReview-South@state.ma.us	Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



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D.	Additiona	Information	(cont'd)

3.	Identify the method for BVW and of Field Data Form(s), Determination and attach documentation of the me	of Applicability, Order of F	ary delineations (MassDEP BVV Resource Area Delineation, etc.)
4. 🛛	List the titles and dates for all plans	and other materials subr	nitted with this NOI.
SI	nabokin Water Treatment Plant		
	Plan Title		
	right-Pierce	James Cray	
	Prepared By	c. Signed and Stam Varies	ped by
d.	Final Revision Date	e. Scale	
_			09/08/2020
	Additional Plan or Document Title		g. Date
5.	If there is more than one property o listed on this form.	wner, please attach a list	of these property owners not
6. 🛛	Attach proof of mailing for Natural F	Heritage and Endangered	Species Program, if needed.
7. 🗌	Attach proof of mailing for Massach	usetts Division of Marine	Fisheries, if needed.
8. 🔲	Attach NOI Wetland Fee Transmitta	al Form	
9. 🛛	Attach Stormwater Report, if neede	d.	
E. Fees			
1. 🗵	Fee Exempt: No filing fee shall be a of the Commonwealth, federally recauthority, or the Massachusetts Bay	ognized Indian tribe housi	ng authority, municipal housing
Applica Fee Tr	ants must submit the following informa ansmittal Form) to confirm fee payme	ation (in addition to pages ent:	1 and 2 of the NOI Wetland
2. Munic	ipal Check Number	3. Check date	

6. Payor name on check: First Name

7. Payor name on check: Last Name



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Provided by MassDEP:

MassDEP File Number

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Devens 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.

1. Signature of Applicant

3. Signature of Property Owner (if different)

5. Signature of Representative (if any)

9/2/2020

2. Date

4. Date 9)9/20 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.

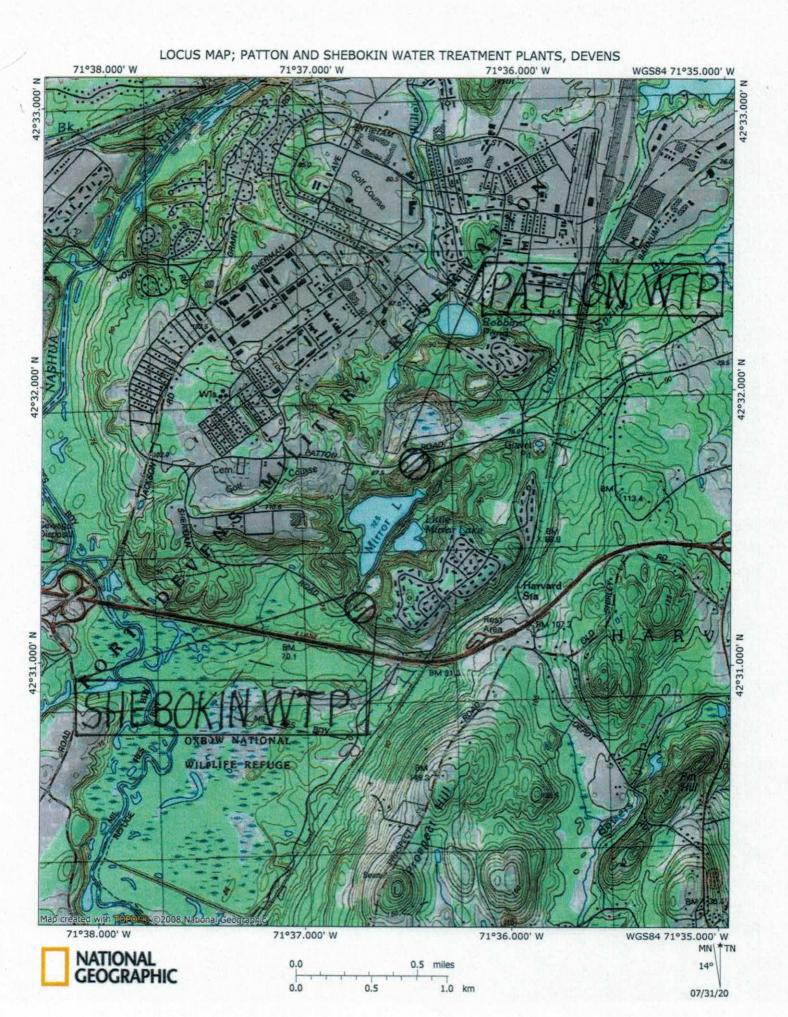
For MassDEP:

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.







Caron Environmental Consulting

978-874-5469

Wetlands • Forestry • Permitting • Habitat Studies

November 1, 2018

Ms. Christine Catalini Wright-Pierce 600 Federal Street; Suite 2151 Andover, MA 01810

Re: Wetland Delineation Sheridan Well Sheridan Road/Devens

Dear Ms. Catalini

As requested, we have delineated the wetlands on the above-referenced site. The delineation was conducted on August 6, 2018. The delineation was based on observations of the soils, the plant communities and hydrology.

The edges of the wetlands were delineated with blue flagging labeled A1 to A14, B1 to B4, C1 to C9 and D1 to D14. The A-series is a non-bordering vegetated wetland that is a raised bog. The B-series and C-series wetlands are wooded wetlands located on the south side of Sheridan Road. The D-series is a bordering vegetated wetland located east of the Shabokin Well. It appears to be man-made. The uplands contain the Shabokin Well site and an old gravel pit. The remainder of the adjacent uplands are forested.

Species which were observed to be dominant primarily in the wetlands include Black Spruce, Sweet Pepperbush, Sphagnum Moss, Highbush Blueberry, Arum, Meadowsweet, Skunk Cabbage, Swamp Beggartick, Swamp Azalea, Cinnamon Fern, Maleberry, and Red Maple. Species abundant primarily in the uplands include Black Oak, Red Oak, Scarlet Oak, White Oak, White Pine, Witch-hazel, Lowbush Blueberry, Huckleberry, Chestnut, American Hazelnut, Maple-leaf Viburnum, Trailing Arbutus, Mountain Laurel, Hemlock and Red Maple. The attached Delineation Data Forms provide greater detail on the vegetation, soil conditions and hydrological indicators.

The MassGIS Online Viewer shows that the entire site is located with an Estimated/Priority Habitat Areas. There are no certified vernal pools on the site, although the A-series wetland is mapped as a potential vernal pool.

The delineation was based on features visually apparent at the time. As you are aware the interpretation of the boundaries of wetlands can vary depending on many factors including the time of year, growth phase of vegetation, groundwater levels, soil conditions, weather, and political factors. As a result, no delineation can be considered definitive until it has been reviewed and verified by all of the relevant approving authorities.

If you have any questions in regards to this matter, please feel free to contact us.

Very truly yours,

CARON ENVIRONMENTAL CONSULTING

Charles E. Caron

Prepared by: Caron Environmental Consulting Project location: Sheridan Road Applicant: Mass Development

DEP File #:

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 that dominance test used (attach additional information)

Section I. Vegetation	Observation Plot Number: A7-W	Transect Number: A7		Date of Delineation: 08/06/2018
A. Sample Layer and 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*
Herbs & Seedlings Sweet Pepperbush/Clethra alnifolia	63.0	100	Yes	FAC*
Shrubs				
Sweet Pepperbush	20.5	36	Yes	FAC*
Maleberry/Lyonia lingustrina	10.5	19	Yes	FACW*
Witch-Hazel/Hamamelis virginiana	10.5	19	Yes	FACU
Red Maple/Acer rubrum	3.0	S	No	FAC*
Swamp Azalea/Rhododendron viscosum	3.0	5	No	FACW
European Buckthorn/Frangula alnus	3.0	5	No	FAC*
White Pine/Pinus strobus	3.0	5	No	FACU
Highbush Blueberry/Vaccinium corymbosum			No	FACW*
Saplings Red Maple	20.5	100	Yes	FAC*
<u>Trees</u> Red Maple	1.532	100	Yes	FAC*

Vegetation conclusion:

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

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.

MA DEP; 3/95

^{*} Use an asterisk to mark wetland indicator plants

Section II.	Indicators of Hydrology		Plot A7-W	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation	rpretation			Site inundated:
1. Soil Survey				Depth to free water in observation hole: standing water
Is there a publisl	Is there a published soil survey for this site?		▼ Yes ■ No	Depth to soil saturation in observation hole: to surface
Title/da	te: Soil Survey of	Title/date: Soil Survey of Worcester County Massachusetts	Massachusetts	Water marks, on trees
	Northeastern part	art		Drint mics:
Map nu	Map number: Online map			Sediment deposits:
Soil ty	Soil type mapped: Freetown Muck	vn Muck		Drainage patterns in BVW:
Hydric	Hydric soil inclusions:			Oxidized rhizospheres:
				Water-stained leaves:
Are field observ	Are field observations consistent with soil survey?		Ves No	Recorded data (stream, lake, or tidal gauge; Aerial photo; other):
Remarks:				Other:
2. Soil Description				Number of wetland indicator plants
Horizon	Depth (inches)	Matrix Color	Mottles Color	>/= number of non-wetland indicator plants
0	03	10 YR 2/1	N/A	Wetland hydrology present:
В	3"-16"+	2.5 YR 4/2	10 YR 5/1 5 VB 5/6	Hydric soil present
			O TWO	Other indicators of hydrology
Remarks:				present 💌
Other:				Sample location is in a BVW
Conclusion: Is soil hydric:	oil hydric:	Yes	oN II	Submit this form with the Request for Determination of Applicability or Notice of Intent.

Prepared by: Caron Environmental Consulting Project location: Sheridan Road Applicant: Mass Development

DEP File #:

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 that dominance test used (attach additional information)

Section I. Vegetation	Observation Plot Number: A7-U Transect Number: A7	ansect Number: A7	Date	Date of Delineation: 08/06/2018
A. Sample Layer and 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*
Herbs & Seedlings				
American Hazelnut/Corylus americana	10.5	54	Yes	FACTI
Pennsylvania Sedge/Carex pensylvanica		15	No	LIPI.
Lowbush Blueberry/Vaccinium angustifolium	3.0	15	No	FACII
Rattlesnake Plantain/Goodyera spp.	3.0	15	No	FACU
Shrubs Witch-Hazel	20.5	87	Yes	FACU
Paper Birch/Betula papyrifera	3.0	13	No	FACU
Saplings White Pine	38.0	78	Yes	FACU
Paper Birch	10.5	22	Yes	FACU
Trees Red Oak/Quercus rubra	4.172	26	Yes	FACU
Black Oak/Quercus velutina White Pine	2.448 0.860	33	Yes	UPL, FACU

^{*} Use an asterisk to mark wetland indicator plants

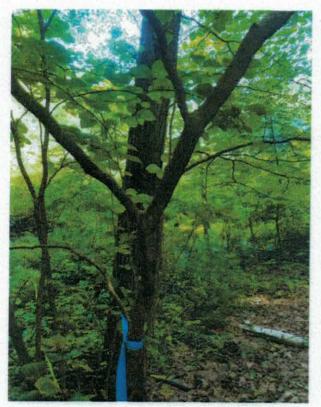
Vegetation conclusion:

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

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.

MA DEP; 3/95

Section II.	Indicators of Hydrology	f Hydrology	Plot A7-U	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation	rpretation			Site inundated:
1. Soil Survey				Depth to free water in observation hole:
Is there a publis	Is there a published soil survey for this site?	r this site?	V Yes No	Depth to soil saturation in observation hole:
Title/di	tte: Soil Survey of	Title/date: Soil Survey of Worcester County Massachusetts	Massachusetts	Water Highes.
	Northeastern part	part		Drint unes:
Map no	Map number: Online map	•		Sediment deposits:
Soil ty	Soil type mapped: Hinckley Sandy Loam	ley Sandy Loam		Drainage patterns in BVW:
Hydric	Hydric soil inclusions: No	0		Oxidized rhizospheres:
			1	Water-stained leaves:
Are field observ	Are field observations consistent with soil survey?	vith soil survey?	Yes No	Recorded data (stream, lake, or tidal gauge; Aerial photo; other):
Remarks:				Other:
				Vocatation and Hadralows
2. Soil Description Horizon	on Depth (inches)	Matrix Color	Mottles Color	Number of wetland indicator plants
A	0"-3"	10 YR 4/3	None	>/= number of non-wetland indicator plants
Bw	3"-18"+	10 YR 5/6	None	Wetland hydrology present:
				Hydric soil present
Remarks:				
Officer				bresent [4]
Curei.				Sample location is in a BVW
Conclusion: Is soil hydric:	oil hydric:	☐ Yes	No N	Submit this form with the Request for Determination of Applicability or Notice of Intent.



Wetland at Plot A7-W



Soil at Plot A7-W



Upland at Plot A7-U



Soil at Plot A7-U

Prepared by: Caron Environmental Consulting Project location: Devens Applicant: Mass Development

DEP File #:

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 that dominance test used (attach additional information)

Section I. Vegetation	Observation Plot Number: D1-W	Transect Number: D1		Date of Delineation: 08/06/2018
A. Sample Layer and Plant Species	B. Percent Cover	C. Percent	D. Dominant Plant	E. Wetland Indicator
(by common/scientific name)	(or basal area)	Dominance	(yes or no)	Category*
Herbs & Seedlings	201	96	Vac	FACW*
Highbush Bluebetry/ Vaccinium corymoosum	10.3	07	153	LACM
Witch-Hazel/Hamamelis viriginiana	3.0	∞	Yes	FACU
Late Goldenrod/Solidago gigantea	3.0	00	Yes	FACW*
White Pine/Pinus strobus	3.0	00	Yes	FACU
Sweet Pepperbush/Clethra alnifolia	3.0	8	Yes	FAC*
Hornbeam/Carpinus caroliniana	3.0	8	Yes	FAC*
Lowbush Blueberry/Vaccinium angustifolium	3.0	80	Yes	FACU
Red Oak/Ouercus rubra	3.0	8	Yes	FACU
White Oak/Ouercus alba	3.0	8	Yes	FACU
Black Oak/Quercus velutina	3.0	∞	Yes	UPL
Shrubs Furonean Buckthom/Francula alms	3.0	33	Yes	FAC*
Multiflora Rose/Rosa multiflora	3.0	33	Yes	FACU
Highbush Blueberry	3.0	33	Yes	FACW*
<u>Saplings</u> Hornbeam	3.0	100	Yes	FAC*
Woody Vines Oriental Bittersweet/Celastrus orbiculatus	10.5	100	Yes	UPL
<u>Trees</u> Red Maple/ <i>Acer rubrum</i>	1.227	100	Yes	FAC*

* Use an asterisk to mark wetland indicator plants

Vegetation conclusion:

Number of dominant wetland indicator plants: 8 Number of dominant non-wetland indicator plants: 8

Is the number of dominant wetland indicator plants equal to or greater than the number of dominant non-wetland indicator 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.

MA DEP; 3/95

Section II. Indicators of Hydrology Plot D1-W	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation	Site inundated:
1. Soil Survey	Depth to free water in observation hole:
Is there a published soil survey for this site?	Depth to soil saturation in observation hole: Water marks:
Title/date: Soil Survey of Worcester County Massachusetts	Nated Highest
Northeastern part	Districts;
Map number: Online map	Sediment deposits:
Soil type mapped: Quonset Loamy Sand	Drainage patterns in BVW:
Hydric soil inclusions: No	Oxidized rhizospheres:
Are field observations consistent with soil survey?	Water-stained leaves: Recorded data (stream, lake, or tidal gauge; Aerial photo; other):
Remarks:	Other:
	Vegetation and Hydrology Conclusion
2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color	
A 0"-16" 10 YR 2/2 2.5 YR 2.5/1	>/= number of non-wetland indicator plants
Bg 16"+ 5 YR 5/1 5 YR 8/1	Wetland hydrology present: Hydric soil present
Remarks: A horizon – mottle color refers to vertical organic streaking	Other indicators of hydrology
Other:	Sample location is in a BVW
Conclusion: Is soil hydric: Yes No	Submit this form with the Request for Determination of Applicability or Notice of Intent.

Prepared by: Caron Environmental Consulting Project location: Devens Applicant: Mass Development

DEP File #:

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 that dominance test used (attach additional information)

Section I. Vegetation	Observation Plot Number: D1-U	Transect Number: D1		Date of Delineation: 08/06/2018
A. Sample Layer and Plant Species	B. Percent Cover	C. Percent	D. Dominant Plant	E. Wetland Indicator
(by common/scientific name) Herbs & Seedlings	(or basal area)	Dominance	(yes or no)	Category*
Checkerberry/Gaultheria procumbens	20.5	36	Yes	FACU
Witch-Hazel	10.5	61	Yes	FACU
American Hazelnut/Corylus americana	10.5	61	Yes	FACU
Canada Mayflower/Maianthemum canadense	3.0	S	No	FACU
Shadbush/Amerlanchier canadensis	3.0	5	No	FAC*
Lowbush Blueberry	3.0	5	No	FACU
Mapleleat Viburnum/Viburnum acerifolium	3.0	5	No	UPL
Red Oak	3.0	2	No	FACU
Shrubs				
Witch-Hazel	10.5	64	Yes	FACII
American Hazelnut	3.0	18	No	FACU
Hornbeam	3.0	18	No	FAC*
Saplings White Pine	\$ 01	Ş	× ×	100714
Red Manfe	10.5	00	S	FACU
	10.3	00	Yes	FAC*
Trees				
Red Oak	3.409	20	Yes	FACU
Black Oak	2.601	38	Yes	UPL
Scarlet Oak/Quercus coccinea	099.0	10	No	UPL
white Oak	0.136	2	No	FACU

Use an asterisk to mark wetland indicator plants

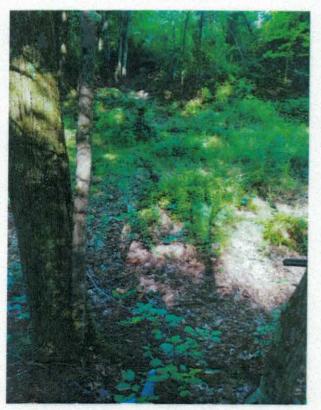
Vegetation conclusion:

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

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.

MA DEP; 3/95

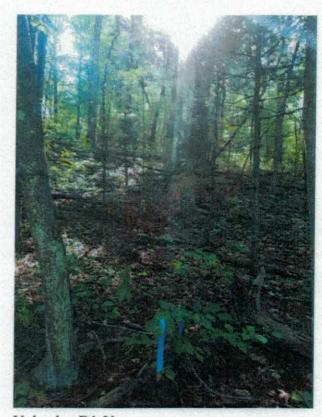
Section II.	Indicators of Hydrology	Hydrology	Plot D1-U	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation	erpretation			Site inundated:
1. Soil Survey				Depth to free water in observation hole:
			1	Depth to soil saturation in observation hole:
Is there a public	Is there a published soil survey for this site?	this site?	Yes No	Water marks:
Title/6	Title/date: Soil Survey of Worcester County Massachusetts	Worcester County	/ Massachusetts	Parity Hanne
	Northeastern part	bart		
Map n	Map number: Online map	,		Sediment deposits:
Soil ty	Soil type mapped: Quonset Loamy Sand	et Loamy Sand		Drainage patterns in BVW:
Hydric	Hydric soil inclusions:			Oxidized rhizospheres:
				Water-stained leaves:
Are field observ	Are field observations consistent with soil survey?	vith soil survey?	V Yes No	Recorded data (stream, lake, or tidal gauge; Aerial photo; other):
Remarks:				Other
				Vegetation and Hydrology Conclusion
2. Soil Description Horizon	ion Depth (inches)	Matrix Color	Mottles Color	Number of wetland indicator plants
В	1	10 YR 5/1	None	>/= number of non-wetland indicator plants
Bhs	1,2,	10 YR 4/3	None	
Bw	2"-25"+	10 YR 6/6	None	Hydric soil present
				Other indicators of hydrology
Remarks:				present 🔄
Other:				Sample location is in a BVW
Conclusion: Is soil hydric:	soil hydric:	Yes.	No	Submit this form with the Request for Determination of Applicability or Notice of Intent.



Wetland at Plot D1-W



Soil at Plot D1-W



Upland at D1-U



Soil at Plot D1-U



Caron Environmental Consulting, LLC

Wetlands • Forestry • Permitting • Habitat Studies

BLANDING'S TURTLE PROTECTION PLAN PATTON AND SHABOKIN WATER TREATMENT PLANTS PATTON AND SHERIDAN ROADS DEVENS AUGUST 2020

- 1. Blanding's Turtle Timing:
 - a. The active season is defined as April 1 to October 31.
 - b. The inactive season is defined as November 1 to March 31.
- 2. If all work can take place during the inactive season this Protection Plan does not need to be implemented.
- 3. The applicant shall implement the Blanding's Turtle Protection Plan during each and all phases of construction that occur during the active season.
- 4. Prior to the commencement of work an on-site meeting shall be held with at a minimum the following parties present: the approved biologist, the applicant, the contractor and other key personnel that might be in charge on-site. The purpose of this meeting will be to ensure that all parties are familiar with this Protection Plan and are able to identify Blanding's Turtles.
- 5. Blanding's Turtle Exclusion Barrier During Work:
 - a. An entrenched silt fencing turtle barrier shall be installed around the entire work area. If possible the installation should take place during the inactive season.
 - b. If it becomes necessary to commence work during the active season the approved biologist must conduct sweeps (as detailed below) prior to the installation of the barrier as close to the date of installation, and on the morning of the day the barrier is to be installed an additional sweep shall be conducted. Supplemental sweeps by the approved biologist must then be conducted for the two following days to ensure that no turtles are trapped inside the barrier. The total effort for this series of sweeps must meet the time requirements specified below. These sweeps must be completed before any other work may begin.
 - c. The barrier should consist of tightly woven silt fencing material, staked at a 6 to 10 foot interval. The face of the barrier must be relatively smooth. Loosely woven geotextile fabrics, hay or straw bales, wattles or tubular materials are not sufficient.
 - d. Installation of the barrier must be conducted using methods that result in a minimum of disturbance (i.e., hand dug, 2-man trencher, or auger). It is not appropriate to clear large access paths prior to the barrier installation or prior to turtle sweeps.
 - e. The barrier must be at least 2.5 feet high, vertically above the ground surface. The bottom of the silt fencing must be carefully buried in a 4 to 6 inch deep trench. The trench must be backfilled and compacted. If it is not possible to dig a trench (due to rocks, bedrock, pavement, etc.) the bottom of the silt fencing must be continuously affixed to the surface.

- f. A single gap in the barrier to serve as an access point shall be allowed. In this location the barrier shall consist of a crenelated row of haybales. If the haybales are not tight to the ground sandbags shall also be placed as needed at the base of the bales.
- g. The barrier must remain taut between the stakes. Slumps or loose materials will undermine the effectiveness of the barrier. In some circumstances the silt fencing may need to be reinforced with backer materials to ensure integrity.
- h. No work, clearing, soil or vegetation disturbance may occur outside the limit of work approved on the project plans and protected by the turtle barrier.
- Any supplemental haybales, straw wattles or other erosion control measures must be installed on the work-side of the barrier. The turtle barrier may also serve as a sedimentation control barrier where appropriate.
- j. The barrier shall be maintained in good condition throughout the construction period, and repaired or replaced as necessary.
- k. During the active season, while work is on-going, the barrier shall be inspected weekly by the approved biologist.
- 1. During the active season daily inspections of the barrier by the applicant shall occur so as to ensure that the fence remains intact.
- m. If during the active season the applicant discovers any significant gaps in the barrier that have gone undetected for more than 2 days they shall contact the approved biologist who will need to conduct a sweep of the interior as described below.
- n. If the barrier will be in place over the winter in late March or early April (dependent on snow cover conditions) the barrier must be inspected by the approved biologist to ensure that the barrier is fully functional by the start of the active season.
- o. The turtle barrier shall be removed no later than two years from the initiation of work for the relevant phase of the project. The barrier should be removed as soon as possible when it is certain that no additional work will need to take place.

6. Blanding's Turtle Sweeps During Construction:

- a. The NHESP must pre-approve the biologist before work begins. In order to handle state-listed species the biologist must obtain a Commercial Scientific Collection Permit for the project prior to conducting turtle sweeps.
- b. Sweeps of the work area shall be conducted by the approved biologist prior to the installation of the turtle barrier if it is being installed during the active season or if during the active season the applicant discovers gaps in the barrier that have gone undetected for more than two days.
- c. If a sweep is required the biologist shall make it during appropriate weather conditions. Ideal conditions for sweeps are sunny days with temperatures between 50°F and 80°F. At critical stages sweeps may be conducted outside of ideal conditions if necessary.
- d. Sweeps shall include looking on each side of the barrier, along construction and personnel access paths and within the interior of the barrier.

- e. Any cycle of sweeps requires a total effort of 2 hours/acre for grassland, 4 hours/acre for woody successional and forested areas, and 0.5 hours/acre of the gravel parking area or other areas with exposed, un-vegetated surfaces.
- f. Any rare species found shall be relocated into suitable habitat in an area nearby, but outside of the enclosed work area.
- g. In any year that sweeps occur, a brief report shall be submitted by December 31st of the same year briefly summarizing the dates of any visits, the activities conducted by the biologist on each visit, the name of the biologist who conducted each sweep, the number of hours searched and observations made and repairs suggested and implemented.
- h. All rare species observations associated with sweeps shall be reported to NHESP through a Rare Species Observation Form, preferably submitted through the Vernal Pool & Rare Species Information System, within 10 days of observation.

7. Perimeter Fences:

- a. Long-term the perimeter fences will serve to prevent turtles from entering the sites.
- b. The perimeter fence will be buried a minimum of 6" to prevent small animals from creating breaches that could be used by turtles to enter the sites.
- c. The fences shall have sweeps attached to all personnel or vehicle access gates such that there is no space between the bottom of the gate and the ground.
- d. After installation the fence shall be visually inspected by the operators at least every March and then every three months during the turtle active season to ensure that no breach repairs are necessary. Any necessary repairs shall be made in a timely manner.
- e. To avoid trapping any individuals within the fence three one-way gates will be installed equidistant along the fence. The gates will be 1'x1' openings placed 18" to 24" off the ground, with grassed ramps on the interior at an angle not greater than 45° leading up to the opening. There are no ramps on the exterior of the gates.

8. Timing of Work Outside Fence:

- a. All work including routine (but not emergency) maintenance and vegetation management located outside of the perimeter fence shall occur during the inactive season, except that the use of a weed-whacker to maintain the fence line and turtle gates is permitted at any time.
- b. This restriction does not apply to work at the existing Shabokin and Patton Well facilities, or to work within 100' of Patton Road in the vicinity of the Patton Water Treatment Plant.

9. Final Report:

a. Within 60 days of the completion of the project or any approved phase of the project, a report shall be submitted to NHESP which details conditions on the site and to serve as notice that the approved work has been completed.