



Project Overview

Application # 2012- 0056.001
South Jersey Gas
Branwen L. Ellis, Environmental
Specialist

Project Description

Purpose:

- To supply natural gas to the existing Beesley's Point coal-fired electric generation plant (B.L. England) located outside of the Pinelands, in Upper Township

The Application:

- 14.85 miles (78,446 linear feet) of a 24-inch natural gas main within the Pinelands Area

Project Description

The Application:

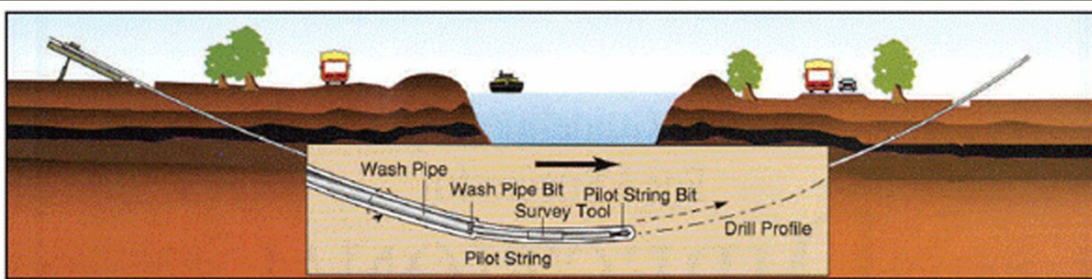
- No compression stations are proposed
- One Interconnect Station
- One Remote Operating Valve Station
- Six potential Pinelands storage staging areas
- The proposed Interconnect Station, Remote Operating Valve Station and temporary storage staging areas would be located on privately-owned property

Project Description

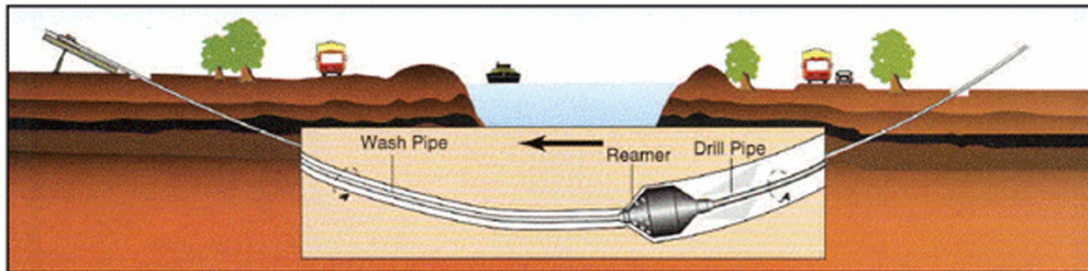
The Application:

- Eight Horizontal Directional Drilling (HDD) staging areas located within existing roads and/or cleared or maintained rights-of-way
- HDD under two ponds, a river and a creek

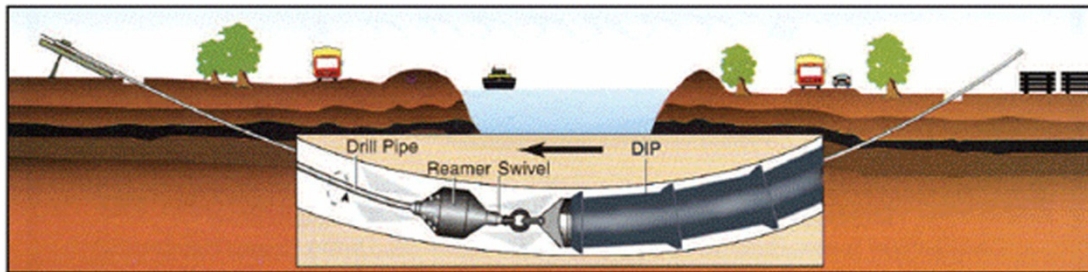
Example of Horizontal Directional Drilling



PILOT HOLE

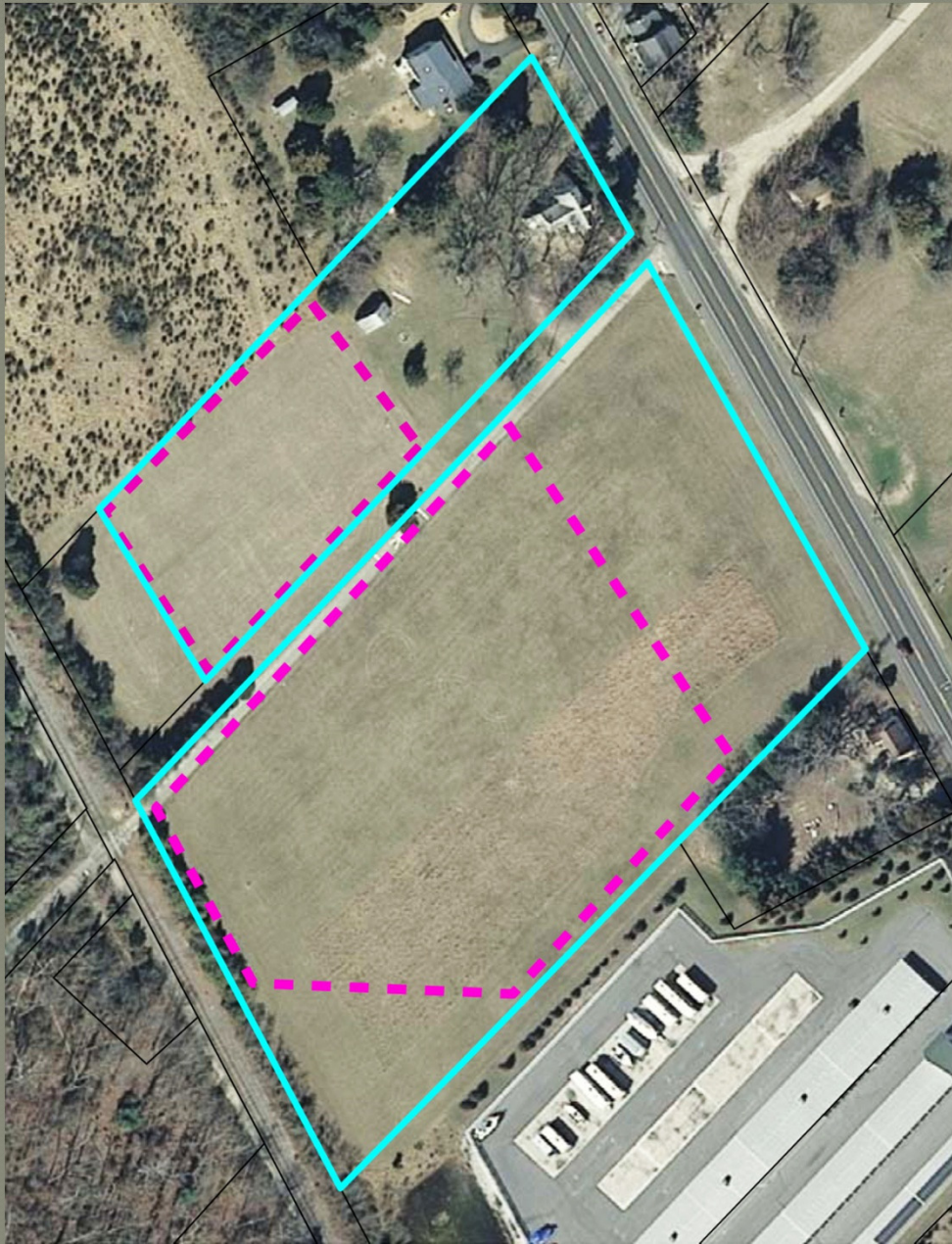


PRE-REAMING



PULL-BACK





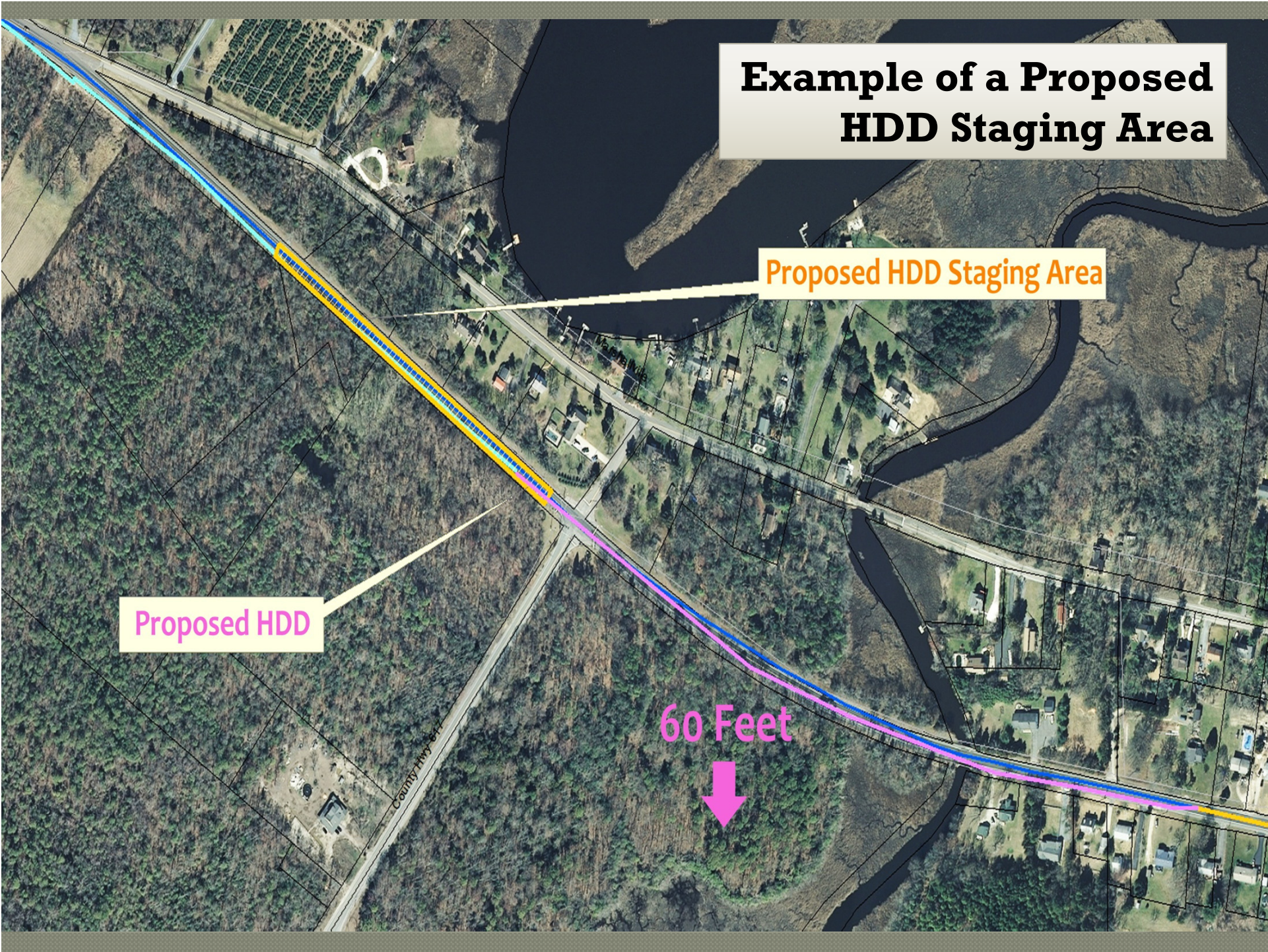
**Example of a
Proposed
Temporary
Construction
Storage/
Staging Area**

Example of a Proposed HDD Staging Area

Proposed HDD Staging Area

Proposed HDD

60 Feet
↓



Project Description

- Installation:
 - Paved Travel Way: 14.7%
 - Paved Shoulder: 19.2%
 - Grass Shoulder: 55%
 - Horizontal Directional Drilling: 11.1%
- Depth: 4', with the exception of HDD

Project Chronology

- Pre-application meeting held on April 14, 2012
- Initial Application Materials received on July 24, 2012
- Incomplete letter sent on August 23, 2012
- Throughout 2012 and 2013:
 - Letters, reports, surveys, maps submitted by applicant
 - Four meetings held
 - Three Incomplete letters sent
- Application complete as of July 29, 2013



Three routes (A, B & C) to the B.L. England Plant were initially considered for the proposed gas main. SJ Gas rejected routes B & C.

Route C

29 miles

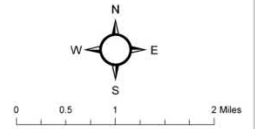
South Jersey Gas Pipeline Route C

Pipeline Route

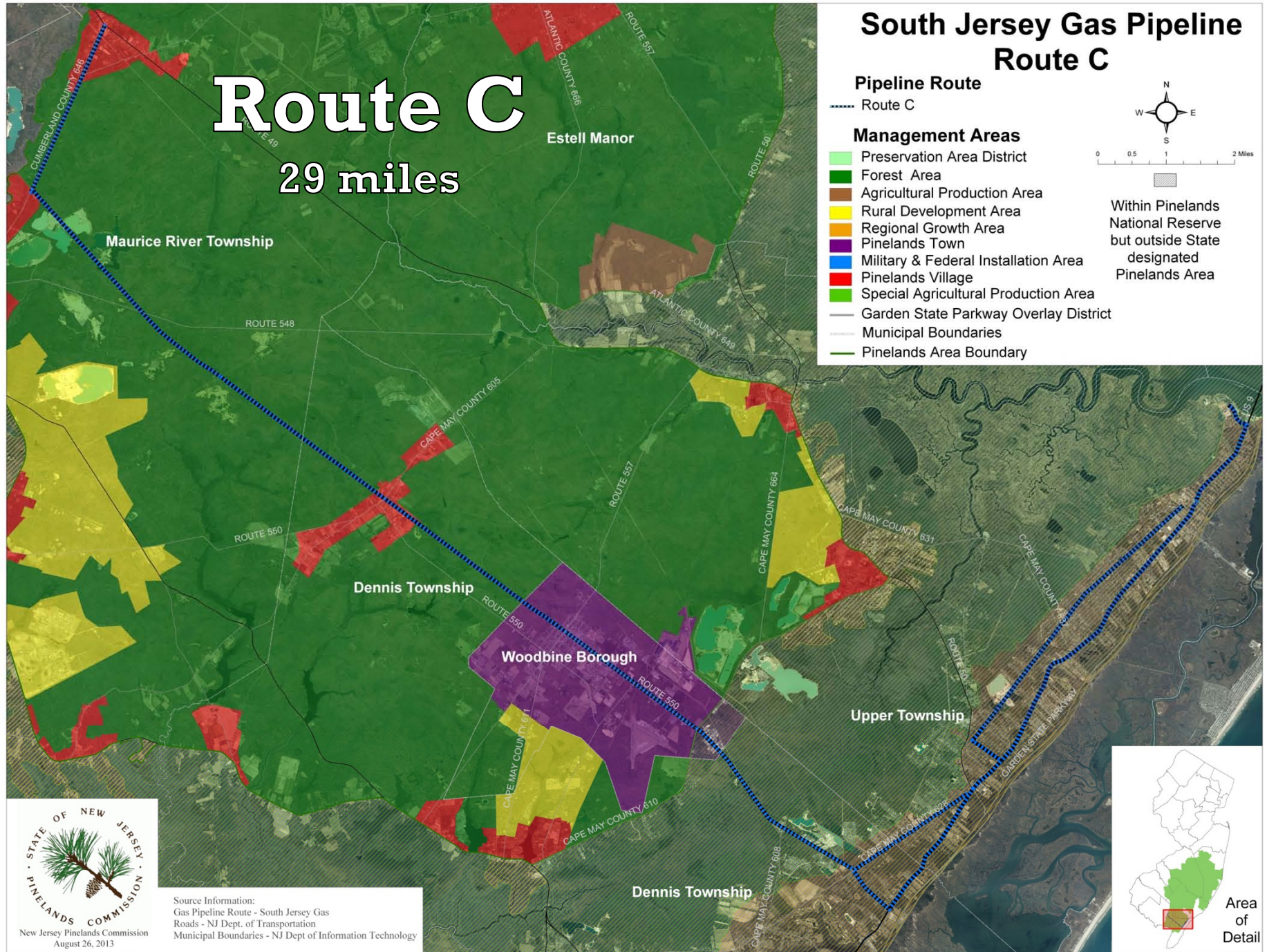
--- Route C

Management Areas

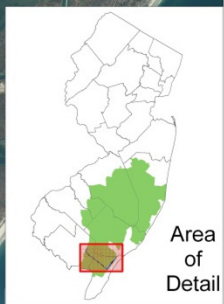
- Preservation Area District
- Forest Area
- Agricultural Production Area
- Rural Development Area
- Regional Growth Area
- Pinelands Town
- Military & Federal Installation Area
- Pinelands Village
- Special Agricultural Production Area
- Garden State Parkway Overlay District
- Municipal Boundaries
- Pinelands Area Boundary



Within Pinelands
National Reserve
but outside State
designated
Pinelands Area



Source Information:
Gas Pipeline Route - South Jersey Gas
Roads - NJ Dept. of Transportation
Municipal Boundaries - NJ Dept of Information Technology



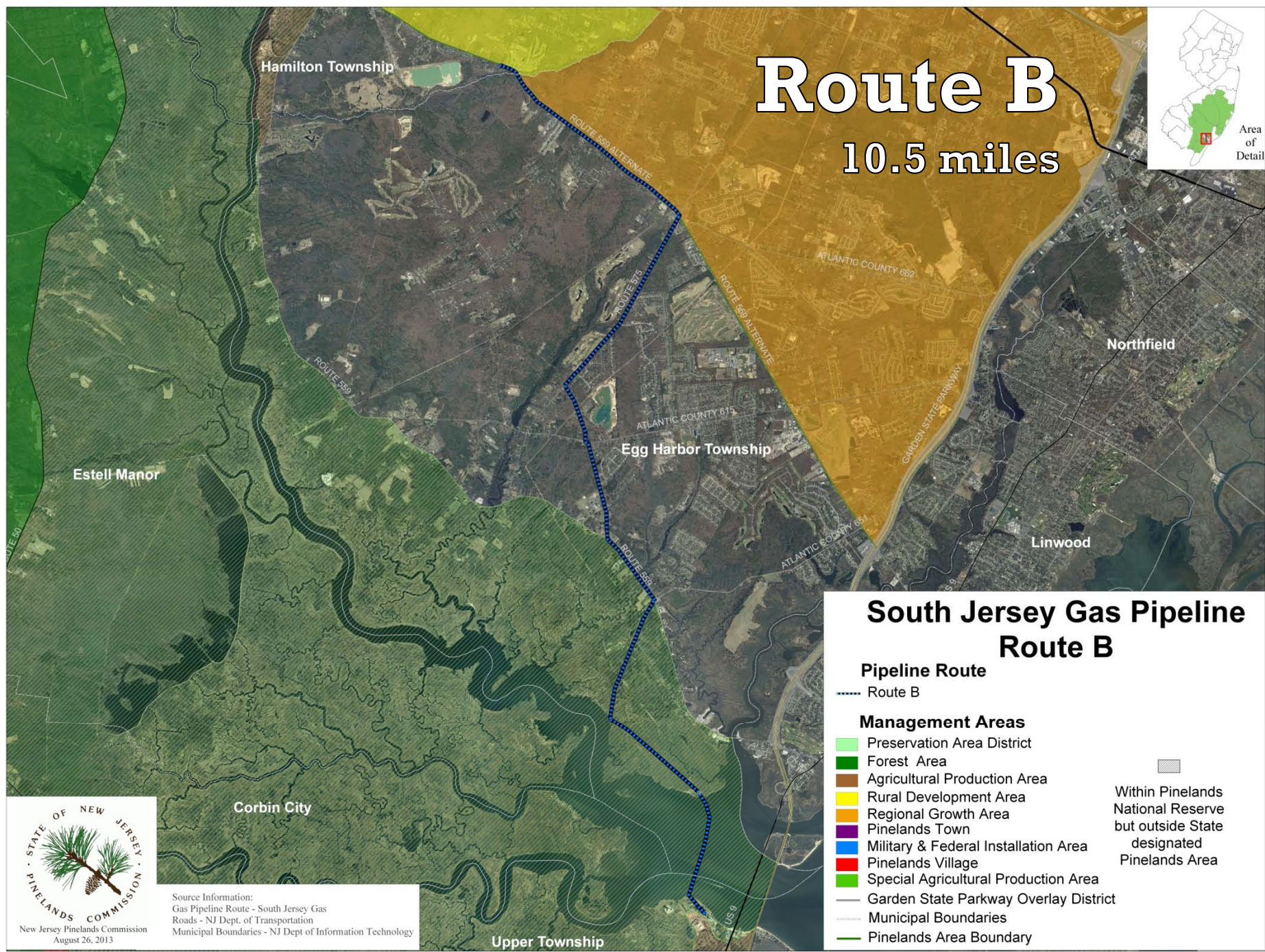
Reason for Rejection by SJ Gas

Route C:

- Environmental concerns: Significant clearing and grubbing of many miles of reforested railroad ROW mapped as threatened or endangered species habitat

Route B

10.5 miles



South Jersey Gas Pipeline Route B

Pipeline Route

--- Route B

Management Areas

- Preservation Area District
 - Forest Area
 - Agricultural Production Area
 - Rural Development Area
 - Regional Growth Area
 - Pinelands Town
 - Military & Federal Installation Area
 - Pinelands Village
 - Special Agricultural Production Area
 - Garden State Parkway Overlay District
 - Municipal Boundaries
 - Pinelands Area Boundary
- Within Pinelands National Reserve but outside State designated Pinelands Area



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Upper Township

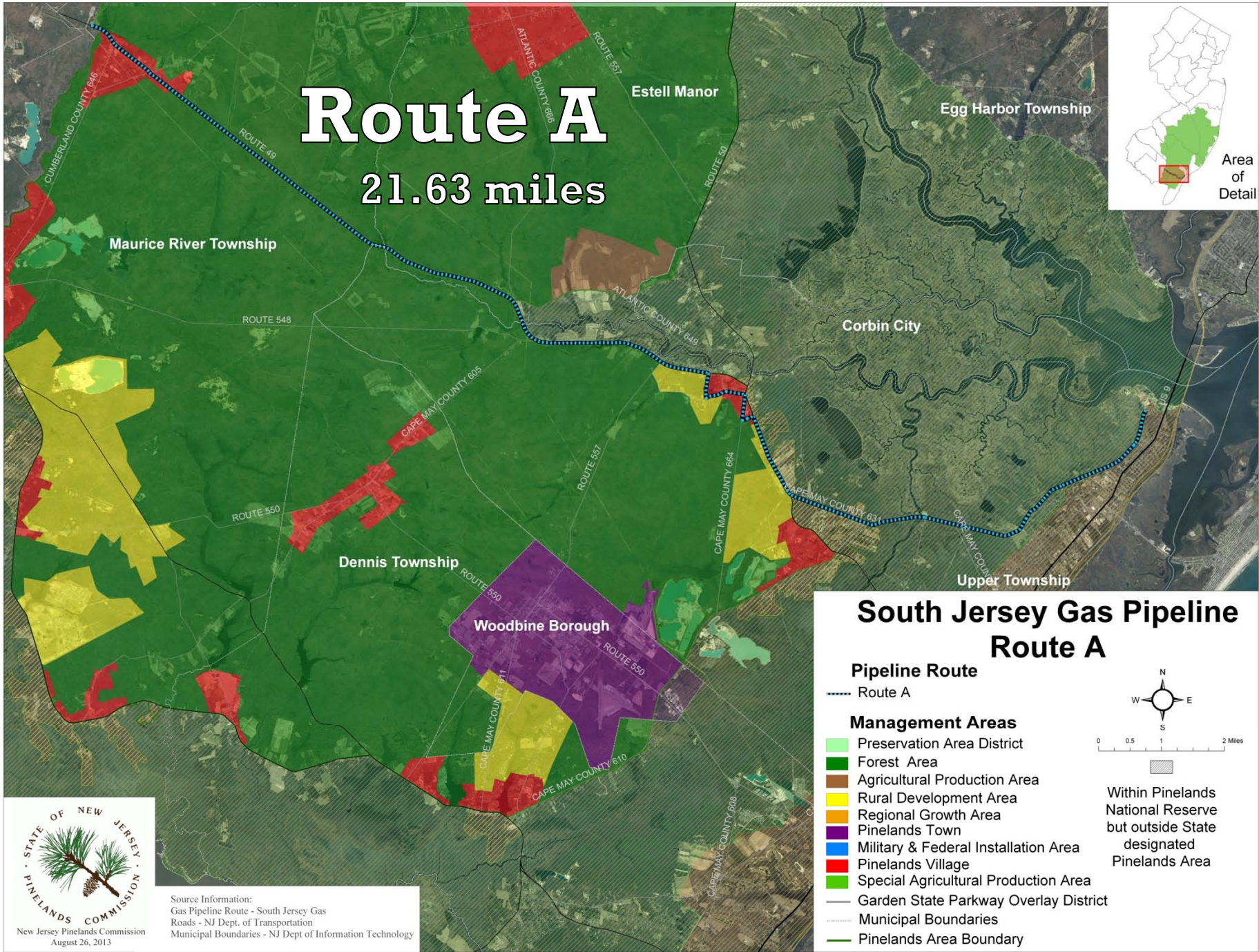
Reasons for Rejection by SJ Gas

Route B:

- Potential impacts to wetlands
- 7,000 linear feet of proposed Horizontal Directional Drilling under the Great Egg Harbor Bay
- Economic considerations: Temporary relocation of residents of Jefferson Landing and the proximity of houses to School House Rd.

Route A

21.63 miles



South Jersey Gas Pipeline Route A

Pipeline Route
 - - - - Route A

Management Areas

- Preservation Area District
- Forest Area
- Agricultural Production Area
- Rural Development Area
- Regional Growth Area
- Pinelands Town
- Military & Federal Installation Area
- Pinelands Village
- Special Agricultural Production Area

— Garden State Parkway Overlay District

— Municipal Boundaries

— Pinelands Area Boundary

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Applicable CMP Standards

- Permitted Use (N.J.A.C. 7:50-5)
- Wetlands Protection Standards (N.J.A.C. 7:50-6.6)
- Threatened and Endangered Species Standards (N.J.A.C. 7:50-6.27 & 6.33)
- Stormwater Management Standards (N.J.A.C. 7:50-6.84(a)6)
- Fire hazard mitigation standards (N.J.A. C. 5:50-6.124)
- Cultural Resource Survey requirements (N.J.A.C. 7:50-6.151)

Permitted Use Standards

- Proposed gas main would be located in a Pinelands Rural Development Area, Pinelands Forest Area and Pinelands Village Area
- Permitted use in the Rural Development and Pinelands Village Areas

Forest Area Land Use Standards

- The CMP permits the development of a gas main in a Forest Area, provided it is intended to primarily serve only the needs of the Pinelands
- The proposed project does not meet this standard

Wetlands Protection Standards

- Wetlands locations were verified by Commission staff
- As proposed, the gas main would not be located in wetlands, and it is consistent with all wetlands standards

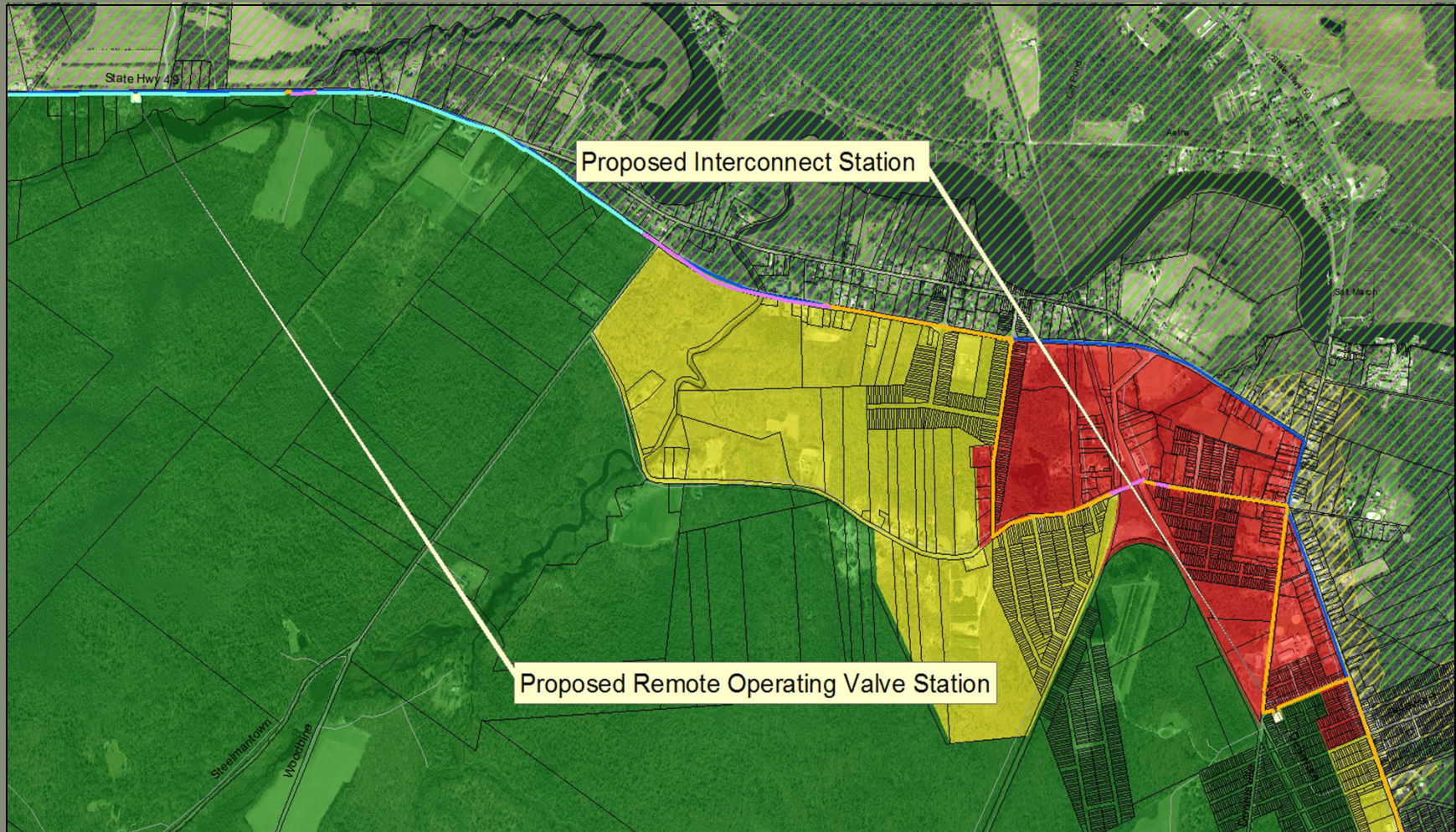
Threatened and Endangered (T & E) Species Standards

Three separate T & E reports were submitted, reviewed and determined to be consistent with the CMP

T & E Target Survey Species

- Habitat suitability assessments and surveys done for:
 - Stiff tick trefoil
 - Elliptical rushfoil
 - American Mistletoe
 - Pine Barrens Boneset
 - Silvery Aster
 - Climbing fern
 - Red-headed woodpecker
 - Barred Owl
 - Cope's gray Treefrog
- No T & E plant or animal species or suitable T & E animal habitats were found in the proposed development areas

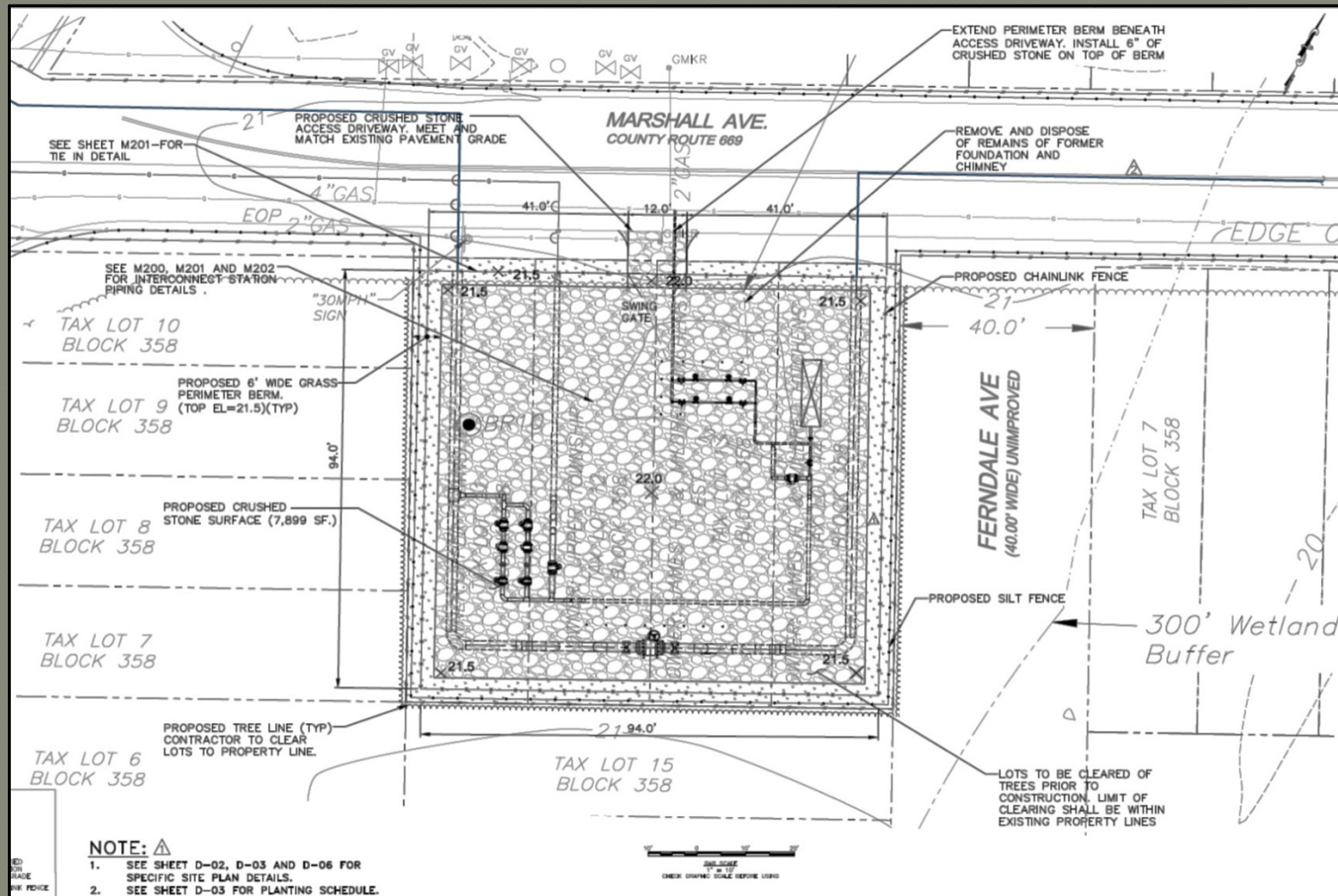
Proposed Interconnect Station and ROV Station



Stormwater Management

- Stormwater management plans and calculations were submitted, reviewed and determined to be consistent with the CMP

Interconnect Station



Fire hazard mitigation

- The standards address the potential for fire hazard risk associated with above ground development proposed for human use
- The Interconnect Station proposes a 7,899 s.f. crushed stone surface with six-foot-wide grassed perimeter berm
- The Remote Operating Valve Station proposes a 1,503 s.f. crushed stone surface with three-foot-wide grassed perimeter

Cultural Resources

- Applicant submitted a preliminary and follow up cultural resource inventory, including research and field work
- Visual reconnaissance, shovel tests and excavations units performed along route and staging areas
- Only two areas were found to have historic and prehistoric resources. These proposed staging areas were reconfigured to avoid impacts to resources

Next Steps Per CMP Regulations

- Issue Inconsistent Certificate of Filing
 - Application is complete, but inconsistent with Permitted Use Standards
 - **A Certificate of Filing is NOT an approval**
 - It is the document necessary to allow any local or county agency to review and act on the proposed development.