CHENEY ENGINEERING CO., INC.

53 Mellen Street Needham, MA 02494 Tel. 781-444-2188

ly 25, 2016

Ralph Parmigiane, Chair c/o Leslee Willitts, Conservation Agent Medfield Conservation Commission 459 Main Street Medfield, MA 02052

Via: Hand Delivery

te: Medfield Meadows LLC #49 Dale St, Medfield

Dear Chairman Parmigiane and Members of the Commission:

On behalf of the Applicant, Medfield Meadows LLC, Cheney Engineering Co., Inc. respectfully submits this Request for Determination of Applicability (RDA) to see if the site is subject to jurisdiction under the Act. Application is being filed under the Massachusetts Wetland Protection Act only.

As required, enclosed are eight copies plus the original of the RDA submission package. The following information is included for your review:

- > RDA
- > Assessing Map
- > "Wetland Resource Evaluation Report by Ecolec Inc., dated 1/25/2016
- > ILSF Analysis & Engineering Calculations Letter by Cheney Eng. Co., Inc.
- > "Wetlands Plan" by Cheney Engineering Co., Inc., dated 7/22/2016

If you have any questions concerning this submission, please do not hesitate to contact me.

Sincerely,

Cheney Engineering Co., Inc.

Ardi Rrapi



Massachusetts Department of Environmental Protection.

Bureau of Resource Protection - Wetlands

MEDFIELD City/Town

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return





2.

Joh	nn Kelly / Medfield Meadows LLC	iohnokellv86	johnpkelly86@gmail.com		
Nan		E-Mail Address			
12	Haven St.				
Mai	ling Address				
	ver	MA	02030		
-	//Town	State	Zip Code		
	9-794-4889				
Pho	one Number	Fax Number (if	applicable)		
Re	presentative (if any):				
Ch	eney Engineering Co., Inc				
Fim	•				
	di Rrapi		heney-eng.com		
	ntact Name	E-Mail Address			
	Mellen St. iling Address				
	edham	MA	02494		
	//Town	State	Zip Code		
-	1-444-2188				
	one Number	Fax Number (if	applicable)		
3. D	eterminations				
		owing determination(s). Check any that appl		
	equest the Medfield make the foll Conservation Commission	,			
l re	equest the Medfield make the following Conservation Commission a. whether the area depicted on plan(s) and/or map	(s) referenced below is	s an area subject to		
l re	equest the Medfield make the following conservation Commission a. whether the area depicted on plan(s) and/or map jurisdiction of the Wetlands Protection Act. b. whether the boundaries of resource area(s) dep	(s) referenced below is	s an area subject to map(s) referenced		
l re	equest the Medfield make the following conservation Commission a. whether the area depicted on plan(s) and/or map jurisdiction of the Wetlands Protection Act. b. whether the boundaries of resource area(s) dep below are accurately delineated.	(s) referenced below is intended on plan(s) and/or pelow is subject to the vertical referenced below is s	s an area subject to map(s) referenced Wetlands Protection Ad		
l re	equest the Medfield make the following conservation Commission a. whether the area depicted on plan(s) and/or map jurisdiction of the Wetlands Protection Act. b. whether the boundaries of resource area(s) depicted are accurately delineated. c. whether the work depicted on plan(s) referenced in the commission of the Wetlands Protection Act.	(s) referenced below is intended on plan(s) and/or pelow is subject to the vertical referenced below is s	s an area subject to map(s) referenced Wetlands Protection Ad		
. I re	a. whether the area depicted on plan(s) and/or map jurisdiction of the Wetlands Protection Act. b. whether the boundaries of resource area(s) dep below are accurately delineated. c. whether the work depicted on plan(s) referenced led, whether the area and/or work depicted on plan(s) of any municipal wetlands ordinance or bylaw of	(s) referenced below is interested on plan(s) and/or pelow is subject to the value referenced below is significant.	s an area subject to map(s) referenced Wetlands Protection A subject to the jurisdict		



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

MEDFIELD City/Town

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Project Description

49 Dale St.	Medfield					
Street Address	City/Town					
42	18					
Assessors Map/Plat Number	Parcel/Lot Number					
o. Area Description (use additional paper, if necessary):						
See "Wetland Resource Evaluation Report	rt' by EcoTec, Inc.					
c. Plan and/or Map Reference(s):						
Wetlands Plan	7/22/2016					
Wetlands Plan Title	7/22/2016 Date					
Title	Date					
Title Title	Date Date Date					
Title Title a. Work Description (use additional pap	Date Date					
Title Title	Date Date Date					
Title Title a. Work Description (use additional pap	Date					
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Title Title a. Work Description (use additional pap	Date Date Date Date Date Date Date Provide plan(s) of work, if necessary):					
Title Title a. Work Description (use additional pap	Date Date Date Date Date Date Date Provide plan(s) of work, if necessary):					



Massachusetts Department of Environmental Protection. Bureau of Resource Protection - Wetlands

MEDFIELD City/Town

WPA Form 1- Request for Determination of Applicability

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

C.	Pr	oject Description (cont.)				
	fron	Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant om having to file a Notice of Intent for all or part of the described work (use additional paper, if ecessary).				
	No	work is proposed at this time.				
		·				
3.		If this application is a Request for Determination of Scope of Alternatives for work in the erfront Area, indicate the one classification below that best describes the project.				
		Single family house on a lot recorded on or before 8/1/96				
		Single family house on a lot recorded after 8/1/96				
		Expansion of an existing structure on a lot recorded after 8/1/96				
		Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96				
		New agriculture or aquaculture project				
		Public project where funds were appropriated prior to 8/7/96				
		Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision				
		Residential subdivision; institutional, industrial, or commercial project				
		Municipal project				
		District, county, state, or federal government project				
		Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.				
		Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification ove (use additional paper and/or attach appropriate documents, if necessary.)				



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Name and address of the property owner:

MEDFIELD City/Town

WPA Form 1- Request for Determination of Applicability

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

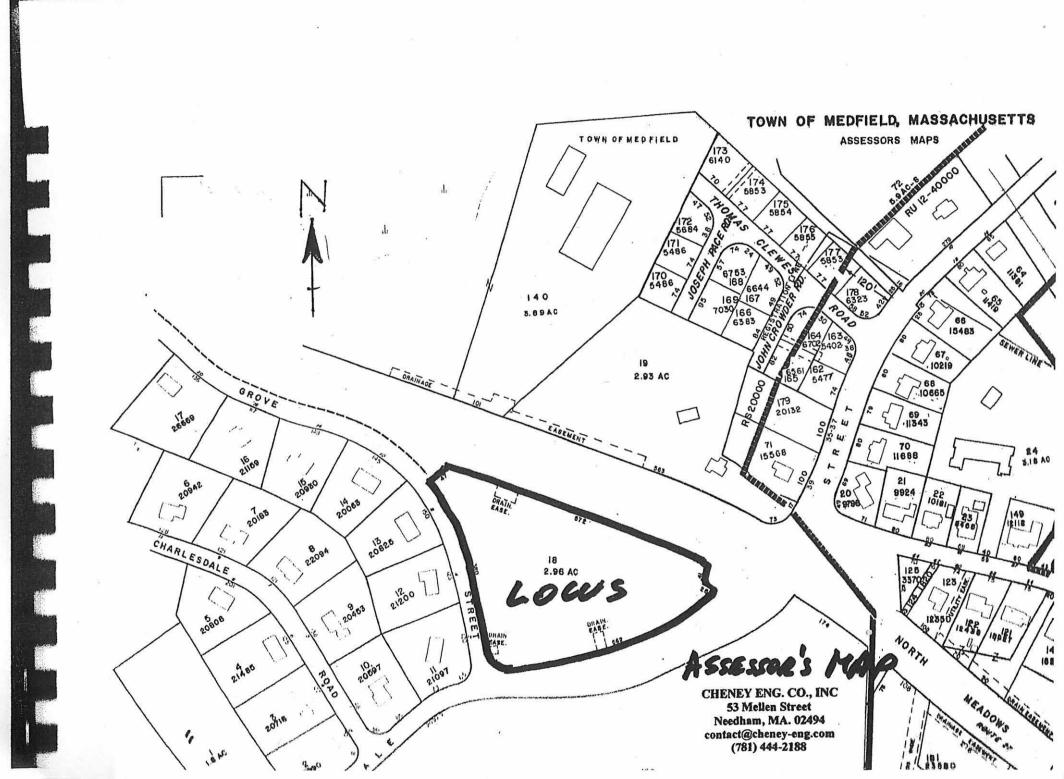
D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

CLIFFORD A. MONAC &	SUSAN H. MONAC
Name	
54 COUNTRY WAY	
Mailing Address	
MEDFIELD	
City/Town	
MA	02052
State	Zip Code
Signatures: also understand that notification of this Request will be point accordance with Section 10.05(3)(b)(1) of the Wetlands	
John Kelly	7/22/2016
Signature of Applicant	Date /
Ardin Chyp	7/22/2016
Signature of Representative (if any)	Date /



EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street Worcester, MA 01605-2629 508-752-9666 – Fax: 508-752-9494

July 25, 2016

Mr. Ardi Rrapi Cheney Engineering Co., Inc. 53 Mellen Street Needham, MA 02494

RE: Wetland Resource Evaluation, 49 Dale Street, Medfield, Massachusetts

Dear Mr. Rrapi:

On April 20, 2016, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the "Act") and its implementing regulations (310 CMR 10.00 et seq.; the "Regulations"); and (2) the Town of Medfield Wetlands Bylaw (Article IX; the "Bylaw") and Rules and Regulations ("Bylaw Regulations"). John P. Rockwood, Ph.D., PWS conducted the inspection.

The subject site consists of a 2.96±-acre parcel located to the northwest of Dale Street, northeast of Grove Street, and south of North Meadow Street in west-central Medfield, Massachusetts. The site consists of a large depressed area that is predominately upland. Plant species observed in the upland forest include northern red oak (Quercus rubra), white oak (Quercus alba), eastern white pine (Pinus strobus), red maple (Acer rubrum), American elm (Ulmus americana), American beech (Fagus grandifolia), and American plum (Prunus americana) trees, saplings, and/or shrubs; oriental bitter-sweet (Celastrus orbiculata) climbing woody vines; arrow-wood (Viburnum dentatum), America yew (Taxus canadensis), common winterberry (Ilex verticillata), and winged euonymus (Euonymus alata) shrubs; and lowbush blueberry (Vaccinium angustifolium), hayscented fern (Dennstaedtia punctilobula), upland sedge (Carex pensylvanica), and wild-lily-of-the-valley (Maianthemum canadense) ground cover. The wetland resources observed on the site are described below.

The site was inspected, and areas suspected to qualify as wetland resources were identified. No lakes, ponds, rivers, streams, or creeks or vegetated wetlands bordering on such a water body or waterway were observed on or within 100 feet of the site. As such, no Bordering Vegetated Wetlands, Bank, or Land Under Water Bodies and Waterways were delineated on or within 100 feet of the site. Bordering Vegetated Wetlands and Bank have a 100-foot Buffer Zone under the Act/Regulations. Given the above, a 100-foot buffer Zone under the Regulations does not occur on the site.

Mr. Ardi Rrapi July 25, 2016 Page 2.

Two isolated depressed areas predominated by wetland plant species were observed in the southeastern/eastern portions of the site. The boundary of Isolated Vegetated Wetlands within these areas was delineated based upon a predominance of wetland plant species and evidence of wetland hydrology, including hydric soils. The plant taxonomy used in this report is based on the National List of Plant Species that Occur in Wetlands: Massachusetts (Fish and Wildlife Service, U.S. Department of the Interior, 1988). Field Data Forms completed for observation plots located in the wetlands and uplands near flag A2 is attached. The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A18 connect to A1	Blue Ground Flags	Boundary of Isolated Vegetated Wetland under the Bylaw located in the southeastern portion of the site. This wetland contains a certifiable vernal pool. ¹
Start B1 to B25 connect to B1	Blue Ground Flags	Boundary of Isolated Vegetated Wetland under the Bylaw located in the eastern portion of the site.

^{1.} The maximum observed extent of flooding based upon leaf staining was contained within the wetland flags at or below elevation 147.5.

Two Isolated Vegetated Wetlands were observed and delineated in the southeastern/eastern portions of the site with Blue Ground Flags. These wetland areas are further described as follows:

- Wetland A, the larger of these two areas, is located in the southeastern portion of the site. Plant species observed in this area include red maple (Acer rubrum) and American elm (Ulmus americana) trees, saplings, and/or shrubs; poison ivy (Toxicodendron radicans) climbing woody vines and ground cover; highbush blueberry (Vaccinium corymbosum), common winterberry (Ilex verticillata), and arrow-wood (Viburnum dentatum) shrubs; and cinnamon fern (Osmunda cinnamomea) ground cover. Hydric soils and other evidence of wetland hydrology, including high groundwater, saturated soils, and evidence of flooding, were observed within the delineated wetland. At the time of the inspection, an 8 foot by 20 foot pocket of water 6 inches deep was observed in the lowest portion of this wetland. Despite the above observation, this area clearly holds greater than 200 cubic feet of water in most years. Several fairy shrimp, an obligate vernal pool invertebrate, were netted and documented in this area at that time. No amphibians were noted during the inspection.
- Wetland B, the smaller area, is located in the eastern portion of the site. Plant species observed in this area include red maple (Acer rubrum) and American elm (Ulmus americana) trees, saplings, and/or shrubs; poison ivy (Toxicodendron radicans) climbing woody vines and ground cover; common winterberry (Ilex verticillata) and silky dogwood (Cornus amomum) shrubs; and cinnamon fern (Osmunda cinnamomea) and sensitive fern (Onoclea sensibilis) ground cover. Hydric soils and other evidence of wetland hydrology, including high groundwater, saturated soils, and evidence of flooding, were observed within the delineated wetland. This area did not contain standing water at the time of the inspection.

Mr. Ardi Rrapi July 25, 2016 Page 3.

As noted above, these two isolated wetlands do not border a creek, stream, river, pond, or lake; accordingly, they would not be regulated as Bordering Vegetated Wetlands under the Act/Regulations. Section 10.57(2)(b)1. of the Regulations states that "Isolated Land Subject to Flooding is an isolated depression or closed basin without an inlet or an outlet. It is an area that at least once per year confines standing water to a volume of at least 1/4 acre-feet and to an average depth of at least six inches." These two areas are not contiguous and are separated by an upland saddle at elevation 150. Engineering calculations conducted by Cheney Engineering Co., Inc. in accordance with 310 CMR 10.57(2)(b) and the ILSF Definition Policy issued January 25, 1985 and revised March 1, 1995 (see calculations on Site Plan and Letter from Cheney Engineering Co., Inc., dated July 22, 2016 demonstrate that neither of these two areas are capable of holding the requisite volume of water to be regulated as Isolated Land Subject to Flooding under the Regulations to a conservative elevation of 148.5. Isolated Land Subject to Flooding does not have a 100-foot Buffer Zone under the Regulations. Based upon the above. these two areas are not subject to jurisdiction under the Act and its Regulations. Wetlands A and B are both, however, subject to regulation under the Bylaw and Bylaw Regulations as any Freshwater Wetland (e.g., Isolated Vegetated Wetland). Isolated Vegetated Wetlands would have a 100-foot Buffer Zone under the Bylaw/Bylaw Regulations. Wetland A is also subject to regulation under the Bylaw and Bylaw Regulations as it contains a Certifiable Vernal Pool based upon the above-noted fairy shrimp observation. Based upon observations in the field, the Mean Annual High-water Line ("MAHWL") of the depression was determined to be elevation 147.5, based upon evidence of the maximum observed extent of flooding. The boundary of the Vernal Pool resource area is 100 feet outward from the MAHWL of the depression. Certifiable Vernal Pools have a 100-foot Buffer Zone under the Bylaw/Bylaw Regulations.

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that "The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm." Based upon a review of the Flood Insurance Rate Map, Norfolk County, Massachusetts, Map Number 25021C0154E, Effective Date July 17, 2012 (attached), the site and immediate surroundings are mapped as Other Areas: Zone X, which is defined as areas located outside of the 0.2% annual chance flood (i.e., outside of 500-year floodplain). As such, Bordering Land Subject to Flooding would not occur on the site. Bordering Land Subject to Flooding does not have a 100-foot Buffer Zone under the Regulations, but has a 100-foot Buffer Zone under the Bylaw/Bylaw Regulations.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Medfield Quadrangle, dated 1987, attached) and observations made during the site inspection, there are no mapped or significant unmapped streams located within 200 feet of the site. Accordingly,

Mr. Ardi Rrapi July 25, 2016 Page 4.

Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act/Regulations or Bylaw/Bylaw Regulations.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 13th edition, Priority Habitats and Estimated Habitats, Medfield Quadrangle, valid from October 1, 2008 (attached), there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. It should be noted that Vernal Pool Habitat is not a resource area under the Regulations; it is simply a type of wildlife habitat that must occur within a wetland resource area under the Regulations in order to be afforded protection under the Regulations.

In conclusion, no wetland resource areas (i.e., Areas Subject to Protection under the Act) or 100-foot Buffer Zone subject to regulation under the Act and Regulations occur on the site. Two isolated depressions on the site (i.e., Wetlands A and B) are subject to regulation under the Bylaw and Bylaw Regulations as Freshwater Wetlands (e.g., Isolated Vegetated Wetlands) and Wetland A contains a Certifiable Vernal Pool. The MAHWL, resource area boundaries, and the respective 100-foot Buffer Zones under the Bylaw and Bylaw Regulations are shown on the Site Plan.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. A brief description of my experience and qualifications is attached. If you have any questions, please feel free to contact me at any time.

Cordially, ECOTEC, INC.

John P. Rockwood, Ph.D., PWS Chief Environmental Scientist

John P. Rochwood

Attachments (5, 8 pages)

18/wr/MEDFIELD49DALEWRE

Isolated Vegetated Wetland Delineation Field Data Form

Applicant:

Prepared by: EcoTec, Inc.

Project location: 49 Dale Street, Medfield

DEP File #:

Section I.	Vegetation	Observation Plot Number: A2	Transect Numb	er: Up	Date of Deli	neation: 4/20/2016
A. Sample L (by comm	ayer and Plant Species non/scientific name)		B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category *
Tree	Red Maple	Acer rubrum	20	29	Yes	FAC*
	Northern Red Oak	Quercus rubra	20	29	Yes	FACU-
	Eastern White Pin	e Pinus strobus	30	43	Yes	FACU
Shrub	Eastern White Pin	e Pinus strobus	15	33	Yes	FACU
	Red Maple	Acer rubrum	10	22	Yes	FAC*
	Northern Red Oak	Quercus rubra	10	22	Yes	FACU-
	Arrow-wood	Viburnum dentatum	10	22	Yes	FAC*
Ground Co	ver Upland Sedge	Carex pensylvanica	20	31	Yes	NL
	Lowbush Blueberr	y Yaccinium angustifolium	20	31	Yes	FACU-
	Wild-lily-of-the-va	lley Maianthenum canadense	20	31	Yes	FAC-
	Eastern White Pin	e Pinus strobus	5	8	No	FACU

Vegetation conclusions:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 7 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? N_0

Transect A2 Up (Cont.)					
Section II. Indicators of Hydrology					
1. Soil Survey					
Is there a published soil survey for this site?					
title/date: - map number: - soil type mapped: - hydric soil inclusions: -					
Are field observations consistent with soil survey? -					
Remarks: -					
Soil Description Horizon Depth (inches) Matrix Color Mottle Color					
Horizon Depth (inches) Matrix Color Mottle Color A 0-6 10 YR 3/2 Loam -					
Horizon Depth (inches) Matrix Color Mottle Color A 0-6 10 YR 3/2 Loam - B 6-20 10 YR 5/4 Sandy Loam -					
Horizon Depth (inches) Matrix Color Mottle Color A 0-6 10 YR 3/2 Loam - B 6-20 10 YR 5/4 Sandy Loam -					
Horizon Depth (inches) Matrix Color Mottle Color A 0-6 10 YR 3/2 Loam - B 6-20 10 YR 5/4 Sandy Loam -					
Horizon Depth (inches) Matrix Color Mottle Color A 0-6 10 YR 3/2 Loam - B 6-20 10 YR 5/4 Sandy Loam -					
Horizon Depth (inches) Matrix Color Mottle Color A 0-6 10 YR 3/2 Loam - B 6-20 10 YR 5/4 Sandy Loam - ,					
Horizon Depth (inches) Matrix Color Mottle Color A 0-6 10 YR 3/2 Loam - B 6-20 10 YR 5/4 Sandy Loam - ,					

Other Indications 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:					
/enet	(anatation and Unidealant Constraint					
egei	egetation and Hydrology Conclusion yes no					
	Number of wetland indicator plants ≥ number of non-wetland indicator plants					
Wetland hydrology present:						
	hydric soil present					
	other indicators of hydrology present					
Sar	Sample location is in an IVW					
			1			

Isolated Vegetated Wetland Delineation Field Data Form

Applicant:

Prepared by: EcoTec, Inc.

Project location: 49 Dale Street, Medfield

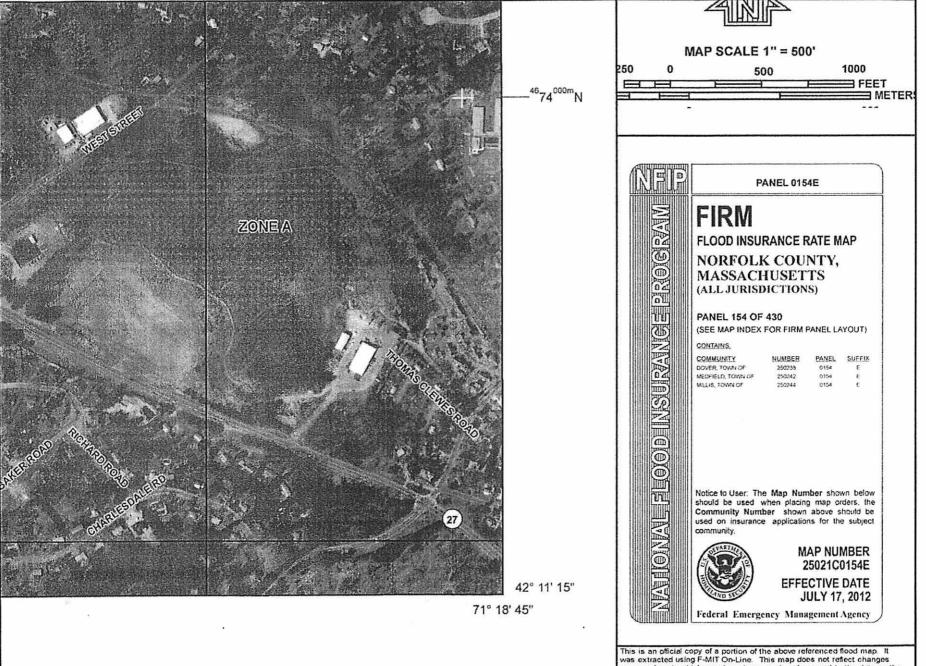
DEP File #:

Section I. Vo	egetation	Observation Plot Number: A2	Transect Numb	er: Wet	Date of Deli	neation: 4/20/2016
	er and Plant Species /scientific name)		B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category *
Tree	Red Maple American Elm	Acer rubrum Ulmus americana	30 10	75 25	Yes Yes	FAC* FACW-*
Shrub	Common Winterb	erry Ilex verticiliata	40	100	Yes	FACW+*

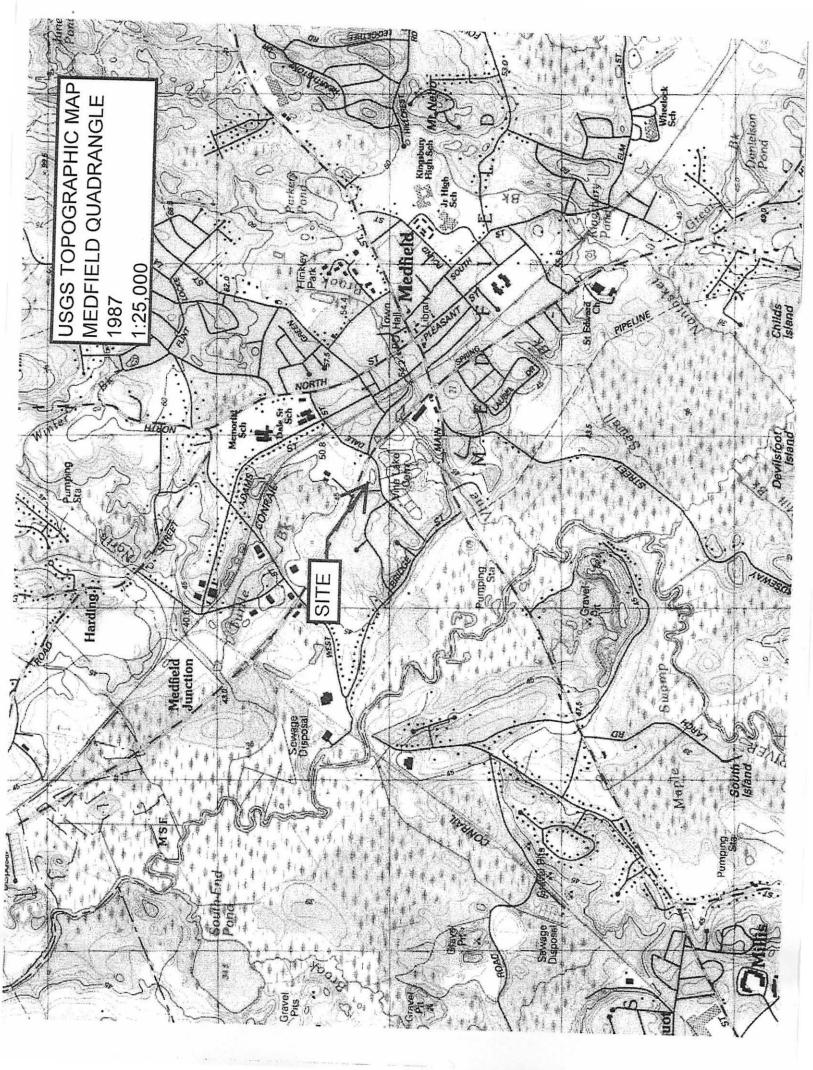
Vegetation conclusions:

Number of dominant wetland indicator plants: 3 Number of dominant non-wetland indicator plants: 0 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes

Transect A2 Wet (Cont.)	Other Indications of Hydrology: (check all that apply and describe)				
Section II. Indicators of Hydrology	Site inundated:				
1. Soil Survey	☐ Depth to free water in observation hole:				
Is there a published soil survey for this site?	Depth to soil saturation in observation hole:				
title/date: - map number: -	☐ Water marks:				
soil type mapped: -	☐ Drift lines:				
hydric soil inclusions: -					
Are field observations consistent with soil survey? -	☐ Drainage patterns in BVW:				
Remarks: -	Oxidized rhizospheres: Within 6 inches				
	☑ Water-stained leaves:				
Soil Description Horizon Depth (inches) Matrix Color Mottle Color	Recorded data (stream, lake, or tidal gauge; aerial photo; other):				
A 0-5 10 YR 2/1 Loam Pore Linings B1 6-14 2.5 Y 5/2 Sandy Loam 10 YR 5/6 and 2.5 Y 6/1 B2 14-20 2.5 Y 5/1 Fine Sandy Loam 10 YR 5/6 and 2.5 Y 6/1	☐ Other:				
,					
	Vegetation and Hydrology Conclusion yes no				
	Number of wetland indicator plants ≥ number of non-wetland indicator plants				
Remarks: Terminated at 20 inches; groundwater was not encountered.	Wetland hydrology present:				
	hydric soil present				
3. Other: -	other indicators of hydrology present				
Conclusion: Is soil Hydric? Yes	Sample location is in an IVW				



was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



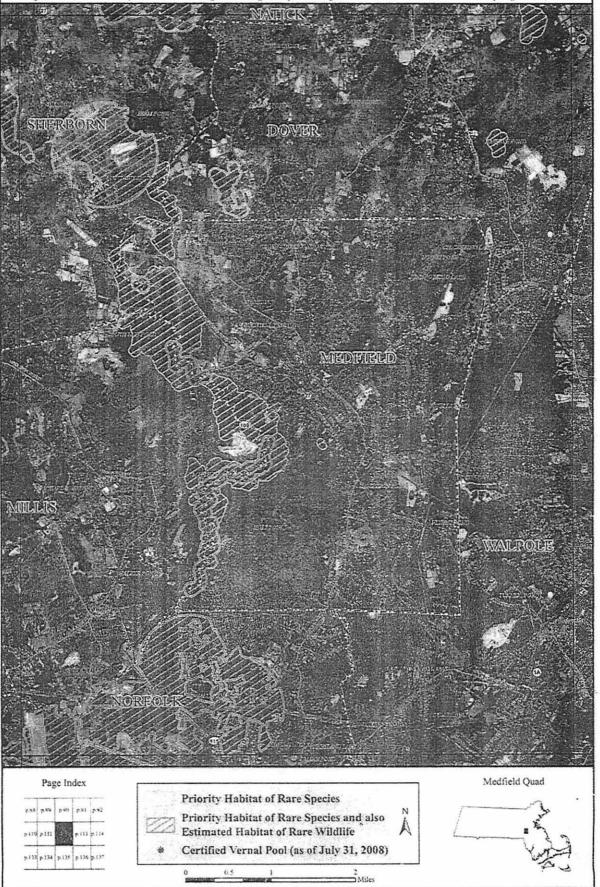


Priority Habitats and Estimated Habitats - Effective October 1, 2008

Priority Habitats for use with the MA Endangered Species Act Regulations (321 CMR 10) Estimated Habitats for use with the MA Wetlands Protection Act Regulations (310 CMR 10)

Produced by the Natural Heritage & Endangered Species Program

website: www.nhesp.org



EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street Worcester, MA 01605-2629 508-752-9666 – Fax: 508-752-9494

> John P. Rockwood, Ph.D., PWS Chief Environmental Scientist

Dr. John P. Rockwood has been with EcoTec, Inc. since October 1999. Dr. Rockwood was previously a Chief Environmental Scientist at Sanford Ecological Services, Inc. of Southborough, Massachusetts from September 1990 to October 1999. Dr. Rockwood was certified in August 2002 and recertified in March 2008 and January 2013 as a Professional Wetland Scientist (PWS) by the Society of Wetland Scientists, the leading professional organization in the field. His project experience includes wetland resource evaluation, delineation, and permitting at the local, state, and federal levels; wildlife habitat evaluation; pond and stream evaluation; vernal pool evaluation, certification, construction/replication, and monitoring; rare species habitat and impact assessment; wetland replacement, replication, and restoration area design, construction, and monitoring; and expert testimony preparation. He has served as a consultant to municipalities, conservation commissions, the development community, engineering and survey firms, industry, and citizen's groups. He has managed and participated in a wide variety of wetlands-related projects ranging in scope from single-family house lots to subdivisions, commercial developments, golf courses, a water park, and a regional mall. He has assessed the potential impacts of stormwater runoff, landfill leachate, and/or hazardous waste disposal sites on rare vertebrate and/or invertebrate species, and has conducted and/or directed surveys, delineated actual habitat, conducted habitat evaluations, and/or developed mitigation strategies necessary to protect rare vertebrate, invertebrate, and plant species and their habitats from proposed development-related impacts. He has conducted a drift fence study for the marbled salamander. He has conducted and led preconstruction sweeps for the spotted turtle, wood turtle, and eastern box turtle. He has filed MESA Project Review Checklists and has prepared applications for Conservation and Management Permits under MESA. He has conducted environmental impact assessments, and has prepared MEPA documentation related to an office park, an MBTA commuter train station, a water park, residential subdivisions, a landfill, and a regional mall. Dr. Rockwood also has extensive experience in the area of environmental site assessment related to possible oil and/or hazardous material contamination. He has conducted numerous environmental assessments, several including subsurface investigations, for sites located in Massachusetts, and has conducted preliminary environmental assessments for properties located in New York, New Hampshire, and Rhode Island. He has conducted ecological risk assessments (i.e., Stage I Environmental Screenings and Stage II Environmental Risk Characterizations) for a number of disposal sites in Massachusetts, including several disposal sites that had the potential to affect statelisted vertebrate and invertebrate species, and has utilized the EPA Rapid Bioassessment Protocol for macroinvertebrates to assess potential impacts of disposal sites and hazardous material releases on streams and rivers in Massachusetts and New York. He has served as the environmental contractor to the Franklin Consolidated Office of the Federal Deposit Insurance Corporation (FDIC-FCO) for 16 months, where he reviewed environmental reports, prepared scopes-of-work for site assessments, and provided technical advice to FDIC employees related to environmentally compromised assets. Dr. Rockwood has designed, conducted, and evaluated numerous surface water and groundwater monitoring programs. His prior research includes a laboratory study of the effects of low pH and aluminum on dragonfly nymphs and a field survey of the impact of chlorinated sewerage effluent of algal periphyton community dynamics. Dr. Rockwood is the co-author of a text book on aquatic biology, and is the principal author of three peer-reviewed research publications in the field of aquatic toxicology that address the effect of low pH and aluminum on nymphs of the dragonfly Libellula julia. Dr. Rockwood has served as the as the Editor of the AMWS Newsletter from November 2004 to October 2010 and as Assistant Editor from May 2003 to November 2004 and October 2010 to January 2012. He has served as President of the Association of Massachusetts Wetland Scientists from November 2013 to December 2015 and currently serves on the AMWS Board of Directors as Immediate Past President.

Education: Doctor of Philosophy (Ph.D.): Aquatic Pollution Biology – Plant and Soil Sciences

University of Massachusetts at Amherst, 1989

Bachelor of Science (B.S.): Environmental Sciences, Summa Cum Laude

University of Massachusetts at Amherst, 1984

Professional Affiliations: Society for Freshwater Science

Sigma Xi, Full Member

Association of Massachusetts Wetland Scientists, Voting Member

Society of Wetland Scientists

Massachusetts Association of Conservation Commissioners

Certifications: Society of Wetlands Scientists Professional Wetland Scientist, Certification Number 1349

OSHA Health and Safety Training, 40-Hour Training, 29 CFR 1910.120

OSHA Health and Safety Training, 8-Hour Supervisor Training OSHA Health and Safety Training, 8-Hour Refresher Training

CHENEY ENGINEERING CO., INC

53 Mellen Street Needham, MA 02494 Tel. 781-444-2188

7/22/2016

To:

John Rockwood, Ph.D., PWS

Chief Environmental Scientist

EcoTec, Inc.

From: Ron Tiberi PE

Re:

49 Dale St, Medfield

ILSF Analysis & Engineering Calculations.

Dear John,

At your request we analyzed the two depression areas to see if they can be considered Isolated Land Subject to Flooding under the local and state wetlands protection regulations.

As shown on the tabulations on our plan neither location qualify based on volume as Isolated Land Subject to Flooding under the act.

If there are any questions, please do not hesitate to call me.

Sincerely

Cheney Engineering Co., Inc.

Ron Tiberi PE. 34773

