

Commonwealth of Massachusetts

Executive Office of Environmental
Affairs ■ MEPA Office

ENF

**Environmental
Notification Form**

<i>For Office Use Only</i>	
<i>Executive Office of Environmental Affairs</i>	
EOEA No.:	13922
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: Rosenfeld Well Site		
Street: Quaker Highway		
Municipality: Uxbridge	Watershed: Blackstone	
Universal Traverse Mercator Coordinates: UTM Zone 19 283666E 4658620N	Latitude: N 42° 02' 53.73" Longitude: W 71° 36' 59.52"	
Estimated commencement date: Spring 2008	Estimated completion date: Fall 2008	
Approximate cost: \$1.42 M	Status of project design: 0 %complete	
Proponent: Uxbridge Department of Public Works		
Street: 147 Hecla Street		
Municipality: Uxbridge	State: MA	Zip Code: 01569
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 301CMR 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):

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

List Local or Federal Permits and Approvals: Water Management Act Permit BRPWM02, New Source Approval BRPWS19, Notice of Intent, Planning Board Review, DEP Review Mass Highway Department – Permit to Access State Highway

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 checked="" type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input 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
LAND				<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 checked="" 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 checked="" type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>
Total site acreage	11.6			
New acres of land altered		0.83		
Acres of impervious area	0	0.83	0.83	
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	0	500	500	
Number of housing units	0	0	0	
Maximum height (in feet)	0	20	20	
TRANSPORTATION				
Vehicle trips per day	0	2	2	
Parking spaces	0	1	1	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	1.24	0	1.24	
GPD wastewater generation/ treatment	0	0	0	
Length of water/sewer mains (in miles)	0	0.32	0.32	

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 See attached correspondence Attachment 5 and 6

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 See attached correspondence (Attachment 7)

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

Objective

In an effort to address future growth needs the Town of Uxbridge, Massachusetts has undertaken a multi-phased water distribution system improvements project. As part of its first priority improvements, the Town is seeking the development of a new water supply source (Rosenfeld Well) through the New Source Approval and Water Management Act Permit (WMA) processes. It is not the intent of the Town to increase their permitted withdrawal volume. The Town is proposing to amend their existing WMA permit to include this new source as an additional withdrawal point. The inclusion of the Rosenfeld Well as an additional withdrawal point will allow the Town to better manage their sources, resulting in increased recharge periods to the aquifer at the well sites and reducing potential impacts associated with drawdown from pumping. In addition, this well will provide added protection during water supply emergencies.

Project Site Description

The Rosenfeld Well site is located on land owned by the Town of Uxbridge. The well site is currently undeveloped and has no impervious land area. It consists of an abandoned gravel pit surrounded by vegetated land consisting largely of scrub brush and deciduous forest. The well site is located outside the 100-year and 500-year floodplains of the Blackstone River (FEMA Flood Insurance Rate Map, Uxbridge, Massachusetts, June 1, 1983).

Description of Proposed Project

Construction of the proposed new source well will require approval and construction of the following:

- A well pump/treatment facility building of approximately 500 square feet.
- Approximately 1,700 linear feet of 16-inch diameter transmission main from the well site to Quaker Highway as depicted on the Site Plan (Drawing No. 2).
- A paved access road from the pump station to Quaker Highway approximately 20 feet wide and

- 1700 feet in length.
- A paved truck turn-around area of approximately 1,500 square feet.

Alternatives

1. Alternate Location – Based on past test well exploration, the Rosenfeld site is the best location for a new well. Several observation wells were observed during the extended pumping test for the Rosenfeld Well and based upon the results of this pumping test, site investigation, and Zone I land use requirements, the current well location is the most cost effective and feasible site for a new source well.
2. Leak Detection - The Town's current unaccounted-for water is approximately five percent, which is below the DEP recommended percentage of 10 to 15 percent. The Town recognizes the advantage to its leak detection efforts, however the amount of water saved and available for use in the system will not alone eliminate the need for an additional water supply.
3. Water Conservation and Demand Management - The Town of Uxbridge currently exercises conservation and demand management methods to reduce water demands. While conservation and demand management increases public awareness and helps reduce maximum day demands, it does not mitigate the need for a new water supply source. Future demands from development may exceed current Department of Conservation and Recreation (DCR) projections. In addition, an emergency at one of the well sites could render the entire site unusable and the existing source may not be able to meet public demands.
4. Maximization of Existing Supplies – Although the Town recognizes that it is advantageous to pursue maximizing the existing supply sources, the need for an additional supply source would not be eliminated. The development of the Rosenfeld site will allow the Town to better manage their supplies. The ability to pump the current DEP approved average daily withdrawal volume from three sites rather than two will reduce pumping volumes and the amount of time the wells are pumped, thereby reducing impacts to the groundwater system typically associated with pumping. A third water supply source will also assist the Town in meeting demands during a water supply emergency. In addition, the potential for residential and commercial growth is high for Uxbridge, due to the new Route 146/Mass Turnpike interconnection. If water demand patterns exceed current DCR projects, then an additional source may be needed to meet these demands.
5. No Action Alternative - A no action alternative is not a viable option for the reasons previously presented. Too often communities wait until a water supply emergency exists before starting the new source development process and some sites are rendered unusable due to encroaching development. If the Town of Uxbridge waited to explore and develop the Rosenfeld site, it is possible that this site may have been lost to residential or commercial development. The development of this site as a new source will result in preserving it as open space (less pump station and access roads).

Mitigation Measures

No negative impacts to sensitive receptors are anticipated due to the development and construction of the Rosenfeld Well. The Extend Pump Test Report is included in Section H of the Water Management Act Permit. Best Management Practices (BMPs) will be employed according to the MassDEP's Stormwater Management Policy during construction activities in order to minimize temporary stormwater runoff and soil erosion impacts. Currently all construction is proposed over 200 feet from the wetlands and river bodies. However, proposed mitigating measures consist of haybales, sediment filter fence and a velocity dissipater. Haybales and siltation fence will provide a barrier between the construction area and the river/wetland system. Sedimentation basins will be used for dewatering, if needed. Any additional BMPs will be employed as necessary.