

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.:	<u>13676</u>
MEPA Analyst:	<u>ANNE CANADAY</u>
Phone: 617-626-	<u>1035</u>

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: Pinelli Site TW 1-04 and 13-04		
Street: Off Old Westport Road		
Municipality: Dartmouth	Watershed: Buzzards Bay	
Universal Transverse Mercator Coordinates: 331745,4610976 and 331768, 4610944	Latitude: 41°37'58" / 41°37'57"	Longitude: 71°01'12" / 71°01'11"
Estimated commencement date: Winter 2005	Estimated completion date: Fall 2006	
Approximate cost: \$1.9 million	Status of project design: 50%complete	
Proponent: Dartmouth Water and Sewer Division		
Street: 751 Allen Street		
Municipality: North Dartmouth	State: MA	Zip Code: 02747
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	E-mail: Maura.Callahan@earthtech.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): None

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify **DEP New Source Approval and Water Management**) No

List Local or Federal Permits and Approvals:
New Source Approval (BRP WS 19)

Water Management Act Permit Amendment (BRP WM 02)

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 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	107	0	107	
New acres of land altered	0	0.12	0.12	
Acres of impervious area	0	0.12	0.12	
Square feet of new bordering vegetated wetlands alteration	0	0.12	0.12	
Square feet of new other wetland alteration	0	0	0	
Acres of new non-water-dependent use of tidelands or waterways	0	0	0	
STRUCTURES				
Gross square footage	0	650 sq.ft.	650 sq.ft.	
Number of housing units	0	0	0	
Maximum height (in feet)	0	10	10	
TRANSPORTATION				
Vehicle trips per day	0	1	1	
Parking spaces	0	2	2	
WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	0	864,000	864,000	
GPD wastewater generation/treatment	0	0	0	
Length of water/sewer mains (in miles)	0	0.03	0.03	

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 **The Priority Habitat Atlas identifies the site as WH 4093.**) 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.)

The Dartmouth Water and Sewer Division is proposing to construct two new municipal groundwater supply sources in the Shingle Island sub-basin of the Buzzards Bay River Basin. The permanent production wells will be constructed at the sites of Test Well Nos. 1-04 and 13-04, referred to as the Pinelli Site in Dartmouth, Massachusetts (see Figure 1 in Attachment A). Each well will be capable of producing 300 gallons per minute (gpm). The Town is currently authorized by the State under the Water Management Act to withdraw a total of 3.27 million gallons per day (mgd) on average over a calendar year. The wells are intended to augment the Town's existing supply wells and will not result in an overall increase in water withdrawals.

The Pinelli Site is located on the USGS topographic map of the Fall River East quadrangle at latitude 41° 37' 58" and longitude 71° 1' 12". The Site is located approximately 0.75 mile west of the intersection of Cross Road and Old Westport Road. The land is forested and owned by the Town of Dartmouth for the purposes of water supply. A Locus Map, Surveyed Site Plan and Proposed Plan are included in Attachment A and an Alternative Analysis is included in Attachment B.

One-story pump stations, approximately 10 feet in height, are proposed to house pumping equipment and materials associated with the wells. The larger pump station at TW 1-04 will be 20 by 21 feet. It will include a generator room and controls for both stations. The smaller station at TW 13-04 will be 11.5 by 20 feet. Both wells will tie into an existing raw water main that runs through the site to be delivered to the Town's treatment facility.

An existing dirt road will be reconstructed with bituminous concrete, approximately 700 feet in length, to provide access for Water Department personnel to the well site from Highwood Estates, the condominium development off Route 6. Crushed stone will be placed around the stations and concrete pads of outside components such as the propane tank. Fencing will be provided to control access to the site and to protect equipment from vandalism. The northern access route was selected to minimize impacts to wetlands. Approximately 0.015 acres will be disturbed for the pump stations and approximately 0.1 acres will be reconstructed for the access road for a total of 0.115 acres of a 107 acre property.

The purpose of the proposed wells at the Pinelli Site is four-fold: 1) to reduce stress on the Paskamanset River from pumping of the Town's Violetta and Chase Road Wells 2) to reduce the Town's reliance on purchasing water from New Bedford, 3) to replace lost withdrawal from Well No. 4 (Route 6 Well), and 4) to create flexibility and reliability in the distribution system.

The Town of Dartmouth has a 4,000 gpm inter-municipal connection with New Bedford (PWS 4201000). New Bedford has surface water supplies located in the Taunton River Basin. The chemistry of New Bedford's surface water supplies differs from Dartmouth's groundwater sources which creates water quality problems when the two are mixed. It is the intention of the Town to reduce its reliance on purchased water to reduce costs and improve water quality.

The proposed water supplies at the Pinelli Site would allow the Town to reduce over pumping of the Violetta and Chase Road wells which have WMA permitting conditions that restrict use during low flow conditions in the Paskamanset River. The project is intended to provide more reliability in the water system because low flow conditions coincide with peak demands in Dartmouth.

Gravel packed well No. 4, also known as the Route 6 Well, is located approximately 2,300 feet to the west of the Pinelli Site (see Figure 1). Well No. 4 is the only municipal well located in the Shingle Island River sub-basin. The well is currently inactive due to poor water quality and possible contamination. The proposed project will allow the Town to replace this lost withdrawal.

Priority Habitats

A review of the Priority Habitats Atlas of the Natural Heritage and Endangered Species Program indicate that rare and endangered species have been identified in the area of the proposed site. This area is identified in the Atlas as WH 4093. A Natural Heritage and Endangered Species Program Project Filing was submitted for the project in October 2005 and the NHESP has determined that this project will NOT result in a prohibited "take" of state-listed rare species (letter dated November 8, 2005).

Wetlands

The wetlands on the site were delineated by Prime Engineering of Lakeville, Massachusetts. The test wells are located in the buffer zone of bordering vegetated wetlands; they were placed outside the wetlands to avoid direct impacts. An existing dirt road will be reconstructed with bituminous concrete to provide access to the site. The northern access route was selected to minimize wetland impacts.

The project will not result in the introduction of any pollutants into surface water or groundwater. There are no hazardous particulate or soluble materials used in the installation of the well or water main. To prevent suspended solids from the temporarily exposed site from being transported into the wetland area hay bales and/or silt fencing will be installed along the project perimeter. Hay bales and/or silt fencing will be removed only after these areas are re-vegetated and stabilized.

Potential impacts to water levels in the wetlands from pumping were investigated during the prolonged pumping tests conducted at the proposed wells. Earth Tech installed shallow drive points in the wetlands surrounding TW Sites 1-04 and 13-04 at two locations: DP-2S and DP-2D, 216 feet southwest of TW 13-04, and DP-1S, 192 feet north of TW 13-04. The drive points were installed to a depth of 5 to 7 feet. TW 16-04, was driven two feet from DP-1S to a depth of 32 feet, the base of the pumped aquifer. Please refer to the Site Plan in Attachment A for drivepoint locations and a discussion of wetlands monitoring and a graphical representation of the data are included in Attachment C.

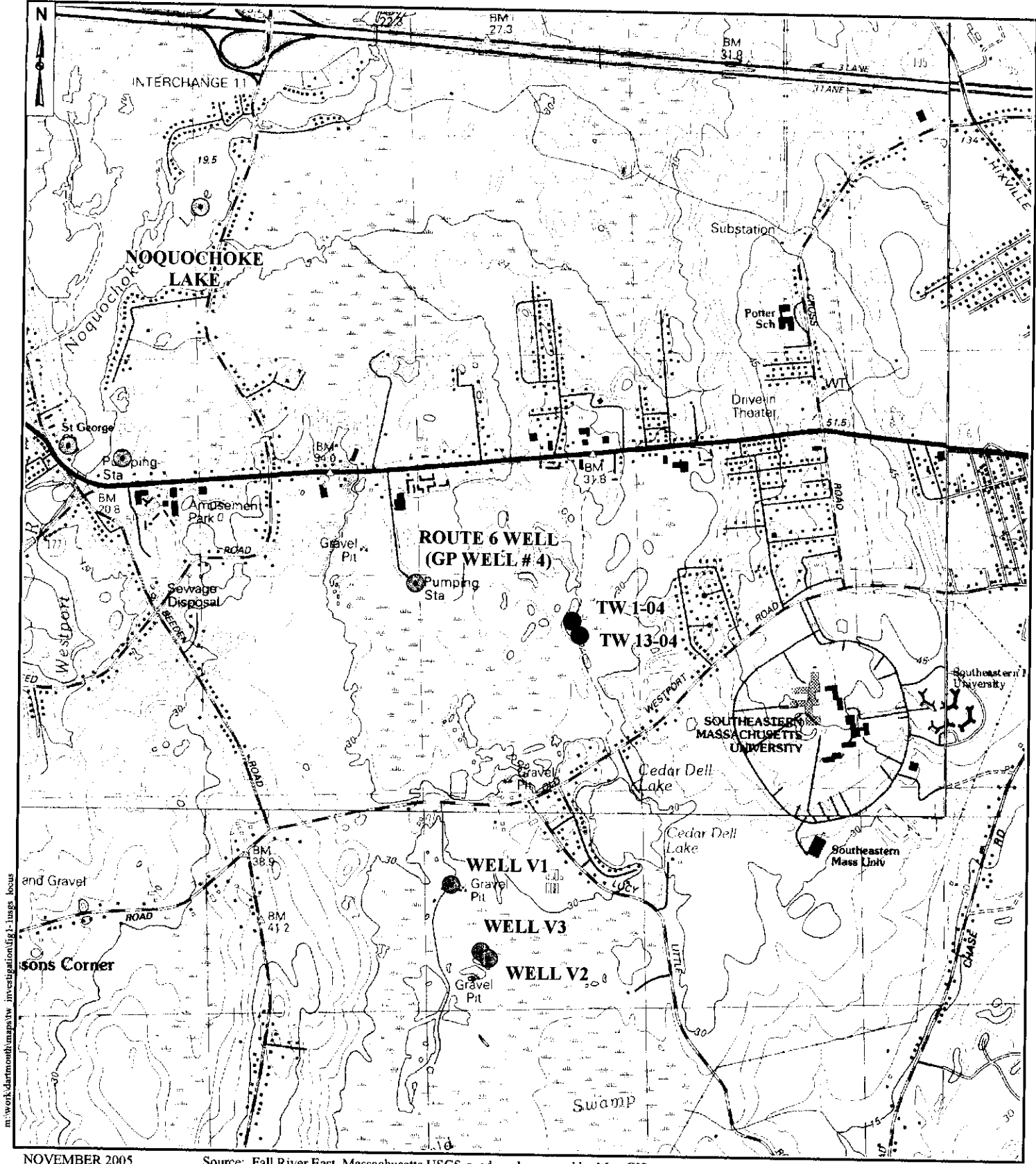


FIGURE 1-1
SITE LOCUS
PINELLI TEST WELL SITE
DARTMOUTH, MASSACHUSETTS