Commonwealth of Massachusetts
Executive Office of Environmental Affairs ■ MEPA Office

ENF Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs
EOEA No.: 14100
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: Municipal Supply Well at Test Well Site 1-86		
Street: Industrial Road		
Municipality: Kingston	Watershed: Southeast Coastal	
Universal Tranverse Mercator Coordinates:	Latitude: 41° 58' 0" Longitude: 70° 42' 44"	
Estimated commencement date: Spring 2008	Estimated completion date: 2009	
Approximate cost: $1.6 million dollars	Status of project design: 50%complete	
Proponent: Kingston Water Department		
Street: 22 Elm Street		
Municipality: Kingston	State: MA	Zip Code: 02364
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Maura Callahan		
Firm/Agency: Watershed Hydrogeologic	Street: 600 Station Road	
Municipality: Amherst	State: MA	Zip Code: 01002
Phone: 978-394-4245	Fax: N/A	E-mail:maura.callahan@comcast.net

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): **Not applicable.**

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

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

☐ Land	☐ Rare Species	☐ Wetlands, Waterways, & Tidelands
☒ Water	☐ Wastewater	☐ Transportation
☐ Energy	☐ Air	☐ Solid & Hazardous Waste
☐ ACEC	☐ Regulations	☐ Historical & Archaeological Resources

Summary of Project Size & Environmental Impacts	Existing	Change	Total
Total site acreage	16	0	16
New acres of land altered	0	0.34	0.34
Acres of impervious area	0	0.34	0.34
Square feet of new bordering vegetated wetlands alteration	0	0	0
Square feet of new other wetland alteration	0	0	0
Acres of new non-water dependent use of tidelands or waterways	0	0	0
Gross square footage (for building)	0	800 sq. ft.	800 sq. ft.
Number of housing units	0	0	0
Maximum height (in feet)	0	10	10
Vehicle trips per day	0	1	1
Parking spaces	0	1	1
Gallons/day (GPD) of water use	0	0	0
GPD water withdrawal	0	1.0 MGD	1.0 MGD
GPD wastewater generation/ treatment	0	0	0
Length of water/sewer mains (in miles)	0	0.2	0.2

State Permits & Approvals

- ☐ Order of Conditions
- ☐ Superseding Order of Conditions
- ☐ Chapter 91 License
- ☐ 401 Water Quality Certification
- ☐ MHD or MDC Access Permit
- ☒ Water Management Act Permit
- ☒ New Source Approval
- ☐ DEP or MWRA Sewer Connection/ Extension Permit
- ☐ Other Permits (*including Legislative Approvals*) – Specify:

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.*)

The Kingston Water Department is proposing to construct a municipal supply well at Test Well Site 1-86. Site 1-86 is a 16 acre parcel purchased in 1987 and protected by the Town explicitly for water supply purposes. The site is located on USGS topographic map of the Plymouth Quadrangle at latitude 41^0 58' 0" and longitude 70^0 42' 44" approximately 2,500 feet southwest of Route 3 in Kingston. Smelt Pond lies over 2,300 feet to the west and Smelt Brook is located almost 2,600 feet to the northwest. A Locus Map and Site Plan are provided in Attachment A.

The purpose of the proposed well is to create flexibility and reliability in Kingston's water distribution system. The new well will provide redundancy in case of emergencies and mechanical breakdowns and is intended to reduce local environmental impacts from prolonged pumping of existing wells. The well will improve fire protection and assist in meeting future demands as well as take the pressure off existing wells that are deteriorating in capacity and water quality due to iron and manganese. An Alternatives Analysis for a well at Site 1-86 is included in Attachment B.

Kingston is currently authorized by the State under the Water Management Act to withdraw a total of 1.56 million gallons per day (mgd) on average over a calendar year. The new well is intended to augment the Town's existing supply wells and will not result in an overall increase in water withdrawals.

In pursuing this new supply, the Kingston Water Department has been careful to consider federal, state and local regulations, and to minimize environmental impacts. Well Site 1-86 was placed outside wetlands to avoid direct impacts and minimize indirect impacts. Access to the site is proposed along an existing roadway. To meet Zone 1 restrictions for TW 1-86, the town acquired land more than 400 feet from abutting properties.

A prolonged pumping test was conducted in January 1987 to evaluate the suitability of Site 1-86 as a new water supply. The pumping test indicated that a permanent gravel-packed well at Site 1-86 could yield over 1 million gallons per day. Water-quality testing indicated that the water met applicable drinking water standards for those parameters tested. A pumping test report and Zone II delineation was prepared by Whitman & Howard (1987) and the well site was approved by the Department of Environmental Protection (DEP) for 700 gallons per minute. The site was protected by the town for future water supply development.

In August 2006, the new source approval process was re-initiated with the submittal of a Request for Site Exam and Prolonged Pumping Test Proposal for TW 1-86 to DEP's Southeast Regional Office. A request for additional information was issued on October 25, 2006 by DEP and responses were provided by the town's engineer, Coler & Colantonio on November 27, 2006.

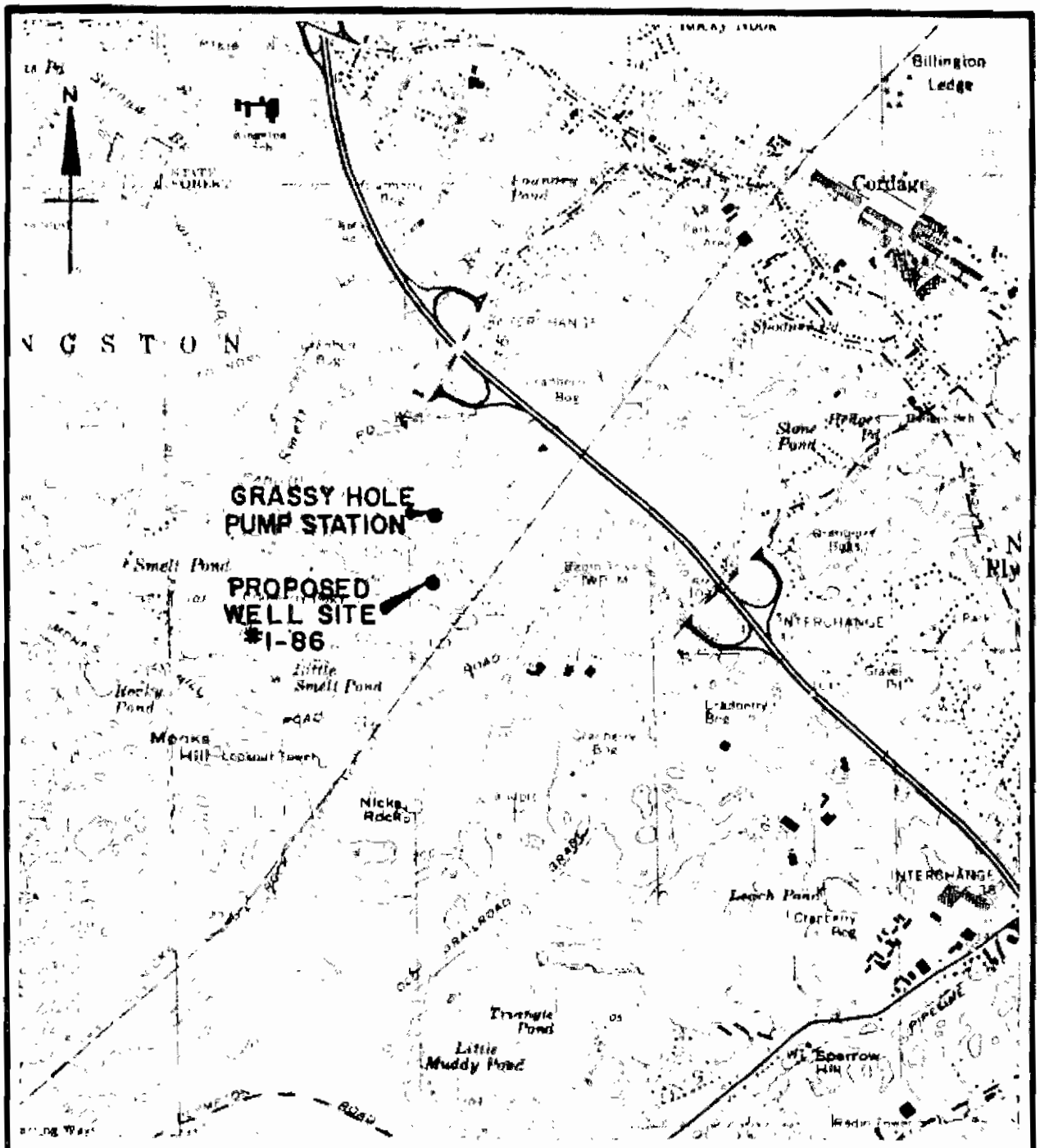
The proposed 1-86 well is within the recharge area of Smelt Brook and the pumping of this well could potentially intercept groundwater flowing to the stream thereby effecting streamflow. The potential impacts will depend on the rate and duration of pumping as well as the existing flow in the brook. The town is working with the proponents of the Kingston Place Project to offset potential impacts to baseflow of Smelt Brook with recharge from stormwater infiltration. (The Town has entered into a Developers Agreement with the project proponent.) A three-dimensional groundwater flow model has been developed to evaluate these impacts. (Preliminary model simulations are discussed in Attachment C). However, it is Kingston's intention to solicit comments from environmental regulators through this submittal to include in the evaluation required for the DEP's New Source Approval process.

A one-story pump station (approximately 20 feet by 40 feet and 10 feet in height) is proposed to house pumping equipment, meters, valves and water-quality monitoring equipment. An emergency generator will be located in the station in case electric service is interrupted. A conventional propane storage tank will be installed outside the building to service this generator.

An existing dirt road, extending from Independence Mall Way to the proposed well site will be paved to provide access. Approximately 0.2 miles of 12-inch water main will be installed below ground to connect the well to the existing corrosion control facility located at Kingston's Grassy Hole Well. Power to the site will be supplied from the overhead electric transmission lines that cross the property (refer to Proposed Site Plan in Attachment A).

The Natural Heritage Endangered Species Program's (NHESP) 2006 Atlas does not identify any Priority Habitats of state-listed rare species or Estimated Habitats of state-listed rare wetland wildlife on the property. No certified vernal pools are identified on the site.

The project will not result in the introduction of any pollutants into surface waters or groundwater. There are no hazardous particulate or soluble materials used in the installation of the well or water main. Refueling of all vehicles (except the drilling rig, which will be stationary, once erected) will take place outside of resource areas and their buffer zones. A Distribution List for this ENF is included in Attachment D.



LOCUS MAP
KINGSTON, MASS.

SCALE 1" = 1000'

Coler & Colantonio, Inc.	Figure 1