Commonwealth of Massachusetts Executive Office of Environmental Affairs ■ MEPA Office

Environmental Notification Form

For Office Use Only Executive Office of Environmental Affairs

EOEA No.:/3559 MEPA Analyst:Aisling Eglington Phone: 617-626-1024

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

he provisions of the Massachusetts Environment	at I olicy Act, SOT ON	T 11.00.			
Project Name: Muddy Pond Road over Stillwater River Bridge Replacement, Bridge No.					
S-25-008					
Street: Muddy Pond Road					
Municipality: Sterling	Watershed: Nas	Watershed: Nashua			
Universal Tranverse Mercator Coordinates:	Latitude: 42d-24	Latitude: 42d-24m-39s N			
UTM 19 270331E 4699167N (NAD83)		Longitude: 71d-47m-28s W (NAD83)			
Estimated commencement date: March 200	6 Estimated comp				
Approximate cost: \$1,000,000		Status of project design: 90 %complete			
Proponent: Department of Conservation & Recreation, Div. of Water Supply Protection					
Street: 180 Beaman Street					
Municipality: West Boylston	State: MA	Zip Code: 01583			
Name of Contact Person From Whom Cop	es of this ENF May	/ Be Obtained:			
Vincent P. Vignaly, P.E.					
Firm/Agency: DCR	Street: 180 Bea				
Municipality: West Boylston	State: MA	Zip Code: 01583			
Phone: (508) 792-7423 x203 Fax: (508) 792-7805	E-mail:			
		Vincent.Vignaly@state.ma.us			
Described was at an expect of mondatory EID throspold (see 201 CMP 11 03)?					
Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)? [Yes X No					
Has this project been filed with MEPA before?					
Yes (EOEA No) X No					
Has any project on this site been filed with MEPA before?					
and the second s	Yes (EOEA No) X No			
Is this an Expanded ENF (see 301 CMR 11.05(7)) re	questi <u>ng</u> :	[
a Single EIR? (see 301 CMR 11.06(8))					
a Special Review Procedure? (see 301CMR 11.09)					
a Waiver of mandatory EIR? (see 301 CMR 11.11)		X No X No			
a Phase I Waiver? (see 301 CMR 11.11)	∐Yes				
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): Not Applicable					
		and a second of the second of			
Are you requesting coordinated review with any other federal, state, regional, or local agency? ☐Yes(Specify) X No					
Yes(Specify	/ L	X NO			
List Local or Federal Permits and Approvals:					
Wetlands Protection Act Notice of Intent filed in Sterling, MA; 401 Water Quality Certification filed					
with MA DEP.					

Which ENF or EIR review thresho	old(s) does th	e project me	et or exceed	(see 301 CMR 11.03):.
☐ Land ☐ ☐ Water ☐ Energy ☐ ACEC ☐	Rare Specie Wastewater Air Regulations	r 📋	Transportati Solid & Haz Historical & Resources	ardous Waste Archaeological
Summary of Project Size	Existing	Change	Total	State Permits &
& Environmental Impacts				Approvals
L	AND			X Order of Conditions Superseding Order of
Total site acreage	154	:		Conditions
New acres of land altered		0.05		Chapter 91 License
Acres of impervious area	0.51	0	0.51	X 401 Water Quality Certification
Square feet of new bordering vegetated wetlands alteration		0		☐ MHD or MDC Access Permit
Square feet of new other wetland alteration		135		☐ Water Management Act Permit ☐ New Source Approval
Acres of new non-water dependent use of tidelands or waterways		0		DEP or MWRA Sewer Connection/ Extension Permit
STRI	UCTURES			X Other Permits
Gross square footage	-	-	-	(including Legislative Approvals) - Specify:
Number of housing units	-	-	-	Watershed Protection
Maximum height (in feet)	-	-	-	Act Exemption
TRANS	PORTATION			
Vehicle trips per day	2850	0	2850	
Parking spaces	0	0	0	
	WASTEWAT	ER		
Gallons/day (GPD) of water use			-	
GPD water withdrawal	-	-	-	
GPD wastewater generation/ treatment	-	-	-	
Length of water/sewer mains (in miles)	-		-	
CONSERVATION LAND: Will the presources to any purpose not in accomplex (Specify Will it involve the release of any conrestriction, or watershed preservation Tyes (Specify	ordance with A servation restr	rticie 97?	X No	

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of
Rare Species, or Exemplary Natural Communities?
X Yes (Specify Triangle Floater, Wood Turtle) No
HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed
in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?
☐Yes (Specify) X No
If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological
resources?
☐Yes (Specify) ☐No
AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical
Environmental Concern?
☐Yes (Specify) X 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

The proposed project includes replacement of the existing Muddy Pond Road Bridge over Stillwater River, existing roadway reconstruction, drainage improvements, and relocation/improvement of an existing U.S. Geological Survey (USGS) flow monitoring station currently mounted on the Muddy Pond Road bridge. The bridge replacement is proposed to improve safety and meet current Massachusetts Highway Department bridge standards. The bridge and roadway will retain their existing size and alignment, and the roadway drainage improvements will reduce the volume of untreated stormwater discharges to Stillwater River and wetland resources. See Figure 1 for project locus map.

attach one additional page, if necessary.)

Relocation of the existing USGS flow monitoring station is required before the bridge can be replaced. This monitoring station provides real-time data on Stillwater River depth, streamflow, water temperature, specific conductance, and precipitation (see website, http://waterdata.usgs.gov/ma/nwis/uv/?site_no=01095220). The flow data are used as part of routine operations of the Wachusett Reservoir, including flood control and Massachusetts Water Resources Authority planning for water treatment operations, with a continuous data record starting in 1994. Flow measurements at the existing monitoring station are periodically subject to backwater effects from aquatic vegetation and beaver dams, resulting in inaccurate flow measurements with errors of 50 percent or more.

Proposed improvements to the flow monitoring station include installing a stone riffle approximately 20 feet downstream (south) of the Muddy Pond Road Bridge, which would establish a set elevation for stream depth, not influenced by aquatic vegetation or beaver dams. The riffle would be installed in Stillwater River using double-washed stone, individually hoisted and placed, to a maximum height of 30 inches above the streambed. No dredging or alteration of the existing streambed elevation is proposed, and the banks will be restored and stabilized after riffle installation. The riffle installation will be completed in two stages, to allow continuous river flow, with the work area contained within an impermeable polyethylene turbidity curtain. The entire installation is expected to take no longer than 4 days to complete. All in-stream work will be performed during low-flow conditions, when no rain is forecast for 5 days. See Figure 2 for proposed construction plan.

Since in-stream measurement is necessary for routine, accurate flow monitoring, off-site alternatives are not acceptable. Other on-site alternatives include constructing a control dam of a similar size as the stone riffle. However, the greater area of land and vegetation impacts, longer construction period, and increased costs required by the control dam alternative do not provide any additional benefit for flow monitoring. Routine clearing of aquatic vegetation and removal of beaver dams are not practicable for the level of accuracy and reliability improvements required for managing the public drinking water supply.

