



October 10, 2023

Paul E. Cusson
651 Orchard Street. Suite- 308
New Bedford, MA 02744

Re: Vernal Pool Narrative
County Street, Lakeville, MA
(Map: 34, 35, Block 1, 2, Lots: 1, 2, 2A, 3, 4, 5, 12, 17)

Dear Paul Cusson,

Goddard Consulting, LLC, (Goddard) is pleased to submit this Vernal Pool Narrative on behalf of Outback Engineering (the Applicant), to provide a Vernal Pool Narrative for the property addressed as County Street in Lakeville, MA (Map: 34, 35, Block 1, 2, Lots: 1, 2, 2A, 3, 4, 5, 12, 17)

Attachments

- *Orthophoto of the Locus Site*, Goddard Consulting, LLC – 2/6/2023
- *Conceptual Layout Plan with Flagged Wetlands “Rocky Woods” Subdivision in Lakeville, MA*, Outback Engineering, Inc – 9/25/2023
- Natural Heritage Vernal Pool Observation Form – CVP 2684
- Natural Heritage Vernal Pool Observation Form – CVP 2685
- Natural Heritage Vernal Pool Observation Form – CVP 2686
- Natural Heritage Vernal Pool Observation Form – CVP 2687

Mapped Certified Vernal Pools

Four Certified Vernal Pools are mapped on the site by Natural Heritage Endangered Species Program within the limit of work on the Conceptual Layout Plan (reference Conceptual Layout Plan with Flagged Wetlands “Rocky Woods” Subdivision in Lakeville, MA). In the Western portion of the site, adjacent to 51 Freetown Street in Lakeville, Pool #2687 was certified on July 10, 2001, for obligate species. In the center of the site, within Bordering Vegetated Wetland, pool #2686 was certified for obligate species on July 10, 2001. North of Pool #2686, Pool 2685 was certified for obligate species on July 10, 2001. Finally, in the northeast of the site, Pool #2684 was certified for obligate species on July 10, 2001. Reference attached Natural Heritage Vernal Pool Observation Forms for details regarding the certification.

Mapped Potential Vernal Pools

Two potential vernal pools are mapped on the site by Natural Heritage Endangered Species Program. Potential vernal pool #11984 is located in the northeastern portion of the site adjacent to Route 140. Potential vernal pool #11985 is located in the same location as Certified Vernal Pool #2686.

Wetland and Vernal Pool Delineation

During the months of March, April and May of 2023, the wetland resource areas on locus site were flagged. Wetland resources include Bordering Vegetated Wetlands (BVW), Isolated Vegetated Wetlands (IVW), a perennial stream, and vernal pools. Four of the Certified Vernal Pools were located and the boundaries of the pools flagged on-site. Series VPV1- VPV24 delineated the boundary of certified pool #2686. Series VPW1-VPW20 delineated the boundary of pool #2685. Certified vernal pool #2687 is within wetland flagged with flag series GCA and GCC. Certified vernal pool #2684 is within flagged wetland flag series GCK. The boundary of Pool #2684 was flagged

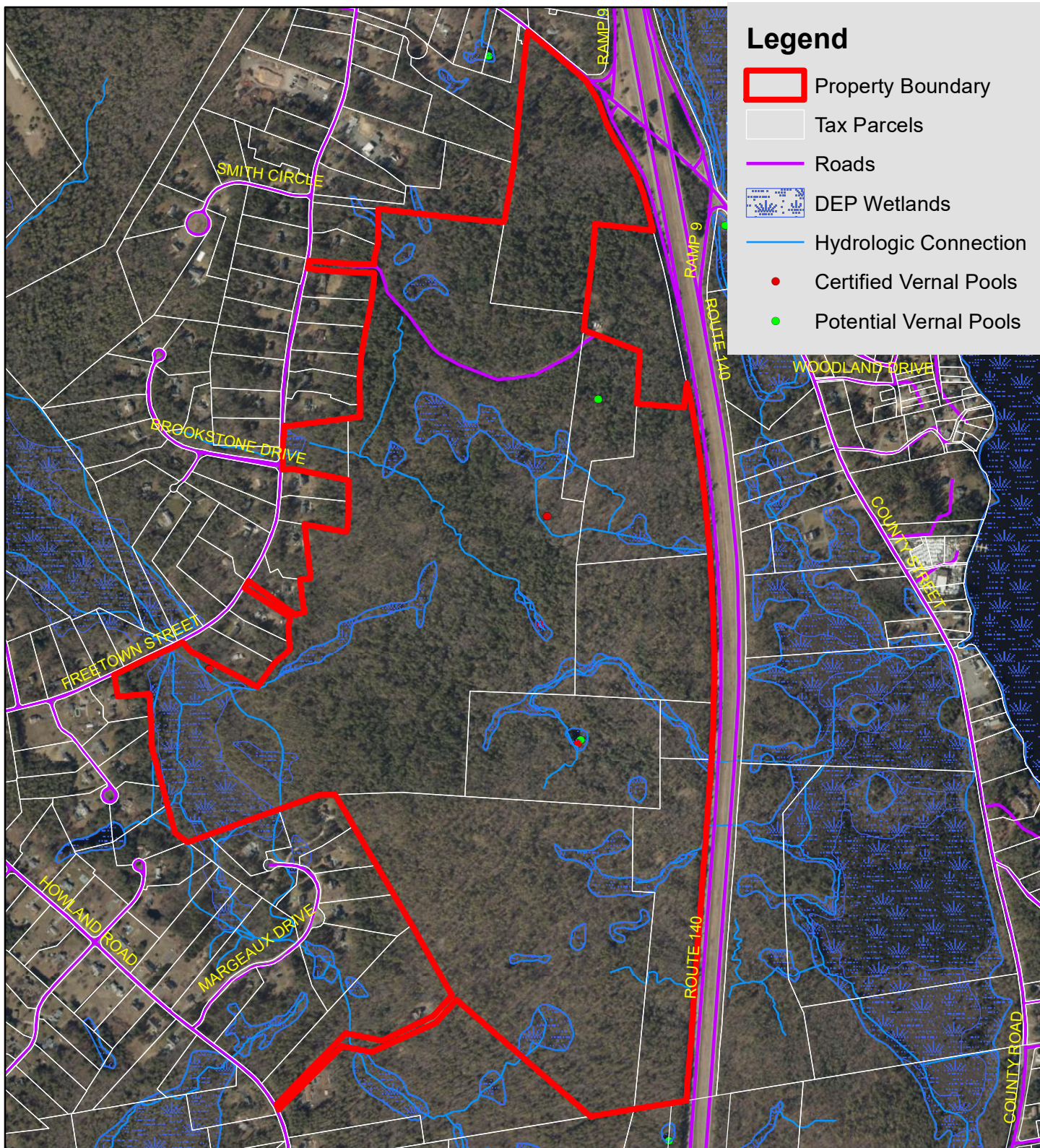


with wetland flag series GCY1-GCY24. The boundary of Pool #2687 was flagged with wetland flag series GCZ1-GCZ10.

Sincerely,
Goddard Consulting, LLC

Tom Schutz, WPIT, WSA
Wetland Scientist

CC: Mass Housing, 160 Federal Street #2, Boston, MA 02110



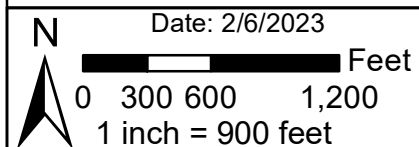
Legend

- Property Boundary
- Tax Parcels
- Roads
- DEP Wetlands
- Hydrologic Connection
- Certified Vernal Pools
- Potential Vernal Pools

Orthophoto of the Locus Site

Country Street - Lakeville, MA

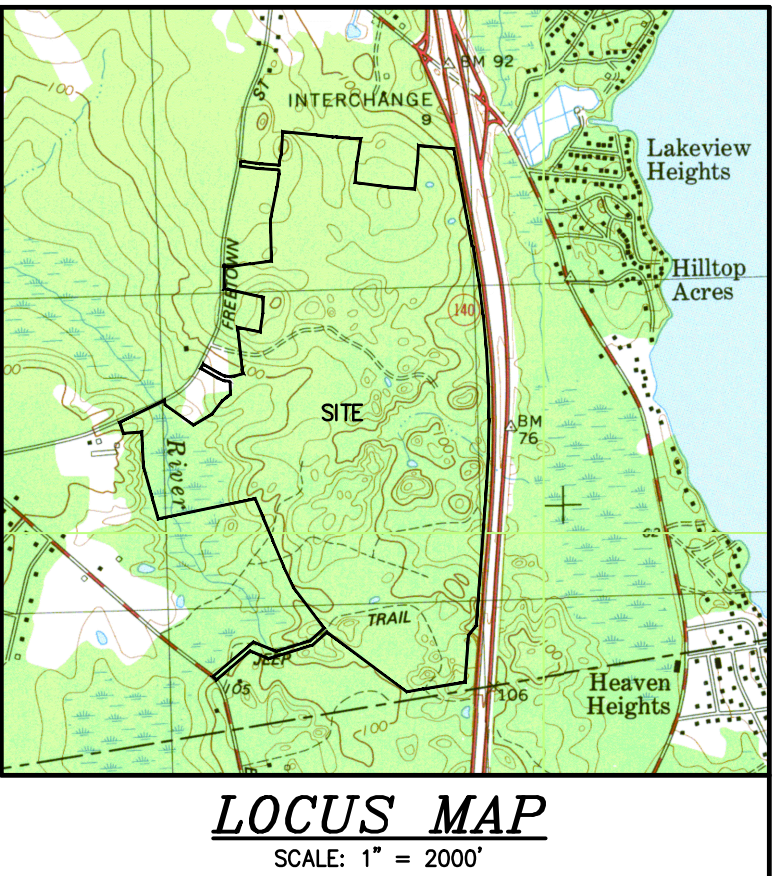
(Map: 34, 35, Block: 1, 2, Lots: 1, 2, 2A, 3, 4, 5, 12, 17)



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

GODDARD CONSULTING
Strategic Wetland Permitting LLC

OVERALL PROJECT AREAS
TOTAL AREA: 8,039,420 S.F. (184.6 AC.)±
WETLAND AREA: 1,919,230 S.F. (44.1 AC.)±
UPLAND AREA: 6,120,190 S.F. (140.5 AC.)±



- GENERAL NOTES:**
1. THE LAND SHOWN HEREON FALLS WITHIN ZONE "X" (AREA OF MINIMAL FLOOD HAZARD) AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR NORFOLK COUNTY, MA. (MAP NUMBER 25023C0437K, WITH AN EFFECTIVE DATE OF JULY 16, 2015).
 2. THE LAND SHOWN HEREON IS COMPRISED OF THE FOLLOWING TOWN OF LAKEVILLE ASSESSORS IDENTIFICATION NUMBERS:
2.1. PROPERTY ID: 034-002-001
2.2. PROPERTY ID: 034-002-002
2.3. PROPERTY ID: 034-002-011
2.4. PROPERTY ID: 034-002-012
2.5. PROPERTY ID: 035-001-002A
2.6. PROPERTY ID: 035-001-004
 3. SITE IS NOT LOCATED WITHIN A ZONE II, AND IS PARTIALLY WITHIN AN IWA GROUNDWATER RESOURCE PROTECTION AREA. SITE IS PARTIALLY LOCATED WITHIN A ZONE A, B, AND C SURFACE WATER PROTECTION AREA. THE SITE IS NOT LOCATED WITHIN A NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM (NHESP) PRIORITY HABITAT OF RARE SPECIES OR WITHIN AN NHESP ESTIMATED HABITAT OF RARE WILDLIFE PER THE LATEST ON-LINE MASSGIS MAPPING INFORMATION.

SUMMARY:
ROADWAY: 9,050 L.F.±
SINGLE FAMILY HOMES: 44-UNITS
(MIN. LOT AREA: 10,000 S.F.±)
(MIN. FRONTAGE: 80 FT.±)
3 BEDROOMS PER UNIT
132 BEDROOMS
DUPLEX HOMES: 46-UNITS
2 BEDROOMS PER UNIT
92 BEDROOMS
CONDO HOMES: 110-UNITS
2 BEDROOMS PER HOME
220 BEDROOMS
TOTAL BEDROOM COUNT: 444
TOTAL WASTEWATER FLOW: 48,840 GPD

■ DENOTES AFFORDABLE UNIT OR LOT

CONCEPTUAL LAYOUT PLAN WITH FLAGGED WETLANDS "ROCKY WOODS" SUBDIVISION IN LAKEVILLE, MA

Outback Engineering Incorporated

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

REVISED: SEPTEMBER 25, 2023
DATE: JULY 25, 2023
DRAWN BY: K.A.D. CHECKED BY: J.A.Y.
SCALE: 1"=200' SHEET 1 OF 4
0' 200' 400' 600'
OE-3649



Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife Vernal Pool Field Observation Form

(7/99)

(For use with Guidelines for Certification of Vernal Pool Habitat)

CVP2684

For office use only.

1. Pool location

Town Lakeville County Plymouth

USGS Quadrangle name Assawampsett Pond ☒ SERIES 7.5' X 7.5' ☐ SERIES 7.5' X 15'

WRITTEN DIRECTIONS TO POOL: Front Street, east along dirt road 600m to cell phone tower, south 100m to intermittent stream, follow upstream (west & then south) ~100 meters to pocket area in swamp.

THIS INFORMATION
MUST BE SUBMITTED

UP#1

(USE ADDITIONAL PAGES, IF NECESSARY.)

Instructions

FOR COMPLETE INFORMATION ABOUT CERTIFICATION, REFER TO GUIDELINES FOR CERTIFICATION OF VERNAL POOL HABITAT.

PROVIDE ALL OF THE INFORMATION REQUESTED IN BOXES 1-6. IF MORE SPACE IS REQUIRED, ATTACH ADDITIONAL PAGES. INCLUDE ALL REQUIRED PHOTOGRAPHS AND DOCUMENTATION. SIGN THE FORM IN THE AREA PROVIDED ON THE REVERSE SIDE. INCOMPLETE OR UNSIGNED SUBMISSIONS WILL BE RETURNED.

THE FOLLOWING INSTRUCTIONS REFER TO EACH OF THE NUMBERED BOXES.

1. THE 7.5 X 7.5 SERIES HAS THE LEGEND "7.5 MINUTE SERIES" IN THE UPPER RIGHT HAND CORNER ALONG WITH THE QUADRANGLE NAME. THE 7.5 X 15 MINUTE SERIES IS SO LABELED IN THE UPPER RIGHT HAND CORNER AND HAS THE QUADRANGLE NAME IN THE LOWER RIGHT CORNER.

WRITTEN DIRECTIONS MUST BE INCLUDED.

2 INDICATE THE FIRST AND LAST DATES THAT THE POOL OR ITS BIOLOGICAL COMPONENTS WERE OBSERVED.

3. PART A AND B ARE FOR CERTIFICATION BY OBLIGATE SPECIES. PART C IS EITHER FOR ADDITIONAL INFORMATION (APPRECIATED) OR FOR CERTIFICATION BY THE FACULTATIVE SPECIES. IF CERTIFYING BY OBLIGATE SPECIES, PROVIDE A PHOTOGRAPH OF THE POOL HOLDING WATER AND AT LEAST ONE PHOTOGRAPH (OR AUDIO TAPE FOR CHORUSING) OF BREEDING ACTIVITY.

FOR CERTIFICATION BY FACULTATIVE SPECIES, PROVIDE PHOTOGRAPHS OF THE POOL HOLDING WATER AND PHOTOGRAPHS (OR TAPES) OF THE FACULTATIVE SPECIES AS REQUIRED. ADDITIONALLY, PROVIDE A PHOTOGRAPH OF THE POOL WHEN DRY OR OTHERWISE PROVE THAT IT HAS NO FISH.

2. Observation dates

First date pool/species observed 5/8/01

Last date pool observed 5/8/01 Last date species observed 5/8/01

3 A. Evidence: obligate amphibians

Indicate date of observation.

* = RARE SPECIES	COURTING ADULTS	SPERMATOPHYTES	EGG MASSES	SALAMANDER LARVAE	TRANSFORMING JUVENILES
SPOTTED SALAMANDER			5/8/01		
* BLUE-SPOTTED SALAMANDER					
* JEFFERSON SALAMANDER					
* MARBLED SALAMANDER					
UNIDENTIFIED MOLE SALAMANDER					
	BREEDING CHORUS	MATED PAIRS	EGG MASSES	FROG TADPOLES	TRANSFORMING JUVENILES
WOOD FROG					
* SPADEFOOT TOAD					

3 B. Evidence: fairy shrimp

DATE OBSERVED _____

3 C. Evidence: facultative organisms

Indicate date of observation.

* = RARE SPECIES	DATE OBSERVED	ACTIVITY OBSERVED		DATE OBSERVED	ACTIVITY OBSERVED
BREEDING SPRING PEEPERS			PAINTED TURTLES		
BREEDING GRAY TREEFROGS			SNAPPING TURTLES		
BREEDING GREEN FROGS			PREDACEOUS DIVING BEETLE LARVAE		
BREEDING LEOPARD FROGS			WATER SCORPIONS		
BREEDING PICKERAL FROGS			DRAGONFLY NYMPHS		
BREEDING AMERICAN TOADS			DAMSELFLY NYMPHS		
BREEDING FOWLER'S TOADS			DOBSONFLY LARVAE		
* BREEDING FOUR-TOED SALAMANDERS			WHIRLIGIG BEETLE LARVAE		
RED-SPOTTED NEWT (ADULTS)			CADDISFLY LARVAE		
* SPOTTED TURTLES			LEECHES		
* WOOD TURTLES			FINGERNAIL (FRESHWATER) CLAMS		
* BLANDINGS TURTLES			AMPHIBIOUS AIR-BREATHING SNAILS		

Instructions (continued)

4. INDICATE THE PHOTOGRAPHS BEING SUBMITTED. LABEL, DATE, AND SIGN ALL PHOTOS.
5. MARK THE POOL CLEARLY ON ALL MAPS. THE POOL MUST BE CLEARLY DISTINGUISHED FROM OTHER WETLANDS AND BE RELOCATEABLE BY OTHERS. PROVIDE ANY MAPS THAT WOULD HELP SOMEONE UNFAMILIAR WITH THE AREA LOCATE THE VERNAL POOL IN THE FIELD.

6. THE FORM MUST BE SIGNED. UNSIGNED SUBMISSIONS WILL BE RETURNED WITHOUT FURTHER ACTION.

OPTIONAL INFORMATION:

PROPERTY OWNER. PROVIDE INFORMATION ABOUT PROPERTY OWNER(S), IF KNOWN. IT IS RECOMMENDED THAT YOU SEEK PROPERTY OWNER PERMISSION PRIOR TO CERTIFICATION ACTIVITIES.

RARE SPECIES. A PHOTOGRAPH IS NECESSARY FOR DOCUMENTATION OF RARE SPECIES HABITAT.

DESCRIPTION. PROVIDE ANY INFORMATION THAT WILL DISTINGUISH THE POOL FROM OTHER WETLANDS (BOULDERS, DEBRIS, TREE SPECIES, ETC.).

Optional information

Although the following information is not required for certification, it is useful to NHESP to possibly better protect the vernal pool, its habitat and species.

Property owner

IT IS STRONGLY RECOMMENDED THAT LANDOWNER PERMISSION BE OBTAINED PRIOR TO COLLECTING CERTIFICATION DOCUMENTATION.

Name _____

Address _____

Town _____

State _____

ZIP _____

Rare wetland species

☒ WERE ANY RARE STATE-LISTED SPECIES OBSERVED USING THIS POOL?

☒ IS A PHOTOGRAPH OF THE RARE SPECIES INCLUDED WITH THIS FILING?

Description of pool and surroundings

DIMENSIONS: APPROXIMATE LENGTH 15m APPROXIMATE WIDTH 15m

APPROXIMATE DEPTH 0.25m

DESCRIBE DISTINCTIVE FEATURES (ROADS, STRUCTURES, BOULDERS, ETC.) WHICH ARE VISIBLE FROM OR NEAR THE POOL.

Associated with a larger Red Maple Swamp & intermittent stream complex. Forested canopy 90% and continuous Sphagnum layer.

ARE THERE OTHER DISTINCTIVE FEATURES ABOUT THIS POOL (VEGETATION TYPES, ABANDONED VEHICLES, FOOT TRAILS, ETC.) THAT WOULD HELP SOMEONE RECOGNIZE IT?

Located in between rock outcrops (relief features not adequately shown on topo map).

4. Photographs

MUST BE LABELED, DATED, AND SIGNED.



POOL HOLDING WATER



OBLIGATE +/-OR FACULTATIVE SPECIES



DRY POOL (REQUIRED FOR EVIDENCE 3C)

5. Maps submitted



USGS TOPOGRAPHIC MAP (REQUIRED)

AND ONE OR MORE OF THE FOLLOWING:



AERIAL PHOTOGRAPH



DISTANCES/COMPASS DIRECTIONS



PROFESSIONAL SURVEY



LARGE SCALE TOPO



OTHER _____

OPTIONAL EXTRA INFORMATION



SKETCH MAP OF AREA



ASSESSOR'S MAP



GPS LONGITUDE/LATITUDE COORDINATES

N41.79704 W70.96248

6. Observer information & signature

Name

Brian Reid

Address

Po Box 1221

Town

Aumath

State

MA

ZIP

02362

Telephone

e-mail

I hereby certify under the pains and penalties of perjury that the information contained in this report is true and complete to the best of my knowledge.

Signature

[Handwritten Signature]

Date

7/1/01

SEND COMPLETED FORM AND SUPPORTING DOCUMENTATION TO:

NH&ESP
VERNAL POOL CERTIFICATION
MA DIVISION OF FISHERIES & WILDLIFE
ROUTE 135
WESTBOROUGH, MA 01581

All submissions and supporting documents will be retained by the Natural Heritage & Endangered Species Program. Information submitted on this form and other documents is part of the public record and is available to interested parties under the State Documents Request Law.



rotted Salamander egg masses
Rocky Woods VP#1 - Leavenworth
8/01

Brunkel
Brunkel

Normal Pool #1
Leavenworth - Rocky Woods
8/01

Brunkel
Brunkel



Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife Vernal Pool Field Observation Form

(7/99)

(For use with Guidelines for Certification of Vernal Pool Habitat)

CVP 2685

For office use only.

1. Pool location

Town Lakeville County Plymouth

USGS Quadrangle name Assawampsett Pond ☒ SERIES 7.5' X 7.5' ☐ SERIES 7.5' X 15'

WRITTEN DIRECTIONS TO POOL: Pool is located south of cart path running 800 m east of Freeman Street (as shown on topo map)

THIS INFORMATION
MUST BE SUBMITTED

VP # 2

(USE ADDITIONAL PAGES, IF NECESSARY.)

Instructions

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WRITTEN DIRECTIONS MUST BE INCLUDED.

2 INDICATE THE FIRST AND LAST DATES THAT THE POOL OR ITS BIOLOGICAL COMPONENTS WERE OBSERVED.

3. PART A AND B ARE FOR CERTIFICATION BY OBLIGATE SPECIES. PART C IS EITHER FOR ADDITIONAL INFORMATION (APPRECIATED) OR FOR CERTIFICATION BY THE FACULTATIVE SPECIES. IF CERTIFYING BY OBLIGATE SPECIES, PROVIDE A PHOTOGRAPH OF THE POOL HOLDING WATER AND AT LEAST ONE PHOTOGRAPH (OR AUDIO TAPE FOR CHORUSING) OF BREEDING ACTIVITY.

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2. Observation dates

First date pool/species observed 5/8/01

Last date pool observed 5/8/01 Last date species observed 5/8/01

3 A. Evidence: obligate amphibians

Indicate date of observation.

* = RARE SPECIES	COURTING ADULTS	SPERMATOPHORES	EGG MASSES	SALAMANDER LARVAE	TRANSFORMING JUVENILES
SPOTTED SALAMANDER			5/8/01		
* BLUE-SPOTTED SALAMANDER					
* JEFFERSON SALAMANDER					
* MARBLED SALAMANDER					
UNIDENTIFIED MOLE SALAMANDER					
	BREEDING CHORUS	MATED PAIRS	EGG MASSES	FROG TADPOLES	TRANSFORMING JUVENILES
WOOD FROG					
* SPADEFOOT TOAD					

3 B. Evidence: fairy shrimp

DATE OBSERVED _____

3 C. Evidence: facultative organisms

Indicate date of observation.

* = RARE SPECIES	DATE OBSERVED	ACTIVITY OBSERVED		DATE OBSERVED	ACTIVITY OBSERVED
BREEDING SPRING PEEPERS			PAINTED TURTLES		
BREEDING GRAY TREEFROGS			SNAPPING TURTLES		
BREEDING GREEN FROGS			PREDACEOUS DIVING BEETLE LARVAE		
BREEDING LEOPARD FROGS			WATER SCORPIONS		
BREEDING PICKEREL FROGS			DRAGONFLY NYMPHS		
BREEDING AMERICAN TOADS			DAMSELFLY NYMPHS		
BREEDING FOWLER'S TOADS			DOBSONFLY LARVAE		
* BREEDING FOUR-TOED SALAMANDERS			WHIRLIGIG BEETLE LARVAE		
RED-SPOTTED NEWT (ADULTS)			CADDISFLY LARVAE		
* SPOTTED TURTLES			LEECHES		
* WOOD TURTLES			FINGERNAIL (FRESHWATER) CLAMS		
* BLANDINGS TURTLES			AMPHIBIOUS AIR-BREATHING SNAILS		

Instructions (continued)

4. INDICATE THE PHOTOGRAPHS BEING SUBMITTED. LABEL, DATE, AND SIGN ALL PHOTOS.
5. MARK THE POOL CLEARLY ON ALL MAPS. THE POOL MUST BE CLEARLY DISTINGUISHED FROM OTHER WETLANDS AND BE RELOCATEABLE BY OTHERS. PROVIDE ANY MAPS THAT WOULD HELP SOMEONE UNFAMILIAR WITH THE AREA LOCATE THE VERNAL POOL IN THE FIELD.

6. THE FORM MUST BE SIGNED. UNSIGNED SUBMISSIONS WILL BE RETURNED WITHOUT FURTHER ACTION.

OPTIONAL INFORMATION:

PROPERTY OWNER. PROVIDE INFORMATION ABOUT PROPERTY OWNER(S), IF KNOWN. IT IS RECOMMENDED THAT YOU SEEK PROPERTY OWNER PERMISSION PRIOR TO CERTIFICATION ACTIVITIES.

RARE SPECIES. A PHOTOGRAPH IS NECESSARY FOR DOCUMENTATION OF RARE SPECIES HABITAT.

DESCRIPTION. PROVIDE ANY INFORMATION THAT WILL DISTINGUISH THE POOL FROM OTHER WETLANDS (BOULDERS, DEBRIS, TREE SPECIES, ETC.).

Optional information

Although the following information is not required for certification, it is useful to NHESP to possibly better protect the vernal pool, its habitat and species.

Property owner

IT IS STRONGLY RECOMMENDED THAT LANDOWNER PERMISSION BE OBTAINED PRIOR TO COLLECTING CERTIFICATION DOCUMENTATION.

Name _____

Address _____

Town _____ State _____ ZIP _____

Rare wetland species

☒ ☒ WERE ANY RARE STATE-LISTED SPECIES OBSERVED USING THIS POOL?

☒ ☒ IS A PHOTOGRAPH OF THE RARE SPECIES INCLUDED WITH THIS FILING?

Description of pool and surroundings

DIMENSIONS: APPROXIMATE LENGTH 40m APPROXIMATE WIDTH 12m

APPROXIMATE DEPTH 0.3m

DESCRIBE DISTINCTIVE FEATURES (ROADS, STRUCTURES, BOULDERS, ETC.) WHICH ARE VISIBLE FROM OR NEAR THE POOL.

Deeper, open canopy w/ shrub border, visible from cart path.

ARE THERE OTHER DISTINCTIVE FEATURES ABOUT THIS POOL (VEGETATION TYPES, ABANDONED VEHICLES, FOOT TRAILS, ETC.) THAT WOULD HELP SOMEONE RECOGNIZE IT?

Logging slash within pool along northwest side.

4. Photographs

MUST BE LABELED, DATED, AND SIGNED.

- ☒ POOL HOLDING WATER
☒ OBLIGATE +/-OR FACULTATIVE SPECIES
☐ DRY POOL (REQUIRED FOR EVIDENCE 3C)

5. Maps submitted

- ☒ USGS TOPOGRAPHIC MAP (REQUIRED)
AND ONE OR MORE OF THE FOLLOWING:

- ☒ AERIAL PHOTOGRAPH
☐ DISTANCES/COMPASS DIRECTIONS
☐ PROFESSIONAL SURVEY
☐ LARGE SCALE TOPO
☐ OTHER _____

OPTIONAL EXTRA INFORMATION

- ☐ SKETCH MAP OF AREA
☐ ASSESSOR'S MAP
☒ GPS LONGITUDE/LATITUDE COORDINATES
NAL 49485 W70.96342

6. Observer information & signature

Name Bruno Reid

Address PO Box 1221

Town Plymouth State MA ZIP 02362

Telephone [REDACTED]

e-mail _____

I hereby certify under the pains and penalties of perjury that the information contained in this report is true and complete to the best of my knowledge.

Signature [Signature] Date 7/11/01

SEND COMPLETED FORM AND SUPPORTING DOCUMENTATION TO:

NH&ESP
VERNAL POOL CERTIFICATION
MA DIVISION OF FISHERIES & WILDLIFE
ROUTE 135
WESTBOROUGH, MA 01581

All submissions and supporting documents will be retained by the Natural Heritage & Endangered Species Program. Information submitted on this form and other documents is part of the public record and is available to interested parties under the State Documents Request Law.



Small Bel #2

Woods - Lakeville

1/8/01

W. C. P.

W. C. P.

Small Salamander Egg Mass

Woods - Lakeville

1/8/01

W. C. P.

W. C. P.



Spotted Salamander egg mass

Rocky Woods CP#2 - Laclede

5/8/01

M. J. P.

Brian Reid



Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife Vernal Pool Field Observation Form

(7/99)

(For use with Guidelines for Certification of Vernal Pool Habitat)

CVP2686

For office use only.

1. Pool location

Town Lakeville

County Plymouth

USGS Quadrangle name Assawampsett Pond

☒ SERIES 7.5' X 7.5'

☐ SERIES 7.5' X 15'

WRITTEN DIRECTIONS TO POOL: 250m south of UP#2 (damslope for first 150m then following intermittent stream between rock outcrops to pool)

THIS INFORMATION
MUST BE SUBMITTED

UP#3

(USE ADDITIONAL PAGES, IF NECESSARY.)

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2. INDICATE THE FIRST AND LAST DATES THAT THE POOL OR ITS BIOLOGICAL COMPONENTS WERE OBSERVED.

3. PART A AND B ARE FOR CERTIFICATION BY OBLIGATE SPECIES. PART C IS EITHER FOR ADDITIONAL INFORMATION (APPRECIATED) OR FOR CERTIFICATION BY THE FACULTATIVE SPECIES. IF CERTIFYING BY OBLIGATE SPECIES, PROVIDE A PHOTOGRAPH OF THE POOL HOLDING WATER AND AT LEAST ONE PHOTOGRAPH (OR AUDIO TAPE FOR CHORUSING) OF BREEDING ACTIVITY.

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2. Observation dates

First date pool/species observed 5/8/01

Last date pool observed 5/8/01 Last date species observed 5/8/01

3 A. Evidence: obligate amphibians

Indicate date of observation.

* = RARE SPECIES	COURTING ADULTS	SPERMATOPHYTES	EGG MASSES	SALAMANDER LARVAE	TRANSFORMING JUVENILES
SPOTTED SALAMANDER					
* BLUE-SPOTTED SALAMANDER					
* JEFFERSON SALAMANDER					
* MARBLED SALAMANDER					
UNIDENTIFIED MOLE SALAMANDER					
	BREEDING CHORUS	MATED PAIRS	EGG MASSES	FROG TADPOLES	TRANSFORMING JUVENILES
WOOD FROG			<u>5/8/01</u>		
* SPADEFOOT TOAD					

3 B. Evidence: fairy shrimp

DATE OBSERVED _____

3 C. Evidence: facultative organisms

Indicate date of observation.

* = RARE SPECIES	DATE OBSERVED	ACTIVITY OBSERVED		DATE OBSERVED	ACTIVITY OBSERVED
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BREEDING GRAY TREEFROGS			SNAPPING TURTLES		
BREEDING GREEN FROGS			PREDACEOUS DIVING BEETLE LARVAE		
BREEDING LEOPARD FROGS			WATER SCORPIONS		
BREEDING PICKEREL FROGS			DRAGONFLY NYMPHS		
BREEDING AMERICAN TOADS			DAMSELFLY NYMPHS		
BREEDING FOWLER'S TOADS			DOBSONFLY LARVAE		
* BREEDING FOUR-TOED SALAMANDERS			WHIRLIGIG BEETLE LARVAE		
RED-SPOTTED NEWT (ADULTS)			CADDISFLY LARVAE		
* SPOTTED TURTLES			LEECHES		
* WOOD TURTLES			FINGERNAIL (FRESHWATER) CLAMS		
* BLANDINGS TURTLES			AMPHIBIOUS AIR-BREATHING SNAILS		

Instructions (continued)

4. INDICATE THE PHOTOGRAPHS BEING SUBMITTED. LABEL, DATE, AND SIGN ALL PHOTOS.
5. MARK THE POOL CLEARLY ON ALL MAPS. THE POOL MUST BE CLEARLY DISTINGUISHED FROM OTHER WETLANDS AND BE RELOCATEABLE BY OTHERS. PROVIDE ANY MAPS THAT WOULD HELP SOMEONE UNFAMILIAR WITH THE AREA LOCATE THE VERNAL POOL IN THE FIELD.

6. THE FORM MUST BE SIGNED. UNSIGNED SUBMISSIONS WILL BE RETURNED WITHOUT FURTHER ACTION.

OPTIONAL INFORMATION:

PROPERTY OWNER. PROVIDE INFORMATION ABOUT PROPERTY OWNER(S), IF KNOWN. IT IS RECOMMENDED THAT YOU SEEK PROPERTY OWNER PERMISSION PRIOR TO CERTIFICATION ACTIVITIES.

RARE SPECIES. A PHOTOGRAPH IS NECESSARY FOR DOCUMENTATION OF RARE SPECIES HABITAT.

DESCRIPTION. PROVIDE ANY INFORMATION THAT WILL DISTINGUISH THE POOL FROM OTHER WETLANDS (BOULDERS, DEBRIS, TREE SPECIES, ETC.).

Optional information

Although the following information is not required for certification, it is useful to NHESP to possibly better protect the vernal pool, its habitat and species.

Property owner

IT IS STRONGLY RECOMMENDED THAT LANDOWNER PERMISSION BE OBTAINED PRIOR TO COLLECTING CERTIFICATION DOCUMENTATION.

Name _____

Address _____

Town _____ State _____ ZIP _____

Rare wetland species

☒ WERE ANY RARE STATE-LISTED SPECIES OBSERVED USING THIS POOL?

☒ IS A PHOTOGRAPH OF THE RARE SPECIES INCLUDED WITH THIS FILING?

Description of pool and surroundings

DIMENSIONS: APPROXIMATE LENGTH 15m APPROXIMATE WIDTH 25m
APPROXIMATE DEPTH 1m

DESCRIBE DISTINCTIVE FEATURES (ROADS, STRUCTURES, BOULDERS, ETC.) WHICH ARE VISIBLE FROM OR NEAR THE POOL.

Deep pool, partly open canopy
E. dense shrub border

ARE THERE OTHER DISTINCTIVE FEATURES ABOUT THIS POOL (VEGETATION TYPES, ABANDONED VEHICLES, FOOT TRAILS, ETC.) THAT WOULD HELP SOMEONE RECOGNIZE IT?

4. Photographs

MUST BE LABELED, DATED, AND SIGNED.

- ☒ POOL HOLDING WATER
☒ OBLIGATE +/-OR FACULTATIVE SPECIES
☐ DRY POOL (REQUIRED FOR EVIDENCE 3C)

5. Maps submitted

☒ USGS TOPOGRAPHIC MAP (REQUIRED)

AND ONE OR MORE OF THE FOLLOWING:

- ☒ AERIAL PHOTOGRAPH
☐ DISTANCES/COMPASS DIRECTIONS
☐ PROFESSIONAL SURVEY
☐ LARGE SCALE TOPO
☐ OTHER _____

OPTIONAL EXTRA INFORMATION

- ☐ SKETCH MAP OF AREA
☐ ASSESSOR'S MAP
☒ GPS LONGITUDE/LATITUDE COORDINATES
N41.79221 W70.96199

6. Observer information & signature

Name Branford

Address PO Box 1221

Town Pharmath State MA ZIP 02362

Telephone [REDACTED]

e-mail _____

I hereby certify under the pains and penalties of perjury that the information contained in this report is true and complete to the best of my knowledge.

Signature [Signature] Date 7/1/01

SEND COMPLETED FORM AND SUPPORTING DOCUMENTATION TO:

NH&ESP
VERNAL POOL CERTIFICATION
MA DIVISION OF FISHERIES & WILDLIFE
ROUTE 135
WESTBOROUGH, MA 01581

All submissions and supporting documents will be retained by the Natural Heritage & Endangered Species Program. Information submitted on this form and other documents is part of the public record and is available to interested parties under the State Documents Request Law.



Small Pool #3

Wetlands - Lakeville

6/01

Wet

Brian Reid

Small Frog Egg Mass

Wetlands #3 - Lakeville

6/01

Wet

Brian Reid



Wood Frog egg mass

Rocky Woods VP#3-Lakeville

5/8/01

Neil

Brian Reed

Wood Frog Egg Mass

Rocky Woods VP#3-Lakeville

5/8/01

Neil

Brian Reed



Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife Vernal Pool Field Observation Form

(7/99)

(For use with *Guidelines for Certification of Vernal Pool Habitat*)

PVP

CVP2687

For office use only.

1. Pool location

Town Lakeville County Plymouth

USGS Quadrangle name Assawampsett ☒ SERIES 7.5' X 7.5' ☐ SERIES 7.5' X 15'

WRITTEN DIRECTIONS TO POOL: On edge of swamp associated with Cedar Swamp River, 50m SE of Freeman Street

THIS INFORMATION
MUST BE SUBMITTED

VP#4

(USE ADDITIONAL PAGES, IF NECESSARY.)

Instructions

FOR COMPLETE INFORMATION ABOUT CERTIFICATION, REFER TO *GUIDELINES FOR CERTIFICATION OF VERNAL POOL HABITAT*.

PROVIDE ALL OF THE INFORMATION REQUESTED IN BOXES 1-6. IF MORE SPACE IS REQUIRED, ATTACH ADDITIONAL PAGES. INCLUDE ALL REQUIRED PHOTOGRAPHS AND DOCUMENTATION. SIGN THE FORM IN THE AREA PROVIDED ON THE REVERSE SIDE. **INCOMPLETE OR UNSIGNED SUBMISSIONS WILL BE RETURNED.**

THE FOLLOWING INSTRUCTIONS REFER TO EACH OF THE NUMBERED BOXES.

1. THE 7.5 X 7.5 SERIES HAS THE LEGEND "7.5 MINUTE SERIES" IN THE UPPER RIGHT HAND CORNER ALONG WITH THE QUADRANGLE NAME. THE 7.5 X 15 MINUTE SERIES IS SO LABELED IN THE UPPER RIGHT HAND CORNER AND HAS THE QUADRANGLE NAME IN THE LOWER RIGHT CORNER.

WRITTEN DIRECTIONS **MUST** BE INCLUDED.

2. INDICATE THE FIRST AND LAST DATES THAT THE POOL OR ITS BIOLOGICAL COMPONENTS WERE OBSERVED.

3. PART A AND B ARE FOR CERTIFICATION BY OBLIGATE SPECIES. PART C IS EITHER FOR ADDITIONAL INFORMATION (APPRECIATED) OR FOR CERTIFICATION BY THE FACULTATIVE SPECIES. IF CERTIFYING BY OBLIGATE SPECIES, PROVIDE A PHOTOGRAPH OF THE POOL HOLDING WATER AND AT LEAST ONE PHOTOGRAPH (OR AUDIO TAPE FOR CHORUSING) OF BREEDING ACTIVITY.

FOR CERTIFICATION BY FACULTATIVE SPECIES, PROVIDE PHOTOGRAPHS OF THE POOL HOLDING WATER AND PHOTOGRAPHS (OR TAPES) OF THE FACULTATIVE SPECIES AS REQUIRED. ADDITIONALLY, PROVIDE A PHOTOGRAPH OF THE POOL WHEN DRY OR OTHERWISE PROVE THAT IT HAS NO FISH.

2. Observation dates

First date pool/species observed 5/8/01

Last date pool observed 5/8/01 Last date species observed 5/8/01

3 A. Evidence: obligate amphibians

Indicate date of observation.

* = RARE SPECIES	COURTING ADULTS	SPERMATOPHORES	EGG MASSES (2+)	SALAMANDER LARVAE	TRANSFORMING JUVENILES
SPOTTED SALAMANDER			5/8/01		
* BLUE-SPOTTED SALAMANDER					
* JEFFERSON SALAMANDER					
* MARBLED SALAMANDER					
UNIDENTIFIED MOLE SALAMANDER					
	BREEDING CHORUS	MATED PAIRS	EGG MASSES (2+)	FROG TADPOLES	TRANSFORMING JUVENILES
WOOD FROG					
* SPADEFOOT TOAD					

3 B. Evidence: fairy shrimp

DATE OBSERVED _____

3 C. Evidence: facultative organisms

Two or more must be documented. Indicate date of observation.

* = RARE SPECIES	DATE OBSERVED	ACTIVITY OBSERVED		DATE OBSERVED	ACTIVITY OBSERVED
BREEDING SPRING PEEPERS			PAINTED TURTLES		
BREEDING GRAY TREEFROGS			SNAPPING TURTLES		
BREEDING GREEN FROGS			PREDACEOUS DIVING BEETLE LARVAE		
BREEDING LEOPARD FROGS			WATER SCORPIONS		
BREEDING PICKEREL FROGS			DRAGONFLY NYMPHS		
BREEDING AMERICAN TOADS			DAMSELFLY NYMPHS		
BREEDING FOWLER'S TOADS			DOBSONFLY LARVAE		
* BREEDING FOUR-TOED SALAMANDERS			WHIRLIGIG BEETLE LARVAE		
RED-SPOTTED NEWT (ADULTS)			CADDISFLY LARVAE		
* SPOTTED TURTLES			LEECHES		
* WOOD TURTLES			FINGERNAIL (FRESHWATER) CLAMS		
* BLANDINGS TURTLES			AMPHIBIOUS AIR-BREATHING SNAILS		

Instructions (continued)

4. INDICATE THE PHOTOGRAPHS BEING SUBMITTED. LABEL, DATE, AND SIGN ALL PHOTOS.
5. MARK THE POOL CLEARLY ON ALL MAPS. THE POOL MUST BE CLEARLY DISTINGUISHED FROM OTHER WETLANDS AND BE LOCATABLE BY OTHERS. PROVIDE ANY MAPS THAT WOULD HELP SOMEONE UNFAMILIAR WITH THE AREA LOCATE THE VERNAL POOL IN THE FIELD.
6. THE FORM **MUST** BE SIGNED. UNSIGNED SUBMISSIONS WILL BE RETURNED WITHOUT FURTHER ACTION.

OPTIONAL INFORMATION:

PROPERTY OWNER. PROVIDE INFORMATION ABOUT PROPERTY OWNER(S), IF KNOWN. IT IS RECOMMENDED THAT YOU SEEK PROPERTY OWNER PERMISSION PRIOR TO CERTIFICATION ACTIVITIES.

RARE SPECIES. A PHOTOGRAPH IS NECESSARY FOR DOCUMENTATION OF RARE SPECIES HABITAT.

DESCRIPTION. PROVIDE ANY INFORMATION THAT WILL DISTINGUISH THE POOL FROM OTHER WETLANDS (BOULDERS, DEBRIS, TREE SPECIES, ETC.).

Optional information

Although the following information is not required for certification, it is useful to NHESP to possibly better protect the vernal pool, its habitat and species.

Property owner

IT IS STRONGLY RECOMMENDED THAT LANDOWNER PERMISSION BE OBTAINED PRIOR TO COLLECTING CERTIFICATION DOCUMENTATION.

Name _____

Address _____

Town _____

State _____

ZIP _____

Rare wetland species

☐ Y ☒ N

WERE ANY RARE STATE-LISTED SPECIES OBSERVED USING THIS POOL?

☐ Y ☒ N

IS A PHOTOGRAPH OF THE RARE SPECIES INCLUDED WITH THIS FILING?

Description of pool and surroundings

DIMENSIONS: APPROXIMATE LENGTH 10m APPROXIMATE WIDTH 5m

APPROXIMATE DEPTH 0.1m

DESCRIBE DISTINCTIVE FEATURES (ROADS, STRUCTURES, BOULDERS, ETC.) WHICH ARE VISIBLE FROM OR NEAR THE POOL.

Pooled area at base of slope in seepage swamp, frequent pooled areas nearby. Open canopy & dense shrub layer, rich herbaceous understory.

ARE THERE OTHER DISTINCTIVE FEATURES ABOUT THIS POOL (VEGETATION TYPES, ABANDONED VEHICLES, FOOT TRAILS, ETC.) THAT WOULD HELP SOMEONE RECOGNIZE IT?

50m SE of Freeman Street.

4. Photographs

MUST BE LABELED, DATED, AND SIGNED.



POOL HOLDING WATER



OBLIGATE +/- OR FACULTATIVE SPECIES



DRY POOL (REQUIRED FOR EVIDENCE 3C)

5. Maps submitted



USGS TOPOGRAPHIC MAP (REQUIRED)

AND ONE OR MORE OF THE FOLLOWING:



AERIAL PHOTOGRAPH



SKETCH MAP WITH COMPASS DIRECTIONS AND DISTANCES FROM LAND MARKS



PROFESSIONAL SURVEY



LARGE SCALE TOPO

OPTIONAL EXTRA INFORMATION



SKETCH MAP OF AREA



ASSESSOR'S MAP



GPS LONGITUDE/LATITUDE COORDINATES

N 41.7922A W 70.96144

6. Observer information & signature

Name Brian Reed

Address P.O. Box 1221

Town Plymouth State MA ZIP 02362

Telephone [REDACTED]

e-mail _____

I hereby certify under the pains and penalties of perjury that the information contained in this report is true and complete to the best of my knowledge.

Signature [Signature] Date 7/1/01

SEND COMPLETED FORM AND SUPPORTING DOCUMENTATION TO:

NH&ESP
VERNAL POOL CERTIFICATION
MA DIVISION OF FISHERIES & WILDLIFE
ROUTE 135
WESTBOROUGH, MA 01581

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UP #4

Rocky Woods - Lakeville

5/3/01

M. W. J.

Bran Reed

Spotted Salamander Egg Masses

Rocky Woods UP #4 - Lakeville

7/8/01

M. W. J.

Bran Reed



Division of Fisheries & Wildlife

Wayne F. MacCallum, *Director*

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2684

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: FROM FREETOWN STREET, TURN EAST ALONG THE DIRT ROAD. FOLLOW THE DIRT ROAD 600 METERS TO THE CELL PHONE TOWER AND THEN SOUTH FOR 100 METERS TO AN INTERMITTENT STREAM. FOLLOW THE STREAM WEST AND THEN SOUTH FOR ABOUT 100 METERS TO THE POOLED AREA IN THE SWAMP.

Land Ownership Information (If Supplied):

Maps submitted with certification and attached to this form

- ☒ USGS topographic map showing location of the vernal pool
- ☐ Assessor's map (or other property map) showing location of pool
- ☐ Compass bearings and distances to the pool from permanent landmarks
- ☒ Aerial photograph/80 or 100 scale topographic map showing location of the pool
- ☐ Professional survey showing location of the pool
- ☐ Sketch map or description of the immediate vicinity of the pool

Documented Biological Indicators Accepted by NHESP

- ☐ Wood Frog (Obligate Amphibian)
- ☒ Mole Salamander (Obligate Amphibian)
- ☐ Fairy Shrimp (Obligate Invertebrate)
- ☐ Facultative Amphibian
- ☐ Facultative Invertebrate
- ☐ Facultative Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

Vernal pools may be protected under the following regulations:

- Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00)
- Massachusetts Surface Water Quality Standards Regulations (314 CMR 4.00)
- Title V (Subsurface Sewage Disposal) Regulations (30 CMR 15.00)
- Forest Cutting Practices Act Regulations (304 CMR 11.00)



Natural Heritage & Endangered Species Program

Route 135, Westborough, MA 01581 Tel: (508) 792-7270 x 200 Fax: (508) 792-7821
An Agency of the Department of Fisheries, Wildlife & Environmental Law Enforcement
<http://www.state.ma.us/dfwele/dfw/nhesp>



Division of Fisheries & Wildlife

Wayne F. MacCallum, *Director*

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2685

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: FOLLOW FREETOWN STREET SOUTH AND TURN LEFT ONTO THE CARPATH. THE POOL IS LOCATED SOUTH OF THE CAR PATH ABOUT 800 METERS FROM FREETOWN STREET. REFER TO THE SUBMITTED MAPS FOR THE EXACT LOCATION OF THE POOL.

Land Ownership Information (If Supplied):

Maps submitted with certification and attached to this form

- ☒ USGS topographic map showing location of the vernal pool
- ☐ Assessor's map (or other property map) showing location of pool
- ☐ Compass bearings and distances to the pool from permanent landmarks
- ☒ Aerial photograph/80 or 100 scale topographic map showing location of the pool
- ☐ Professional survey showing location of the pool
- ☐ Sketch map or description of the immediate vicinity of the pool

Documented Biological Indicators Accepted by NHESP

- ☐ Wood Frog (Obligate Amphibian)
- ☒ Mole Salamander (Obligate Amphibian)
- ☐ Fairy Shrimp (Obligate Invertebrate)
- ☐ Facultative Amphibian
- ☐ Facultative Invertebrate
- ☐ Facultative Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

Vernal pools may be protected under the following regulations:

- Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00)
- Massachusetts Surface Water Quality Standards Regulations (314 CMR 4.00)
- Title V (Subsurface Sewage Disposal) Regulations (30 CMR 15.00)
- Forest Cutting Practices Act Regulations (304 CMR 11.00)



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Division of Fisheries & Wildlife

Wayne F. MacCallum, *Director*

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2686

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: FOLLOW FREETOWN STREET SOUTH AND TURN LEFT ONTO THE CARPATH. FOLLOW THE CARPATH FOR ABOUT 800 METERS TO ONE VERNAL POOL (CVP #2685) AND THEN TURN SOUTH. WALK DOWNSLOPE FOR 150 METERS AND THEN FOLLOW THE INTERMITTENT STREAM THAT RUNS BETWEEN THE ROCK OUTCROPS TO THE POOL.

Land Ownership Information (If Supplied):

Maps submitted with certification and attached to this form

- ☒ USGS topographic map showing location of the vernal pool
- ☐ Assessor's map (or other property map) showing location of pool
- ☐ Compass bearings and distances to the pool from permanent landmarks
- ☒ Aerial photograph/80 or 100 scale topographic map showing location of the pool
- ☐ Professional survey showing location of the pool
- ☐ Sketch map or description of the immediate vicinity of the pool

Documented Biological Indicators Accepted by NHESP

- ☒ Wood Frog (Obligate Amphibian)
- ☐ Mole Salamander (Obligate Amphibian)
- ☐ Fairy Shrimp (Obligate Invertebrate)
- ☐ Facultative Amphibian
- ☐ Facultative Invertebrate
- ☐ Facultative Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

Vernal pools may be protected under the following regulations:

- Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00)
- Massachusetts Surface Water Quality Standards Regulations (314 CMR 4.00)
- Title V (Subsurface Sewage Disposal) Regulations (30 CMR 15.00)
- Forest Cutting Practices Act Regulations (304 CMR 11.00)



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Division of Fisheries & Wildlife

Wayne F. MacCallum, *Director*

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2687

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: THE POOL IS LOCATED AT THE EDGE OF THE SWAMP ASSOCIATED WITH CEDAR SWAMP RIVER ABOUT 50 METERS SOUTHEAST OF FREETOWN STREET. REFER TO THE SUBMITTED MAPS FOR THE EXACT LOCATION OF THE POOL.

Land Ownership Information (If Supplied):

Maps submitted with certification and attached to this form

- ☒ USGS topographic map showing location of the vernal pool
- ☐ Assessor's map (or other property map) showing location of pool
- ☐ Compass bearings and distances to the pool from permanent landmarks
- ☒ Aerial photograph/80 or 100 scale topographic map showing location of the pool
- ☐ Professional survey showing location of the pool
- ☐ Sketch map or description of the immediate vicinity of the pool

Documented Biological Indicators Accepted by NHESP

- ☐ Wood Frog (Obligate Amphibian)
- ☒ Mole Salamander (Obligate Amphibian)
- ☐ Fairy Shrimp (Obligate Invertebrate)
- ☐ Facultative Amphibian
- ☐ Facultative Invertebrate
- ☐ Facultative Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

Vernal pools may be protected under the following regulations:

- Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00)
- Massachusetts Surface Water Quality Standards Regulations (314 CMR 4.00)
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