



**Environmental
Notification Form**

For Office Use Only
Executive Office of Environmental Affairs
EOEA No.: 12989
MEPA Analyst: Deirdre Buckley
Phone: 617-626-1044

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: Pepperell Wastewater Treatment Plant Upgrade and Expansion			
Street: 47 Nashua Road			
Municipality: Pepperell		Watershed: Nashua	
Universal Transverse Mercator Coordinates:		Latitude: 42° 40 min. 27 sec.	
		Longitude: -71° 33 min. 50 sec.	
Estimated commencement date: July 2003		Estimated completion date: September 2004	
Approximate cost: \$4,000,000		Status of project design: 50 %complete	
Proponent: Town of Pepperell			
Street: 1 Main Street			
Municipality: Pepperell		State: MA	Zip Code: 01468
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Virginia Leal			
Firm/Agency: S E A Consultants Inc.		Street: 485 Massachusetts Avenue	
Municipality: Cambridge		State: MA	Zip Code: 02139
Phone: 617-498-4626	Fax: 617-498-4775	E-mail: virginia.leal@seacon.com	

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No
- Has this project been filed with MEPA before?
 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 11.05(7)) requesting:
- a Single EIR? (see 301 CMR 11.06(8)) Yes No
 - a Special Review Procedure? (see 301 CMR 11.09) Yes No
 - a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No
 - a Phase I Waiver? (see 301 CMR 11.11) Yes 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): DEP SRF \$5 million (requested)

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify _____) No

List Local or Federal Permits and Approvals: Order of Conditions, NPDES Surface Water Discharge Permit

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|--|--|--|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input checked="" type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input checked="" type="checkbox"/> ACEC | <input type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals <input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input type="checkbox"/> Other Permits (including Legislative Approvals) - Specify:
LAND				
Total site acreage	6.83			
New acres of land altered		0		
Acres of impervious area	2.79	.09	2.88	
Square feet of new bordering vegetated wetlands alteration		0		
Square feet of new other wetland alteration		0		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	14,886	462	15,348	
Number of housing units	0	0	0	
Maximum height (in feet)	22	0	22	
TRANSPORTATION				
Vehicle trips per day	15	0	15	
Parking spaces	20	0	20	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	1,000	200	1,200	
GPD water withdrawal	0	0	0	
GPD wastewater generation/ treatment	705,000	395,000	1,100,000	
Length of water/sewer mains (in miles)	0	0	0	

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, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

- Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

- Yes (Specify Estimated Habitat of Rare Wildlife – WH 29) 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 _____) 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 Petapawag 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 Town of Pepperell proposes to upgrade and expand various elements of the Town's wastewater treatment plant, located at 47 Nashua Road, Pepperell, Massachusetts. Proposed tank modifications include converting an aerated sludge storage tank to an aeration basin and expanding it by approximately 2,230 square feet, converting two existing secondary clarifiers to sludge storage tanks, constructing two 50 foot diameter secondary clarifier tanks and converting a chlorine contact tank to an ultraviolet (UV) filtration tank. Other proposed modifications include expanding the laboratory building by enclosing the 462 square foot area within an existing overhang and the adjacent paved area in order to upgrade the influent pumping and headworks facilities, adding chemical dosing equipment, adding a gravity belt thickener, upgrading the instrumentation/control (SCADA) system, and altering piping and ancillary structures and equipment in support of these modifications. The treatment capacity of the plant will increase from 705,000 gallons per day (gpd) by 395,000 gpd to 1,100,000 gpd.

The project site is located east of Lomar Park off Nashua Road, west of the Nashua River. The site extends approximately 55 feet into the 200 riverfront area as defined in the Wetlands Protection Act regulations at 310 CMR 10.00. The riverfront area boundary coincides with that of the Petapawag Area of Critical Environmental Concern (ACEC). Estimated Habitat of Rare Wildlife area WH 29 also straddles the Nashua River and may include a portion of the wastewater treatment plant site.

Conversion of a sludge storage tank to an aeration basin and of a chlorine contact tank to an ultraviolet disinfection tank will occur within the existing fenced plant site in the riverfront area/ACEC. All other work will be outside of the riverfront/ACEC limit. There are no wetlands within 100 feet of the site, and the project is not within the 100-year flood plain.

The expansion is required to maintain compliance with the facility's NPDES permit and to accommodate flows from neighborhoods that have been added to the sewer district as called for in the *Town of Pepperell Comprehensive Plan* of 1998. Certain of these neighborhoods include numerous septic systems that pre-date Title 5 regulations and threaten the Nissitissit River, an Outstanding Resource Water. Other neighborhoods will be sewered due to their location within the Town's Water Resource Protection Overlay District. This ENF relates to the treatment plant upgrade and expansion only.

The project will provide a net environmental benefit by improving plant operations and capacity, thereby reducing the potential for noncompliant discharges to the Nashua River and minimizing the threat of contamination of the Nissitissit River and groundwater by outdated Title 5 systems. Conversion to UV disinfection will eliminate both the use of chlorine at the plant and the need for dechlorination of the effluent.