

August 26, 2020

Avon Conservation Commission  
65 East Main St  
Avon, MA 02322

Re: Antone Road, Avon  
ANRAD Filing; DEP #099-0178

Dear Commission:

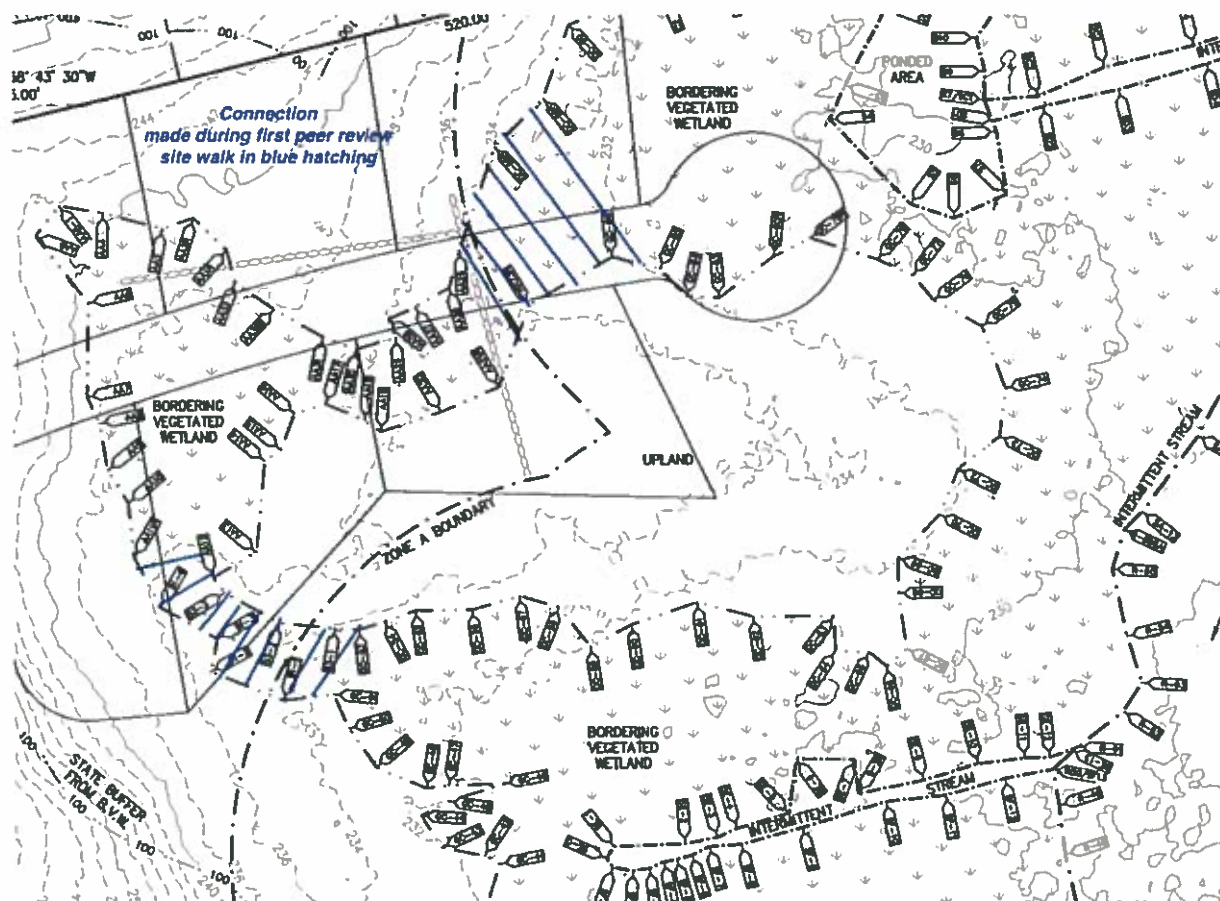
The purpose of this report is to show that the connections made during the June 11, 2020 peer review, which connected the isolated wetland to the on-site Bordering Vegetated Wetland was not supported with 50% or more wetland vegetation in several areas.

During the first BETA peer review inspection with Goddard Consulting (which occurred on June 11, 2020) two potential wetland connections were identified in the field that would connect the original Isolated Vegetated Wetland (IVW flagged with series AA1-33) to the onsite Bordering Vegetated Wetland (BVW, flagged with "GC" series). These potential connections were delineated in the field with flag series 51-1 through 51-4 and 53-1 through 53-3 (western connection) and series AA23R to GC86 and AA25 to GC88 (eastern connection) (see figures below).

Figure 1. Original wetland delineation showing isolated wetland.



Figure 2. Wetland connected after peer review inspection on June 11, 2020



Field conditions at the time of the June inspection included pockets of surface water amongst these two extremely stony areas; however, no defined Bank channel was identified within these areas during this inspection or during any other field inspections. Vegetation within these areas consisted of both upland and wetland species. According to the Accuweather website rain fall prior to the June 11, 2020 site walk for Avon Massachusetts was 0.14 inches on June 5, 1.12 inches on June 6 and 0.64 inches on June 11, 2020 (see attached data). This high amount of concentrated rain fall (1.9 inches) accounts for the ponded water observed during the June 11, 2020 site visit. No water within these two areas was observed during the initial delineation in October and November of 2020 or during the August 20, 2020 site visit.

After the June peer review inspection, Goddard Consulting re-visited the site in August to further inspect these two potential wetland connections. During this inspection, Goddard Consulting identified several upland area "breaks". These breaks continued across the entire width of the potential connections; which would cause this wetland to be isolated from the on-site BVW (and therefore the wetland delineation that occurred in October and November of 2019 would stand, see attached ANRAD plan).

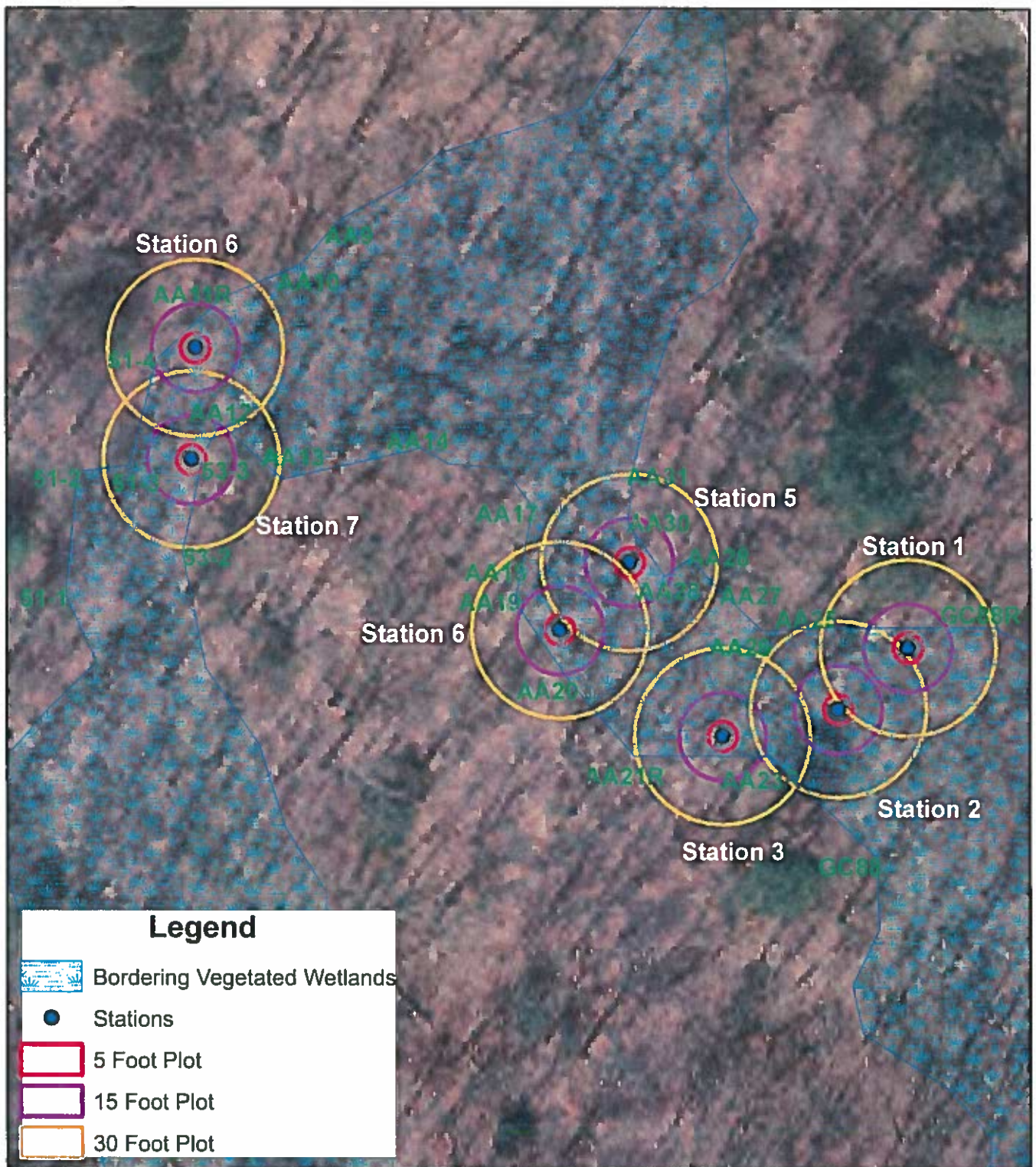
With this new information Goddard Consulting requested a second peer review site walk with Beta Group. This second site walk occurred on August 20, 2020. In attendance was Scott Goddard and Nicole Hayes of Goddard Consulting LLC, Marta Nova and Julie Stearns from Beta Group, Kevin Mooney (Avon Conservation Chairman), and Muhammad Itani (applicant). The goal of this site walk was to show Beta Group these upland area breaks that would isolate this wetland area. Beta Group observed these areas and agreed to re-inspect and re-analyze these potential breaks as identified by Goddard Consulting. During the site walk Beta Group requested that Goddard Consulting submit further data (in the form of DEP field data sheets and photographs) on these identified "upland break areas" for their review. This document is the data collected on these upland breaks.

The first series of upland breaks which were documented at stations 1, 2, and 3 (all stations were flagged with pink labeled ribbons) occurred across the eastern connected section between wetland flags AA23R and GC88R (see attached figure 3 for locations). This upland swath resembles an old upland cart path (see photograph 1). Vegetation recorded at Station 1, 2 and 3 (see attached DEP sheets and photographs) consists of more than 50% upland species and therefore causes an upland break between the flagged isolated wetland (series "AA") and the on-site BVW wetland. (flagged with series "GC").

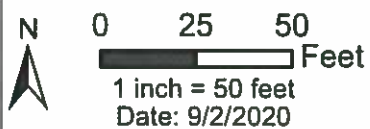
The second series of upland breaks which were documented at stations 4 and 5 occurred between wetland flags AA18 and A24/A30 (see attached figure 1 for location). Vegetation recorded at Station 4 and 5 (see attached DEP sheets and photographs) consists of more than 50% upland species and therefore causes an upland break within this second area.

The third series of upland breaks which were documented at stations 6 and 7 occurred across the western connected IVW to BVW flagged area; between flags 51-4 and 53-3 (see attached figure 1). Vegetation recorded at Station 6 and 7 (see attached DEP sheets and photographs) consists of more than 50% upland species and therefore causes an upland break within this third area.

In conclusion, the areas identified herein cause several continuous breaks of upland dominant vegetation within the potential IVW to BVW connection areas. Since these identified areas do not meet the requirements of a wetland (which requires the presence of 50% or more wetland indicator species and the presence of wetland hydrology/hydric soils) these areas cause the AA series wetland to be isolated. Furthermore, the two potential connections lack a defined bank channel of an intermittent stream.



**Figure 3. Station Locations**  
Central Street, Avon MA



GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"

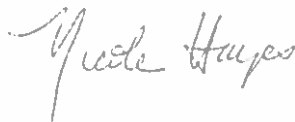


Very truly yours,



Scott Goddard,  
Principal & PWS

And



Nicole Hayes, PWS  
Senior Wetland Scientist

AccuWeather				<a href="#">RADAR &amp; MAPS</a>	<a href="#">NEWS</a>	<a href="#">VIDEO</a>	<a href="#">SEVERE WEATHER</a>	<a href="#">MORE</a>
Fri 5	80° / 64°	Actual Temp	Precip 0.14 in					
Sat 6	86° / 57°	Actual Temp	Precip 1.12 in					
Sun 7	68° / 54°	Actual Temp	Precip 0.00 in					
Mon 8	76° / 51°	Actual Temp	Precip 0.00 in					
Tue 9	77° / 60°	Actual Temp	Precip 0.00 in					
Wed 10	70° / 58°	Actual Temp	Precip 0.00 in					
Thu 11	71° / 63°	Actual Temp	Precip 0.64 in					
Fri 12	82° / 62°	Actual Temp	Precip 0.00 in					
Sat 13	71° / 52°	Actual Temp	Precip 0.00 in					
Sun 14	66° / 50°	Actual Temp	Precip 0.00 in					

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

DEP File # \_\_\_\_\_

Applicant: ANRAD extra data Prepared by: Goddard Consulting LLC Project location: Avon Antone Road

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

Section I. Vegetation	Observation Plot Number	Station I	Transsect Number	Uprgradient	Date of Delineation	20-Aug-20	Wetland Indicator Category*
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)			
<u>Tree Layer</u>							
Red Oak	<i>Quercus rubra</i>	36%	50.0%	Yes			FACU
Red Maple	<i>Acer rubrum</i>	36%	50.0%	Yes			FAC*
<u>Sapling Layer</u>							
<u>Shrub Layer</u>							
Sweet Pepperbush	<i>Clethra alnifolia</i>	10%	33.3%	Yes			FAC*
Witch Hazel	<i>Hamamelis virginiana</i>	20%	66.7%	Yes			FACU
<u>Climbing Woody Vine</u>							
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	10%	30.3%	Yes			FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	3%	9.1%	No			FAC*
Green brier	<i>Smilax rotundifolia</i>	20%	60.6%	Yes			FAC*
<u>Ground Cover</u>							
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	63%	86.3%	Yes			FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	10%	13.7%	No			FAC*

Remarks: \* An asterisk after common plant name indicates stunted growth. \*\* indicates extremely stunted growth

Morphological Adaptations: 0  
 \* An asterisk after indicator status denotes wetlands plants - plants listed in the Wetlands Protection Act (MGL c 131, s 40), plants in the genus Sphagnum, or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:  
 Number of dominant wetland indicator plants: 3  
 Number of dominant non-wetland indicator plants: 4

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

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

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?  yes  no

title/date: Soil Survey of Norfolk and Suffolk Counties - 1989

map number: \_\_\_\_\_

soil type mapped: Scituate fine sandy loam

hydric soil inclusions: \_\_\_\_\_

Are field observations consistent with soil survey?  yes  no

Remarks:

Extremely stony

**2. Soil Description**

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	0-6"	10YR2/2	loamy sand

Remarks:

refusal at 6 inches

**3. Other:**

Conclusion: Is soil hydric?  yes  no

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

Site inundated: \_\_\_\_\_

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

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

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

Drift Lines: \_\_\_\_\_

Sediment deposits: \_\_\_\_\_

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

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

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

Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_

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

Vegetation and Hydrology Conclusion for Upgradient of Station 1		
	yes	no
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present: hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

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

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

DEP File #: \_\_\_\_\_

Applicant: ANRAD extra data Prepared by: Godard Consulting LLC Project location: Avon Antone Road

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

Section I. Vegetation Observation Plot Number: Station 2      Transect Number: Upgradient      Date of Delineation: 20-Aug-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<b>Tree Layer</b>					
Red Maple	<i>Acer rubrum</i>	36%	100.0%	Yes	FAC*
<b>Scrub Layer</b>					
<i>Sweet Pepperbush</i>					
Witch Hazel	<i>Clethra alnifolia</i> <i>Hamamelis virginiana</i>	36%	50.0%	Yes	FAC*
<b>Climbing Woods Vine</b>					
<i>Virginia-creeper</i>					
<i>Eastern poison ivy</i>					
<i>Green brier</i>					
<b>Ground Cover</b>					
<i>High-scorched fern</i>					
<i>Virginia-creeper</i>					
<i>Eastern poison ivy</i>					

Remarks: \* An asterisk after common plant name indicates stunted growth. \*\* indicates extremely stunted growth

Morphological Adaptations: 0      Description: \_\_\_\_\_

\* An asterisk after indicator status denotes wetlands plants; plants listed in the Wetlands Protection Act (MGL c 131, s.40), plants in the genus Sphagnum, or plants listed as FAC, FACW, or OBL.

Vegetation conclusion: Number of dominant wetland indicator plants: 3      Number of dominant non-wetland indicator plants: 4

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

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



**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?  yes  no

title/date: Soil Survey of Norfolk and Suffolk Counties - 1989

map number: \_\_\_\_\_

soil type mapped: Scituate fine sandy loam

hydric soil inclusions: \_\_\_\_\_

Are field observations consistent with soil survey?  yes  no

Remarks:

Extremely stony

**2. Soil Description**

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	0-4"	10YR2/2	loamy sand

Remarks:

refusal at 4 inches

**3. Other:**

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

Conclusion: Is soil hydric?  yes  no

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

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift Lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_
- Other: \_\_\_\_\_

Vegetation and Hydrology Conclusion for Upgradient of Station 2	Yes	No
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present: hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

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

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

DEP File #: \_\_\_\_\_

Applicant: ANKRAD extra data Prepared by: Goddard Consulting LLC Project location: Avon Antone Road

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

Section I. Vegetation Observation Plot Number: Station 3 Transect Number: Upgradient Date of Delineation: 20-Aug-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<b>Tree Layer</b>					
Red Maple	<i>Acer rubrum</i>	36%	100.0%	Yes	FAC*
<b>Shrub Layer</b>					
Sweet Pepperbush	<i>Celtis occidentalis</i>	10%	25.0%	Yes	FAC*
White pine	<i>Pinus strobus</i>	10%	25.0%	Yes	FACU
American hazelnut	<i>Corylus americana</i>	10%	25.0%	Yes	FACU
<b>Climbing Vines</b>					
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	10%	25.0%	Yes	FACU
Green brier	<i>Smilax rotundifolia</i>	10%	25.0%	Yes	FAC*
Fox grape	<i>Vitis labrusca</i>	20%	50.0%	Yes	FACU
<b>Ground Cover</b>					
Hay-scented fern	<i>Demissaedia punctilobula</i>	20%	19.4%	No	UPL
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	63%	61.2%	Yes	FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	10%	9.7%	No	FAC*
Canada mayflower	<i>Maianthemum canadense</i>	10%	9.7%	No	FACU

Remarks: \* An asterisk after common plant name indicates stunted growth. \*\* indicates extremely stunted growth

Morphological Adaptations: 0 Description: \_\_\_\_\_

\* An asterisk after indicator status denotes wetlands plants - plants listed in the Wetlands Protection Act (MGL c 131, s.40), plants in the genus Sphagnum, or plants listed as FAC, FACW, or OBL.

Vegetation conclusion: **Number of dominant wetland indicator plants: 3** **Number of dominant non-wetland indicator plants: 6**

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

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

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?  yes  no

title/date: Soil Survey of Norfolk and Suffolk Counties - 1989

map number: \_\_\_\_\_

soil type mapped: Scituate fine sandy loam

hydric soil inclusions: \_\_\_\_\_

Are field observations consistent with soil survey?  yes  no

Remarks:

Extremely stony  
\_\_\_\_\_  
\_\_\_\_\_

**2. Soil Description**

<u>Horizon</u>	<u>Depth (inches)</u>	<u>Matrix Color</u>	<u>Mottles Color or Texture</u>
<u>A</u>	<u>0-2"</u>	<u>10YR2/2</u>	<u>loamy sand</u>

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

Remarks:

refusal at 2 inches  
\_\_\_\_\_  
\_\_\_\_\_

**3. Other:**

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

Conclusion: Is soil hydric?  yes  no

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

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift Lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_
- Other: \_\_\_\_\_

<b>Vegetation and Hydrology Conclusion for Upgradient of Station 3</b>	<b>yes</b>	<b>no</b>
Number of wetland indicator plants >= number of non-wetland plants		<b>X</b>
Wetland hydrology present: hydric soils present		<b>X</b>
other indicators of hydrology present		<b>X</b>
Sample location is in a BVW		<b>X</b>

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



**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?  yes  no

title/date: Soil Survey of Norfolk and Suffolk Counties - 1989

map number: \_\_\_\_\_

soil type mapped: Scituate fine sandy loam

hydric soil inclusions: \_\_\_\_\_

Are field observations consistent with soil survey?  yes  no

Remarks:

Extremely stony

**2. Soil Description**

Horizon

Depth (inches)

Matrix Color

Mottles Color or Texture

A 0-4" 10YR2/2 loamy sand

Remarks:

refusal at 4 inches

3. Other:

Conclusion: Is soil hydric?  yes  no

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

Site inundated: \_\_\_\_\_

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

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

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

Drift Lines: \_\_\_\_\_

Sediment deposits: \_\_\_\_\_

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

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

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

Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_

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

**Vegetation and Hydrology Conclusion for Upgradient of Station 4**

yes no

Number of wetland indicator plants >= number of non-wetland plants  yes  no

Wetland hydrology present: hydric soils present  yes  no

other indicators of hydrology present  yes  no

Sample location is in a BVW  yes  no

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

DEP File # \_\_\_\_\_

Applicant: **ANRAD extra data** Prepared by: **Goddard Consulting LLC** Project location: **Avon Antone Road**

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

Section I. Vegetation Observation Plot Number: **Station 5** Transsect Number: **Upperradiant** Date of Delineation: **20-Aug-20**

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<b>Tree Layer</b>					
Red Oak	<i>Quercus rubra</i>	36%	64.3%	Yes	FACU
Red maple	<i>Acer rubrum</i>	20%	35.7%	Yes	FAC*
<b>Shrub Layer</b>					
Spicebush	<i>Lindera benzoin</i>	10%	13.2%	No	FACW*
White pine	<i>Pinus strobus</i>	20%	26.3%	Yes	FACU
Ironwood	<i>Carpinus caroliniana</i>	36%	47.4%	Yes	FAC*
American hazelnut	<i>Corylus americana</i>	10%	13.2%	No	FACU
<b>Climbing Wreath Vine</b>					
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	10%	50.0%	Yes	FACU
Green brier	<i>Smilax rotundifolia</i>	10%	50.0%	Yes	FAC*
<b>Ground Cover</b>					
Hay-scented fern	<i>Dennstaedtia punctilobula</i>	10%	23.3%	Yes	UPL
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	10%	23.3%	Yes	FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	10%	23.3%	Yes	FAC*
Canada mayflower	<i>Maianthemum canadense</i>	3%	7.0%	No	FACU
Whiplash dewberry	<i>Rubus flagellaris</i>	10%	23.3%	Yes	FACU

Remarks: \* An asterisk after common plant name indicates stunted growth. \*\* indicates extremely stunted growth

Morphological Adaptations: 0 Description: \_\_\_\_\_

\* An asterisk after indicator status denotes wetlands plants - plants listed in the Wetlands Protection Act (MGL c 131, s 40), plants in the genus Sphagnum, or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

Number of dominant wetland indicator plants: 4

Number of dominant wetland indicator plants? **no**

Number of dominant non-wetland indicator plants: 6

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

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?

yes  no

title/date: Soil Survey of Norfolk and Suffolk Counties - 1989

map number: \_\_\_\_\_

soil type mapped: Scituate fine sandy loam

hydric soil inclusions: \_\_\_\_\_

Are field observations consistent with soil survey?

yes  no

Remarks:

Extremely stony

**2. Soil Description**

<u>Horizon</u>	<u>Depth (inches)</u>	<u>Matrix Color</u>	<u>Mottles Color or Texture</u>
<u>A</u>	<u>0-4"</u>	<u>10YR2/2</u>	<u>loamy sand</u>

Remarks:

refusal at 4 inches

**3. Other:**

Conclusion: Is soil hydric?

yes

no

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

Site inundated: \_\_\_\_\_

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

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

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

Drift Lines: \_\_\_\_\_

Sediment deposits: \_\_\_\_\_

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

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

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

Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_

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

<b>Vegetation and Hydrology Conclusion for Upgradient of Station 5</b>		<b>yes</b>	<b>no</b>
Number of wetland indicator plants >= number of non-wetland plants			<b>X</b>
Wetland hydrology present: hydric soils present			<b>X</b>
other indicators of hydrology present			<b>X</b>
Sample location is in a BVW			<b>X</b>

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

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

DEP File # \_\_\_\_\_

Applicant: **ANRAD** extra data

Prepared by: **Goddard Consulting LLC**

Project location: **Avon Antone Road**

Check all that apply:  Vegetation alone presumed adequate to delineate BYW boundary; fill out Section I only.  Vegetation and other indicators of hydrology used to delineate BYW boundary; fill out Sections I and II.  Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: **Station 6** Transsect Number: **Upgradient** Date of Delineation: **20-Aug-20**

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<b>Tree Layer</b>					
Red maple	<i>Acer rubrum</i>	36%	100.0%	Yes	FAC*
<b>Sailling Layer</b>					
Hop Hornbeam	<i>Osira virginiana</i>	35%	100.0%	Yes	FACU
<b>Shrub Layer</b>					
Hop Hornbeam	<i>Osira virginiana</i>	10%	30.3%	Yes	FACU
White pine	<i>Pinus strobus</i>	10%	30.3%	Yes	FACU
Ironwood	<i>Carpinus caroliniana</i>	3%	9.1%	No	FAC*
American hazelnut	<i>Corylus americana</i>	10%	30.3%	Yes	FACU
<b>Climbing Woody Vine</b>					
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	5%	33.3%	Yes	FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	10%	66.7%	Yes	FAC*
<b>Ground Cover</b>					
New York fern	<i>Paralobolophrys noveboracensis</i>	10%	14.5%	No	FAC*
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	36%	52.2%	Yes	FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	20%	29.0%	Yes	FAC*
Canada mayflower	<i>Akianthium canadense</i>	3%	4.3%	No	FACU

Remarks: \* An asterisk after common plant name indicates stunted growth. \*\* indicates extremely stunted growth

Morphological Adaptations: 0 Description: \_\_\_\_\_

\* An asterisk after indicator status denotes wetlands plants - plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion: **Number of dominant wetland indicator plants: 3** **Number of dominant non-wetland indicator plants: 6**

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

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



**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?

yes  no

title/date: Soil Survey of Norfolk and Suffolk Counties - 1989

map number: \_\_\_\_\_

soil type mapped: Scituate fine sandy loam

hydric soil inclusions: \_\_\_\_\_

Are field observations consistent with soil survey?

yes  no

Remarks:

Extremely stony

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

**2. Soil Description**

Horizon

Depth (inches)

Matrix Color

Mottles Color or Texture

A

0-3"

10YR2/2

loamy sand

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

Remarks:

refusal at 3 inches

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

**3. Other:**

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

Conclusion: Is soil hydric?

yes

no

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

Site inundated: \_\_\_\_\_

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

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

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

Drift Lines: \_\_\_\_\_

Sediment deposits: \_\_\_\_\_

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

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

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

Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_

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

Vegetation and Hydrology Conclusion for Upgradient of Station 6		
	<u>yes</u>	<u>no</u>
Number of wetland indicator plants >= number of non-wetland plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wetland hydrology present: hydric soils present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
other indicators of hydrology present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample location is in a BVW	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

DEP File # \_\_\_\_\_

Applicant: ANRAD extra data Prepared by: Goddard Consulting LLC Project location: Avon Antone Road  
 Check all that apply:  Vegetation alone presumed adequate to delineate BVW boundary - fill out Section I only  
 Vegetation and other indicators of hydrology used to delineate BVW boundary - fill out Sections I and II  
 Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: Station 7 Transsect Number: Upgradient Date of Delineation: 20-Aug-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<i>Tree Layer</i>					
Red maple	<i>Acer rubrum</i>	36%	100.0%	Yes	FAC*
<i>Sapling Layer</i>					
Hop Hornbeam	<i>Osirea virginiana</i>	10%	100.0%	Yes	FACU
<i>Shrub Layer</i>					
Hop Hornbeam	<i>Osirea virginiana</i>	36%	52.2%	Yes	FACU
Witch hazel	<i>Hamamelis virginiana</i>	20%	29.0%	Yes	FACU
Ironwood	<i>Carpinus caroliniana</i>	3%	4.3%	No	FAC*
American hazelnut	<i>Corylus americana</i>	10%	14.5%	No	FACU
<i>Climbing Hoop Vine</i>					
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	100%	50.0%	Yes	FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	100%	50.0%	Yes	FAC*
<i>Ground Cover</i>					
New York fern	<i>Paralithypteris noveboracensis</i>	10%	21.7%	Yes	FAC*
Virginia-creeper	<i>Parthenocissus quinquefolia</i>	10%	21.7%	Yes	FACU
Eastern poison ivy	<i>Toxicodendron radicans</i>	10%	21.7%	Yes	FAC*
Canada mayflower	<i>Maianthemum canadense</i>	3%	6.5%	No	FACU
White pine	<i>Pinus strobus</i>	10%	21.7%	Yes	FACU
Sassafras	<i>Aralia nudicaulis</i>	3%	6.5%	No	FACU

Remarks: \* An asterisk after common plant name indicates stunted growth; \*\* indicates extremely stunted growth

Morphological Adaptations: 0 Description: \_\_\_\_\_

\* An asterisk after indicator status denotes wetlands plants - plants listed in the Wetlands Protection Act (MGL c.131, s.40), plants in the genus Sphagnum, or plants listed as FAC, FACW, or OBL.

Vegetation conclusion: Number of dominant non-wetland indicator plants? 6

Number of dominant wetland indicator plants: 4 Number of dominant non-wetland indicator plants? no

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

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

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

**1. Soil Survey**

Is there a published soil survey for this site?  yes  no

title/date: Soil Survey of Norfolk and Suffolk Counties - 1989

map number: \_\_\_\_\_

soil type mapped: Scituate fine sandy loam

hydric soil inclusions: \_\_\_\_\_

Are field observations consistent with soil survey?  yes  no

Remarks:

Extremely stony

**2. Soil Description**

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	0-2"	10YR2/2	loamy sand

Remarks:

refusal at 2 inches

**3. Other:**

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

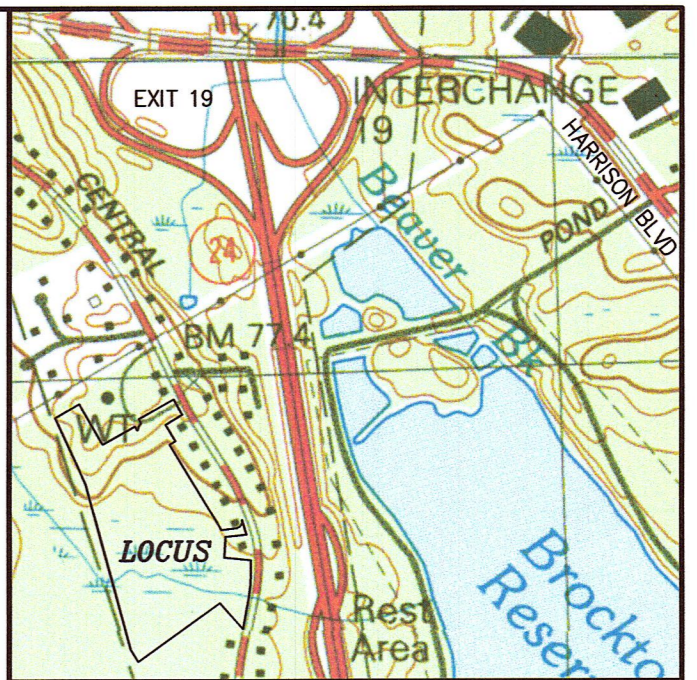
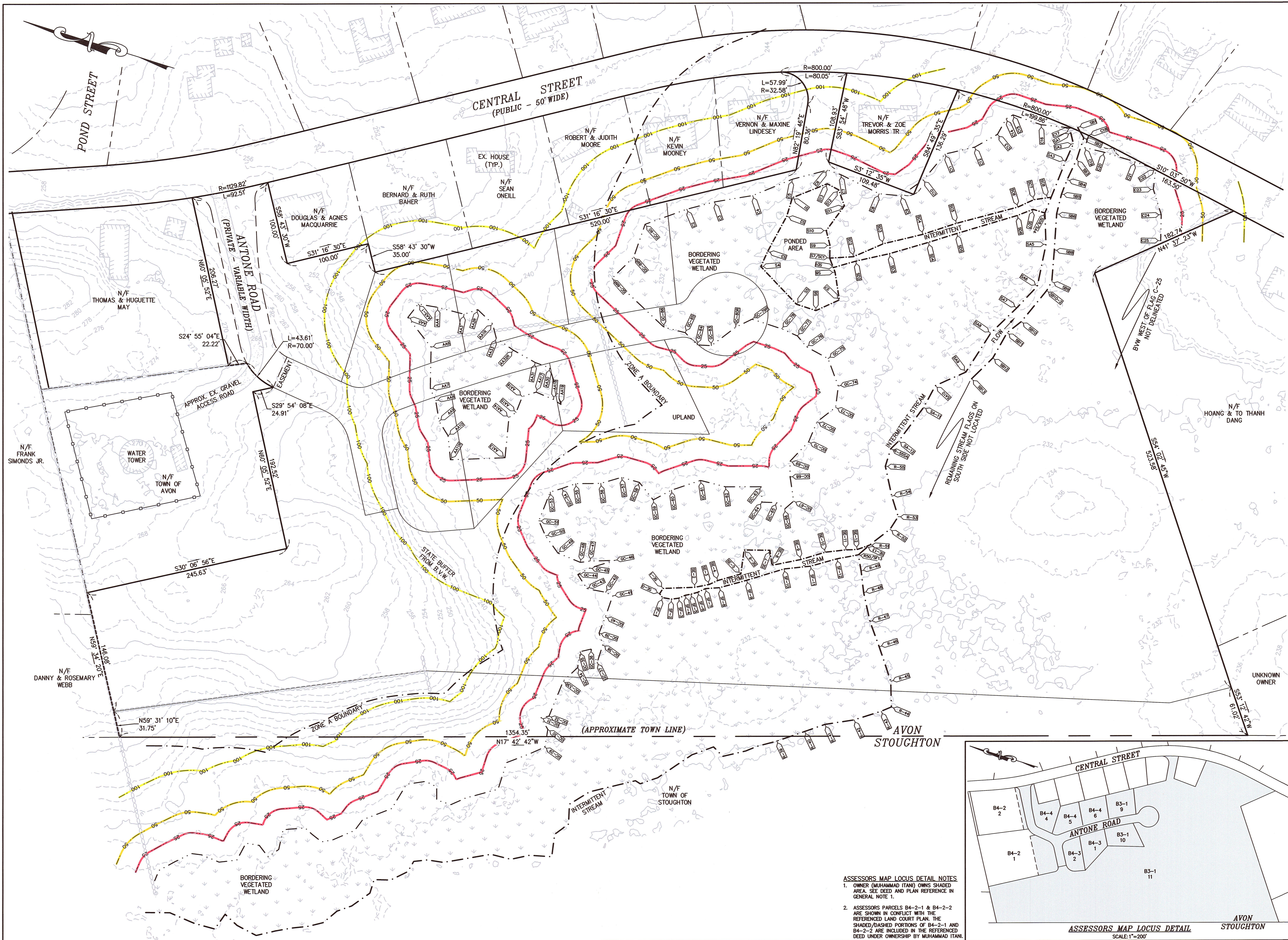
Conclusion: Is soil hydric?  yes  no

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

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift Lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_
- Other: \_\_\_\_\_

Vegetation and Hydrology Conclusion for Upgradient of Station 7	yes	no
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present: hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

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



**LOCUS**  
N.T.S.

**GENERAL NOTES**

1. PLAN REFERENCE:
  - 1.1. FOR DEED REFERENCE SEE LAND COURT DOCUMENT NUMBER 1378944 IN THE NORFOLK COUNTY REGISTRY OF DEEDS.
  - 1.2. FOR PLAN REFERENCE SEE LAND COURT PLAN NUMBER 23505 I IN THE NORFOLK COUNTY REGISTRY OF DEEDS.
  - 1.3. EXISTING HOMES AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS TAKEN FROM MASS GIS DATA AND SHOULD BE CONSIDERED APPROXIMATE. ELEVATIONS ARE BASED ON NAVD88 DATUM.
  - 1.4. ALL DELINEATED RESOURCE AREAS SHOWN HEREON WERE FLAGGED BY SCOTT GODDARD OF GODDARD CONSULTING LLC IN FALL OF 2019 AND LOCATED BY INSTRUMENT SURVEY PERFORMED BY OUTBACK ENGINEERING INC IN DECEMBER OF 2019.
2. THE SITE FALLS WITHIN ZONE X, AREA OF MINIMAL FLOOD HAZARD, AND ZONE X, AREA WITH A 0.2% ANNUAL CHANCE FLOOD HAZARD OR 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH OF LESS THAN ONE FOOT OR WITH DRAINAGE AREA OF LESS THAN ONE SQUARE MILE. FLOOD INSURANCE RATE MAP NUMBER: 250210381E, EFFECTIVE DATE: 7-17-12.
3. THE SITE IS PARTIALLY LOCATED WITHIN A ZONE A SURFACE WATER SUPPLY PROTECTION AREA. THIS SITE IS NOT LOCATED WITHIN A ZONE II GROUNDWATER PROTECTION AREA.
4. THE SITE IS NOT LOCATED WITHIN A PRIORITY HABITAT AND IS NOT LOCATED WITHIN AN ESTIMATED HABITAT ACCORDING TO THE LATEST NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM ONLINE MAPS.
5. ALL EXISTING UTILITY INFORMATION IS FROM THE BEST AVAILABLE INFORMATION SUPPLIED BY FIELD SURVEY PERFORMED BY OUTBACK ENGINEERING, INC. AND IS TO BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL NOTIFY DIGSAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO THE ONSET OF ANY CONSTRUCTION TO HAVE ALL EXISTING UTILITIES LOCATED AND CLEARLY MARKED.

**OWNER**  
MUHAMMAD ITANI  
24 FOREST EDGE ROAD  
SOUTH EASTON, MA 02375

**ASSESSORS PARCELS (MAP-BLOCK-LOT)**  
B3-1-9, B3-1-10, B3-1-11, B4-3-1, B4-3-2, B4-4-4, B4-4-5, B4-4-6, A PORTION OF B4-2-1 & B4-2-2

**PLAN TO ACCOMPANY ANRAD FILING FOR ANTONE ROAD IN AVON MASSACHUSETTS**

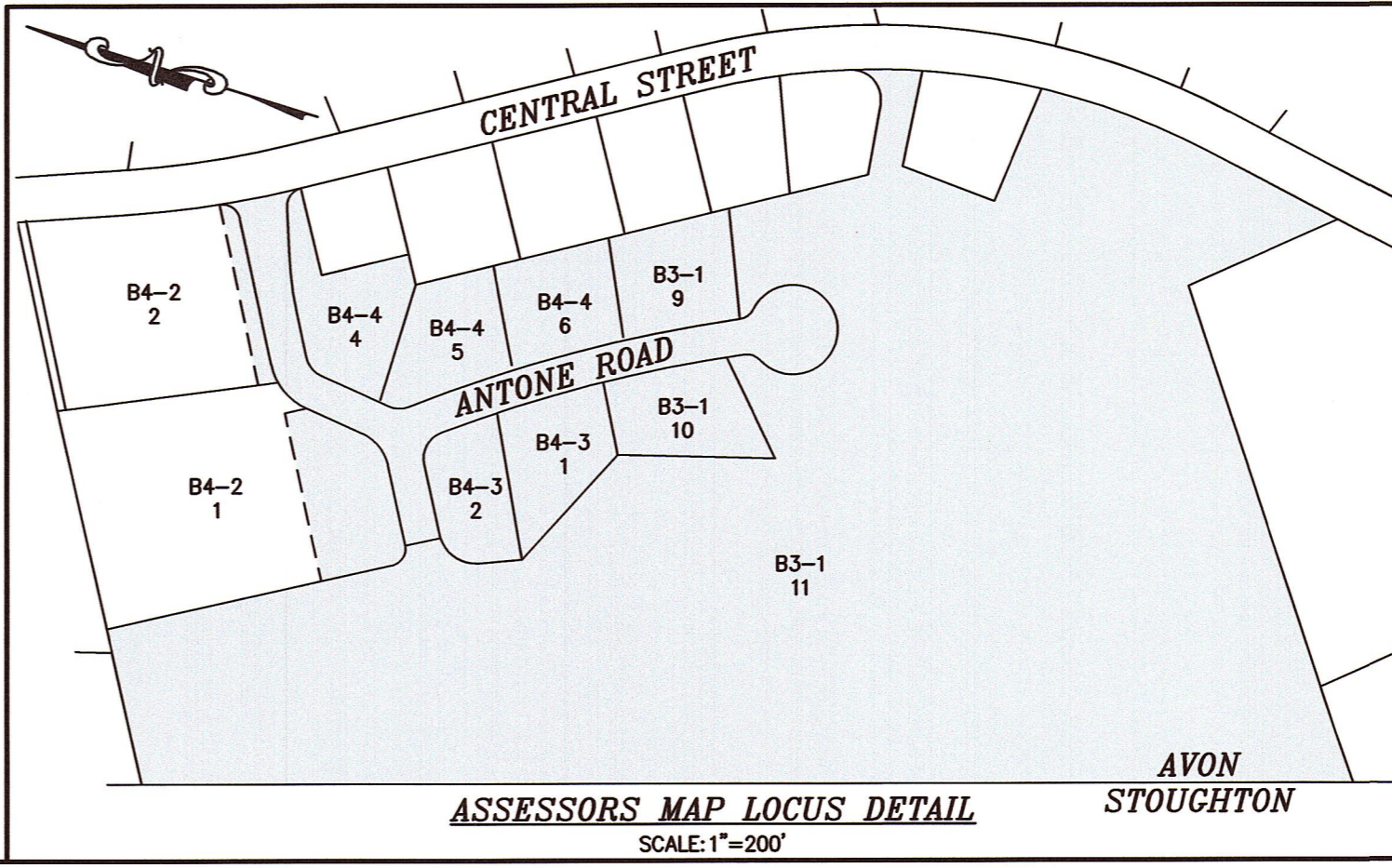


165 EAST GROVE STREET  
MIDDLEBOROUGH, MA 02346  
TEL: (508)-946-9231  
FAX: (508)-947-8873  
www.outback-eng.com

DATE: MARCH 13, 2020  
REVISED: JUNE 29, 2020  
REVISED: SEPTEMBER 3, 2020  
DRAWN BY: T.E.M. CHECKED BY: J.A.P.  
SCALE: 1"=50' SHEET 1 OF 1

**ASSESSORS MAP LOCUS DETAIL NOTES**

1. OWNER (MUHAMMAD ITANI) OWNS SHADED AREA. SEE DEED AND PLAN REFERENCE IN GENERAL NOTE 1.
2. ASSESSORS PARCELS B4-2-1 & B4-2-2 ARE SHOWN IN CONFLICT WITH THE REFERENCED LAND COURT PLAN. THE SHADED/DASHED PORTIONS OF B4-2-1 AND B4-2-2 ARE INCLUDED IN THE REFERENCED DEED UNDER OWNERSHIP BY MUHAMMAD ITANI.



**ASSESSORS MAP LOCUS DETAIL**  
SCALE: 1"=200'