Commonwealth of Massachusetts

Executive Office of Environmental Affairs ■ MEPA Office

ENF Environmental **Notification Form**

For Office Use Only
Executive Office of Environmental Affairs
EOEA No.: 12748
MEPA Analyst Arthur Pugs/Fy
Phone: 617-626-1029

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Damde Meddowes Sali	Marsh Re	storation (World's	End Reserva	tion)	
Street: Martin's Lane					
Municipality: Hingham		Watershed: Boston Harbor Basin			
Universal Transverse Mercator Coordinates:		Latitude: 42 ^o 15'24"			
$^{46}80^{000}N$, $^{3}45^{353}E$		Longitude: 70°52'29"			
Estimated commencement date: August 2002					
Approximate cost: \$200,000		Status of project design: 100% complete			
Proponent: The Trustees of Reservation	ns				
Street: 2468B Washington Street					
Municipality: Canton		State: MA	Zip Code: 02021		
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Garrett Hollands					
Firm/Agency: ENSR	Firm/Agency: ENSR		Street: 2 Technology Park Drive		
Municipality: Westford		State: MA	Zip Code: 01886		
Phone: 978-589-3000	Fax:	E-mail: ghollands@en		llands@ensr.com	
Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)? ☐ No					
Has this project been filed with MEPA b				_	
Yes (EOEA No) No					
Has any project on this site been filed with MEPA before? ☐Yes (EOEA No) ☒No					
Is this an Expanded ENF (see 301 CMR 11.0 a Single EIR? (see 301 CMR 11.06(8)) a Special Review Procedure? (see 301 CM a Waiver of mandatory EIR? (see 301 CM a Phase I Waiver? (see 301 CMR 11.11)	MR 11.09)	esting: Yes Yes Yes Yes Yes		□No ⊠No □No ⊠No	
Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres):					
Are you requesting coordinated review	with any ot	\ \		ocal agency?	

Water Quality Certification, Chapter 91 License); Federal (Section 404, CZM Consistency).					
	Whi	ch ENE or E	IR review t	hreshold(s) does the proj	
meet or exceed (see 301 CMR 11.0		on Ein or E	-III (TO VIO VV)	inesticia(s) aces the proj	
☐ Land ☐ Water ☐ Energy ☑ ACEC	Rare Speci Wastewate Air Regulation	er 🔲	Transportat Solid & Haz	Vaterways, & Tidelands ion ardous Waste Archaeological	
Summary of Project Size	Existing	Change	Total	State Permits &	
& Environmental Impacts				Approvals	
	LAND			Order of Conditions	
Total site acreage	~15 acres			Superseding Order of Conditions	
New acres of land altered		2,525 sf (direct impact)		☐ Chapter 91 License ☐ 401 Water Quality	
Acres of impervious area	0	0		Certification	
Square feet of new bordering vegetated wetlands alteration		4.7 acres (indirect impact)		MHD or MDC Access Permit	
Square feet of new other wetland alteration		~10 acres (indirect impact)	TO 1911		
Acres of new non-water dependent use of tidelands or waterways		0		DEP or MWRA Sewer Connection/ Extension Permit	
STRU	JCTURES			Other Permits (including Legislative	
Gross square footage				Approvals) - Specify:	
Number of housing units					
Maximum height (in feet)			\		
TRANSI	PORTATION				
Vehicle trips per day					
Parking spaces					
WATER/W	VASTEWATE	R			
Gallons/day (GPD) of water use					
GPD water withdrawal					
GPD wastewater generation/ treatment					
Length of water/sewer mains (in miles)	The state of				

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

☐Yes (Specify	_)	⊠No
Will it involve the release of any conservation restriction, pres restriction, or watershed preservation restriction?	serva	tion restriction, agricultural preservation
	,	
Yes (Specify	_)	⊠No
RARE SPECIES: Does the project site include Estimated Ha	bitat	of Rare Species, Vernal Pools, Priority
Sites of Rare Species, or Exemplary Natural Communities?		
Yes (Specify)	⊠No
HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the	e pro	ject site include any structure, site or district
listed in the State Register of Historic Place or the inventory	of His	storic and Archaeological Assets of the
Commonwealth?		
☐Yes (Specify	_)	No However, the 1600's dike has
been determined to be eligible for listing in the National Reg	gister	of Historic Places.
If yes, does the project involve any demolition or destruction	of an	v listed or inventoried historic or
archaeological resources?		y notes of inventorios meteric of
☐Yes (Specify	١	□No
	/	
AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is th	e pro	piect in or adjacent to an Area of Critical
Environmental Concern?		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
⊠Yes (Specify – The project site is located within the	Weir	River ACEC) No

PROJECT DESCRIPTION: The project description should include **(a)** a description of the project site, **(b)** a description of both on-site and off-site alternatives and the impacts associated with each alternative, and **(c)** potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

The project site is located at World's End Reservation in Hingham, Massachusetts, which is owned and managed by The Trustees of Reservations. The proposed salt marsh restoration project will restore tidal flow to Damde Meddowes, a brackish, shallow water pond and marsh system located at World's End between Planter's Hill and Rocky Neck. Prior to European settlement, Damde Meddowes was a typical New England salt marsh. Stone dikes were constructed at both ends of Damde Meddowes in the 1600's to prevent the daily tides from reaching the marsh and to allow conversion of the area to an agricultural hayfield. A third stone dike was constructed near Martin's Cove in 1890. In 1967, The Trustees of Reservations acquired the site and agricultural use was discontinued. Several drainage structures were installed in the early twentieth century to help drain the marsh including a tile drainage system, a 12-inch steel pipe and pump house, and tide gates. Since 1940, the drainage structures have fallen into disrepair allowing fresh and salt water to accumulate within Damde Meddowes. As a result, the agricultural field reverted to the brackish pond/marsh system that exists today (refer to Appendix A for a more detailed site and project description).

The applicant proposes to restore the normal ebb and flood of the tide to restore the area to salt marsh. The following three alternatives were developed by the Natural Resources and Conservation Service:

Alternative 1: Replace the existing 12-inch steel pipe with a new 15-inch PVC pipe with two tide gates; Alternative 2a: Install a 4 ft. by 8 ft. concrete box culvert through each dike; and Alternative 2b: Install a 4 ft. by 8 ft. concrete box culvert through the 1890's dike and breach the 1600's dike with a 20 foot wide, rock-lined open channel.

Alternative 1 would maintain the existing condition of Damde Meddowes as a brackish water wetland system. Alternatives 2a and 2b would allow daily tidal flow within Damde Meddowes and, therefore, restore the wetland to a salt marsh. However, Alternative 2b would significantly damage the historic quality

of the 1600's stone dike and would prevent the dike from continuing to be used as a footpath. Alternative 2a was selected as the preferred alternative because it maintains the historic integrity of the 1600's dike and creates sufficient hydrology to restore Damde Meddowes as a salt marsh. The proposed restoration project will result in approximately 2,525 square feet of direct impacts to resource areas, consisting of Salt Pond (625 sf), Salt Marsh (400 sf), Coastal Beach (600 sf), and Coastal Bank (900 sf). In addition, there will be 1800 sf of impact to the resource area buffers. Approximately 14.7 acres of Salt Pond (10 ac.) and Bordering Vegetated Wetlands (4.7 ac.) will be subject to indirect impacts due to changing hydrology. Tidal flow will be enhanced within approximately 0.8 acres of degraded Salt Marsh located between the two dikes near Martin's Lane. There are no adjacent properties that will be adversely affected by the restoration of tidal flows to the Damde Meddowes. (Refer to Appendix A for a detailed site and project description.)

LAND SECTION - all proponents must fill out this section

1.

11.

A.	resholds / Permits Does the project meet or exceed any review to the project meet of the project meet or exceed any review to the project meet or exceed any r	thresholds relate	d to land (see 30)1 CMR 11.03(1)	
	pacts and Permits Describe, in acres, the current and proposed Footprint of buildings Roadways, parking, and other paved areas Other altered areas (describe) Undeveloped areas	Existing NA	<u>Change</u> <u>2,525 sf</u>	2,525 sf ~15 ac.	
	Has any part of the project site been in active Yes _√_ No; if yes, how many acres of land nverted to nonagricultural use?	e agricultural use in agricultural us	in the last three se (with agricultur	years? al soils) will be	
C. Is any part of the project site currently or proposed to be in active forestry use? Yes√No; if yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a DEM-approved forest management plan:					
D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97? Yes $\sqrt{}$ No; if yes, describe:					
res if y	Is any part of the project site currently subject striction, agricultural preservation restriction or es, does the project involve the release or most, describe:	watershed prese	ervation restriction	n? Yes √ No:	
F. Does the project require approval of a new urban redevelopment project or a fundamental change in an existing urban redevelopment project under M.G.L.c.121A? Yes $\sqrt{\ }$ No; if yes, describe:					
G. Does the project require approval of a new urban renewal plan or a major modification of an existing urban renewal plan under M.G.L.c.121B? Yes No $\sqrt{\ }$; if yes, describe:					
H. con	Describe the project's stormwater impacts and mply with the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in DEP's Stormwater impacts and project in the standards found in the standard fou	d, if applicable, n vater Manageme	neasures that the ent Policy: NA	project will take to	
I. Cor	Is the project site currently being regulated untingency Plan? Yes No $\sqrt{\ }$; if yes, what	nder M.G.L.c.21E at is the Release	or the Massach Tracking Numbe	usetts r (RTN)?	
1.	If the project is site is within the Chicopee or I	Nashua watershe	ed, is it within the	Quabbin, Ware,	