Applicant: Thorndike Place Prepared by: BSC Group, Inc. (SMM & EPS) Project location: Isolated Area, behind houses DEP File #:_____

Check all that apply:



U 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 Num	ber: 1 (Wetland)	Transect Number: 1	Date of Delineation: 10/15/2020
A. Sample Layer & Plant Species	B. Percent Cover (or	C. Percent	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
(by common/scientific name)	basal Area)	Dominance		
Trees				
Ailanthus altissima / Tree of Heaven	63%	52%	Yes	NI
*Acer rubrum/ Red maple	38%	31%	Yes	FACW+
*Acer negundo/ Box elder	10.5%	9%	No	FAC+
* <i>Ulmus rubra/</i> Slippery elm	10.5%	9%	No	FAC
Total Percent Cov	er: 122%			
<u>Shrubs/ Saplings</u>				
*Acer negundo/ Box elder	10.5%	100%	Yes	FAC+
Acer negundo, box elder	10.070	10070	165	TAGT
Total Percent Cov	ver: 10.5%			
Herbaceous				
Fallopia japonica/ Japanese knotweed	63%	86%	Yes	FACU-
Alliaria petiolata/ Garlic mustard	10.5%	14%	No	FACU-
Total Percent Cov	er: 73.5%			
<u>Vines</u>				
Celastrus orbiculatus/ Asian bittersweet	10.5%	50.00%	Yes	FACU
<i>Vitis labrusca/</i> Fox grape	10.5%	50.00%	Yes	FACU

Total Percent Cover: 21%

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

Vegetation conclusion:

Number of dominant wetland indicator plants: 2 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes 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

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? ves no title/date: WebSoil Survey/ 2020 map number: 655 soil type mapped: Udorthents, wet substratum hydric soil inclusions: Yes

Are field observations consistent with soil survey? ves no Remarks:

2. Soil Description

Horizon Ap	Depth 0-14"	Matrix Color 10YR 2/1 (60%) 10YR 2/2 (40%)	Mottles Color -	Texture Sandy loam
В	14"+	2.5YR 8/4 (90%) 10YR 7/8 (10%)) -	Sandy loam

Remarks: Area previously disturbed

3. Other:

Conclusion: Is soil hydric? yes no

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

- Site Inundated: ______
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: ______
- Drift lines:
- Sediment Deposits: ______

- Drainage patterns in BVW: ______
- Oxidized rhizospheres: ______
- Water-stained leaves: ______

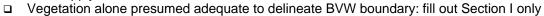


Recorded Data (streams, lake, or tidal gauge; aerial photo; other): Other: <u>Buttressing of Ailanthus altissima</u>

Vegetation and Hydrology Conclusion		
	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants		х
Wetland hydrology present:		
Hydric soil present	Х	
Other indicators of hydrology present	X	
Sample location is in a BVW		х
Submit this form with the Request for Determination of Applicability	or Notice of Intent.	

Applicant: Thorndike Place Prepared by: BSC Group, Inc. (SMM & EPS) Project location: Isolated Area, behind houses DEP File #:___

Check all that apply:



O 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 Num	ber: 2 (Upland)	Transect Number: 1	Date of Delineation: 10/15/2020
A. Sample Layer & Plant Species	B. Percent Cover (or	C. Percent	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
(by common/scientific name)	basal Area)	Dominance		
Trees				
*Acer negundo/ Box elder	85.5%	64%	Yes	FAC+
Ailanthus altissima/ Tree of Heaven	38%	28%	No	NI
Quercus alba/ Northern white oak	10.5%	8%	No	FACU-
Total Percent Cov	/er: 134 %			
Shrubs/ Saplings				
*Acer negundo/ Box elder	63%	52%	Yes	FAC+
Rosa multiflora/Multiflora rose	38%	31%	No	FACU
*Ulmus rubra/ Slippery elm	20.5%	17%	No	FAC
T (10 (0	101 501			
Total Percent Cov	/er: 121.5%			
Herbaceous	85.5%	100%	Yes	FACU-
Alliaria petiolate/ Garlic mustard	00.0%	100%	Tes	FACU-
Total Percent Cou	var: 85 5%			
Total Percent Cover: 85.5% <u>Vines</u>				
Absent				
Total Percent Cov	/er: 0%			

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

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 1

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

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? ves no title/date: WebSoil Survey/ 2020 map number: 655 soil type mapped: Udorthents, wet substratum hydric soil inclusions: Yes

Are field observations consistent with soil survey? ves no Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color	Texture
0	1-0"			
А	0-3"	10YR 2/2	-	Sandy loam
В	3-9"	10YR 3/3	-	Sandy loam

Remarks: Area previously disturbed

3. Other:

Conclusion: Is soil hydric? yes no

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

- Site Inundated: ______
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: ______
- Drift lines:
- Sediment Deposits: ______
- Drainage patterns in BVW: _____

Vegetation and Hydrology Conclusion		
	Yes	No
Number of wetland indicator plants > # of non-wetland indicator plants	Х	
Wetland hydrology present:		
Hydric soil present		х
Other indicators of hydrology present		х
Sample location is in a BVW	х	
		no
Submit this form with the Request for Determination of Applicab	ility or Notice of Inten	t.

- Oxidized rhizospheres: ______
- Water-stained leaves: ______
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
 Other: _

Applicant: Thorndike Place Prepared by: BSC Group, Inc. (SMM & EPS) Project location: Arlington- Near flag D-18 DEP File #:___

Check all that apply:



U 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 Num	ber: 1 (Wetland)	Transect Number: 2	Date of Delineation: 10/15/2020
A. Sample Layer & Plant Species	B. Percent Cover (or	C. Percent	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
(by common/scientific name)	basal Area)	Dominance		
Trees				
*Acer negundo/ Boxelder	20.5%	32%	Yes	FAC+
*Acer saccharinum/ Silver maple	20.5%	32%	Yes	FACW
Populus tremulas/ Quaking aspen	20.5%	32%	No	FACU
Prunus serotina/Black cherry	3%	5%	No	FACU
Total Percent Co	over: 64.5%			
<u>Shrubs/ Saplings</u>				
*Rhamnus frangula/ Glossy buckthorn	20.5%	55%	Yes	FAC
*Acer saccharinum/ Silver maple	10.5%	28%	Yes	FACW
<i>*Fraxinus pennsylvanica/</i> Green ash	3%	8%	No	FACW
Rubus strigosus/Common red raspberry	3%	8%	No	FAC-
Total Percent Co	over: 37%			
Herbaceous				
*Onoclea sensibilis/ Sensitive fern	85.5%	100%	Yes	FACW
Tatal Damant Ca				
Total Percent Co	over: 89%			
<u>Vines</u>				
Absent Total Percent Co	war: 0%			

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

Vegetation conclusion:

Number of dominant wetland indicator plants: 4 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Ves 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

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? ves no title/date: WebSoil Survey/ 2020 map number: 51A soil type mapped: Swansea muck hydric soil inclusions: Yes

Are field observations consistent with soil survey? ves no Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color	Texture
Oe	0-0.5"			
А	0-1"	10YR2/1	-	Mucky modified SL
Ae	1-4"	10YR 4/2	5YR3/4 (5%)	Mucky modified
				sandy loam
Bg	4-14"	2.5YR 6/3	7.5YR 4/6 (12%)	sandy loam
Bg	4-14"	2.5YR 6/3	7.5YR 4/6 (12%)	

Remarks:

3. Other:

Conclusion: Is soil hydric? ves no

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

- Site Inundated: ______
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: ______
- Drift lines:
- Sediment Deposits: ______

- Drainage patterns in BVW: _____
- Oxidized rhizospheres: ______
- Water-stained leaves: ______
- □ Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
- Other: _

Vegetation and Hydrology Conclusion		
	Yes	No
Number of wetland indicator plants	х	
≥ # of non-wetland indicator plants	~	
Wetland hydrology present:		
Hydric soil present	х	
Other indicators of hydrology present		X
Sample location is in a BVW	Х	
Submit this form with the Request for Determination of Applicability	or Notice of Intent.	

Applicant: Thorndike Place Prepared by: BSC Group, Inc. (SMM & EPS) Project location: Arlington- Near flag D-18 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 Num	ber: 2 (Upland)	Transect Number: 2	Date of Delineation: 10/15/2020
A. Sample Layer & Plant Species	B. Percent Cover (or		D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
(by common/scientific name)	basal Area)	Dominance		
Troop				
<u>Trees</u> <i>Prunus serotina/</i> Black cherry	63%	75%	Yes	FACU
Ailanthus altissima/ Tree of Heaven	20.5%	25%	No	NI
Total Percent Co		25 /0	INO	INI
Total Fercent Col	/er. 03.5 //			
Shrubs/ Saplings				
Rhus hirta/ Staghorn sumac	20.5%	49%	Yes	NI
Prunus serotina/ Black cherry	10.5%	25%	Yes	FACU
Rubus strigosus/Common red raspberry	10.5%	25%	No	FAC-
Total Percent Co	/er: 41.5%			
Herbaceous				
Solidago canadensis/Canada goldenrod	38%	65%	Yes	FACU
Phytolacca americana/ American pokeweed	20.5%	35%	No	FACU+
Total Percent Co		0070		1700+
Vines				

Absent

Total Percent Cover: 0%

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

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes 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

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? ves no title/date: WebSoil Survey/ 2020 map number: 51A soil type mapped: Swansea muck hydric soil inclusions: Yes

Are field observations consistent with soil survey? yes no Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color	Texture
А	0-1"	10YR 2/2		
Bw ₁	1-6"	10YR 3/3	-	Sandy loam
Bw ₂	6-12+"	10YR 4/4	-	Sandy loam

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

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

- Site Inundated: ______
- Depth to free water in observation hole:
- Depth to soil saturation in observation hole: _____
- Water marks: ______
- Drift lines:
- Sediment Deposits: ______
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: ______

- Water-stained leaves: ______
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

Other: _

Vegetation and Hydrology Conclusion						
Yes Number of wetland indicator plants > # of non-wetland indicator plants		No X				
Wetland hydrology present:						
Hydric soil present		Х				
Other indicators of hydrology present		X				
Sample location is in a BVW X						
form with the Request for Determination of Applicability or Notice of Intent.						

Applicant: Thorndike Place Prepared by: BSC Group, Inc. (SMM & EPS) Project location: Arlington- Near flag C-14 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: 1 (Wetland)		Transect Number: 3	Date of Delineation: 10/15/2020			
A. Sample Layer & Plant Species	B. Percent Cover (or	C. Percent	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*			
(by common/scientific name)	basal Area)	Dominance					
Trees							
*Populus deltoides/Eastern cottonwood	20.5%	40%	Yes	FAC			
Ailanthus altissima/ Tree of Heaven	20.5%	40%	Yes	NI			
* <i>Fraxinus pennsylvanica/</i> Green ash	10.5%	20%	Yes	FACW			
Total Percent Cov	Total Percent Cover: 51.5 %						
<u>Shrubs/ Saplings</u>							
Rhus hirta/Staghorn sumac	20.5%	60%	Yes	NI			
*Populus deltoides/Eastern cottonwood	10.5%	31%	Yes	FAC			
Rosa multiflora/Multiflora rose	3%	9%	No	FACU			
Total Percent Cover: 34%							
<u>Herbaceous</u>							
*Solidago patula/ Rough stem goldenrod	38%	53%	Yes	OBL			
Phytolacca americana/ American pokeweed	20.5%	28%	Yes	FACU+			
*Rubus hispidus/ Creeping dewberry	10.5%	15%	No	FACW			
*Phragmites australis/ Common reed	3%	4%	No	FACW			
Total Percent Cover: 72%							
<u>Vines</u>							
Absent							

Total Percent Cover: 0%

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

Vegetation conclusion:

Number of dominant wetland indicator plants: 4 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Use 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

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? ves no title/date: WebSoil Survey/ 2020 map number: 655 soil type mapped: Udorthents, wet substratum hydric soil inclusions: Yes

Are field observations consistent with soil survey? ves no Remarks:

2. Soil Description

Horizor	n Depth	Matrix Color	Mottles Color	Texture
А	0-1"	10YR 2/1	-	Sandy loam
Bc	1-14"+	10YR 4/2	Depletion:	Sandy loam
			7.5YR 4/6 (12%)	
			10YR 6/2 (10%)	

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

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

- Site Inundated: ______
- Depth to free water in observation hole:
- Depth to soil saturation in observation hole: _____
- Water marks: ______
- Drift lines:
- Sediment Deposits: ______

Drainage patterns in BVW: __Present_____

- Oxidized rhizospheres: ______
- Water-stained leaves: ______
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
- Other: _

Vegetation and Hydrology Conclusion					
	Yes	No			
Number of wetland indicator plants > # of non-wetland indicator plants	х				
Wetland hydrology present:					
Hydric soil present	Х				
Other indicators of hydrology present	Х				
Sample location is in a BVW	Х				

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