

ENF Environmental Notification Form

For Office Use Only
 Executive Office of Environmental Affairs

EOEA No.: 13481
 MEPA Analyst: Bill Gage
 Phone: 617-626-1025

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: Greene Street Well Site		
Street: Off Greene Street		
Municipality: Hopedale, MA	Watershed: Blackstone	
Universal Transverse Mercator Coordinates:	Latitude: N 42° 7' Longitude: W 71° 32'	
Estimated commencement date: Fall 2005	Estimated completion date: Spring 2007	
Approximate cost: \$2,500,000	Status of project design: 0 %complete	
Proponent: Mr. Timothy Watson, Hopedale Water Department		
Street: P.O. Box 7 78 Hopedale Street		
Municipality: Hopedale	State: MA	Zip Code: 01747
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Donald J. Tata, P.E.		
Firm/Agency: Tata & Howard, Inc.	Street: 125 Turnpike Road	
Municipality: Westborough	State: MA	Zip Code: 01581
Phone: 508-366-5760	Fax: 508-366-5785	E-mail: info@tataandhoward.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): Not Applicable

Are you requesting coordinated review with any other federal, state, regional, or local agency? Yes (Specify Massachusetts DEP Water Management Act Permit) No

List Local or Federal Permits and Approvals: Water Management Act Permit and New Source Approval

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

- Land
- Water
- Energy
- ACEC

- Rare Species
- Wastewater
- Air
- Regulations

- Wetlands, Waterways, & Tidelands
- Transportation
- Solid & Hazardous Waste
- Historical & Archaeological Resources

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input 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 checked="" type="checkbox"/> Water Management Act Permit <input checked="" type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input type="checkbox"/> Other Permits (including Legislative Approvals) – Specify:
Total site acreage	30.52			
New acres of land altered		0.18		
Acres of impervious area	0.53	0.11	0.64	
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	600	5,000	5,600	
Number of housing units	0	0	0	
Maximum height (in feet)	12	0	12	
TRANSPORTATION				
Vehicle trips per day	1-2	0-2	1-4	
Parking spaces	2-4	0	2-4	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	250,000	230,000	480,000	
GPD wastewater generation/treatment	0	0	0	
Length of water/sewer mains (in miles)	0.16	0.12	0.28	

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 _____) 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 _____) 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.)

Project Description

General

The Town of Hopedale has a water supply deficit. The Town's average day and maximum day demands are approximately 0.46 and 0.60 million gallons per day (mgd), respectively. The combined yield from the Mill Street Wellfield and the Greene Street Wells is 0.425 mgd. During high demand periods such as during the summer months, the Town must supplement their supplies with water purchased from the Milford Water Company (MWC). According to the recommended standard for water wrpls (Ten State Standards), a water system should be able to meet its maximum day demand with all its sources combined, or its average day demand with its largest source off-line. The Town's water supplies can not meet either of these standards.

Project Description

The Town of Hopedale proposes to add Bedrock Wells No. 2 and 3 as two new additional withdrawal points for their existing Greene Street supply site, through the new source approval process and the Water Management Act permit. Currently the Greene Street wellfield has a DEP registered withdrawal volum of 250,000 gallons per day (gpd). The estimated approvable yield for Bedrock Wells 2 and 3 is approximately 230,000 gpd. Through the new source approval process, the Town of Hopedale intendsto combine the yield from the existing surficial wells and bedrock wells for a total approvable yield of 440,000 gpd. However, it should be noted that at the present time, it is not the intent of the Town to increase their overall permitted withdrawal volume. The two new bedrock wells will assist in better management of this potable supply source and will supplement the existing Mill Street wellfield.

Water quality testing of the new wells meets all applicable federal and state requirements, with the exception of iron and manganese. Treatment of these parameters will be required as part of the development of this site. Initial Microscopic Particulate Analysis (MPA) testing conducted during the pump tests suggests that these wells have a moderate risk associated with groundwater under the influence of surface water. Additional MPA testing is proposed for these wells in the spring and fall of 2005. If a moderate or higher rating is observed for these wells, additional treatment will be required to

meet federal and state requirements.

Construction associated with the development of the wells includes the installation of water mains from the wells to the existing water main located near the Greene Street pump station; electrical and instrumentation conduits from the proposed water treatment facility (WTF) to the wells; and construction of an 5,000 sq. ft. WTF and associated water mains. Please refer to the site plan for the approximate locations of the water mains and water treatment facility. Ultrafiltration or modified greensand is recommended for treatment of the elevated iron and manganese and potentially groundwater under the influence of surface water. A facility capable of treating 0.42 mgd is proposed to initially address the Greene Street wells, and final facility build-out is proposed to treat 0.84 mgd to handle a future combined flow from the Mill Street wellfield (presently approved for 0.40 mgd).

A portion of the construction of the proposed water mains will be within 100 to 200 feet of the Mill River along existing access pathways. Approximately 3,200 square feet of soil and grass vegetation would be temporarily disturbed during the construction of the water mains and conduits. The proposed WTF will be in an area that the Town has formerly cleared and currently uses for outside storage. Approximately 5,000 square feet of this area will be permanently altered for the construction of the WTF. All of the proposed work is outside the limits of the wetlands and associated 100 foot buffer zone and 200 foot Riverfront buffer zone. However, mitigating measures will be employed to limit potential impacts to downgradient wetlands and the river during construction.

Alternatives

Two alternatives were considered relative to meeting existing and projected water demands:

1. No Action – The Town has worked to reduce their water demands, however growth in the service population has caused the Town's water demands to exceed their supply source's safe yield. Therefore the no action alternative is not a feasible option.
2. Continued purchase of water from the Milford Water Company (MWC) – The Town purchases water from the MWC during high demand periods. In the future MWC may not have adequate supply to meet their water needs. The MWC is located in the Charles River Basin, and additional water requirements would require an interbasin transfer. The continued purchased of water from the MWC is not a feasible option.
3. Development of one or more groundwater supplies to supplement existing sources – The Town has completed several extensive unsuccessful test well investigations to identify an additional supply source. The development of the Greene Street bedrock wells is the most viable and practicable alternative.

Mitigating Measures

The proposed mitigating measures within the buffer zone area and Riverfront area will consist of installation haybales and siltation fence. The haybales and siltation fence will be installed along the perimeter of the wetlands and the Mill River during the installation of the water mains and WTF to prevent potential run-off from entering these areas; these will be maintained for the duration of the project.