

ENF Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs
 EOEA No.: 1400?
 MEPA Analyst: Holly Johnson
 Phone: 617-626- X 1023

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: Purchase of the Cole Property by the Town of Carver for Municipal Water Supply Development and Conservation		
Street: Pleasant Street, High Street and North Main Street		
Municipality: Carver, MA	Watershed: Taunton River	
Universal Transverse Mercator Coordinates:	Latitude: 41° 56' N Longitude: 70° 48' W	
Estimated commencement date: June 2007	Estimated completion date: Spring 2008	
Approximate cost: \$7 million	Status of project design:	25 %complete
Proponent: Town of Carver		
Street: 108 Main Street		
Municipality: Carver	State: MA	Zip Code: 02330
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Katy M. Konary		
Firm/Agency: Norfolk Ram Group, LLC	Street: One Roberts Road	
Municipality: Plymouth	State: MA	Zip Code: 02360
Phone: (508) 747-7900 ext 137	Fax: (508) 747-3658	E-mail: kkonary@norfolkram.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):

EOEA Self-Help Grant for purchase of Conservation Parcel, approximately 98 acres, \$500,000
DEP Drinking Water Supply Protection Grant for purchase of approximately 123 acres, \$500,000
DEP Grant for Purchase and Water Supply Development at the Cole Property, \$100,000

Are you requesting coordinated review with any other federal, state, regional, or local agency?

Yes (Specify: DEP, Conservation Commission, NHESP, MHD, ACOE) No

List Local or Federal Permits and Approvals:

Local roadway opening permit for installation of water lines within North Main Street, Notice of Intent for construction of waterlines and for improvements to the agricultural access, ACOE approval of stream crossing for agricultural access, Carver Town meeting approval to purchase the Site, Planning Board approval of Form A to divide the Site into two parcels.

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 checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input 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 checked="" type="checkbox"/> 401 Water Quality Certification <input checked="" type="checkbox"/> MHD or MDC Access Permit <input 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	221			
New acres of land altered		5		
Acres of impervious area	0	0.2	0.2	
Square feet of new bordering vegetated wetlands alteration		7,200		
Square feet of new other wetland alteration		Riverfront: 17,700 BLSF: 11,700		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage	100	1,500	1,600	
Number of housing units	0	0	0	
Maximum height (in feet)	10	25	25	
TRANSPORTATION				
Vehicle trips per day	2	10	12	
Parking spaces	0	14	14	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	0	1,000	1,000	
GPD water withdrawal	0	99,900	99,900	
GPD wastewater generation/ treatment	0	4,000 (backwash from water treatment)	4,000 (backwash from water treatment)	
Length of water/sewer mains (in miles)	0	1.5	1.5	

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 Wood Turtle and Box Turtle) No

Almost the entire Project Site lies in the polygon mapped Estimated Habitat (WH #2063) of rare wetland wildlife by the Natural Heritage and Endangered Species Program (NHESP). The Project Site is also mapped by the Natural Heritage and Endangered Species Program as BioMap Core Habitat and as Priority Habitat (PH #1309) by the Massachusetts Audubon Society. NHESP records have documented the occurrence of two MESA-listed rare species on/near the Property (Wood Turtle and Box Turtle). Almost the entire parcel is BioMap Core Habitat for fourteen rare animals, two rare plants, and three exemplary natural communities. One federally endangered species, the Red-Bellied Cooter, occurs in the same polygon as the Property.

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 Cole Property is a 221-acre parcel (127± acres upland) that is bounded to the south by the recently constructed Route 44, to the west by the Winnetuxet River, to the northwest by the Town of Plympton, and to the north and east by residential dwellings with frontage along Pleasant Street. The Cole Property encompasses a total of seven (7) parcels identified on the Town of Carver Assessor's maps as lots 27-3-0, 27-2-N, 28-5-0, 29-1-NW, 29-1-N, 29-1-B2, and 26-14-N and is currently being purchased by the Town of Carver for \$2.88 million from its current owners, Alice B. Cole and Frederick C. Jennings, Trustees of RJC Investment Trust through the town of Carver's Chapter 61A right-of-first-refusal.

The Project site contains extensive wetlands resource areas with the western boundary abutting the Winnetuxet River which flows to the north to Plympton and ultimately into the Taunton River. Almost the entire site has been mapped by the Division of Fisheries and Wildlife, Natural Heritage and Endangered Species Program as an Estimated Habitat of Rare Wildlife (WH 2063) and as a Priority Habitat of Rare Species (PH 1309). Wetlands resource area delineation has been completed by the property owner and submitted to the Town of Carver Conservation Commission for verification (Order of Resource Area Delineation, File # SE126-361 issued on December 16, 2005). Additionally, a Notice of Intent was filed with the Conservation Commission to enable access to the interior upland portions of the site for well installation (Order of Conditions, File # SE126-406 issued on July 26, 2006). Two Notices of Intent have recently been filed for the construction of the proposed water line and for the upgrade of the agricultural access.

The Town of Carver intends to protect the natural character of the land, to preserve open space, to continue limited cranberry farming operations and to utilize the eastern portion of the property for the development of a municipal water supply. The western portion of the site bordering on the Winnetuxet River (the "Conservation Parcel", approximately 98± acres, 46± acres upland) will be preserved as open space with continued agricultural use while the eastern portion (the "Water Supply Protection Parcel", approximately 123± acres, 81± acres upland) will be purchased by the Town for development of a municipal water supply (limited to less than 100,000 gallons per day) that is intended to serve the commercial properties located within North Carver located approximately 1 mile west of the proposed water supply wells. Easements will be provided by, and for, each parcel to promote access across each parcel and to provide for the construction of underground utilities (water supply and electric lines) extending from the proposed water well/treatment site to the west across the Conservation Parcel to Route 58, North Main Street.

The Town of Carver has been awarded grants to facilitate the purchase of this property. The Conservation Parcel is being purchased with the aid of a \$500,000 Self-Help Program Grant awarded on October 24, 2006 by the Executive Office of Environmental Affairs. The eastern Water Supply Parcel is being purchased with the help of a \$500,000 Public Drinking Water Supply Protection Grant awarded on November 3, 2006 by the Massachusetts Department of Environmental Protection (DEP) Drinking Water Supply. An additional \$100,000 DEP grant has also been provided to purchase the property and to facilitate design and permitting efforts.

The terms of both the Self-Help Grant and the Drinking Water Supply Protection Grant restrict the use of the Property to only those uses stipulated by these grants. The western portion of the Property can be used only for conservation, appropriate passive outdoor recreation and underground utilities and is protected open space, in perpetuity. Likewise, the eastern portion of the property can be used only for public drinking water supply well(s), wellhead protection areas, and protected open space.

The proposed project includes the following elements:

- New Source Approval for the development of a municipal water supply (less than 100,000 gallons per day) and construction of approximately 1.5 miles of water main
- Improvement to an existing flooded agricultural access along Cole Mill Lane extending under the recently constructed Route 44
- Improvements to existing agricultural access road extending from Pleasant Street to the existing cranberry bogs

Water Supply Project Description

The Project includes a New Source Approval for the municipal construction of drinking water supply wells, water

treatment facility and water mains to supply 99,900 gallons per day of water to North Carver. Two water supply wells are currently proposed (a primary and back-up supply) each capable of pumping at 69.9 gpm. Installation of Well #1 and a 48-hour pumping test has been completed and recently submitted to the DEP. Installation of the back-up water supply well, to be located in the vicinity of the primary well, is scheduled for early May.

Initial water quality results indicate that the water treatment for pH control, disinfection and for the removal of iron and manganese will be required. The initial phases of the pilot testing process are currently underway and it is anticipated that the treatment process will likely utilize membrane filtration, greensand or oxidation/filtration for the removal of iron and manganese. The treatment equipment will be housed within a precast concrete building (approximately 1,500 s.f.) that will be accessed via a reprocessed gravel drive extending approximately 1,000 feet from the upgraded Pleasant Street agricultural access.

A 12 inch diameter ductile iron water supply line will extend for an overall length of approximately 7,500 feet. Starting at the proposed water treatment facility, the water line will extend westerly approximately 2,500 feet cross-country through the upland portion of the Project site towards the Winnetuxet River. The final water line route will be selected after consultation with a forester to help minimize cutting of mature trees. Water line routing and construction will be supervised by a habitat specialist to help ensure that adverse construction, and post-construction impacts to species and to priority habitat are minimized. After construction is complete, the cross-country waterline route will be revegetated, with a walking trail provided.

The crossing of the Winnetuxet River and associated bordering vegetated wetlands system will be completed using horizontal directional drilling. The horizontal directional drilling will start within the uplands on the western-most limit of the Conservation Parcel and will extend approximately 1,000 feet to the west terminating in an upland area at the rear of Lot 24-4-0 owned by Ms. Leah Nash. An additional 1,200 feet of cross-country water line is proposed to be installed within an easement to be granted to the Town of Carver by Ms. Leah Nash to extend the water line to North Main Street, Route 58. As the Nash property straddles the Town Line, a portion of the waterline on the Nash property may extend within the Town of Plympton.

The final 1,800 feet of water main will be installed within the right-of-way for North Main Street, Route 58, with hydrants installed and water service connections provided to service approximately 8 to 12 individual commercially zoned lots. The water line will be extended to the existing 24 inch diameter sleeve recently installed within North Main Street (Route 58) that extends under the Route 44 overpass. A Notice of Intent for the work within the Town of Carver has been completed by Norfolk RAM Group, LLC.

Cole Mill Lane Agricultural Access Improvement

Mass Highway reconfigured the agricultural access adjacent to the Winnetuxet River extending from Cole Mill Lane to the interior of the Cole Property beneath the recently constructed State Highway Route 44. Although the reconfigured underpass provides approximately 12 feet of vertical clearance, its location and elevation (adjacent to and lower than the River) has resulted in ponded water with depths of 12 to 18 inches that hinder travel.

The Town of Carver intends to submit design plans to MHD for the reconstruction of this access. This redesign will use stone and geotextiles to raise the base of the roadway approximately 12 inches, decreasing the depth of flooding. This reconstruction will reduce the available roadway clearance to 11 vertical feet, still enabling access to the Site by fire equipment but limiting its use by trucks and cranberry harvesting equipment, many of which require a minimum of 12 feet of clearance. This portion of the Project is also detailed within the above noted Notice of Intent completed by Norfolk RAM Group, LLC.

Pleasant Street Agricultural Access Improvement

This portion of the Project includes improvement of an existing agricultural access road from Pleasant Street including a stream crossing to provide access to existing cranberry bogs located on the Conservation Parcel. A portion of this access road will also provide access to the water supply wells and pumping/treatment system currently being designed for installation on the Water Supply Parcel. The agricultural access from Pleasant Street to the existing bogs will be constructed with a 12 foot travel way with 1 foot shoulders on each side extending for a total length of approximately 2,600 linear feet. Construction will include a stream crossing using a precast concrete CON/SPAN Arch Bridge with a 12 foot span and 8 foot rise with 11.2' wing walls installed on each corner. Approximately 7,200 square feet of disturbed wetlands resource areas will be replicated. A Notice of Intent for this portion of the Project has been completed by Angle Tree Consulting and Engineering, Inc.