



Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs
 EOEA No.: 14352
 MEPA Analyst: WILLIAM GAGE
 Phone: 617-626-1025

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: Wastewater Treatment Facility Upgrade		
Street: 124 Pine Street		
Municipality: Leicester Water Supply District	Watershed: French	
Universal Tranverse Mercator Coordinates:	Latitude: 42°14'25.15"N Longitude: 71°55'3.91"W	
Estimated commencement date: 2010	Estimated completion date: 2011	
Approximate cost: \$12.1M	Status of project design: 10% complete	
Proponent: Leicester Water Supply District		
Street: 124 Pine Street		
Municipality: Leicester	State: MA	Zip Code: 01524
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Tara Hourihan		
Firm/Agency: S E A Consultants Inc.	Street: 215 First Street, Suite 320	
Municipality: Cambridge	State: MA	Zip Code: 02142
Phone: (617) 498-4694	Fax: (617) 498-4630	E-mail: tara.hourihan@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 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):

The CWMP was funded through the DEP SRF Program for \$392,900.

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes (Specify: **MA-DEP & Water Resources Commission**) No

List Local or Federal Permits and Approvals:
**NPDES discharge permit, DEP (BRP WP 68 for WWTF modifications),
 Town Building Permit, Dept. of Public Safety Tank Notification Form FP-209**

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 type="checkbox"/> Water | <input checked="" 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 type="checkbox"/> Water Management Act Permit <input 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> DEP – NPDES Permit and BRP WP 68
Total site acreage	2			
New acres of land altered		0.3		
Acres of impervious area	0.73	0.3	1.08	
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	14,000	13,000	27,000	
Number of housing units	0	0	0	
Maximum height (in feet)	20	0	20	
TRANSPORTATION				
Vehicle trips per day	6	0	6	
Parking spaces	5	0	5	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	215,620	0	215,620	
GPD water withdrawal	215,620	0	215,620	
GPD wastewater generation/ treatment	250,000	482,000	732,000	
Length of water/sewer mains (in miles)	91,492	0	91,492	

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? **N/A**

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.) Please see the Draft CWMP/ENF.

The Draft CWMP, which has received preliminary approval from DEP, was developed to assess the long-term wastewater management needs and treatment and disposal options for the Leicester Water Supply District (LWSD). It updates and supplements prior assessments of the LWSD wastewater management system, evaluates how well the system meets the needs of the community, considers alternative solutions, and develops a comprehensive strategic list of recommendations to improve, upgrade and expand the system. A key recommendation of the Plan is to provide higher levels of nutrient removal in order to meet strict phosphorus limits imposed on the discharge by the WWTF's NPDES discharge permit.

The LWSD serves an area of approximately 3.4 square miles within the Town of Leicester. The wastewater collected from the LWSD users flows to the LWSD Wastewater Treatment Facility (WWTF). The WWTF currently has a National Pollutant Discharge Elimination System (NPDES) permitted capacity of 0.350 MGD. Peak flows, strict discharge limits, and equipment age result in the need for improvements at the WWTF. Further, the WWTF is currently treating in excess of 0.25 MGD on an average daily basis, which is within 80% of the plant design capacity (0.279 MGD).

An Infiltration/Inflow (I/I) assessment and removal report is included in the Draft CWMP/ENF. It was concluded that I/I accounts for 42% of the total flow at the treatment facility which represents a system-wide I/I rate of 780 gpd/inch-mile of gravity sewer. Also included is a phosphorus removal study evaluating chemical addition alternatives to reduce effluent phosphorus to meet the 0.2 mg/L discharge limit.

The future conditions and anticipated growth within the District were also assessed to estimate the future wastewater flows. The projected future average daily wastewater flow totals 732,000 gpd. This is inclusive of current flows, flows committed to new developments, flows from undeveloped lots with access to sewer, and an allowance for I/I from future connections. The wastewater needs analysis determined that continued use of on-site sub-surface wastewater disposal is suitable for the currently unsewered areas of the District, and that no sewer extensions are required or recommended.

Wastewater disposal alternatives were identified and screened, which eliminated various options including groundwater discharge, effluent reuse, discharge to the Spencer WWTF and discharge to the Oxford-Rochdale WWTF. The screening did identify two potentially viable alternatives; conveying wastewater to the Upper Blackstone Water Pollution Abatement District (UWPAD) and upgrading the LWSD wastewater treatment facility. Based on cost projections, as well as the fact that the LWSD would lose financial and cost control capabilities upon connecting to the UBWPAD, it was recommended to expand and upgrade the District's existing WWTF using Sequencing Batch Reactors as the biological process.

It is also recommended that the identified collection system deficiencies be repaired and that the LWSD continue to identify and remove I/I sources in its collection system over the long term.