





























































































































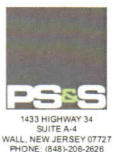


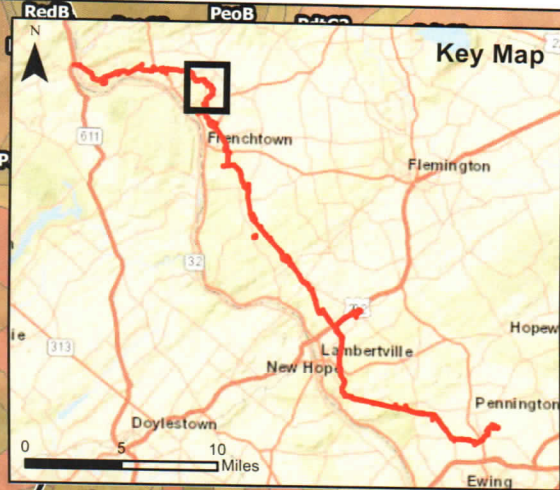
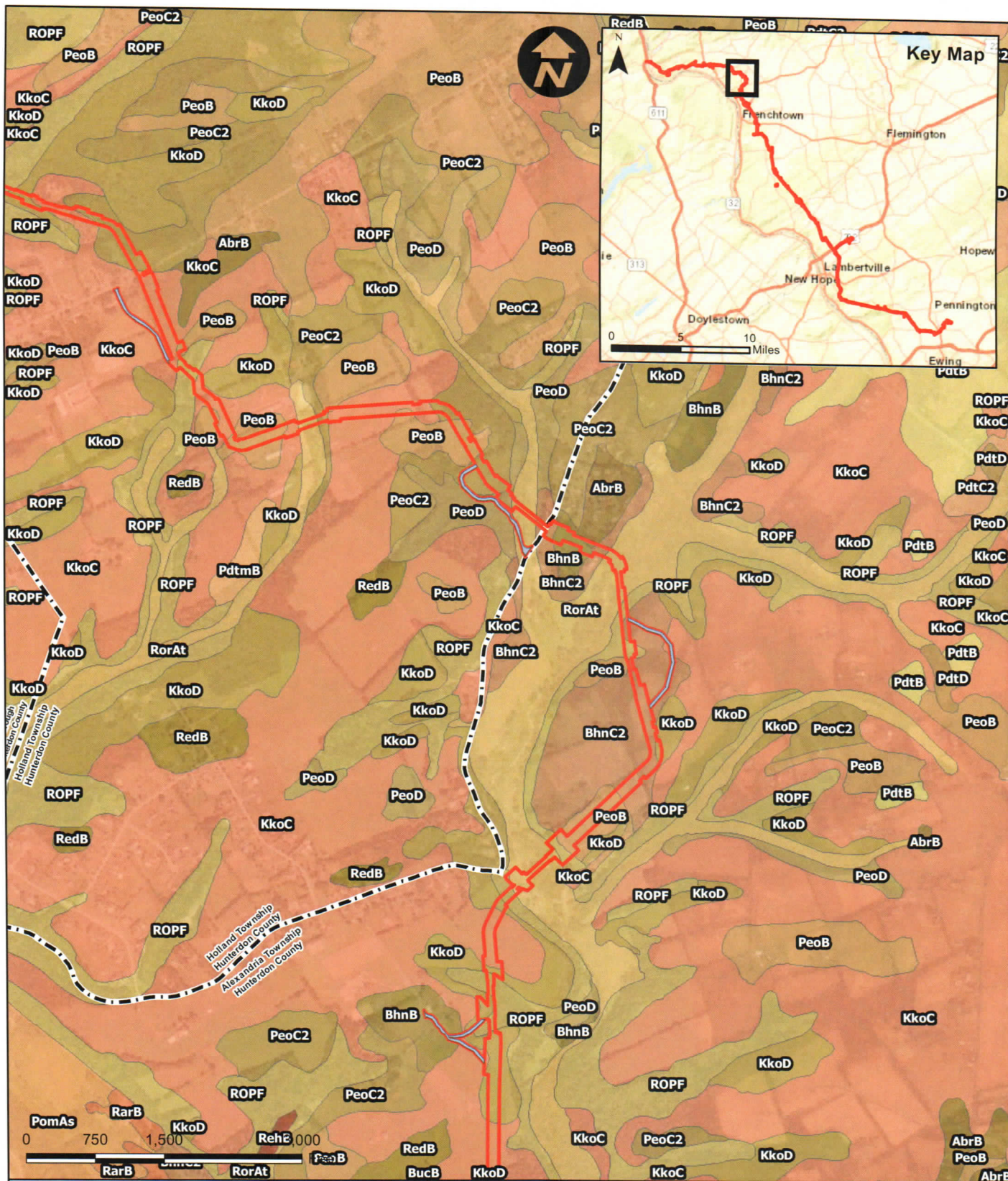
ATTACHMENT I-4

Soil Maps

Soil Types

 AbrA - Abbottstown silt loam, 0 to 3 percent slopes	 LemD2 - Lehigh silt loam, 12 to 18 percent slopes, eroded
 AbrB - Abbottstown silt loam, 2 to 6 percent slopes	 LemDb - Lehigh silt loam, 12 to 18 percent slopes, very stony
 BhmB - Birdsboro loam, 2 to 6 percent slopes	 MonB - Mount Lucas silt loam, 2 to 6 percent slopes
 BhmB2 - Birdsboro loam, 2 to 6 percent slopes, eroded	 MonBb - Mount Lucas silt loam, 0 to 6 percent slopes, very stony
 BhmC2 - Birdsboro loam, 6 to 12 percent slopes, eroded	 MonCb - Mount Lucas silt loam, 6 to 12 percent slopes, very stony
 BhnA - Birdsboro silt loam, 0 to 2 percent slopes	 MopBb - Mount Lucas-Watchung silt loams, 0 to 6 percent slopes, very stony
 BhnB - Birdsboro silt loam, 2 to 6 percent slopes	 NehB - Neshaminy silt loam, 2 to 6 percent slopes
 BhnC2 - Birdsboro silt loam, 6 to 12 percent slopes, eroded	 NehC - Neshaminy silt loam, 6 to 12 percent slopes
 BoyAt - Bowmansville silt loam, 0 to 2 percent slopes, frequently flooded	 NehC2 - Neshaminy silt loam, 6 to 12 percent slopes, eroded
 BucA - Bucks silt loam, 0 to 2 percent slopes	 NehCb - Neshaminy silt loam, 6 to 12 percent slopes, very stony
 BucB - Bucks silt loam, 2 to 6 percent slopes	 NehDb - Neshaminy silt loam, 12 to 18 percent slopes, very stony
 BucB2 - Bucks silt loam, 2 to 6 percent slopes, eroded	 NehEb - Neshaminy silt loam, 18 to 35 percent slopes, very stony
 BucC - Bucks silt loam, 6 to 12 percent slopes	 NemCb - Neshaminy-Mount Lucas silt loams, 6 to 12 percent slopes, very stony
 BucC2 - Bucks silt loam, 6 to 12 percent slopes, eroded	 OthA - Othello silt loams, 0 to 2 percent slopes, northern coastal plain
 CakB - Califon loam, 3 to 8 percent slopes	 PHG - Pits, sand and gravel
 CanBb - Califon gravelly loam, 0 to 8 percent slopes, very stony	 ParC - Parker cobbly loam, 3 to 15 percent slopes
 ChcA - Chalfont silt loam, 0 to 2 percent slopes	 ParD - Parker cobbly loam, 15 to 25 percent slopes
 ChcB - Chalfont silt loam, 2 to 6 percent slopes	 ParEe - Parker cobbly loam, 18 to 40 percent slopes, extremely stony
 ChcB2 - Chalfont silt loam, 2 to 6 percent slopes, eroded	 PdtB - Pattenburg gravelly loam, 2 to 6 percent slopes
 ChcC2 - Chalfont silt loam, 6 to 12 percent slopes, eroded	 PdtC2 - Pattenburg gravelly loam, 6 to 12 percent slopes, eroded
 ChcCb - Chalfont silt loam, 6 to 12 percent slopes, very stony	 PdtD - Pattenburg gravelly loam, 12 to 18 percent slopes
 CheCb - Chalfont-Lehigh silt loams, 6 to 12 percent slopes, very stony	 PdtE - Pattenburg gravelly loam, 18 to 40 percent slopes
 ChfB - Chalfont-Quakertown silt loams, 0 to 6 percent slopes	 PdtmB - Pattenburg gravelly loam, moderately wet, 2 to 6 percent slopes
 CoaA - Cokesbury loam, 0 to 3 percent slopes	 PeoB - Penn channery silt loam, 2 to 6 percent slopes
 CoxA - Croton silt loam, 0 to 2 percent slopes	 PeoC - Penn channery silt loam, 6 to 12 percent slopes
 CoxB - Croton silt loam, 2 to 6 percent slopes	 PeoC2 - Penn channery silt loam, 6 to 12 percent slopes, eroded
 CoxBb - Croton silt loam, 0 to 6 percent slopes, very stony	 PeoD - Penn channery silt loam, 12 to 18 percent slopes
 DOZA - Doylestown and Reaville variant silt loams, 0 to 2 percent slopes	 PepB - Penn-Bucks complex, 2 to 6 percent slopes
 DOZB - Doylestown and Reaville variant silt loams, 2 to 6 percent slopes	 PepC2 - Penn-Bucks complex, 6 to 12 percent slopes, eroded
 DOZB2 - Doylestown and Reaville variant silt loams, 2 to 6 percent slopes, eroded	 PomAs - Pope fine sandy loam, high bottom, 0 to 2 percent slopes, occasionally flooded
 DOZC - Doylestown and Reaville variant silt loams, 6 to 12 percent slopes	 QukB - Quakertown silt loam, 2 to 6 percent slopes
 FNAT - Fluvaquents and Udifluvents, 0 to 3 percent slopes, frequently flooded	 QukB2 - Quakertown silt loam, 2 to 6 percent slopes, eroded
 FmhAt - Fluvaquents, loamy, 0 to 3 percent slopes, frequently flooded	 QukC - Quakertown silt loam, 6 to 12 percent slopes
 GKAPCC - Gladstone and Parker soils, 8 to 15 percent slopes, extremely stony	 QukC2 - Quakertown silt loam, 6 to 12 percent slopes, eroded
 GkaoB - Gladstone gravelly loam, 3 to 8 percent slopes	 QukD2 - Quakertown silt loam, 12 to 18 percent slopes, eroded
 GkaoC2 - Gladstone gravelly loam, 8 to 15 percent slopes, eroded	 QumB - Quakertown channery silt loam, 2 to 6 percent slopes
 GkaoD - Gladstone gravelly loam, 15 to 25 percent slopes	 QumC - Quakertown channery silt loam, 6 to 12 percent slopes
 HdyB - Hazleton channery loam, 2 to 6 percent slopes	 QumC2 - Quakertown channery silt loam, 6 to 12 percent slopes, eroded
 HdyC2 - Hazleton channery loam, 6 to 12 percent slopes, eroded	 QumD2 - Quakertown channery silt loam, 12 to 18 percent slopes, eroded
 HdyD - Hazleton channery loam, 12 to 18 percent slopes	 QupC2 - Quakertown-Chalfont silt loams, 6 to 12 percent slopes, eroded
 HdyDb - Hazleton channery loam, 6 to 18 percent slopes, very stony	 REFA - Readington and Abbottstown silt loams, 0 to 2 percent slopes
 HdyEb - Hazleton channery loam, 18 to 40 percent slopes, very stony	 REFB - Readington and Abbottstown silt loams, 2 to 6 percent slopes
 KkoC - Klinesville channery loam, 6 to 12 percent slopes	 REFB2 - Readington and Abbottstown silt loams, 2 to 6 percent slopes, eroded
 KkoD - Klinesville channery loam, 12 to 18 percent slopes	 REFC2 - Readington and Abbottstown silt loams, 6 to 12 percent slopes, eroded
 KkoE - Klinesville channery loam, 18 to 35 percent slopes	 ROPF - Rough broken land, shale
 LDXA - Lawrenceville and Mount Lucas silt loams, 0 to 2 percent slopes	 RarB - Raritan silt loam, 3 to 8 percent slopes
 LDXB - Lawrenceville and Mount Lucas silt loams, 2 to 6 percent slopes	 RedB - Readington silt loam, 2 to 6 percent slopes
 LDXB2 - Lawrenceville and Mount Lucas silt loams, 2 to 6 percent slopes, eroded	 RedC2 - Readington silt loam, 6 to 12 percent slopes, eroded
 LDXC2 - Lawrenceville and Mount Lucas silt loams, 6 to 12 percent slopes, eroded	 RehA - Reaville silt loam, 0 to 2 percent slopes
 LbmB - Lansdale loam, 2 to 6 percent slopes	 RehB - Reaville silt loam, 2 to 6 percent slopes
 LbmC2 - Lansdale loam, 6 to 12 percent slopes, eroded	 RehB2 - Reaville silt loam, 2 to 6 percent slopes, eroded
 LbmD - Lansdale loam, 12 to 18 percent slopes	 RehC2 - Reaville silt loam, 6 to 12 percent slopes, eroded
 LbtB - Lansdowne silt loam, 2 to 6 percent slopes	 RepwA - Reaville wet variant silt loam, 0 to 2 percent slopes
 LdmB - Lawrenceville silt loam, 2 to 6 percent slopes	 RepwB - Reaville wet variant silt loam, 2 to 6 percent slopes
 LdmC2 - Lawrenceville silt loam, 6 to 12 percent slopes, eroded	 RksB - Riverhead gravelly sandy loam, 3 to 8 percent slopes
 LegB - Legore gravelly loam, 2 to 6 percent slopes	 RksC - Riverhead gravelly sandy loam, 8 to 15 percent slopes
 LegC - Legore gravelly loam, 6 to 12 percent slopes	 RorAt - Rowland silt loam, 0 to 2 percent slopes, frequently flooded
 LegD - Legore gravelly loam, 12 to 18 percent slopes	 ThoAs - Tioga fine sandy loam, 0 to 2 percent slopes, occasionally flooded
 LegE - Legore gravelly loam, 18 to 30 percent slopes	 UdbB - Udorthents, bedrock substratum, 0 to 8 percent slopes
 LemB - Lehigh silt loam, 2 to 6 percent slopes	 WATER - Water
 LemB2 - Lehigh silt loam, 2 to 6 percent slopes, eroded	 WadB - Washington loam, 3 to 8 percent slopes
 LemBb - Lehigh silt loam, 2 to 6 percent slopes, very stony	 WasA - Watchung silt loam, 0 to 2 percent slopes
 LemC2 - Lehigh silt loam, 6 to 12 percent slopes, eroded	 WasAe - Watchung silt loam, 0 to 3 percent slopes, very rubbly





Legend

- Project Site
- Access Road
- Municipal Boundary

Sources:
 Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018
 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017
 Municipal Boundary Lines of NJ, NJGIT-OGIS, 2016
 Esri, World Transportation, 2019
 Esri, World Imagery, 2016



1433 HIGHWAY 34
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SOILS MAP Holland and Alexandria Township Hunterdon County, New Jersey

Drawn By: EB/ML

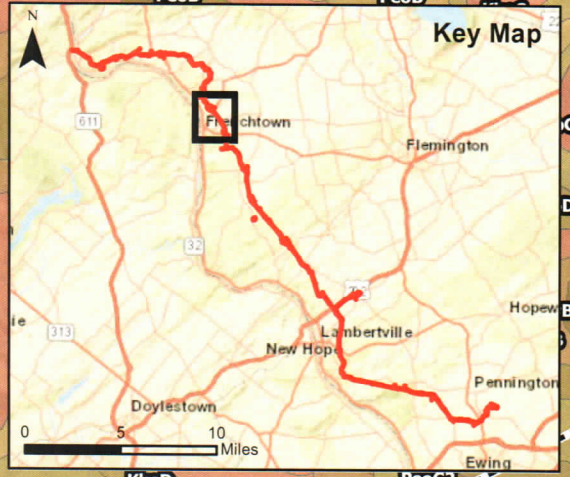
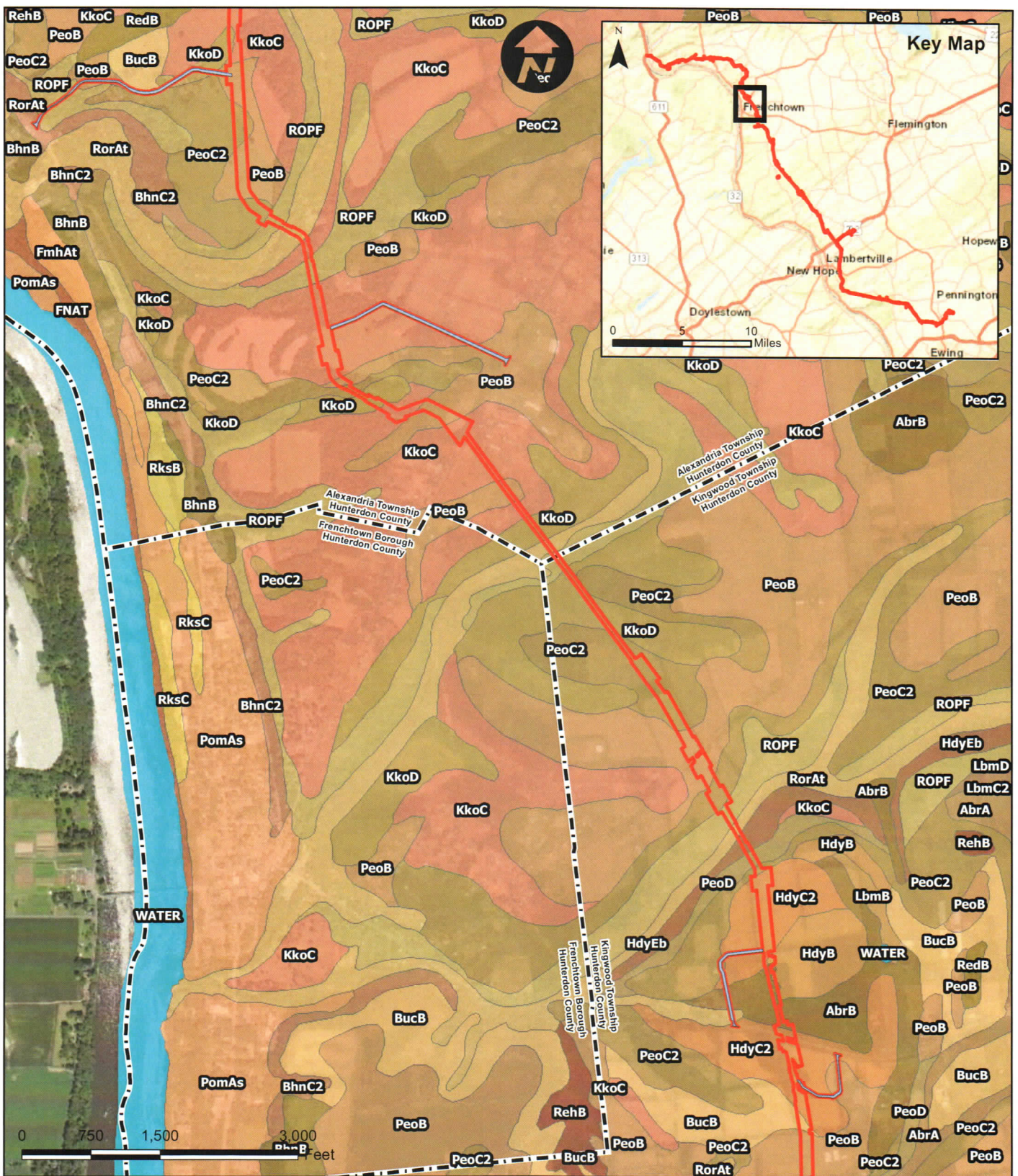
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Project No. 05516.0001

Chk'd By: JG

Date: 7/17/2019



Map 4 of 15



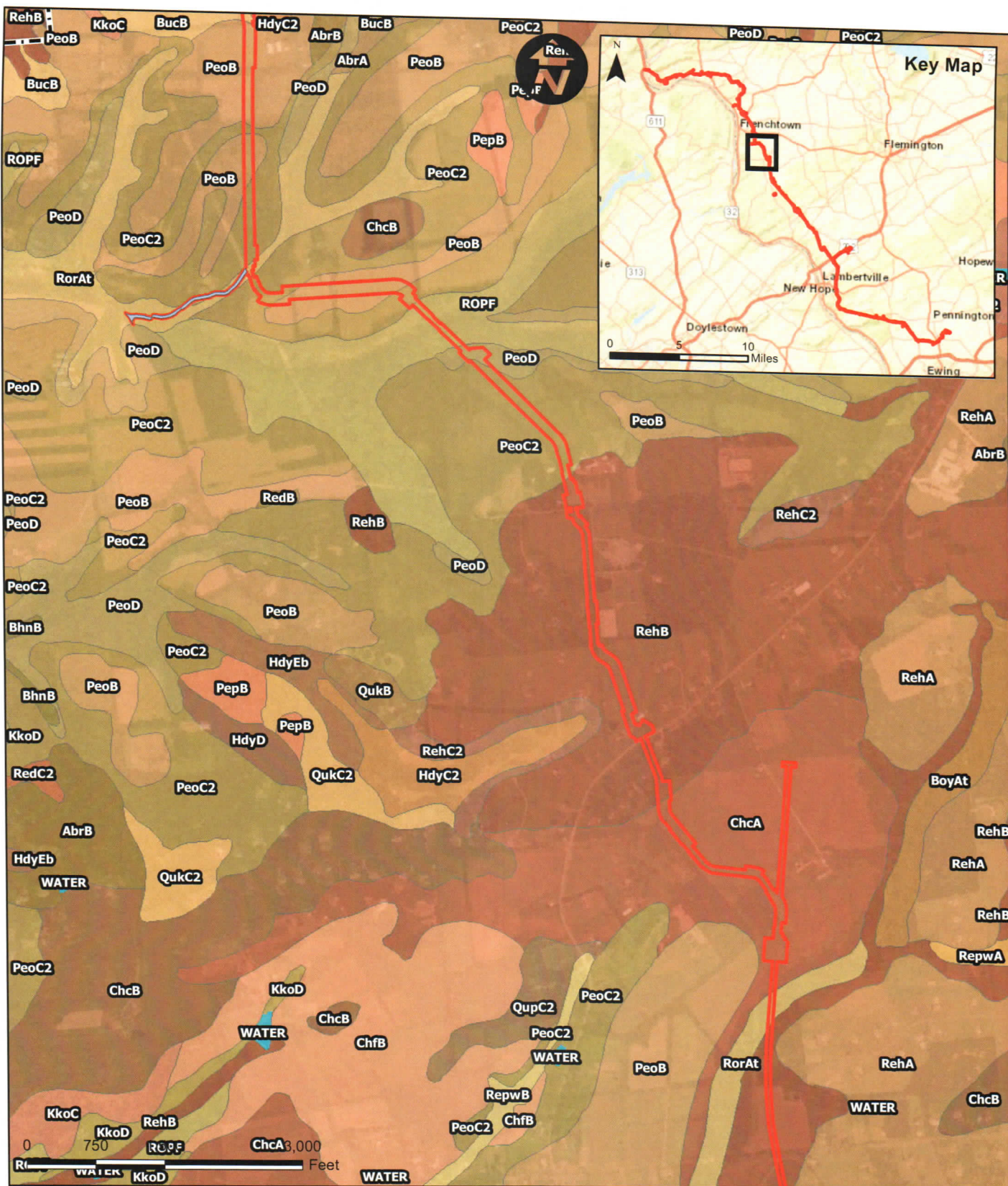
Legend

- Project Site
- Access Road
- Municipal Boundary

Sources:
 Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018
 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017
 Municipal Boundary Lines of NJ, NJOIT-OGIS, 2016
 Esri, World Transportation, 2019
 Esri, World Imagery, 2016



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PHONE: (848) 206-2626

SOILS MAP Alexandria and Kingwood Township Hunterdon County, New Jersey		
Drawn By: EB/ML	Scale: 1" = 1,500'	Project No. 05516.0001
Chk'd By: JG	Date: 7/17/2019	Map 5 of 15



Legend

- Project Site
- Access Road
- Municipal Boundary

Sources:
 Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018
 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017
 Municipal Boundary Lines of NJ, NJGIT-OGIS, 2016
 Esri, World Transportation, 2019
 Esri, World Imagery, 2016



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SOILS MAP Kingwood Township Hunterdon County, New Jersey

Drawn By: EB/ML

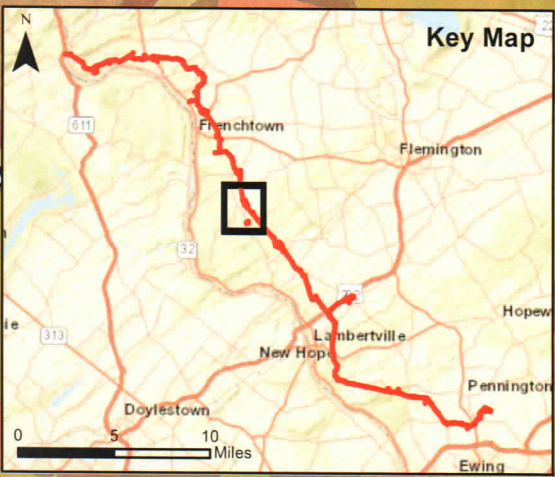
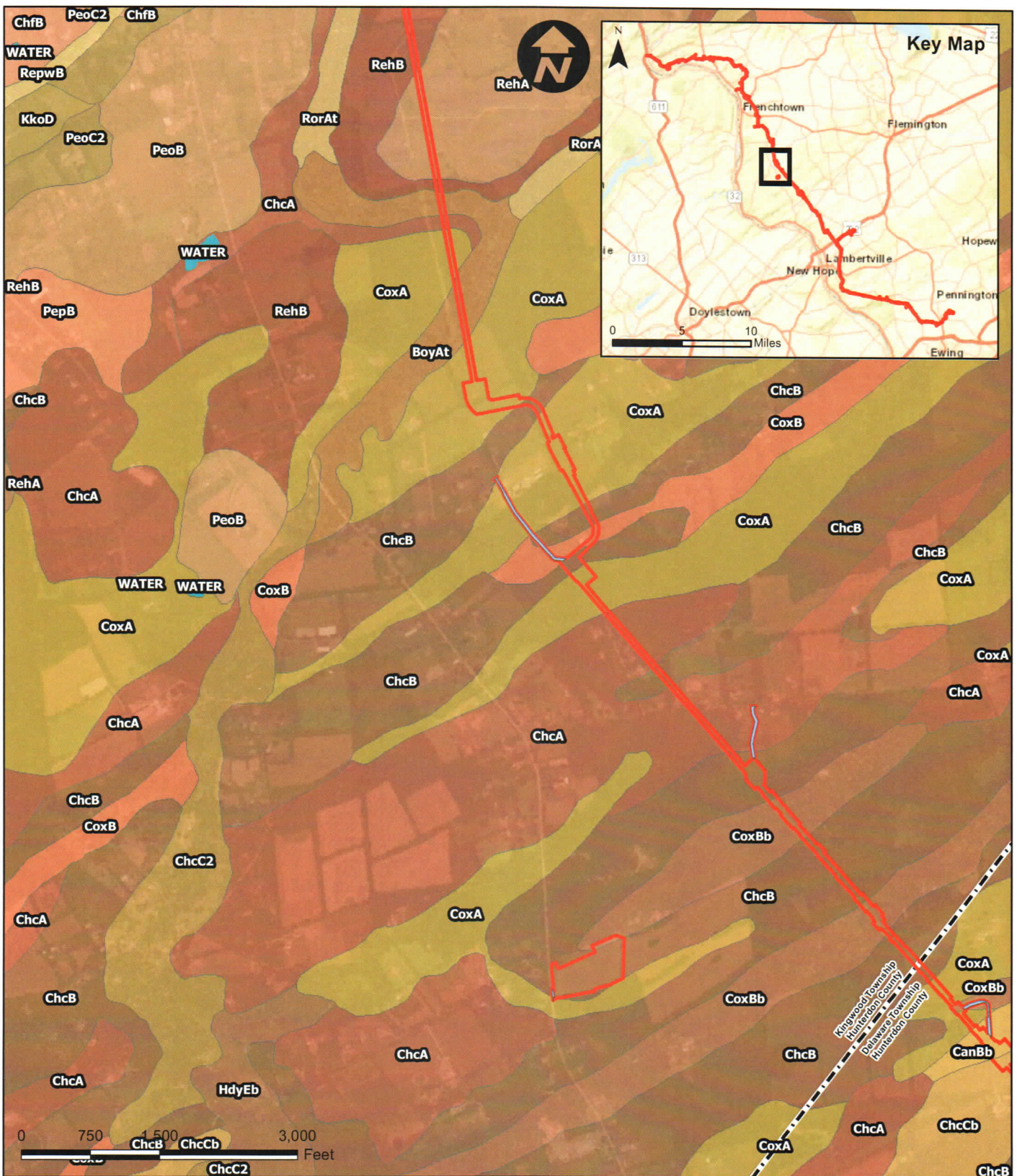
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Project No. 05516.0001

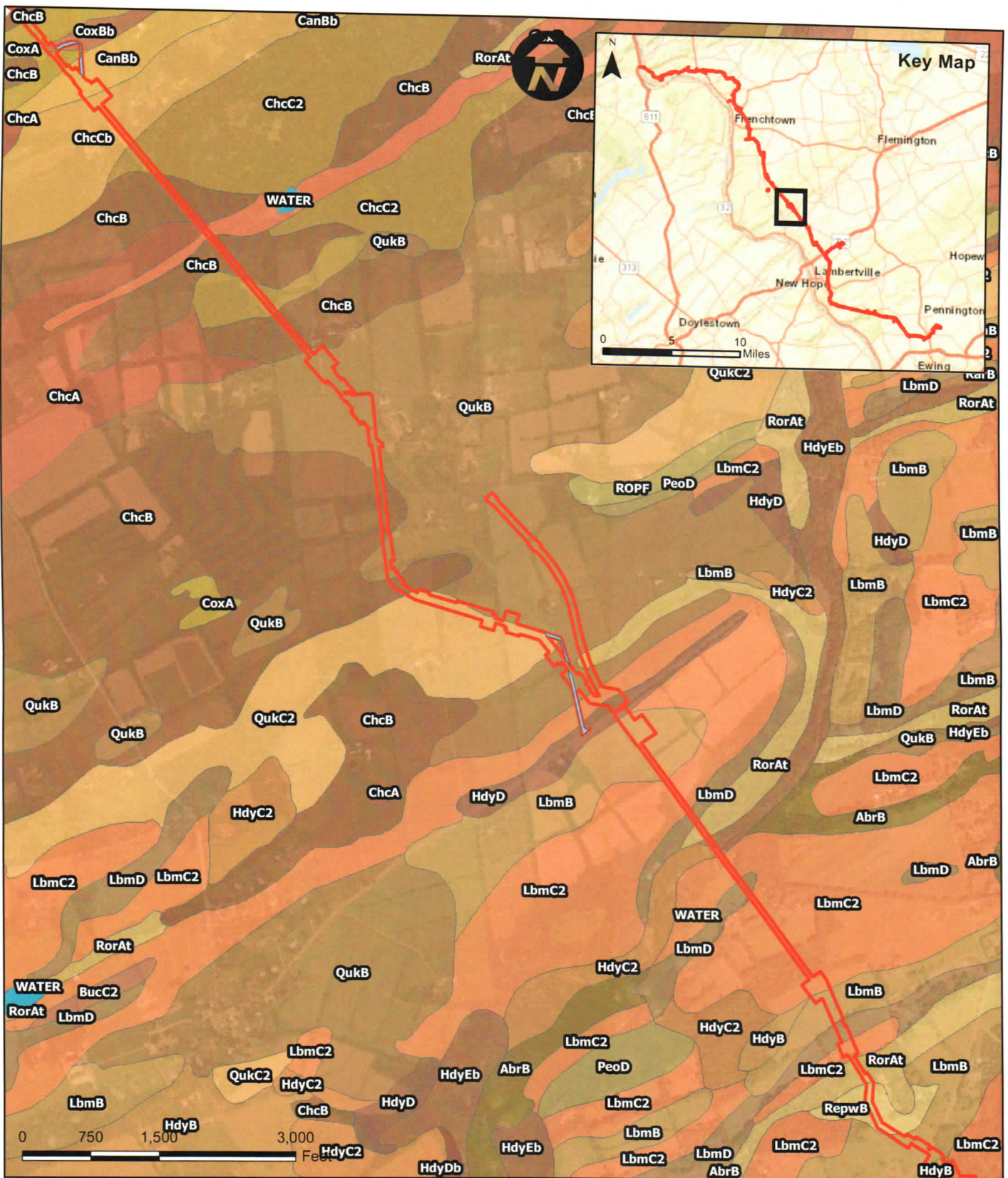
Chk'd By: JG

Date: 7/17/2019

Map 6 of 15



<p>Legend</p> <p> Project Site</p> <p> Access Road</p> <p> Municipal Boundary</p> <p>Sources: Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017 Municipal Boundary Lines of NJ, NJOIT-OGIS, 2016 Esri, World Transportation, 2019 Esri, World Imagery, 2016</p>	<p>PennEast</p> <p>PS&S</p> <p>1433 HIGHWAY 34 SUITE A-4 WALL, NEW JERSEY 07727 PHONE: (848) 206-2626</p>	<p style="text-align: center;">SOILS MAP Kingwood Township Hunterdon County, New Jersey</p> <table border="1" style="width: 100%;"> <tr> <td>Drawn By: EB/ML</td><td>Scale: 1" = 1,500'</td><td>Project No. 05516.0001</td></tr> <tr> <td>Chk'd By: JG</td><td>Date: 7/17/2019</td><td>Map 7 of 15</td></tr> </table>	Drawn By: EB/ML	Scale: 1" = 1,500'	Project No. 05516.0001	Chk'd By: JG	Date: 7/17/2019	Map 7 of 15
Drawn By: EB/ML	Scale: 1" = 1,500'	Project No. 05516.0001						
Chk'd By: JG	Date: 7/17/2019	Map 7 of 15						



Legend

- Project Site
- Access Road
- Municipal Boundary

Sources:
 Soil Survey Geographic (SSURGO) database for
 Mercer County, USDA, NRCS, 2018
 Soil Survey Geographic (SSURGO) database for
 Hunterdon County, USDA, NRCS, 2017
 Municipal Boundary Lines of NJ, NJOIT-OGIS, 2016
 Esri, World Transportation, 2019
 Esri, World Imagery, 2016



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SOILS MAP

Kingwood and Delaware Township
 Hunterdon County, New Jersey

Drawn By: EB/ML

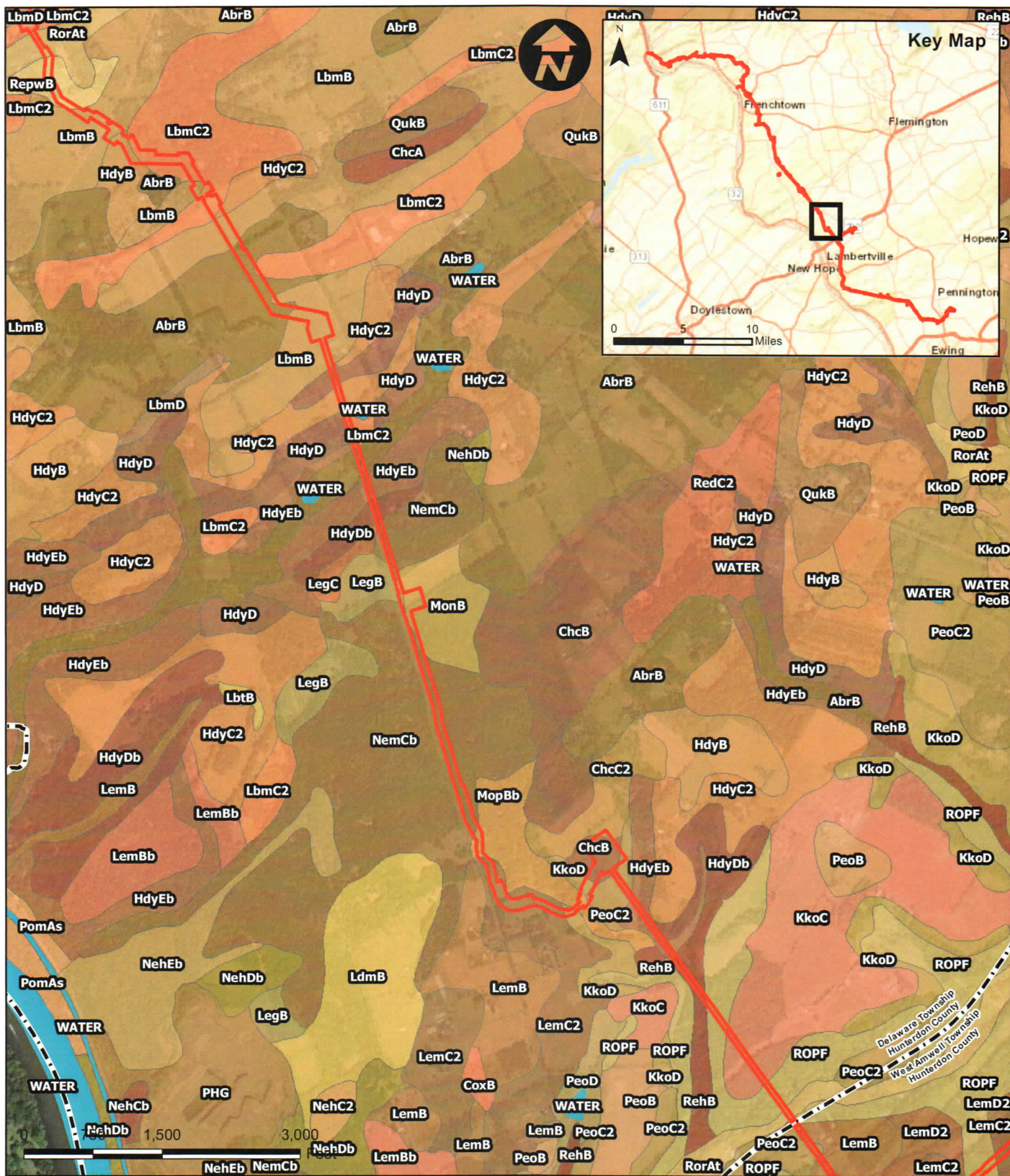
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Project No. 05516.0001

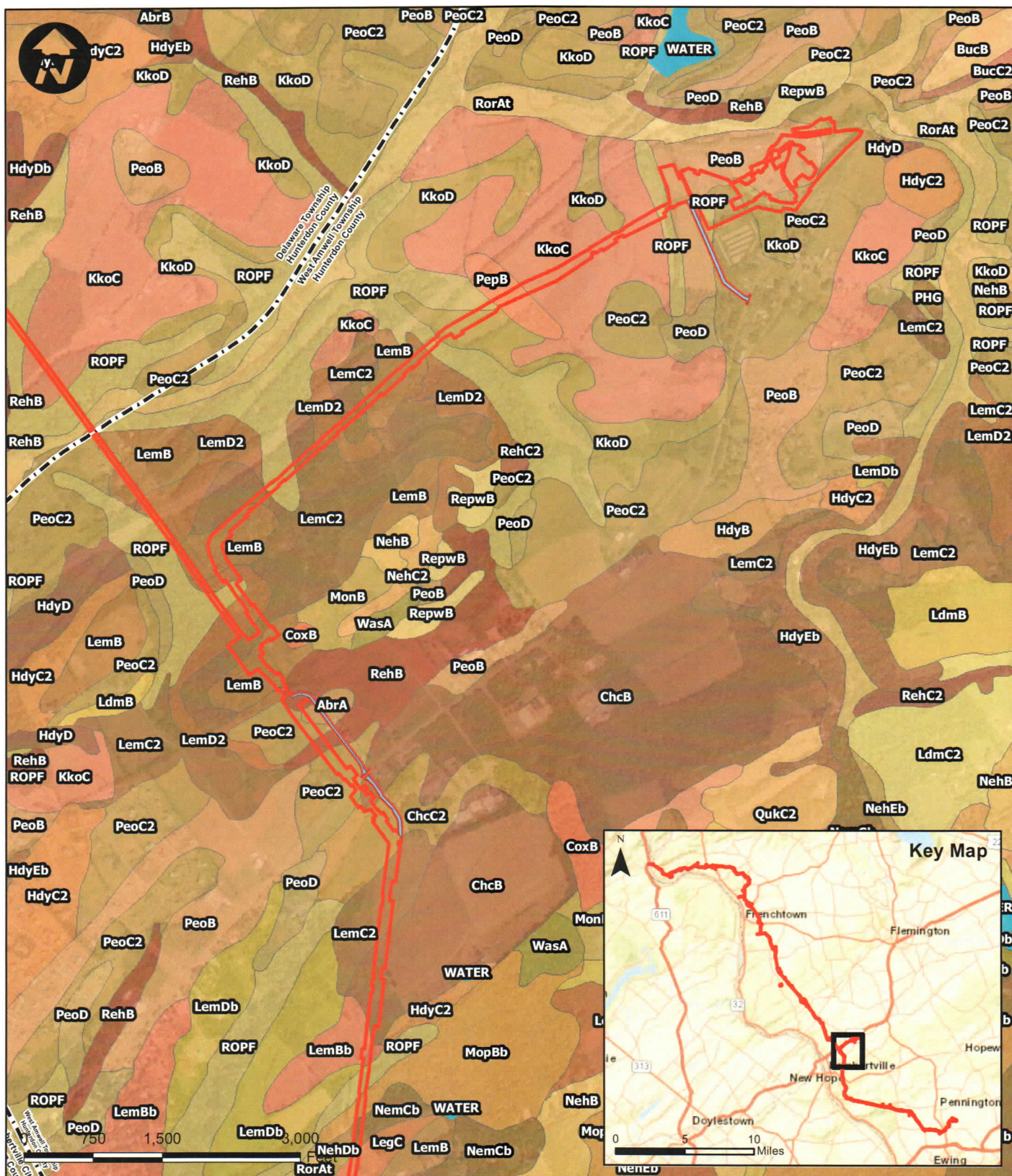
Chk'd By: JG

Date: 7/17/2019

Map 8 of 15



<div><div>Legend</div><div><div><div><div></div></div><div>Project Site</div></div><div><div><div></div></div><div>Access Road</div></div><div><div><div></div></div><div>Municipal Boundary</div></div></div><div><div>Sources:</div><div>Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018</div><div>Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017</div><div>Municipal Boundary Lines of NJ, NJOIT-OGIS, 2016</div><div>Esri, World Transportation, 2019</div><div>Esri, World Imagery, 2016</div></div></div> <div><div><div><div><div></div><div>PennEast</div></div><div><div><div></div><div>PSS</div><div>1433 HIGHWAY 34 SUITE A-4 WALL, NEW JERSEY 07727 PHONE: (848) 206-2626</div></div></div></div></div><div><div><div><div><div>SOILS MAP</div><div>Delaware Township</div><div>Hunterdon County, New Jersey</div></div></div></div><div><div><div><div><div>Drawn By: EB/ML</div><div>Chk'd By: JG</div></div><div><div><div>Scale: 1 " = 1,500 '</div><div>Date: 7/17/2019</div></div><div><div><div>Project No. 05516.0001</div><div>Map 9 of 15</div></div></div></div></div></div></div></div></div>
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Legend

- Project Site
- Access Road
- Municipal Boundary

Sources:
 Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018
 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017
 Municipal Boundary Lines of NJ, NJOIT-OGIS, 2016
 Esri, World Transportation, 2019
 Esri, World Imagery, 2016



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SOILS MAP

Delaware and West Amwell Township
 Hunterdon County, New Jersey

Drawn By: EB/ML

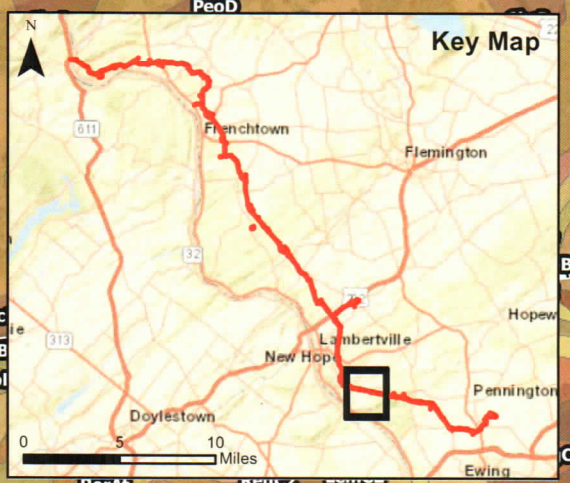
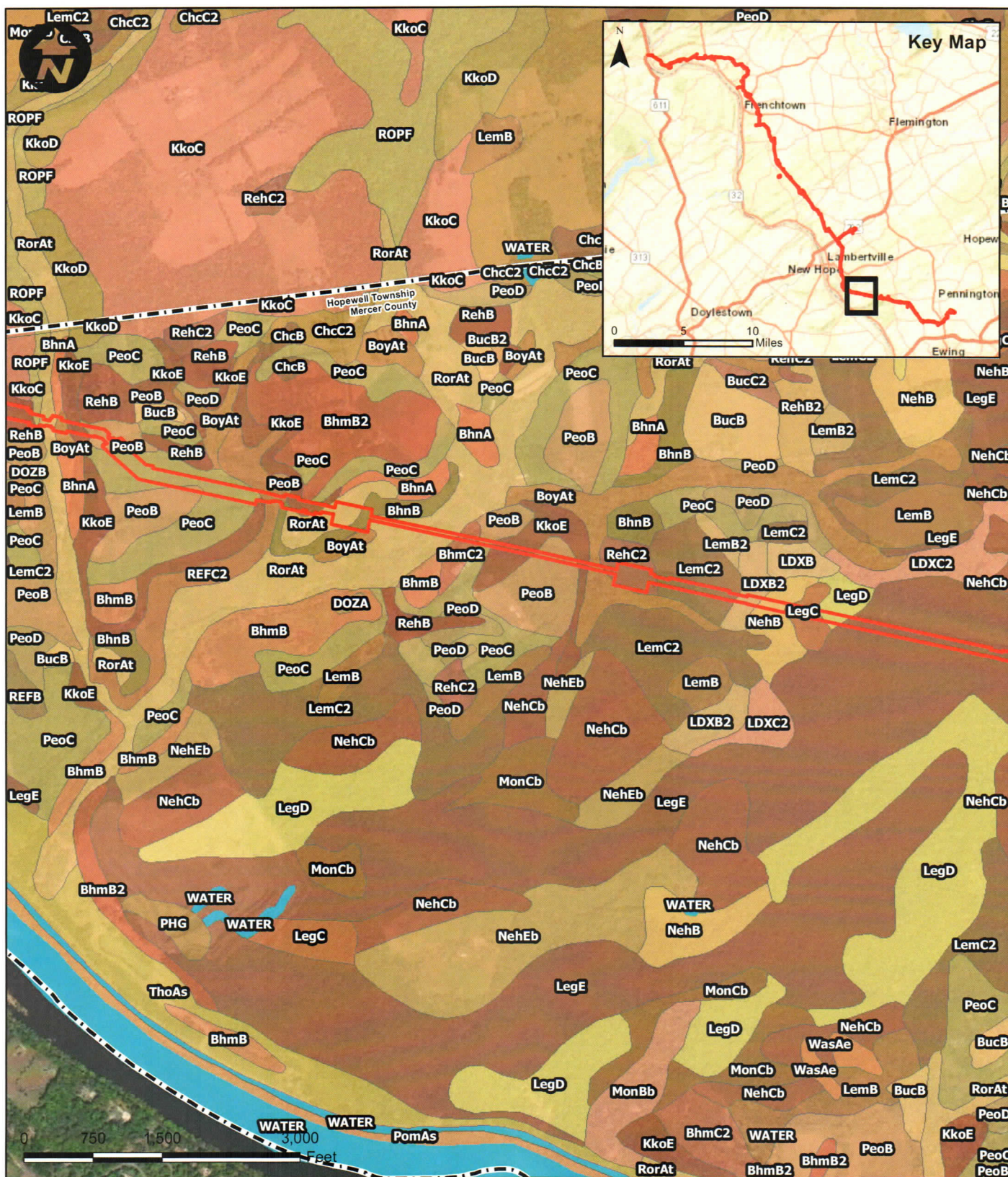
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Project No. 05516.0001

Chk'd By: JG

Date: 7/17/2019

Map 10 of 15



Legend

- Project Site
- Access Road
- Municipal Boundary

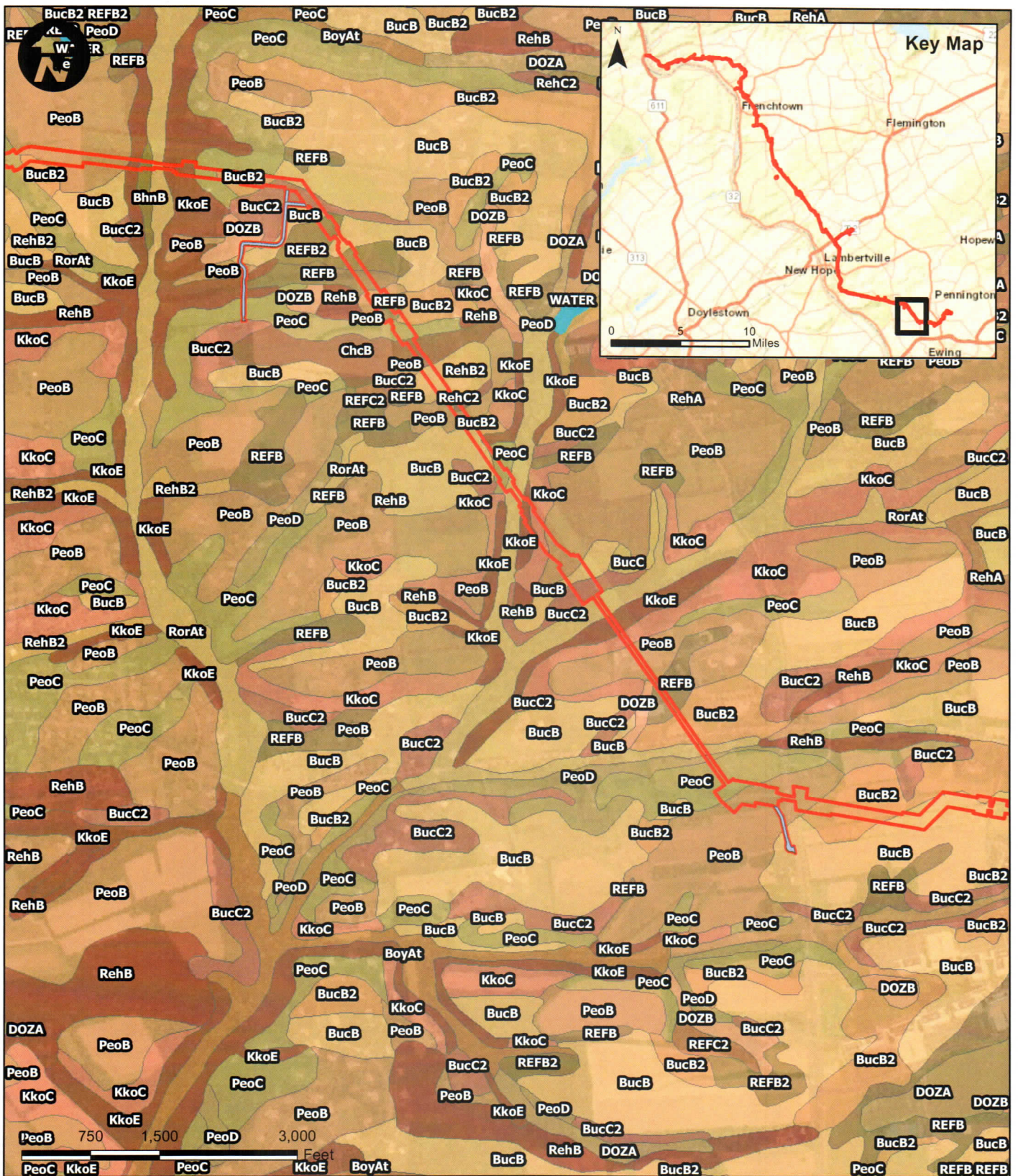
Sources:
 Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018
 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017
 Municipal Boundary Lines of NJ, NJOIT-OGIS, 2016
 Esri, World Transportation, 2019
 Esri, World Imagery, 2016





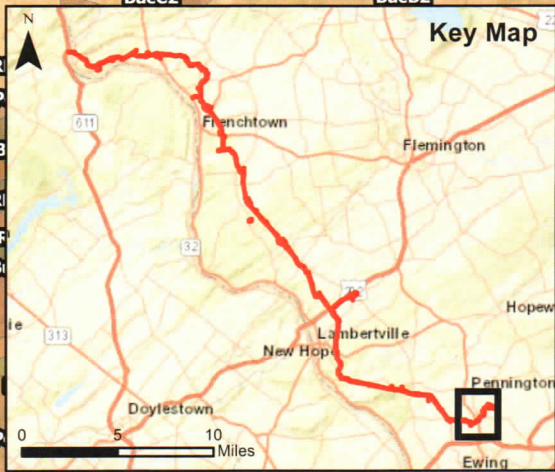
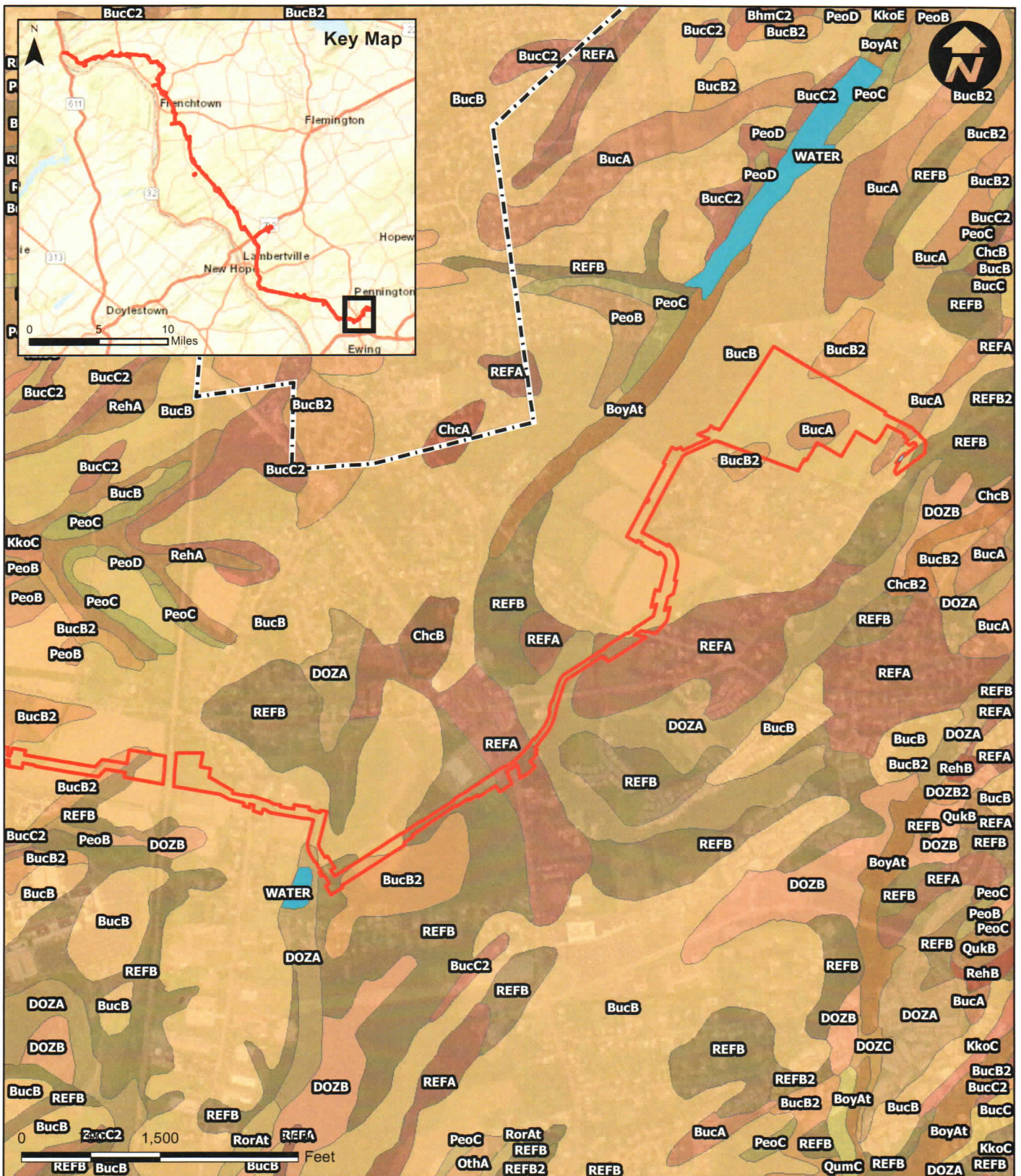
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SOILS MAP Hopewell Township Mercer County, New Jersey

Drawn By: EB/ML	Scale: 1" = 1,500'	Project No. 05516.0001
Chk'd By: JG	Date: 7/17/2019	Map 12 of 15



<p>Legend</p> <p> Project Site</p> <p> Access Road</p> <p> Municipal Boundary</p> <p>Sources: Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017 Municipal Boundary Lines of NJ, NJOIT-OGIS, 2016 Esri, World Transportation, 2019 Esri, World Imagery, 2016</p>	<div style="text-align: center;">   <small>1433 HIGHWAY 34 SUITE A-4 WALL, NEW JERSEY 07727 PHONE: (848) 206-2028</small> </div>	<div style="text-align: center;"> <p>SOILS MAP</p> <p>Hopewell Township</p> <p>Mercer County, New Jersey</p> </div>		<p>Project No. 05516.0001</p>
		<p>Drawn By: EB/ML</p> <p>Chk'd By: JG</p>	<p>Scale: 1" = 1,500'</p> <p>Date: 7/17/2019</p>	<p>Map 14 of 15</p>



Legend

- Project Site
- Access Road
- Municipal Boundary

Sources:

Soil Survey Geographic (SSURGO) database for Mercer County, USDA, NRCS, 2018
 Soil Survey Geographic (SSURGO) database for Hunterdon County, USDA, NRCS, 2017
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 Esri, World Transportation, 2019
 Esri, World Imagery, 2016



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SOILS MAP

Hopewell Township

Mercer County, New Jersey

Drawn By: EB/ML

Scale: 1" = 1,500'

Project No. 05516.0001

Chk'd By: JG

Date: 7/17/2019

Map 15 of 15