

*For Office Use Only*  
 Executive Office of Environmental Affairs  
 EOEA No.: 12956  
 MEPA Analyst: Nick Zavolas  
 Phone: 617-626-1030

# 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: <b>Tewksbury-Andover Lateral</b>		
Street: <b>Pipeline crosses Interstate 93 in Andover and East Street, Pinnacle Street, and North Street in Tewksbury</b>		
Municipality: <b>Tewksbury &amp; Andover</b>	Watershed: <b>Shawsheen River</b>	
Universal Transverse Mercator Coordinates: Start: WGS84 4721471N, 314753E Terminus: WGS84 4719860N, 321792E	Start (Tewksbury): Latitude: 42° 37' 24.3" N Longitude: 71° 15' 32.2" N Terminus (Andover): Latitude: 42° 36' 38.1" W Longitude: 71° 10' 21.6" W	
Estimated commencement date: <b>June 2003</b>	Estimated completion date: <b>October 2003</b>	
Approximate cost: <b>\$5 to 8 Million</b>	Status of project design: <b>80% complete</b>	
Proponent: <b>Tennessee Gas Pipeline Company</b>		
Street: <b>Nine Greenway Plaza</b>		
Municipality: <b>Houston</b>	State: <b>TX</b>	Zip Code: <b>77046</b>
Name of Contact Person From Whom Copies of this ENF May Be Obtained: <b>John Zimmer</b>		
Firm/Agency: <b>Coler &amp; Colantonio, Inc.</b>	Street: <b>101 Accord Park Drive</b>	
Municipality: <b>Norwell</b>	State: <b>MA</b>	Zip Code: <b>02061</b>
Phone: <b>(781) 982-5473</b>	Fax: <b>(781) 982-5490</b>	E-mail: <b>jzimmer@col-col.com</b>

- 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): None

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

List Local or Federal Permits and Approvals: **Negative Determination of Applicability—Andover Conservation Commission, ACOE Individual Permit, EPA NPDES—Construction**

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Land   | <input checked="" type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water             | <input type="checkbox"/> Wastewater              | <input type="checkbox"/> Transportation                              |
| <input checked="" 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
<b>LAND</b>				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superceding 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 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>  <u>U.S. ACOE – Individual Permit</u>  <u>U.S. EPA – NPDES Permit</u>
Total site acreage	<b>35</b>			
New acres of land altered		<b>35 Temporary</b>		
Acres of impervious area	<b>0</b>	<b>0</b>	<b>0</b>	
Square feet of new bordering vegetated wetlands alteration		<b>448,234 Temporary</b>		
Square feet of new other wetland alteration		<b>9,495 Temporary</b>		
Acres of new non-water dependent use of tidelands or waterways		<b>0</b>		
<b>STRUCTURES</b>				
Gross square footage	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
Number of housing units	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
Maximum height (in feet)	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
<b>TRANSPORTATION</b>				
Vehicle trips per day	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
Parking spaces	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
<b>WATER/WASTEWATER</b>				
Gallons/day (GPD) of water use	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
GPD water withdrawal	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
GPD wastewater generation/ treatment	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	
Length of water/sewer mains (in miles)	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	

**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 **Project crosses Article 97 land – local and legislative approval required**)  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 **Project crosses Habitat WH 4014, however no impact to the habitat as a result of the project (See attached Figure 2 and Section V, Appendix A)**)

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 **Phase 1 cultural resource survey completed. Report forwarded to MHC for review and comment.**

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.*)

Tennessee Gas Pipeline Company (hereafter Tennessee) is proposing the Tewksbury - Andover Lateral Project to provide a new, non-interruptible source of natural gas for the Wyeth-Genetic facility in the town of Andover, Massachusetts. Tennessee will accomplish this through construction of approximately 5.1 miles of a new 6 or 8-inch diameter high-pressure natural gas pipeline. The proposed pipeline lateral will commence at a point of interconnect with the existing Tennessee-owned Concord Lateral in the town of Tewksbury, Massachusetts and extend east to the Wyeth-Genetic facility. The majority of the project is located in Tewksbury, however, approximately 1,200 linear feet of pipeline is to be installed in the town of Andover. The Andover portion of the proposed pipeline alignment crosses both the Shawsheen River and Interstate Highway 93. Tennessee has incorporated a Horizontal Directional Drill (HDD) construction technique that will be utilized to avoid adverse impacts to the Shawsheen River and its associated wetland resource areas as well as the Interstate Highway 93 corridor. The portion of the pipeline alignment to be installed via conventional construction will have approximately 45 feet of temporary workspace and is located within or immediately adjacent to an existing New England Power Company (NEPCO) utility right-of-way to avoid potential impacts to the environment and abutting landowners. Additional facilities within the project scope include a new meter station on the Wyeth-Genetic facility property in Andover, Massachusetts.

## **ALTERNATIVES ANALYSIS**

### **No Action Alternative**

The No Action alternative would result in the Wyeth Facility continuing to receive natural gas from their current distributor. The supply of natural gas from the current supplier is interruptible and does not provide reliable service to the Wyeth-Genetic facility. Additionally, the current service delivers insufficient capacity to fuel proposed additional power generation turbines. The research conducted at the Wyeth facility requires constant and dependable fuel supply.

If the proposed project is not constructed and the additional supply of natural gas is not established, there may be shortages in times of peak demand that may result in losses of ongoing medical research that is both time and temperature dependent. Use of alternative fuels to supply the energy needs of the facility is not a viable alternative to the use of natural gas based on the current infrastructure at the Wyeth facility.

## **Route Alternatives**

Several route alternatives to the proposed alignment were evaluated as part of the planning and design process for this project. The alternatives were evaluated based on environmental and urban impacts, as well as project-related costs. Impacts to urban areas were evaluated in terms of traffic congestion during construction, maintenance impacts to public transportation and impacts to local businesses and residences.

### **1. Preferred Alignment**

The majority of the proposed project is located within an existing electric transmission corridor. The operation and maintenance of the proposed Tewksbury – Andover Lateral will not require an increase in the width of the existing permanent easement. To construct the pipeline outside of an existing, previously disturbed and maintained right-of-way would result in a significantly greater environmental impact in the form of forest clearing, additional roadway crossings and disturbance to residential and commercial properties. The proposed route represents a minimization of the environmental impacts both during construction as well as operation.

### **2. Railroad Alignment**

The major route alternative that was considered in the planning and design of the proposed project that would site the proposed pipeline adjacent an existing active Boston and Maine Railroad ROW. This alternate route would commence at the Concord Lateral Interconnect at approximately the same point as the proposed route and continue approximately eastwardly to the Wyeth-Genetic facility. Based on the requirements of the railroad, the pipeline would not be able to located within the existing easement and would necessitate the clearing and associated permanent impact associated with the creation of a new corridor to be located adjacent to the railroad right-of-way. This would result in new impacts to previously undisturbed wetlands as well as clearing of upland forest well in excess of the preferred alignment.

### **3. Roadway Alignment**

A second major route alternative examined was the installation of the proposed pipeline within existing roadways. This alternative is not viable due to the proposed pressure of the pipeline that significantly exceeds that of local distribution systems. This would result in a significant maintenance and safety concern due to potential third-party damage. Although the environmental impacts would be significantly reduced, the inability to obtain a permanent easement within the roadways, potential conflicts with existing utilities and the public safety concern eliminates this alternative from further consideration.

### **4. Route Deviation at Pinnacle Road**

Tennessee examined a route deviation to the south of the existing electric transmission corridor through property currently owned by the Tewksbury State Hospital to avoid two perennial stream crossings and associated temporary wetland impacts. However, this route would result in the creation of new permanent easement and a significant amount of permanent clearing of both upland forest and forested wetlands. Tennessee presented this alternative to the Tewksbury Conservation Commission at a public hearing held in November 2002, and the Commission requested that Tennessee align the pipeline within the existing electric transmission corridor to avoid new temporary alterations to the wetlands and perennial streams.

# LETTER OF TRANSMITTAL

**COLER & COLANTONIO, INC.**  
 101 Accord Park Drive.  
 NORWELL, MA 02061-1685  
 (781) 982-5400

Project No. 12-276.09	Date 1/15/03
Attention: Secretary Ellen Roy	
Herzfelder	
RE ENF: Tewksbury—Andover	
Lateral	

TO: MEPA Office  
 251 Causeway Street, Suite 900  
 Boston, MA 02114

**WE ARE SENDING YOU**

the following:

Attached Under separate cover via \_\_\_\_\_

- |  |   |   |   |
|--|---|---|---|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Specifications   | <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order   |
| <input type="checkbox"/> Prints        | <input checked="" type="checkbox"/> Plans | <input type="checkbox"/> Samples        | <input checked="" type="checkbox"/> ENF |

COPIES	DATE	NUMBER	DESCRIPTION
1	1/15/03		Original ENF
1			Copy of ENF
1			First 3 pages of the ENF Form
2			Plan Set

**THESE TRANSACTIONS ARE:**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> For your approval              | <input type="checkbox"/> Approved as submitted            | <input type="checkbox"/> Resubmit with _____ copies for approval |
| <input checked="" type="checkbox"/> For your use        | <input type="checkbox"/> Approved as noted                | <input type="checkbox"/> Submit _____ copies for distribution    |
| <input type="checkbox"/> As per your request            | <input type="checkbox"/> Corrections noted                | <input type="checkbox"/> Return _____ corrected prints           |
| <input type="checkbox"/> for your review and comment(s) | <input type="checkbox"/> _____                            |  |
| <input type="checkbox"/> FOR BIDS DUE _____ 19          | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US |  |

**Remarks:**

Please contact John Zimmer at 781-982-5473 with questions or comments.

Thank you  
 Coler & Colantonio, Inc.

Signature: \_\_\_\_\_

