April 22, 2016

Site Design Engineering LLC
11 Cushman Street
Middleboro, MA 02346

Re: 2301 Purchase Street, New Bedford, MA

Dear Mr. Hardman:

On April 20, 2016, the wetland resources were delineated on a portion of land located at the above referenced site. The wetland border was flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al and the New Bedford Wetland Protection Ordinance. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

Two portions of a Bordering Vegetated Wetland were delineated on-site. This wetland system was flagged with series GC A1-21 and GC B1-35; currently there is fill and debris material located between the two flagged area which is vegetated with upland plant species. It was believed that these two wetlands were once connected but over the sites past history has been impacted. The wetlands on site are dominant in red maple, willow, buckthorn, arrow-wood, grape, rose, phragmites, poison ivy and wetland ferns. The adjacent upland is dominant in oak, honeysuckle, buckthorn, blackberry, rose, goldenrod, crabapple and upland grass. Department of Environmental Protection BVW field data forms were documented at wetland flag # GC-B18 (see attached form).

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife and no mapped certified or potential vernal pools are located on site. The site is not located in an ACEC or a jurisdictional FEMA Flood Zone.

The local Wetland Protection Ordinance and the MA Wetlands Protection Act takes jurisdiction over BVW. In addition, the BVW resource areas has a jurisdictional 100-foot Buffer Zone. Any work within the resource areas and/or 100-foot buffer zone requires a Request for Determination (RDA) or Notice of Intent (NOI) be filed with the Conservation Commission.

Sincerely,
GODDARD CONSULTING, LLC

by

Nicole Hayes

Nicole Hayes, PWS
Senior Scientist

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

Applicant: **Site Design Engineering** Prepared by: **Goddard Consulting LLC** Project location: **2301 Purchase St, New Bedford** 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 than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: **B18** Transect Number: **Upgradient** Date of Delineation: **20-Apr-16**

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Sapling Layer					
Shrub Layer					
Rambler rose	*Rosa multiflora*	63%	63.6%	Yes	FACU
Honeysuckle	*Lonicera sp.*	36%	36.4%	Yes	FACU
Climbing Woody Vine					
Ground Cover					
Goldenrod	*Solidago sp.*	63%	100.0%	Yes	NI

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

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

If vegetation alone is presumes 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 Bristol County, Southern Part - 1981**

map number:

soil type mapped: **Urban land**

hydric soil inclusions: **No**

Are field observations consistent with soil survey? ☐ yes ☑ no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	1-8	10YR2/1	
C	8-14	10YR6/1	

Remarks:

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 rhizoshperes:
- ☐ Water-stained leaves:
- ☐ Recorded data (stream, lake, or tidal gauge; aerial photo; other):
- ☐ Other:

Vegetation and Hydrology Conclusion for Upgradient of B18

	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

Applicant: **Site Design Engineering** Prepared by: **Goddard Consulting LLC** Project location: **2301 Purchase St, New Bedford** 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 than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: **B18** Transect Number: **Downgradient** Date of Delineation: **20-Apr-16**

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Maple	*Acer rubrum*	20%	66.7%	Yes	FAC*
Green ash	*Fraxinus pennsylvanica*	10%	33.3%	Yes	FACW*
Sapling Layer					
Red maple	*Acer rubrum*	3%	100.0%	Yes	FAC*
Shrub Layer					
Rambler rose	*Rosa multiflora*	20%	50.0%	Yes	FACU
Ash-leaf maple	*Acer negundo*	20%	50.0%	Yes	FAC*
Climbing Woody Vine					
Eastern poison ivy	*Toxicodendron radicans*	10%	50.0%	Yes	FAC*
Grape	*Vitis sp.*	10%	50.0%	Yes	UNKNOWN
Ground Cover					
Common reed	*Phragmites australis*	36%	78.3%	Yes	FACW*
Eastern poison ivy	*Toxicodendron radicans*	10%	21.7%	Yes	FAC*

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

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

If vegetation alone is presumes 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 Bristol County, Southern Part - 1981**

map number:

soil type mapped: **Udorthents**

hydric soil inclusions: **No**

Are field observations consistent with soil survey? ☐ yes ☑ no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
O	1-12	10YR2/1	
C	12-20	10YR6/1	

Remarks:

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: 4"
- ☐ Depth to soil saturation in observation hole:
- ☐ Water marks:
- ☐ Drift Lines:
- ☐ Sediment deposits:
- ☑ Drainage patterns in BVW:
- ☑ Oxidized rhizoshperes:
- ☑ Water-stained leaves:
- ☐ Recorded data (stream, lake, or tidal gauge; aerial photo; other):
- ☐ Other:

Vegetation and Hydrology Conclusion for Downgradient of B18

	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