

For Office Use Only
Executive Office of Environmental Affairs

EOEA No. 12904
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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: Construction of Klondike Reservoir Pumping Station and Filtration Facility			
Street: 42 Quarry Street			
Municipality: Gloucester	Watershed: Coastal Cape Ann - North		
Universal Transverse Mercator Coordinates:	Latitude: 42°39'		
	Longitude: -70°39'		
Estimated commencement date: Spring 2003		Estimated completion date: May 2004	
Approximate cost: \$2.7 million	Status of project design: 100 %complete		
Proponent: City of Gloucester Department of Public Works			
Street: 22 Poplar Street			
Municipality: Gloucester	State: MA	Zip Code: 01930	
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Virginia Leal			
Firm/Agency: S E A Consultants Inc.	Street: 485 Massachusetts Avenue		
Municipality: Cambridge	State: MA	Zip Code: 02139	
Phone: (617) 497-7800	Fax: (617) 498-4775	E-mail: virginia.leal@seacon.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): An application for DEP Drinking Water SRF funds in the amount of \$2.7 million was submitted October 11, 2002.

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

List Local or Federal Permits and Approvals: building permit

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 type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input checked="" type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit (BRP WM-55) <input checked="" type="checkbox"/> Other Permits (including Legislative Approvals) – Specify: <u>BRP WS-22 Pilot Study Report</u> <u>BRP WS-24 Construct Facility > 1 mgd</u> <u>BRP WM-10 Construction Site Dewatering</u>
Total site acreage	1.75			
New acres of land altered		0.8		
Acres of impervious area	0.78	0	0.78	
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	400	2,800	3,200	
Number of housing units	0	0	0	
Maximum height (in feet)	8 (pump station)	15 (filtratn fac.)	15	
TRANSPORTATION				
Vehicle trips per day	0	0	0	
Parking spaces	0	0	0	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	0	0	
GPD water withdrawal	0	1.2 mgd	1.2 mgd	
GPD wastewater generation/ treatment	0	2,000	2,000	
Length of water/sewer mains (in miles)	~ ¼ mi	Replace	~ ¼ mi	

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 Klondike Reservoir is a DEP-approved drinking water supply for the City of Gloucester and is permitted to provide 0.07 million gallons per day (mgd), up to a maximum of 24 million gallons per year (mgy). Currently, no water is withdrawn from the reservoir because the existing pumping station and associated above ground piping system are in disrepair. The City proposes to construct a new pumping station and filtration facility on the site that will provide up to 1.2 million gallons per day (mgd), will meet the State guidelines for filtration, will operate remotely, and will afford the City the flexibility of multiple operating conditions, flow rates, and finished chemistry. The facility will supplement other sources and will typically be in operation 12 hours per day at 260 gallons per minute during the four summer months. The project does not require an amendment to the City's Water Management Act permit.

Four potential on-site and near site locations for the pumping station and filtration facility, all on City property on Quarry Street, were evaluated. One near-site and one on-site location were not selected as they would have required construction of a longer transmission main and are near a DEP-listed disposal site. One near-site location was rejected due to its small size. The selected location was chosen because it is in a relatively direct line between the intake and the existing water system, is more secure than the two near-site locations, and unlike the rejected on-site location, does not require blasting. The footprint of the facility has been designed to fit into a rectangular depression in the granite that was created during quarrying operations. Much of the site is covered with granite fragments, and ledge outcrops abound. With the exception of a segment of bank at the intake, there will be no work in wetland resource areas; however, work will occur in buffer zone. The project is not within an Area of Critical Environmental Concern, nor within an Estimated Habitat of Rare Wildlife Species or Vernal Pool (*Natural Heritage Atlas*, 2001-2002).

The intake and pump station on the eastern shore of the reservoir will be replaced with a new intake and control shed in the same location. The pumping station and filtration facility will be constructed south of the reservoir, and the above-ground six-inch PVC raw water line will be replaced with a bermed eight-inch ductile iron line. A new two-inch sewer line will convey filtration effluent from the plant. The area of pavement at the site entrance will be enlarged to allow room for a truck turnaround; however, the remainder of the pavement, i.e., that on the access drive to the intake, will be removed and replaced with gravel. The existing fence around the pumping station and intake will be replaced with a fence that that encloses the entire site.

The projected start-up date for the new facility is May 2004.