

EOEA No.: 12777
 MEPA Analyst: Arthur Pugsley
 Phone: 617-626-1028

ENF Environmental Notification Form

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: Gravel-packed Replacement Wells for Well No.1 Danvers, Massachusetts		
Street: Route 114: 200 feet northwest of where the Ipswich River flows underneath Route 114		
Municipality: Danvers	Watershed: Ipswich River Basin	
Universal Transverse Mercator Coordinates: 336300 / 4715250	Latitude: 42.57473	Longitude: -70.99387
Estimated commencement date: Sept. 2003	Estimated completion date: June 2003	
Approximate cost: \$ 1,000,000	Status of project design: 20%complete	
Proponent: Don Dehart - Danvers Department of Public Works		
Street: 1 Burroughs Street		
Municipality: Danvers	State: MA	Zip Code: 01923
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Maura Callahan		
Firm/Agency: Earth Tech	Street: 196 Baker Avenue	
Municipality: Concord	State: MA	Zip Code: 01742
Phone: 978-371-4008	Fax: 978-371-2468	Email: Mcallahan@earthtech.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes
- 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?
 Yes (Specify: DEP New Source Approval) No

List Local or Federal Permits and Approvals: BRP WS 18: Approval to Conduct Pumping Test
BRP WS 19: Approval of Pumping Test Report
BRP WS 20: Approval to Construct

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 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 <i>(including Legislative Approvals) – Specify:</i>
Total site acreage	0.10			
New acres of land altered		0		
Acres of impervious area	0.05	0.016	0.06	
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	2,000	500	2,500	
Number of housing units	0	0	0	
Maximum height (in feet)	10	10	10	
TRANSPORTATION				
Vehicle trips per day	2	0	2	
Parking spaces	0	0	0	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	288,000	684,000	972,000	
GPD wastewater generation/ treatment	0	0	0	
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 _____) No (Natural Heritage Atlas 2000-2001

Edition)

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.*)

In an effort to restore Danvers Water Supply Well No. 1, the Town installed two gravel-packed replacement wells and designed a treatment facility. The facility is located on town-owned land in eastern Middleton, just north of the intersection of Route 114 and the Ipswich River, as shown on the Locus Map (Figure 1-1, Appendix A). The Ipswich River meanders northerly in its valley, and flows within 200 feet of Well No. 1. The Ipswich River represents the town boundary between Middleton and Danvers. Well No. 1 is about 80 feet from the Route 114 (South Main Street) on artificial fill created when the pumping station was built in 1960. The fill area is surrounded on three sides by a wetland bordering the Ipswich River. Locally, the land surface ranges from 42 to 52 feet above sea level.

Asked to evaluate the potential environmental impacts on the Ipswich River, a 31-day pumping test was completed. The pumping test indicates that the replacement wells can yield a combined 675 gallons per minute (gpm). The results also indicate that the pumping did not have an observable impact on the water levels and therefore the flow within the Ipswich River. A discussion of the pumping impacts on the Ipswich River is presented in Section 6-5 of the New Source Final Report.

The Town is currently exploring for additional groundwater and bedrock supply sources. However, no immediate alternatives for a groundwater supply are available due to existing regulatory and practical constraints. Existing Well No. 1 originally had a capacity of about 600 gpm. However, the yield of the well declined precipitously in the early years after installation, evidently due to clogging of the well screen. Despite numerous well cleanings

from the 1960s through the 1990s, Well No.1 never recovered its original yield, and it currently produces less than 200 gpm. Contamination was also detected at the well. Construction of two replacement wells and the additional of treatment are necessary to restore the source for public drinking water supply.

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