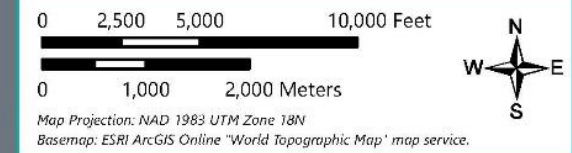
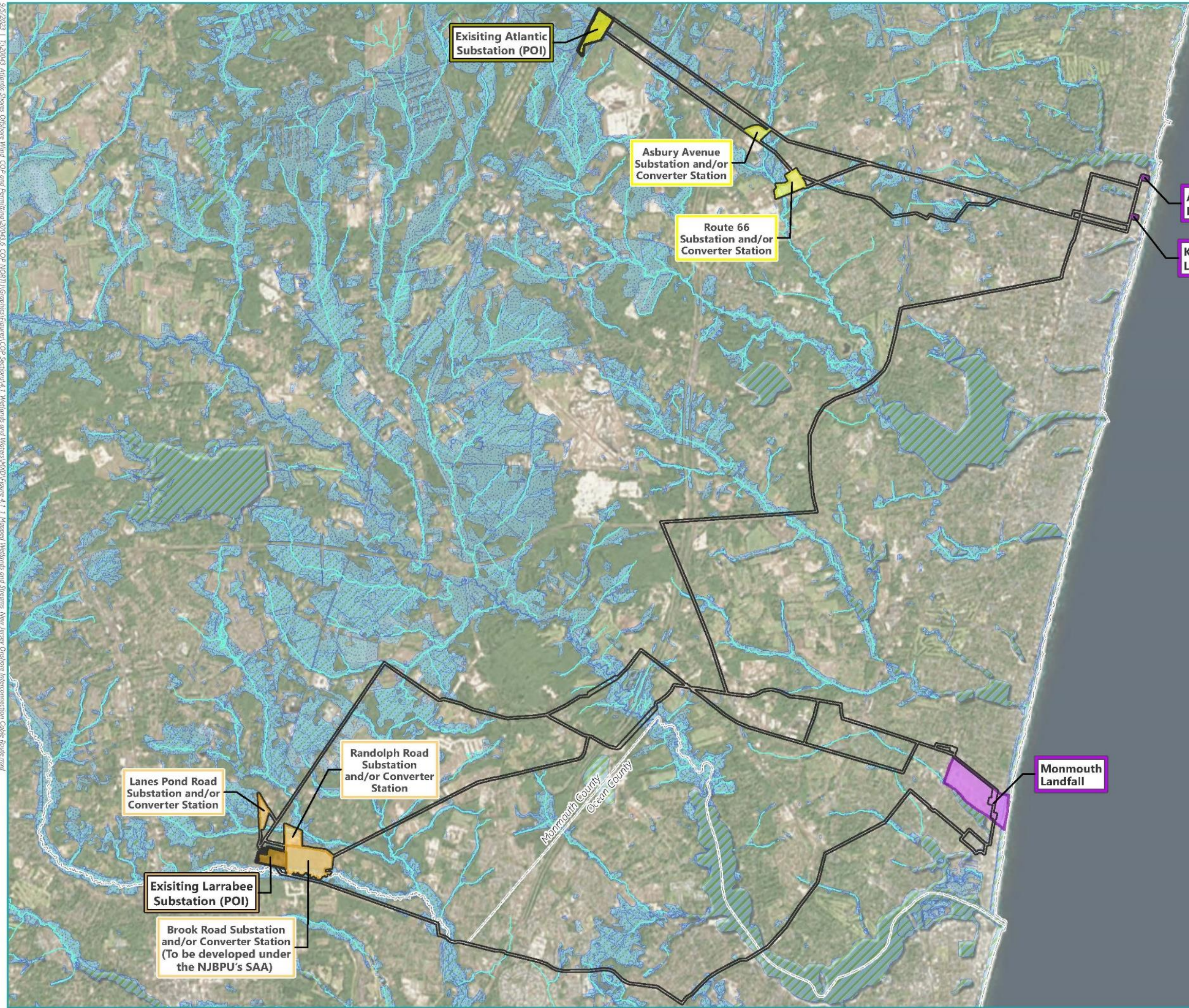


9/5/2023 | 7:20:43 Atlantic Shores Offshore Wind COP and Permitting 2024.6 COP NCR171Graphics\Figures\COP Sections 4.1 Wetlands and Waters\MXD\Figure 4.1.1 Mapped Wetlands and Streams New Jersey Onshore Interconnection Cable Route.mxd



- LEGEND**
- New Jersey Study Area
 - Mapped Streams
 - NJDEP Wetlands
 - NWI Wetlands
 - Potential Landfall Location Area
 - Potential Atlantic Substation and/or Converter Station
 - Potential Larrabee Substation and/or Converter Station
 - Potential Atlantic Point of Interconnection (POI)
 - Potential Larrabee Point of Interconnection (POI)
 - County Boundary

Figure 4.1-1
Mapped Wetland and Streams
Onshore Interconnection Cable Route
Monmouth and Ocean County, New Jersey

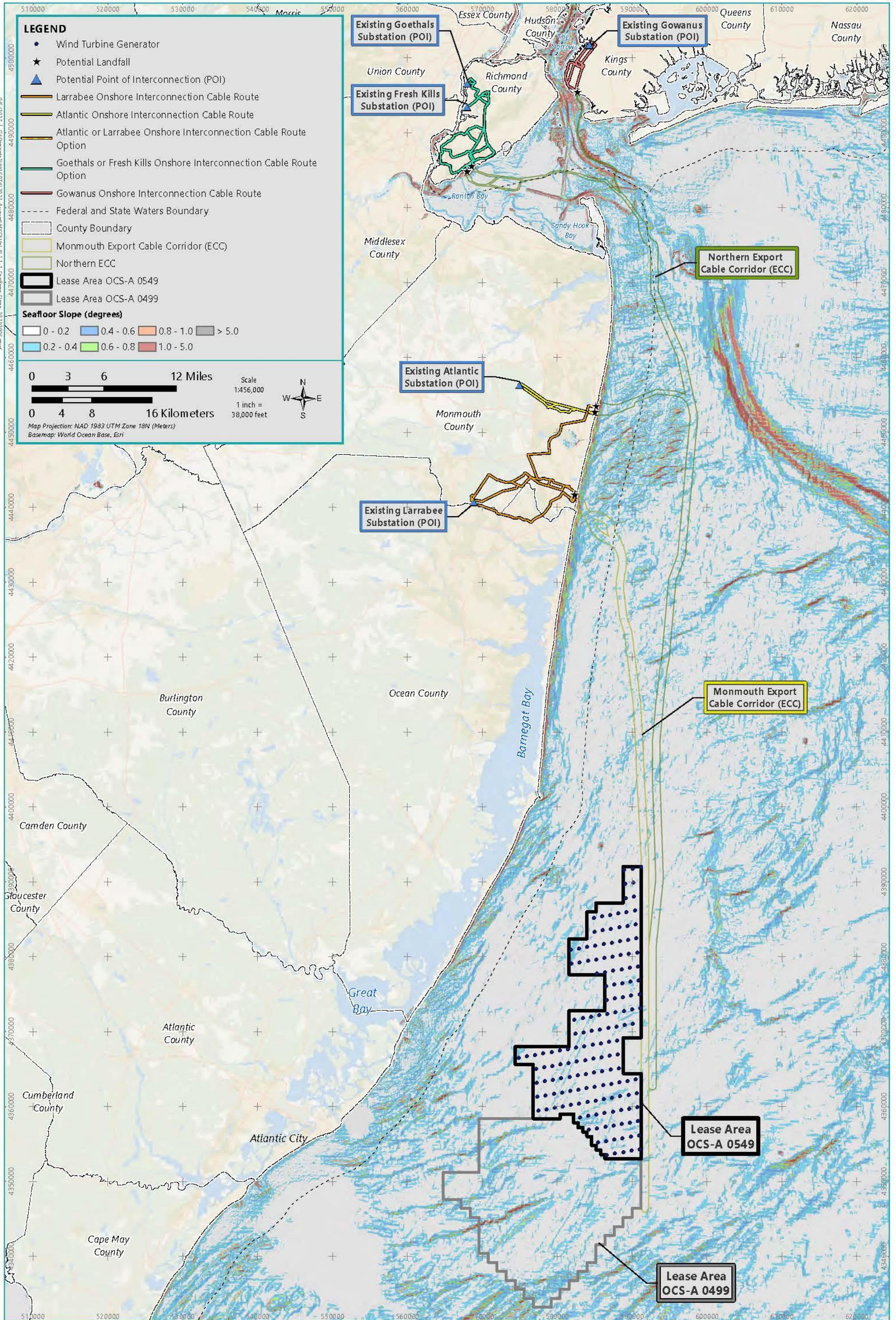
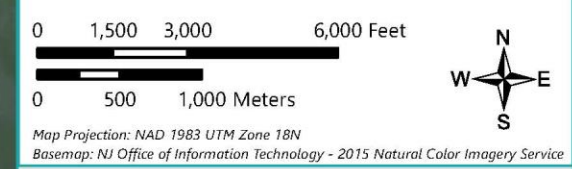


Figure 2.1-1
Seafloor Slope (Northeast Atlantic Coastal Relief Model)

7/16/2023 | 7:20:43 Atlantic Shores Offshore Wind COP and Permitting 20043 & COP NORRI/Geographics Figures/COP Sections 7.5 Land Use and Coastal Infrastructure Figures/MSXD/figure 7.5-1 New Jersey Land Use



Map Projection: NAD 1983 UTM Zone 18N
Basemap: NJ Office of Information Technology - 2015 Natural Color Imagery Service

LEGEND

NLCD Land Use/Land Cover (2019)

- Agriculture
- Forested Land
- Developed Land
- Developed, Open Space
- Shrub/Scrub
- Herbaceous
- Barren Land
- Open Water
- Wetlands
- Potential Landfall
- Potential Larrabee Substation and/or Converter Station
- Potential Point of Interconnection (POI)
- Larrabee Onshore Interconnection
- Cable Route Option
- Municipal Boundary

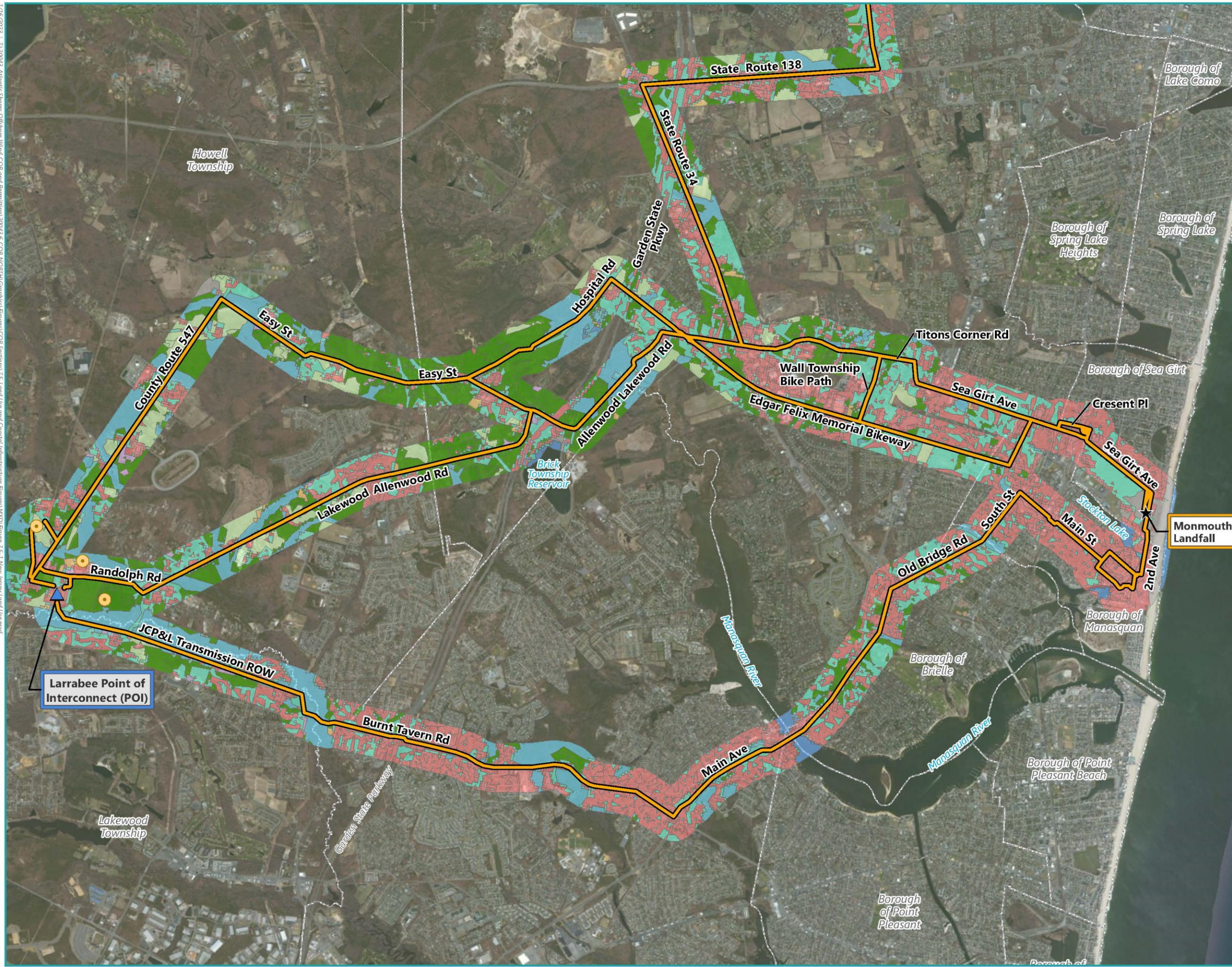
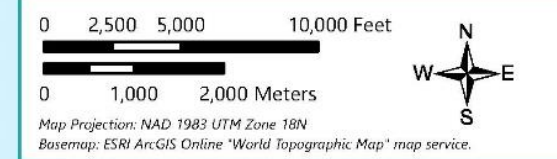
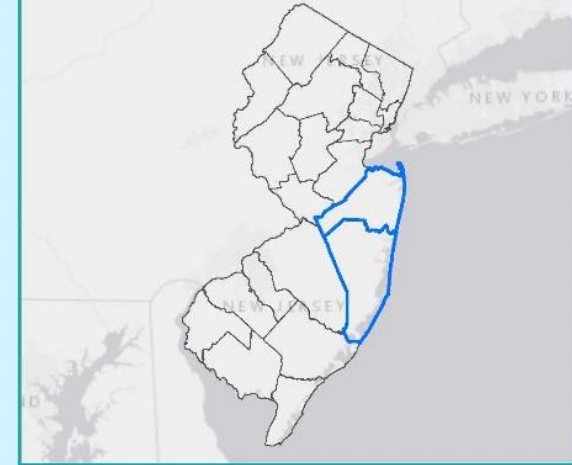


Figure 7.5-1
Sheet 2 of 2
Land Use / Land Cover
Landfall and Onshore Interconnection
Cable Route Options
Monmouth and Ocean County NJ

9/14/2023 11:20:08 Atlantic Shores Offshore Wind COP and Permitting 120438 COP NORTH Geographic Figures COP Section 7.2 Environmental Justice Areas New Jersey Onshore Interconnection Cable Route Sheet 1 of 12



LEGEND

- Census Block Group
- New Jersey Environmental Justice Area
- Low Income Population
- Minority Population
- Low Income and Minority Population
- Limited English Proficiency, Low Income, and Minority Population
- County Boundary
- Potential Landfall
- Larrabee Onshore Interconnection Cable Route Option
- Atlantic Onshore Interconnection Cable Route Option
- Atlantic or Larrabee Onshore Interconnection Cable Route Option
- Potential Atlantic Substation and/or Converter Station
- Potential Larrabee Substation and/or Converter Station
- Potential Point of Interconnection (POI)

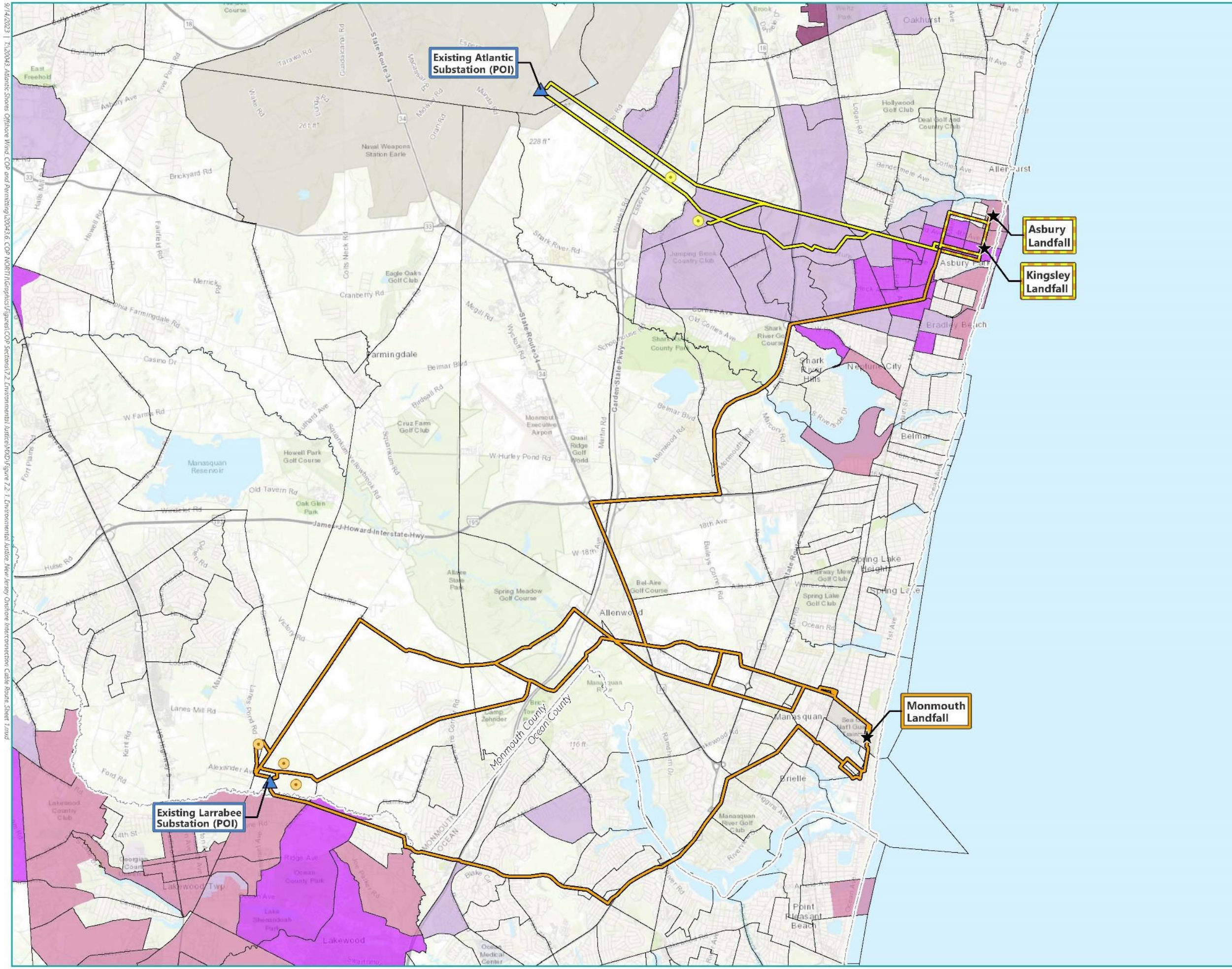
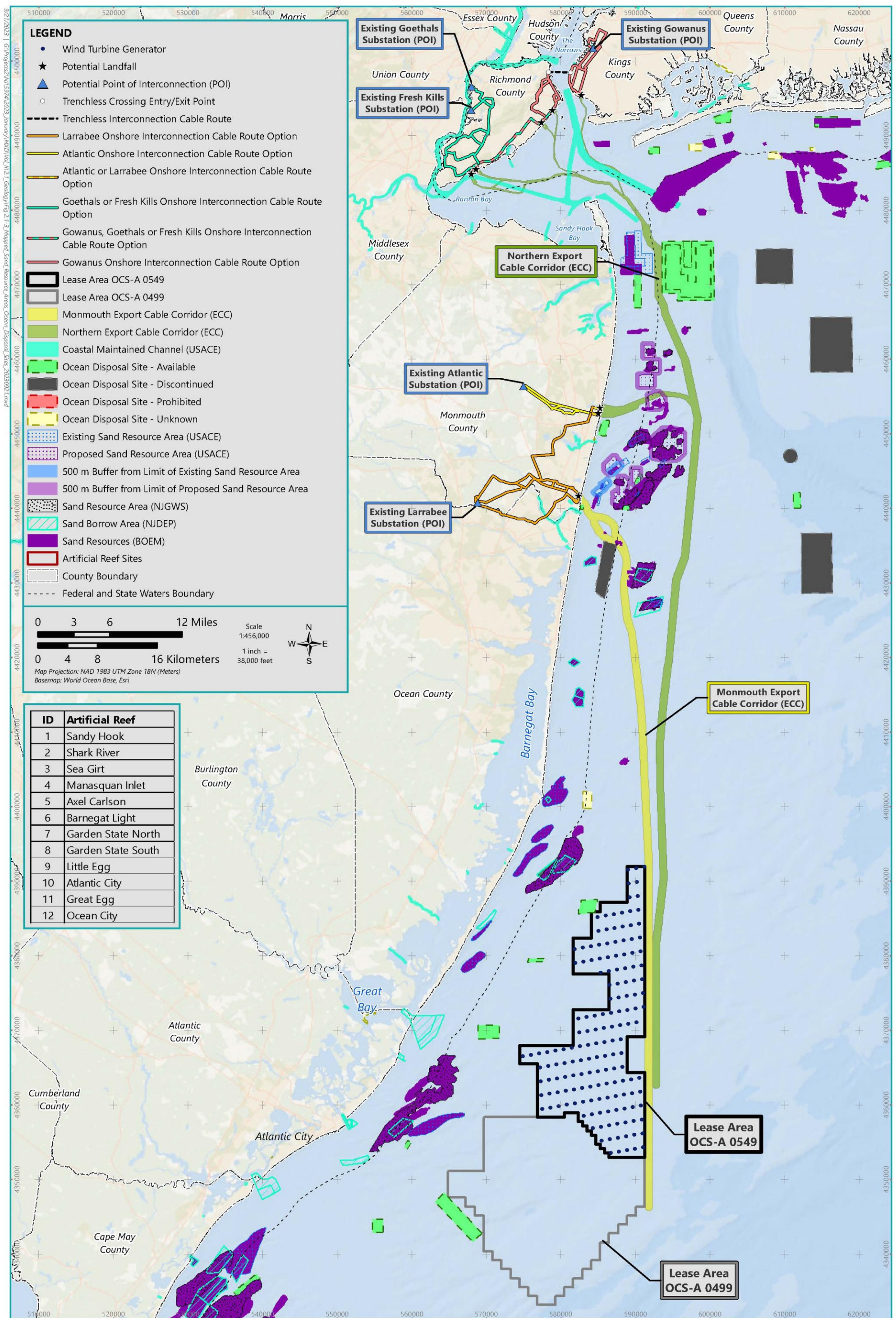


Figure 7.2-1
Sheet 1 of 12
*Environmental Justice Areas
Onshore Interconnection Cable Route
Monmouth and Ocean County, New Jersey*



LEGEND

- Wind Turbine Generator
- ★ Potential Landfall
- ▲ Potential Point of Interconnection (POI)
- Trenchless Crossing Entry/Exit Point
- - - Trenchless Interconnection Cable Route
- Larrabee Onshore Interconnection Cable Route Option
- Atlantic Onshore Interconnection Cable Route Option
- Atlantic or Larrabee Onshore Interconnection Cable Route Option
- Goethals or Fresh Kills Onshore Interconnection Cable Route Option
- Gowanus, Goethals or Fresh Kills Onshore Interconnection Cable Route Option
- Gowanus Onshore Interconnection Cable Route Option
- ▭ Lease Area OCS-A 0549
- ▭ Lease Area OCS-A 0499
- ▭ Monmouth Export Cable Corridor (ECC)
- ▭ Northern Export Cable Corridor (ECC)
- ▭ Coastal Maintained Channel (USACE)
- ▭ Ocean Disposal Site - Available
- ▭ Ocean Disposal Site - Discontinued
- ▭ Ocean Disposal Site - Prohibited
- ▭ Ocean Disposal Site - Unknown
- ▭ Existing Sand Resource Area (USACE)
- ▭ Proposed Sand Resource Area (USACE)
- ▭ 500 m Buffer from Limit of Existing Sand Resource Area
- ▭ 500 m Buffer from Limit of Proposed Sand Resource Area
- ▭ Sand Resource Area (NJGWS)
- ▭ Sand Borrow Area (NJDEP)
- ▭ Sand Resources (BOEM)
- ▭ Artificial Reef Sites
- - - County Boundary
- - - Federal and State Waters Boundary

0 3 6 12 Miles Scale 1:456,000
 0 4 8 16 Kilometers 1 inch = 38,000 feet

Map Projection: NAD 1983 UTM Zone 18N (Meters)
 Basemap: World Ocean Base, Esri

ID	Artificial Reef
1	Sandy Hook
2	Shark River
3	Sea Girt
4	Manasquan Inlet
5	Axel Carlson
6	Barnegat Light
7	Garden State North
8	Garden State South
9	Little Egg
10	Atlantic City
11	Great Egg
12	Ocean City

Figure 2.1-3
 Mapped Sand Resource Areas and Ocean Disposal Sites in Vicinity of Offshore Project Area

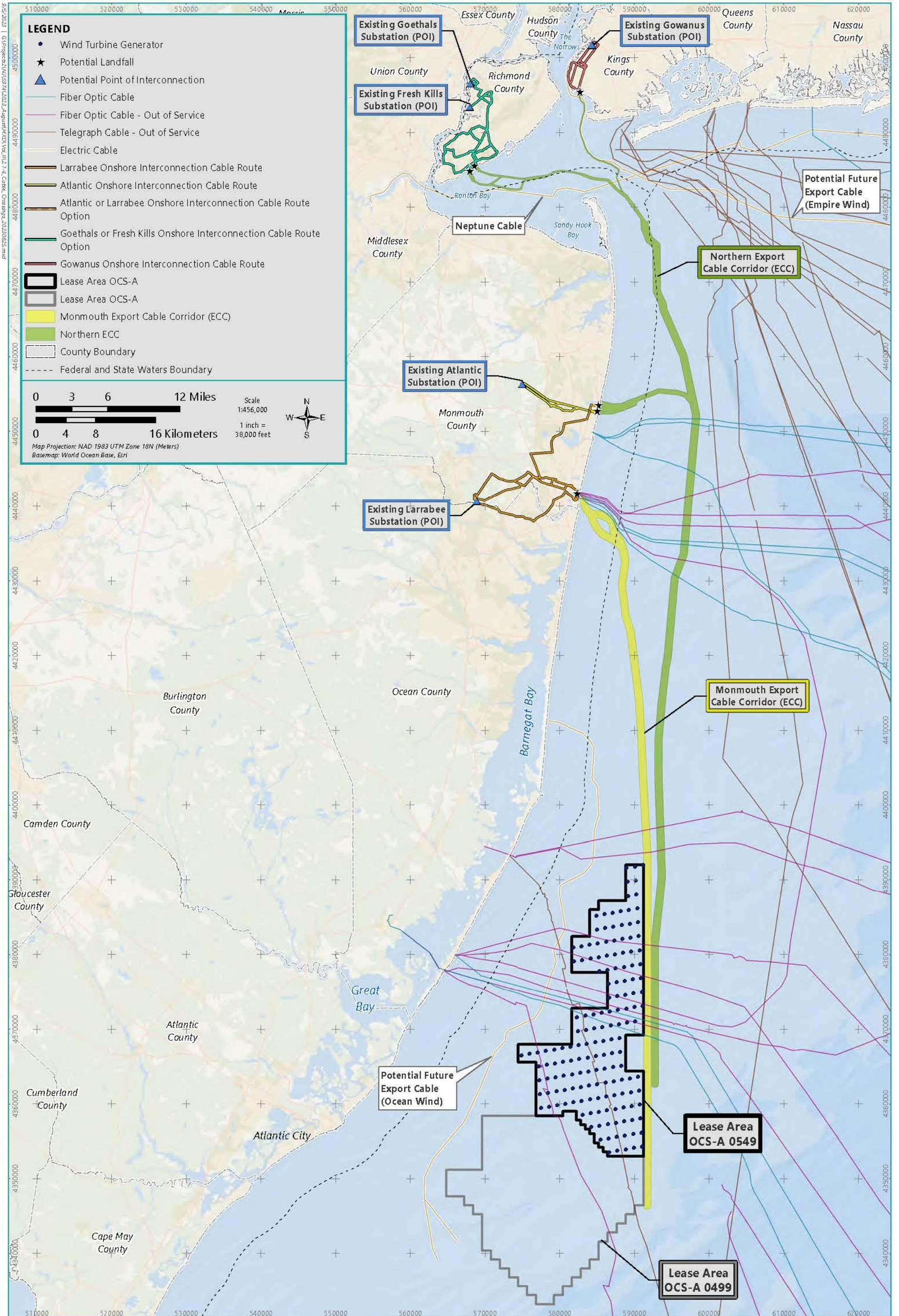


Figure 2.1-4
Cable Crossings

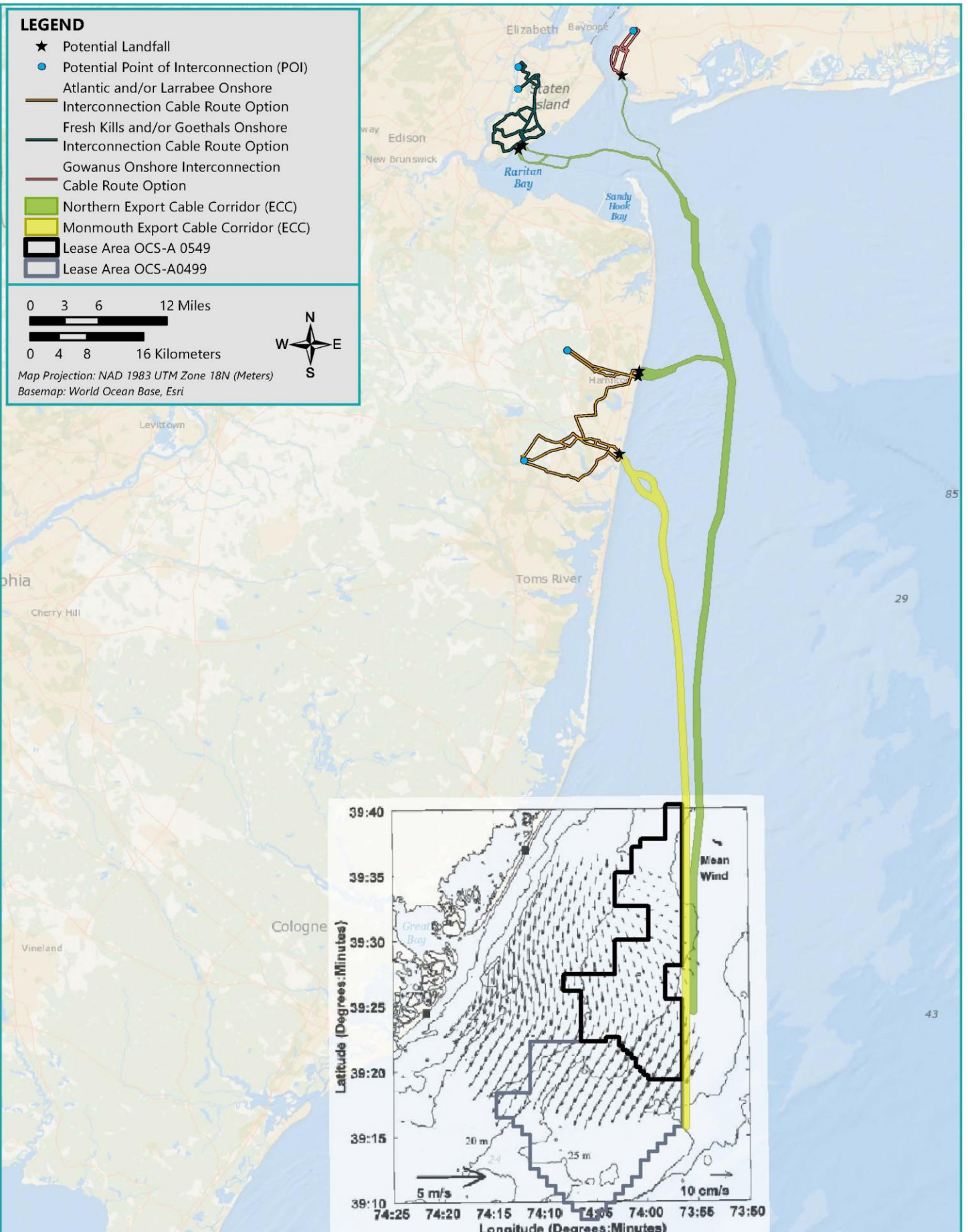
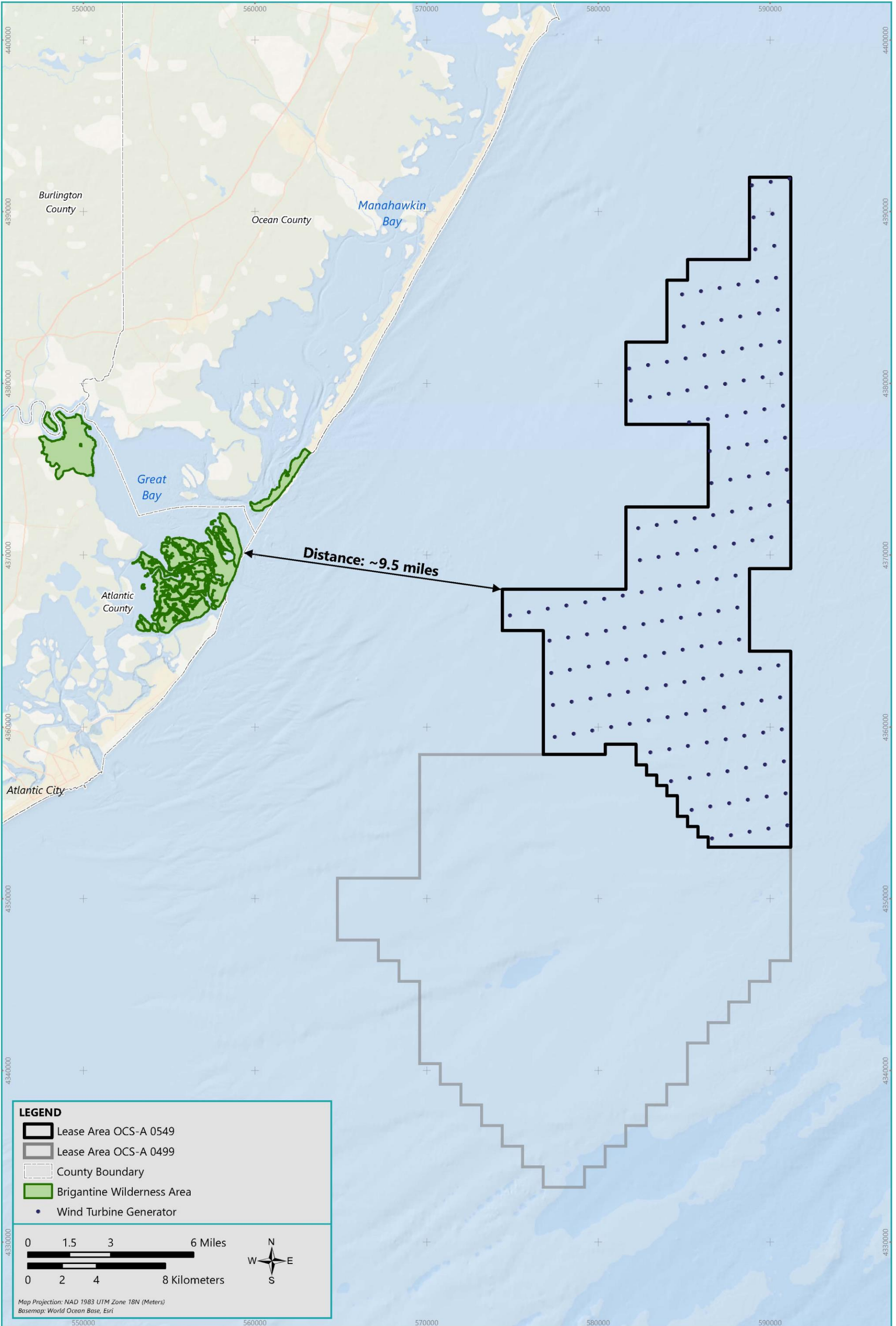


Figure 2.2-2
Annual Mean Surface Current near the Lease Area Measured by HF Radar
Offshore New Jersey

1/28/2022 | G:\Projects\MS1574\2023 January\MS1574_V01_A3_1_Air_Quailty_Fig_3.1_3_Lease_Area_in_Relation_to_Brigantine_Wilderness_Area_20221230.mxd



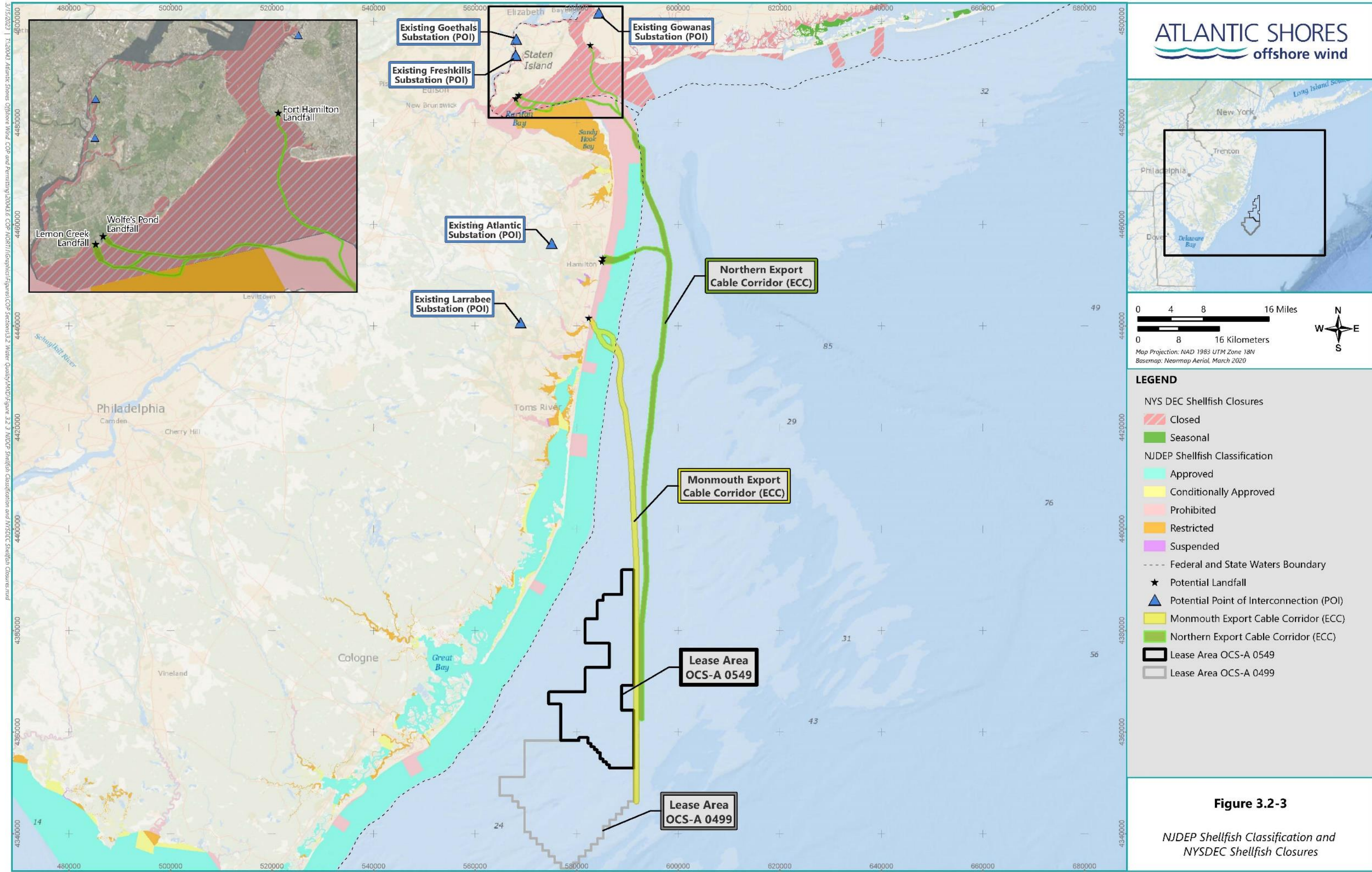
LEGEND

- Lease Area OCS-A 0549
- Lease Area OCS-A 0499
- County Boundary
- Brigantine Wilderness Area
- Wind Turbine Generator

0 1.5 3 6 Miles
0 2 4 8 Kilometers

Map Projection: NAD 1983 UTM Zone 18N (Meters)
Basemap: World Ocean Base, Esri

Figure 3.1-3
Lease Area in Relation to Brigantine Wilderness Area



7/13/2023 | 1752043 Atlantic Shores Offshore Wind COP and Permitting 120043 & COP NORTH Geophysical Figures COP Sections 3.2 - 4 - NJ Onshore Interconnection Cable Route - Groundwater Resources.mxd



LEGEND

Well Head Protection Areas

Public Non-Community Water Supply

- Tier 1: 2-Year
- Tier 2: 5-Year
- Tier 3: 12-Year

Well Head Protection Areas

Public Community Water Supply

- Tier 1: 2-Year
- Tier 2: 5-Year
- Tier 3: 12-Year

Deep Aquifer

- Composite confining unit
- Composite confining unit aquifer
- Kirkwood-Cohansey aquifer system

★ Potential Landfall

● Potential Atlantic Substation and/or Converter Station

▲ Potential Point of Interconnection (POI)

— Larrabee Onshore Interconnection Cable Route Option

— Atlantic Onshore Interconnection Cable Route Option

— Atlantic or Larrabee Onshore Interconnection Cable Route Option

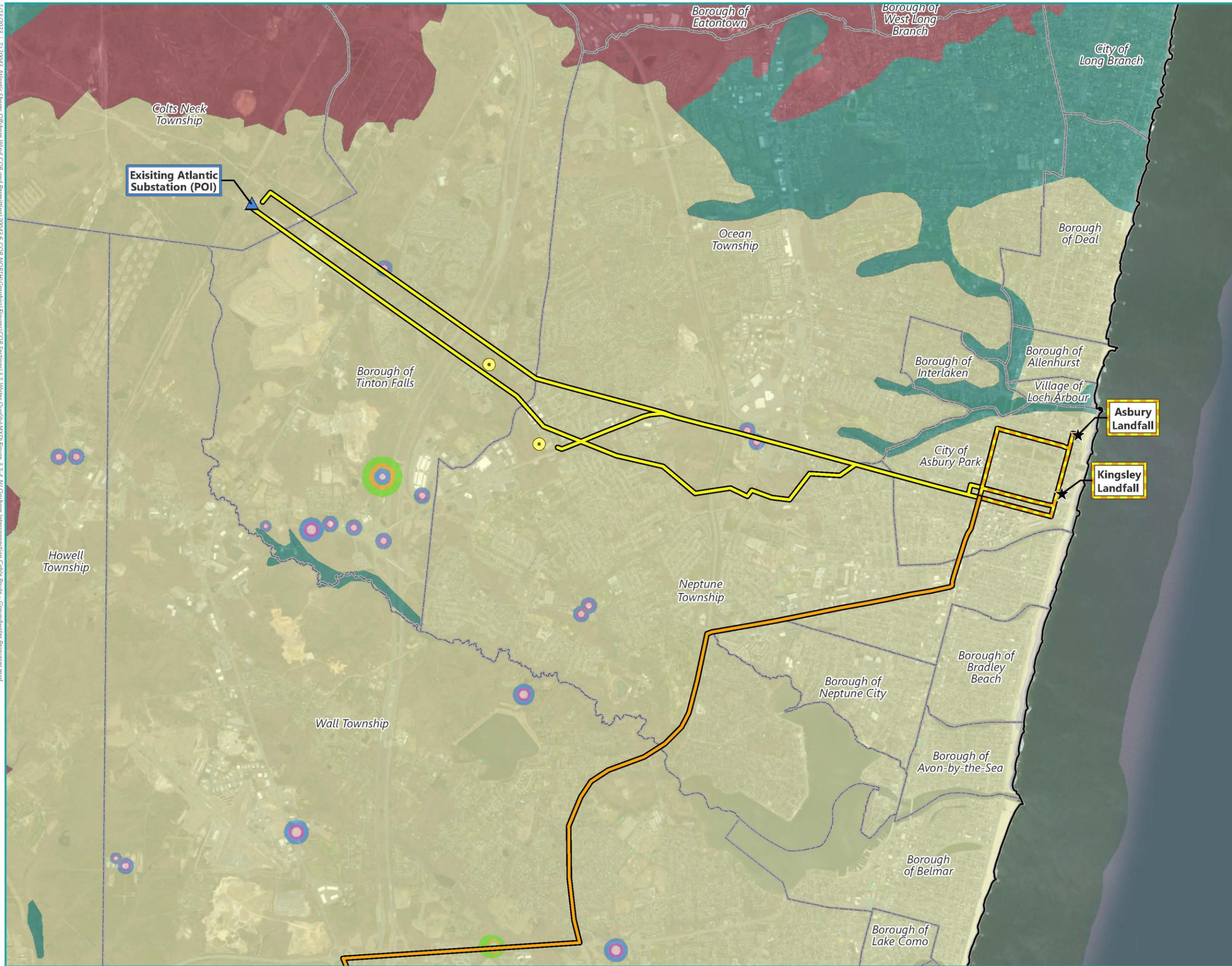
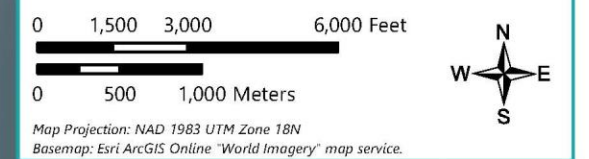


Figure 3.2-4
Sheet 1 of 2
Groundwater Resources
Landfall and Onshore Interconnection
Cable Route Options
Monmouth and Ocean County, New Jersey



Map Projection: NAD 1983 UTM Zone 18N
Basemap: Esri ArcGIS Online "World Imagery" map service.

LEGEND

- Tidelands
- Preserve
- State Park
- Potential Landfall
- Potential Atlantic Substation and/or Converter Station
- Potential Point of Interconnection (POI)
- Larrabee Onshore Interconnection Cable Route Option
- Atlantic Onshore Interconnection Cable Route Option
- Atlantic or Larrabee Onshore Interconnection Cable Route Option

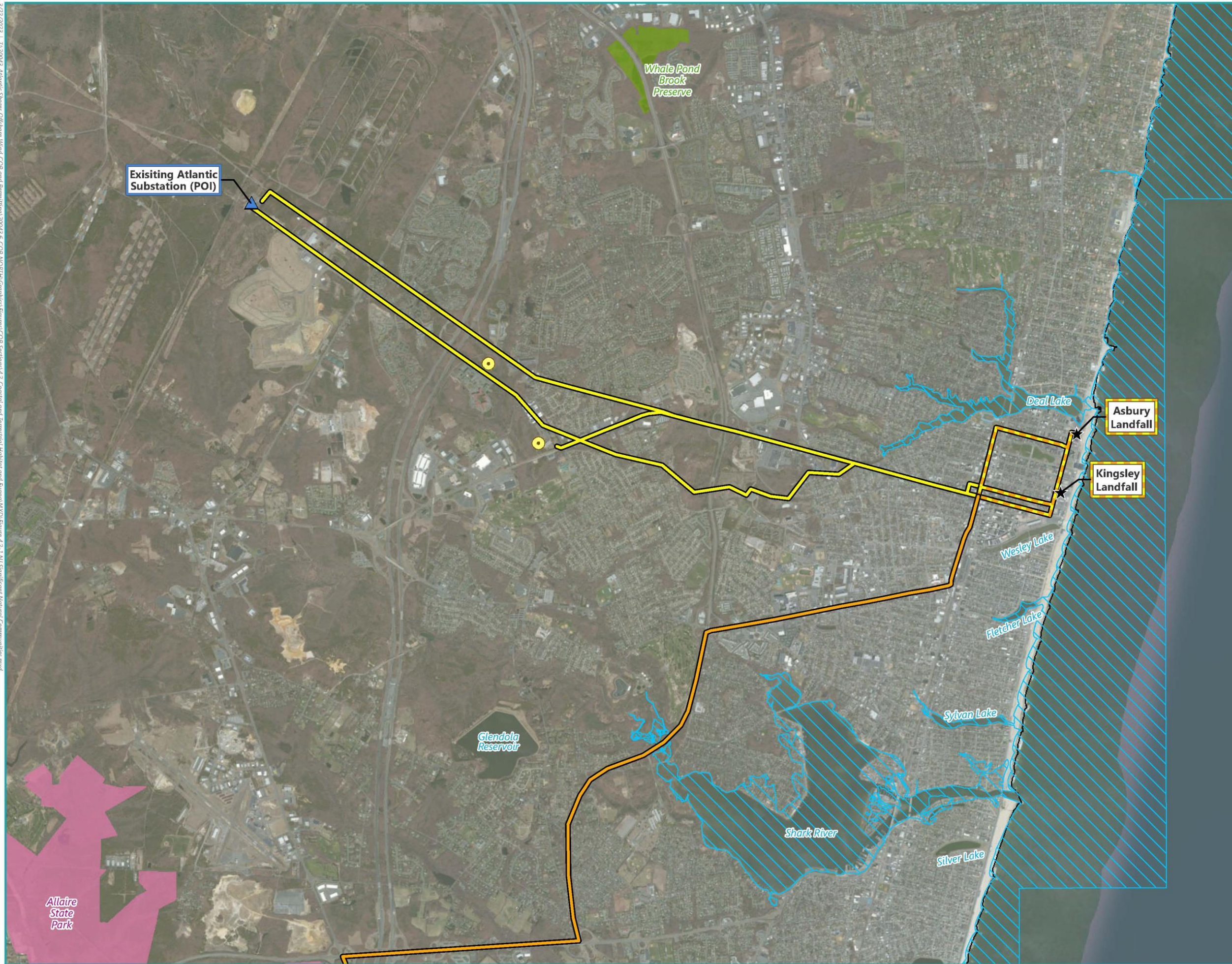
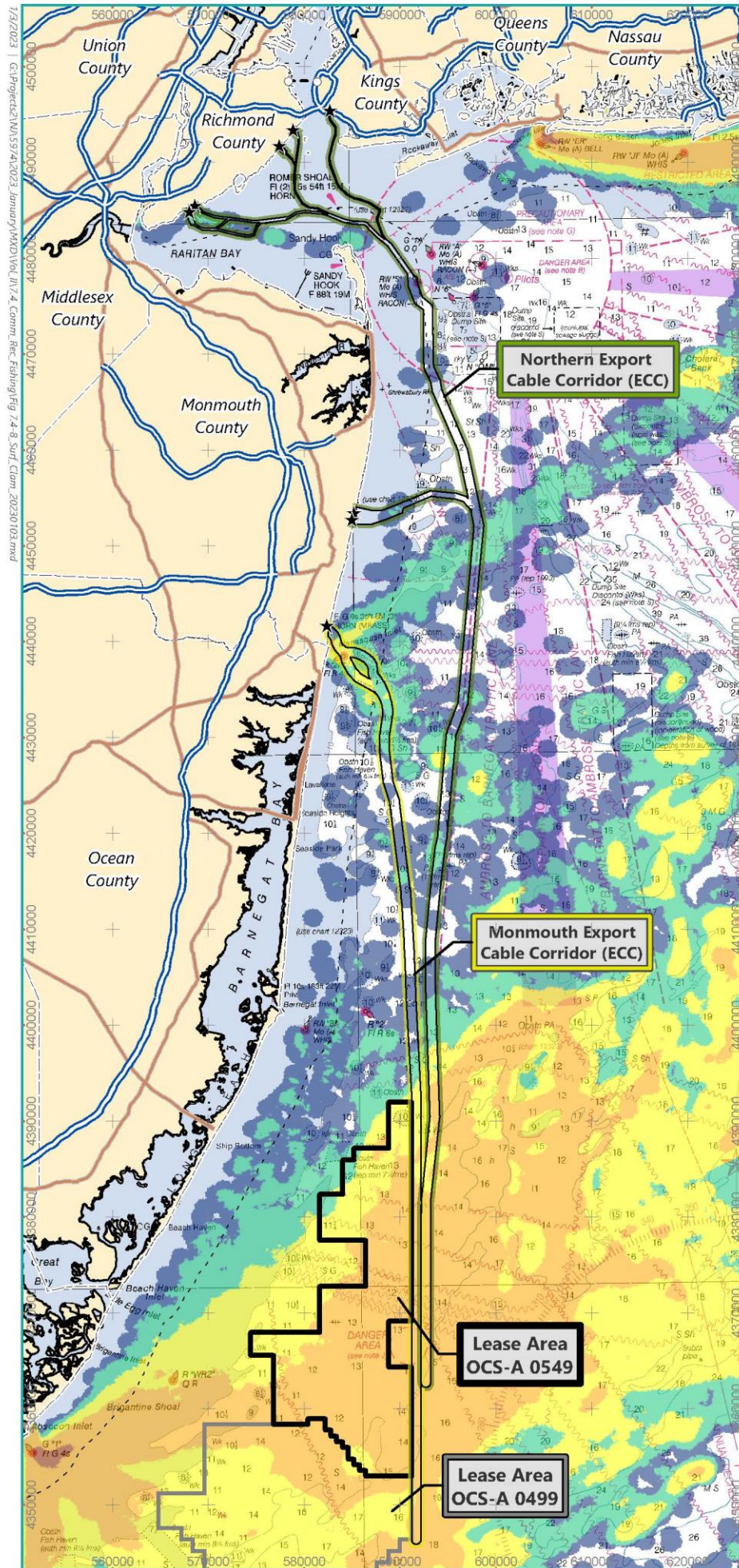


Figure 4.2-1
Sheet 1 of 2
NJ Significant Natural Communities
Landfall and Onshore Interconnection
Cable Route Options
Monmouth and Ocean County, New Jersey

ATLANTIC SHORES offshore wind



0 2.5 5 10 Miles

0 3 6 12 Kilometers



Basemap: Nautical Chart 12300, NOAA (Fathoms)

Map Projection: NAD 1983 UTM Zone 18N (Meters)

Data: National Marine Fisheries Service (NMFS) Vessel Trip Report (VTR),
Mid-Atlantic Regional Council on the Ocean (MARCO)

LEGEND

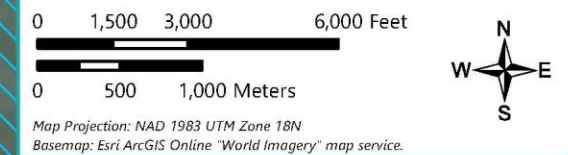
- Trenchless Crossing Entry/Exit Point
- ★ Potential Landfall
- ▭ Lease Area OCS-A 0549
- ▭ Lease Area OCS-A 0499
- ▭ Monmouth Export Cable Corridor (ECC)
- ▭ Northern Export Cable Corridor (ECC)
- Trenchless Interconnection Cable Route
- Federal and State Waters Boundary

Commercial Fishing Density

- Very High
- High
- Medium-High
- Medium-Low
- Low

Figure 7.4-8
Surf Clam
Commercial Fishing Density
Vessel Monitoring System Data
2015-2019

3/22/2023 | 1720043 Atlantic Shores Offshore Wind COP and Permitting 120043 & COP NORTHGIS\figs\COP_Sectors_4-2_Coastal and Terrestrial Habitat and Biome\IXD\Figure 4-2-1 NJ Significant Natural Communities.mxd



LEGEND

- Tidelands
- Preserve
- State Park
- Wildlife Management Area
- Potential Landfall
- Potential Larrabee Substation and/or Converter Station
- Potential Point of Interconnection (POI)
- Larrabee Onshore Interconnection Cable Route Option

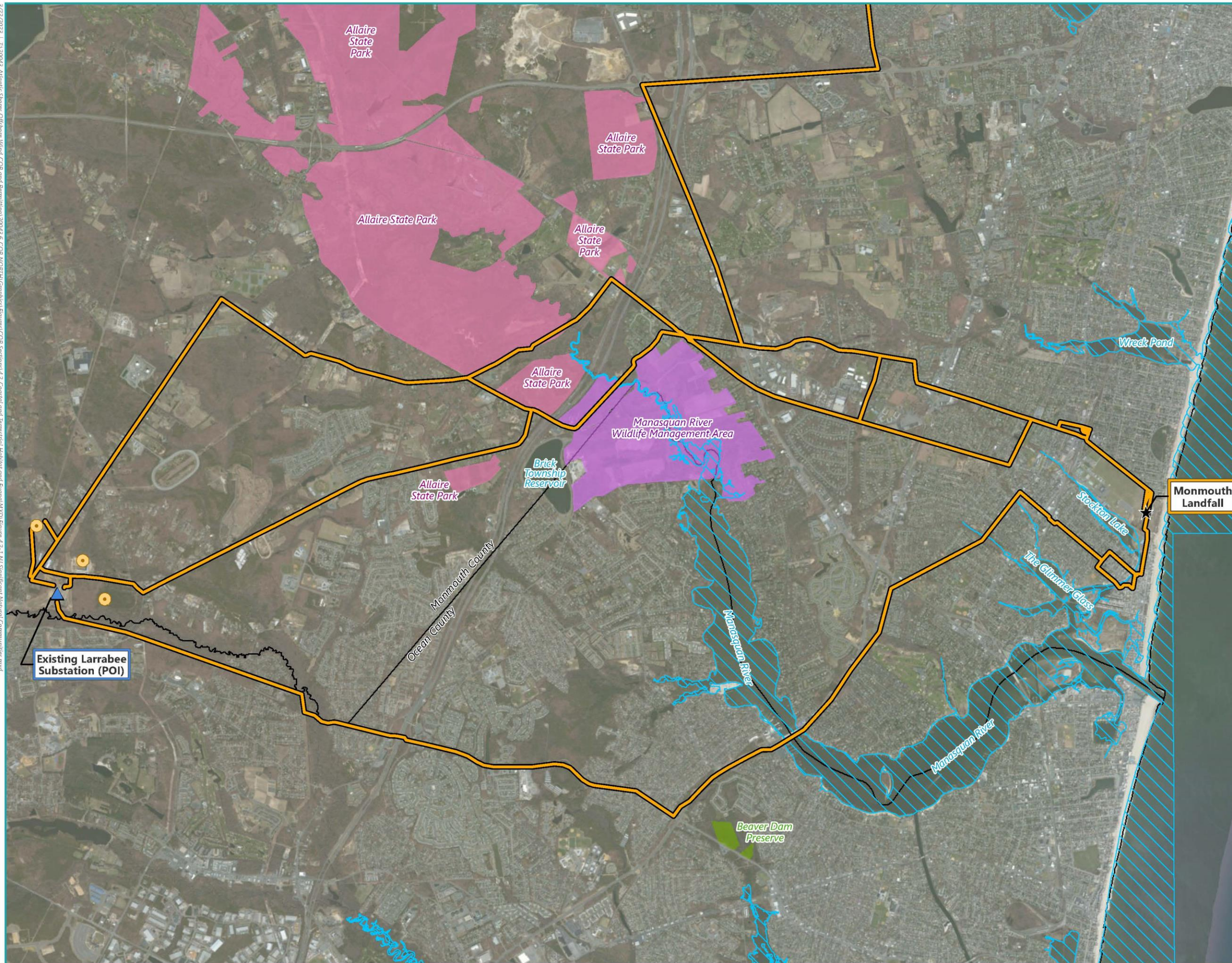
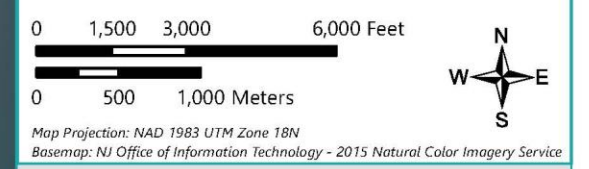


Figure 4.2-1
Sheet 2 of 2
NJ Significant Natural Communities
Landfall and Onshore Interconnection
Cable Route Options
Monmouth and Ocean County, New Jersey

7/16/2023 | 1720043 Atlantic Shores Offshore Wind COP and Permitting 20043 & COP NORI/Graphical Figures COP Sections 7.5 Land Use and Coastal Infrastructure Figures/AXD Figure 7.5-1 New Jersey Land Use



LEGEND

NLCD Land Use/Land Cover (2019)

- Agriculture
- Forested Land
- Developed Land
- Developed, Open Space
- Shrub/Scrub
- Herbaceous
- Barren Land
- Open Water
- Wetlands
- Potential Landfall
- Potential Atlantic Substation and/or Converter Station
- Potential Point of Interconnection (POI)
- Larrabee Onshore Interconnection Cable Route Option
- Atlantic Onshore Interconnection Cable Route Option
- Atlantic or Larrabee Onshore Interconnection Cable Route Option
- Municipal Boundary

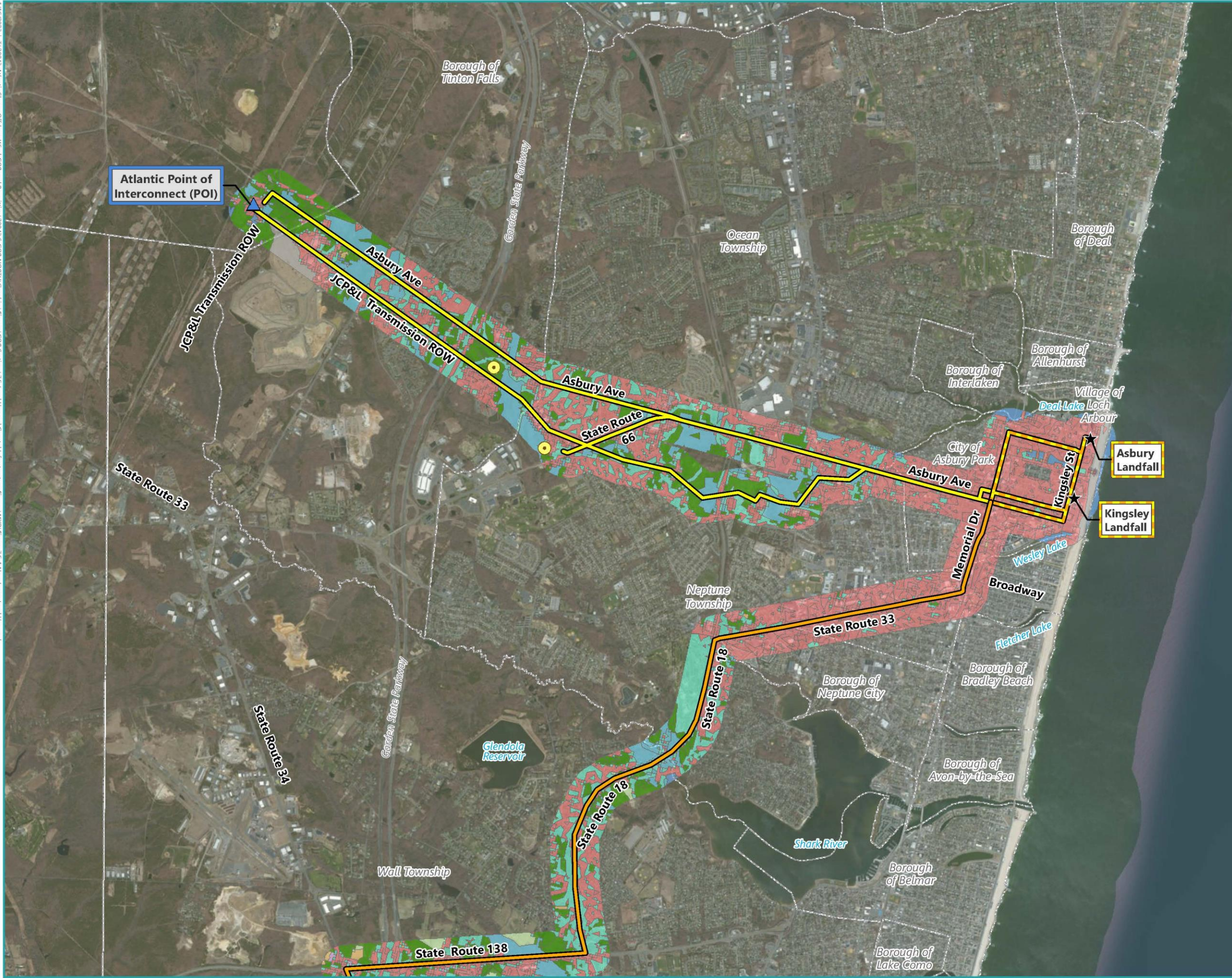
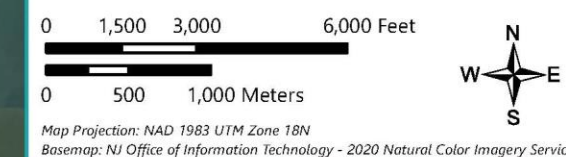
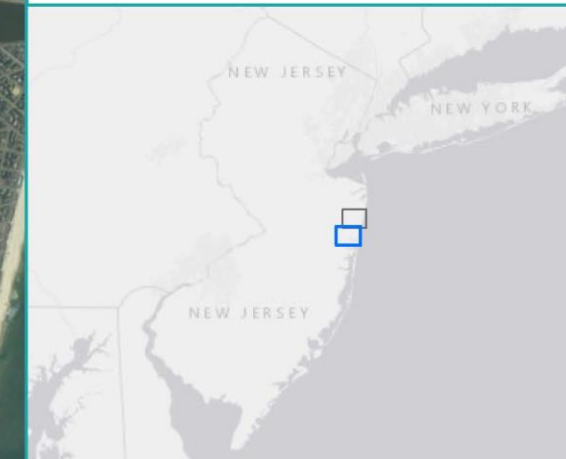


Figure 7.5-1
Sheet 1 of 2
Land Use / Land Cover
Landfall and Onshore Interconnection
Cable Route Options
Monmouth and Ocean County NJ

3/20/2023 | 1720043 Atlantic Shores Offshore Wind COP and Permitting 120043 & COP NORTHGraphics\Figures\COP Sections\7.9 Onshore Transportation and Traffic\Figures\XCD\Figure 7.9-1 New Jersey Onshore Landfalls and Interconnection Route.mxd



Map Projection: NAD 1983 UTM Zone 18N
Basemap: NJ Office of Information Technology - 2020 Natural Color Imagery Service

LEGEND

- Local Recreation Trail / Bike Path
- Railroad
- Military Installations Ranges and Training Areas
- Potential Landfall
- Potential Larrabee Substation and/or Converter Station
- Potential Point of Interconnection (POI)
- Larrabee Onshore Interconnection
- Cable Route Option

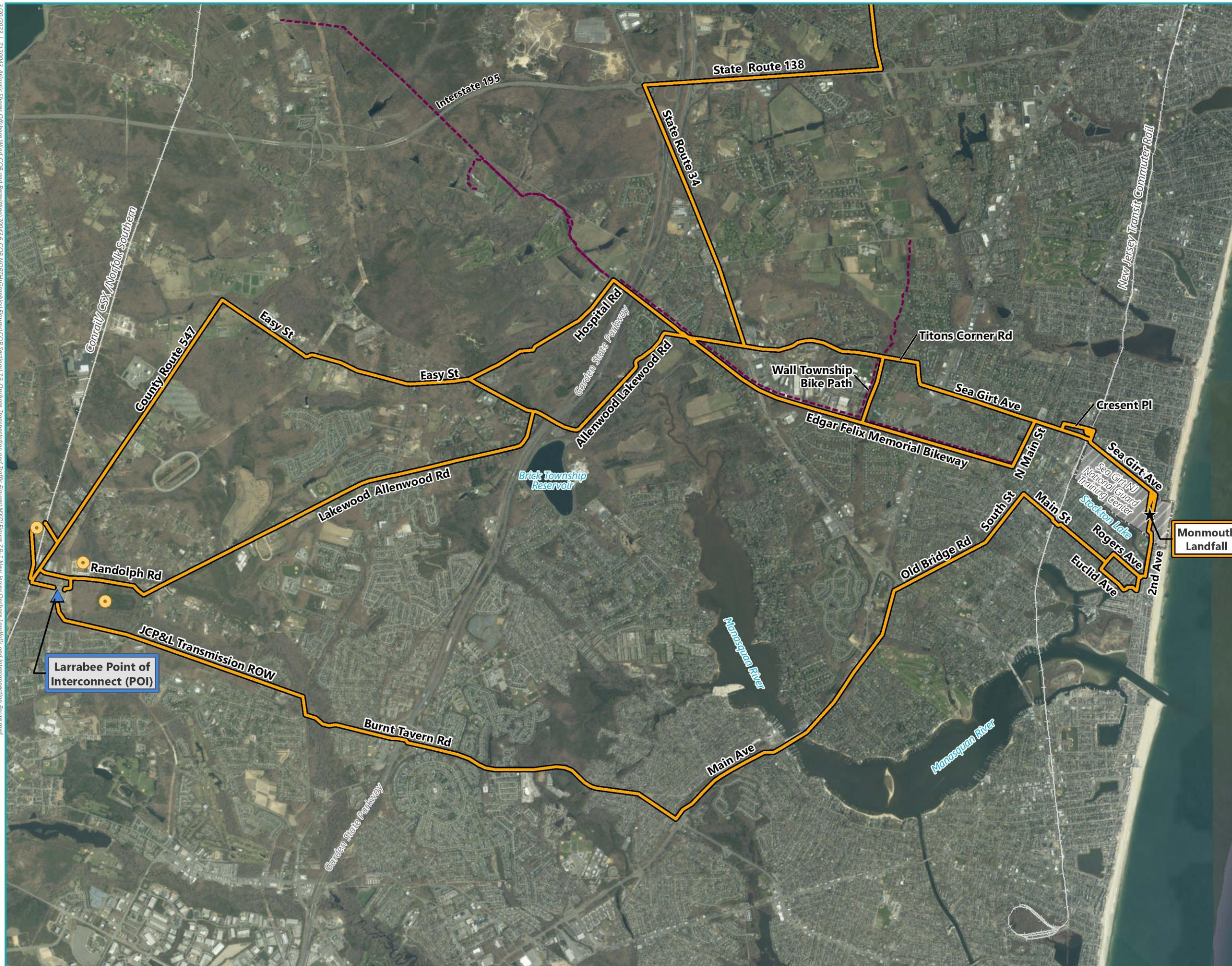
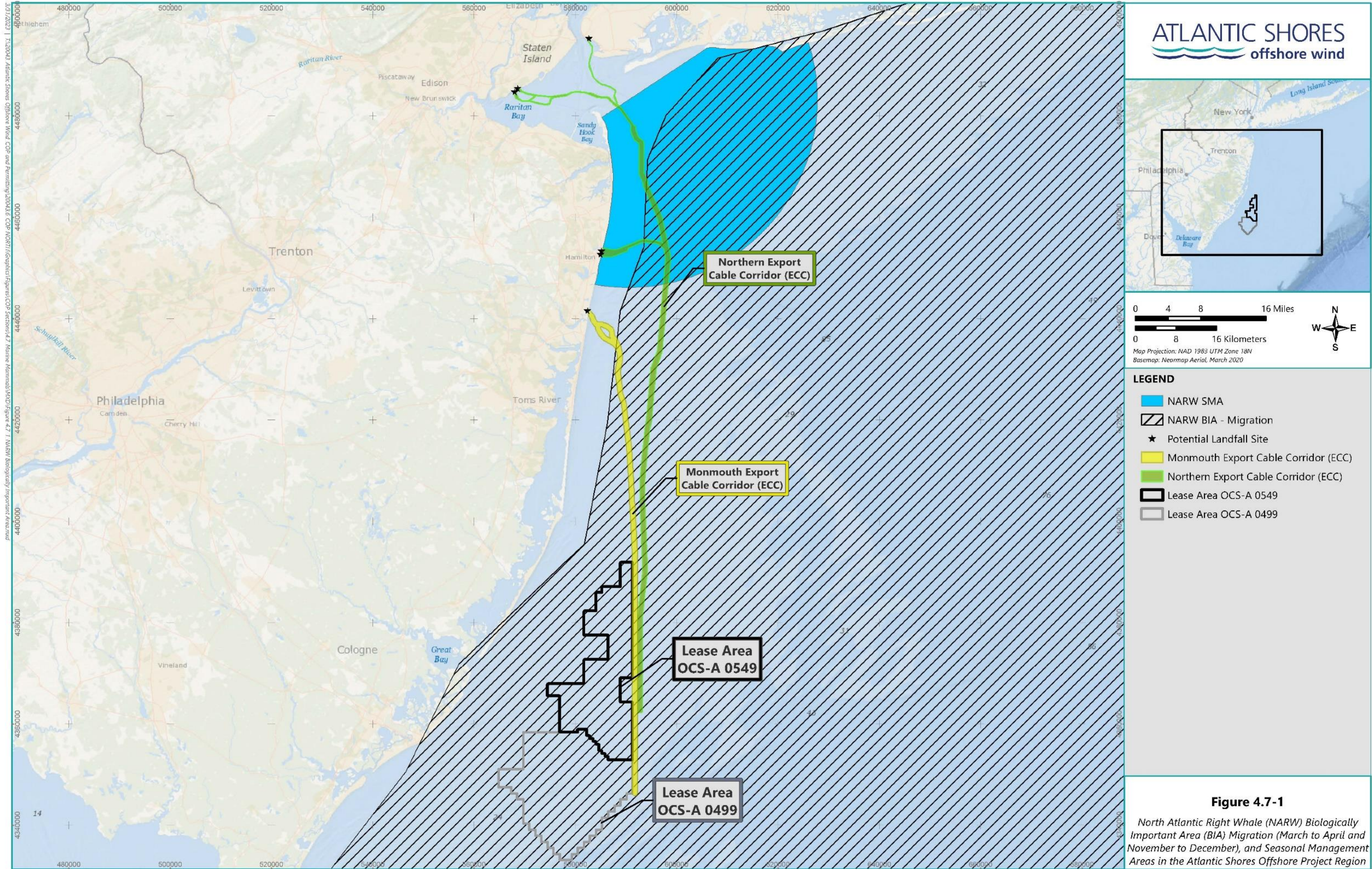


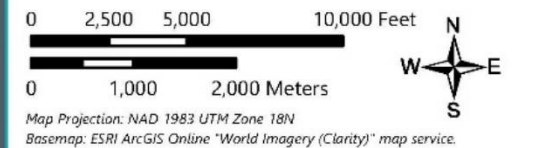
Figure 7.9-1
Sheet 2 of 2

Landfall and Onshore Interconnection
Cable Route Options
Monmouth and Ocean County NJ



3/31/2023 | 11:20:43 Atlantic Shores Offshore Wind COP and Permitting 2023 E COP NORTH Geographic Figures COP Section 4.7 NARW Biologically Important Area

3/20/2023 | 11:20:43 Atlantic Shores Offshore Wind COP and Permitting 000436 COP NORTH\Graphics\Figures\COP Sections\00 Arch\Technology Resources\MD\Figure 6.2 - New Jersey Physical Effects PAPE.mxd



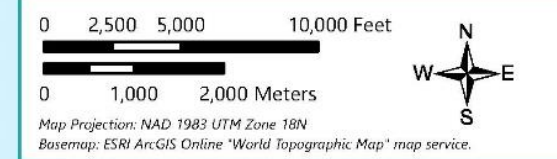
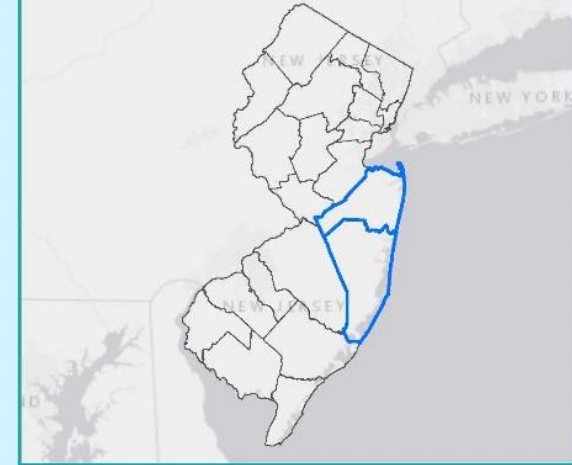
- LEGEND**
- Atlantic PAPE
 - Larrabee PAPE
 - ★ Potential Landfall
 - Potential Atlantic Substation and/or Converter Station
 - Potential Larrabee Substation and/or Converter Station
 - Potential Point of Interconnection (POI)
 - County Boundary



Figure 6.2-1

New Jersey Physical Effects PAPE

9/14/2023 11:20:08 Atlantic Shores Offshore Wind COP and Permitting 120438 COP NORTH Geographic Figures COP Section 7.2 Environmental Justice Areas New Jersey Onshore Interconnection Cable Route Sheet 1 of 12



LEGEND

- Census Block Group
- New Jersey Environmental Justice Area
- Low Income Population
- Minority Population
- Low Income and Minority Population
- Limited English Proficiency, Low Income, and Minority Population
- County Boundary
- Potential Landfall
- Larrabee Onshore Interconnection Cable Route Option
- Atlantic Onshore Interconnection Cable Route Option
- Atlantic or Larrabee Onshore Interconnection Cable Route Option
- Potential Atlantic Substation and/or Converter Station
- Potential Larrabee Substation and/or Converter Station
- Potential Point of Interconnection (POI)

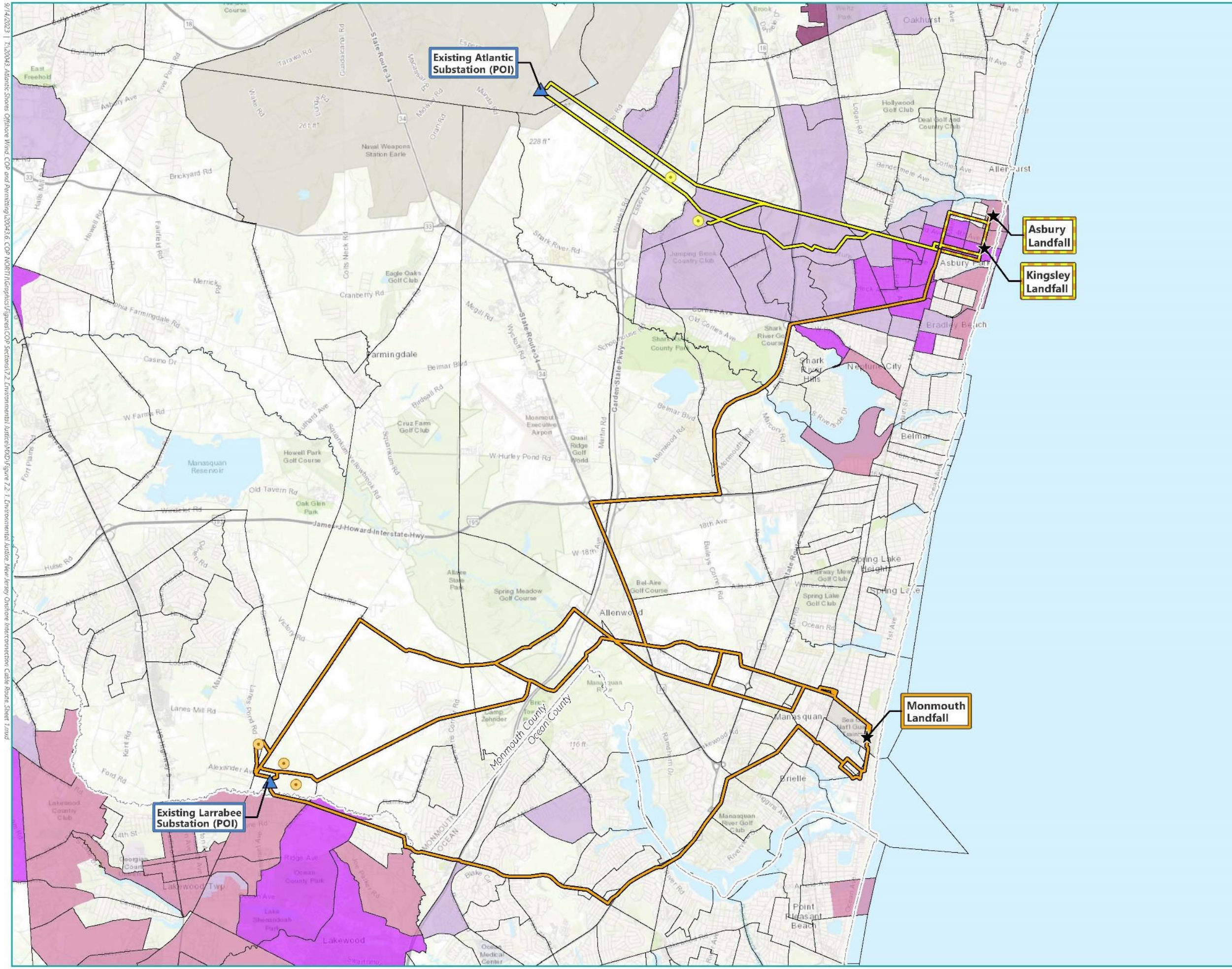
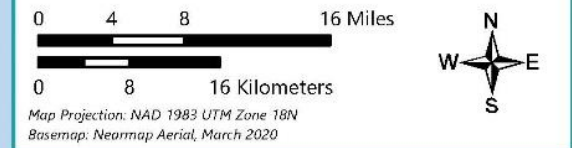
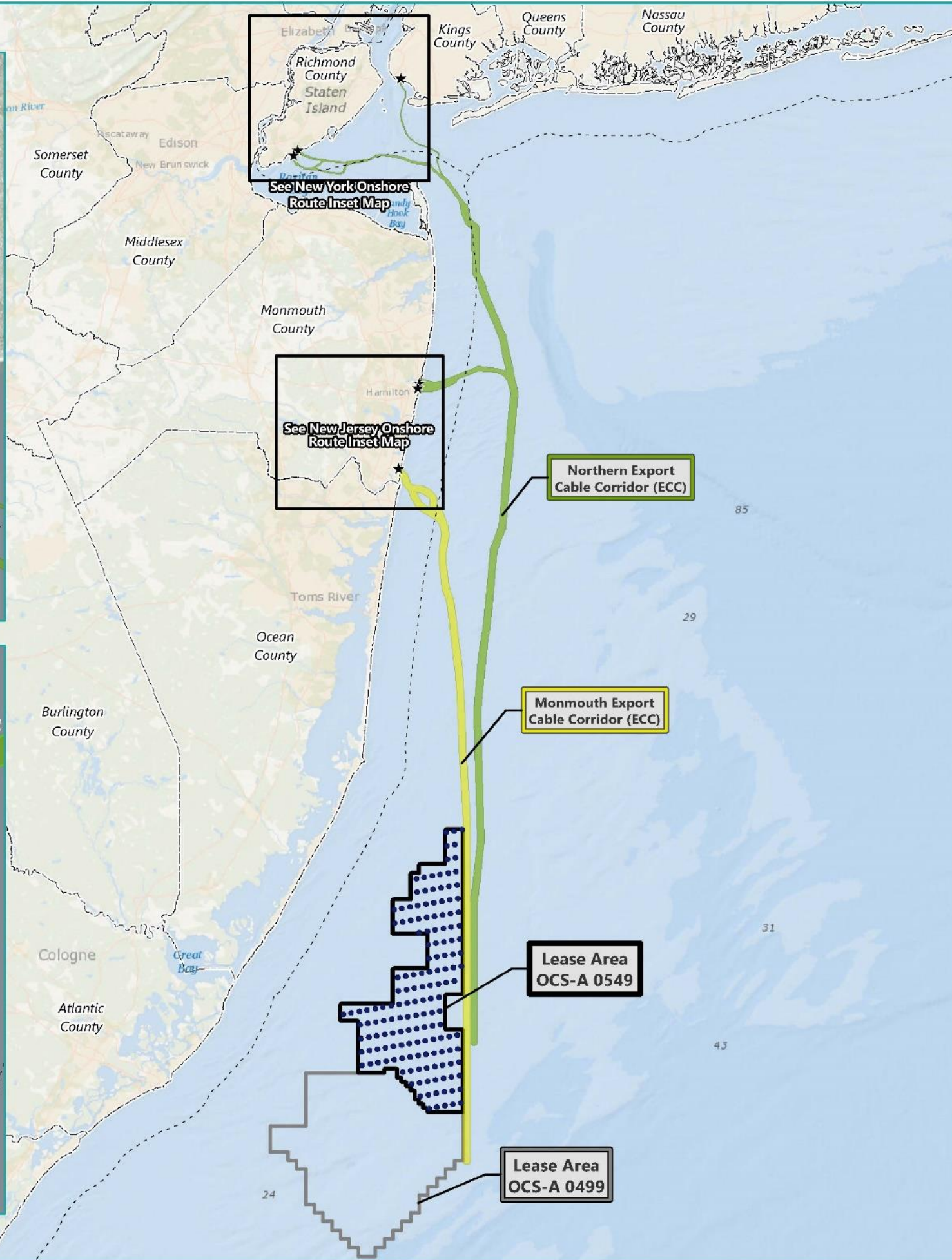


Figure 7.2-1
Sheet 1 of 12
*Environmental Justice Areas
Onshore Interconnection Cable Route
Monmouth and Ocean County, New Jersey*

New York Onshore Route Inset Map



New Jersey Onshore Route Inset Map

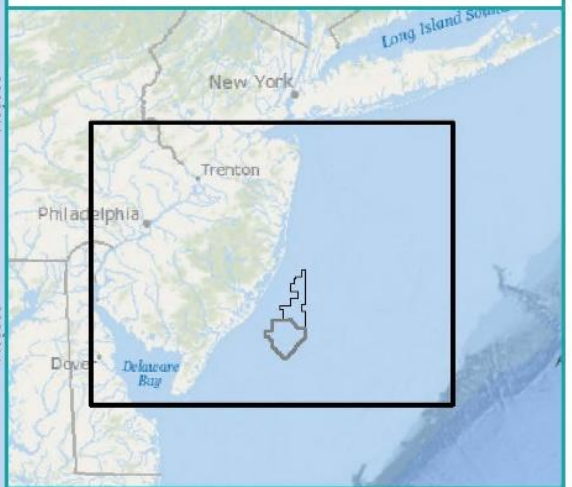
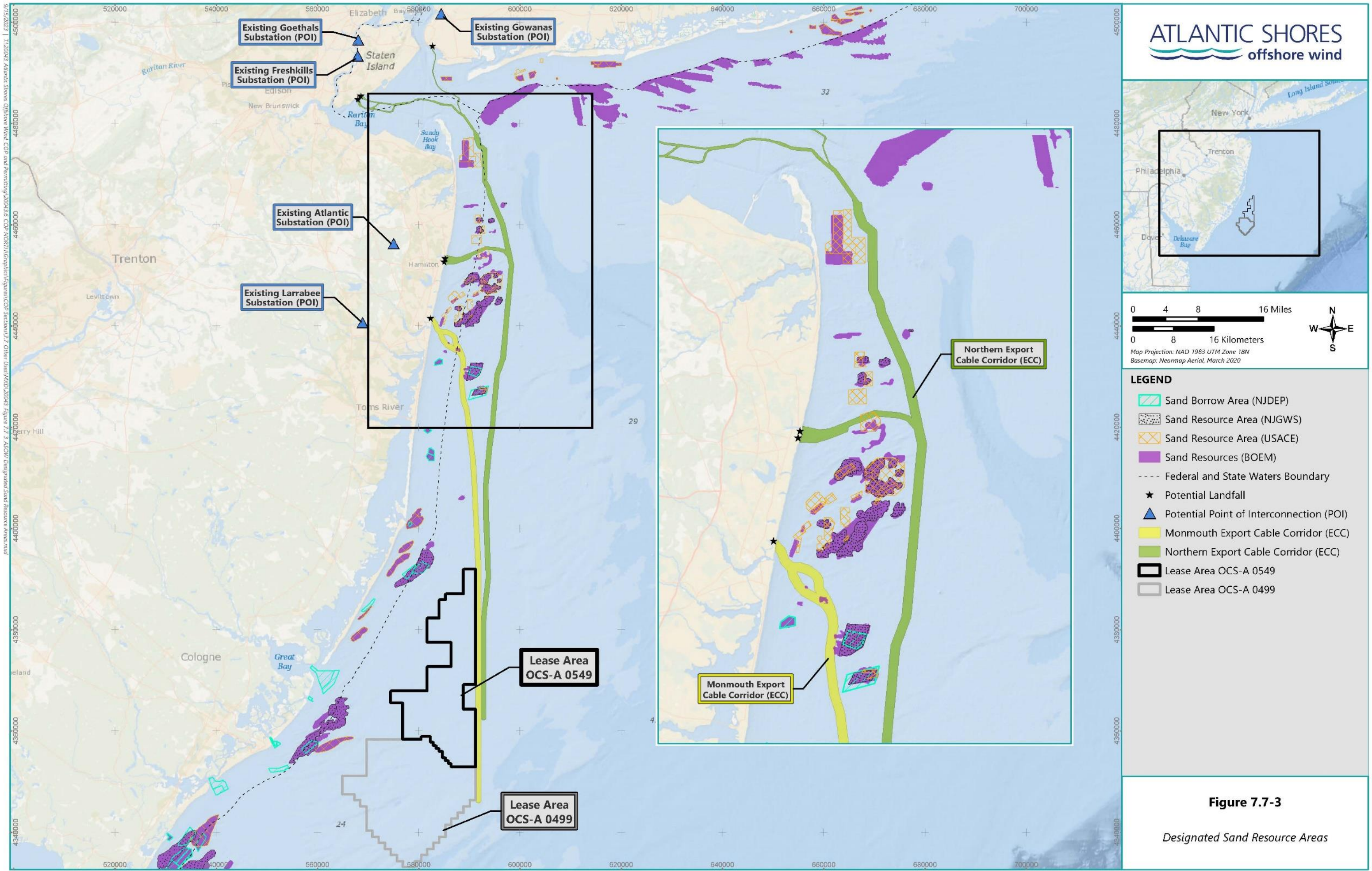


LEGEND

- Wind Turbine Generator
- ★ Potential Landfall
- Potential Atlantic Substation and/or Converter Station
- Potential Fresh Kills/Goethals Substation and/or Converter Station
- Potential Gowanus Substation and/or Converter Station
- Potential Larrabee Substation and/or Converter Station
- ▲ Potential Point of Interconnection (POI)
- Atlantic Onshore Interconnection Cable Route Option
- Larrabee Onshore Interconnection Cable Route Option
- Atlantic or Larrabee Onshore Interconnection Cable Route Option
- Gowanus Onshore Interconnection Cable Route Option
- Goethals or Fresh Kills Onshore Interconnection Cable Route Option
- Gowanus, Goethals or Fresh Kills Onshore Interconnection Cable Route Option
- - - Federal and State Waters Boundary
- ▭ County Boundary
- ▭ Monmouth Export Cable Corridor (ECC)
- ▭ Northern Export Cable Corridor (ECC)
- ▭ Lease Area OCS-A 0549
- ▭ Lease Area OCS-A 0499

Figure 1.0-1

Project Overview



- LEGEND**
- Sand Borrow Area (NJDEP)
 - Sand Resource Area (NJGWS)
 - Sand Resource Area (USACE)
 - Sand Resources (BOEM)
 - Federal and State Waters Boundary
 - ★ Potential Landfall
 - ▲ Potential Point of Interconnection (POI)
 - Monmouth Export Cable Corridor (ECC)
 - Northern Export Cable Corridor (ECC)
 - Lease Area OCS-A 0549
 - Lease Area OCS-A 0499

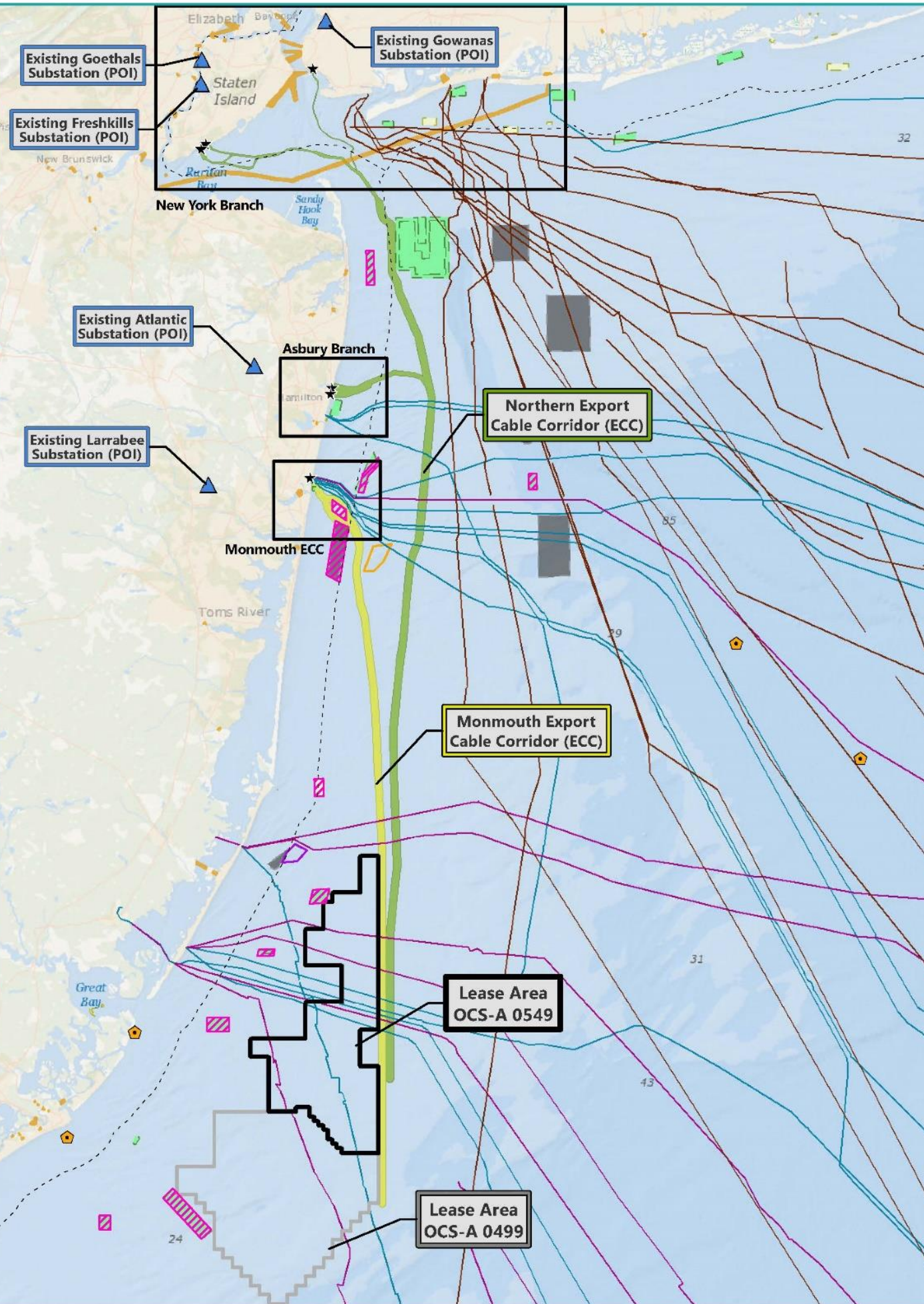
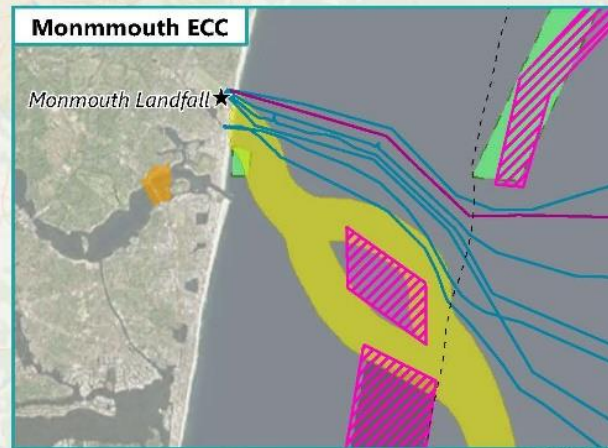
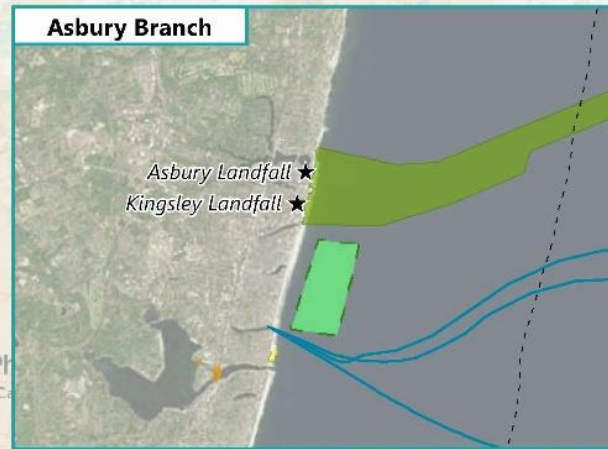
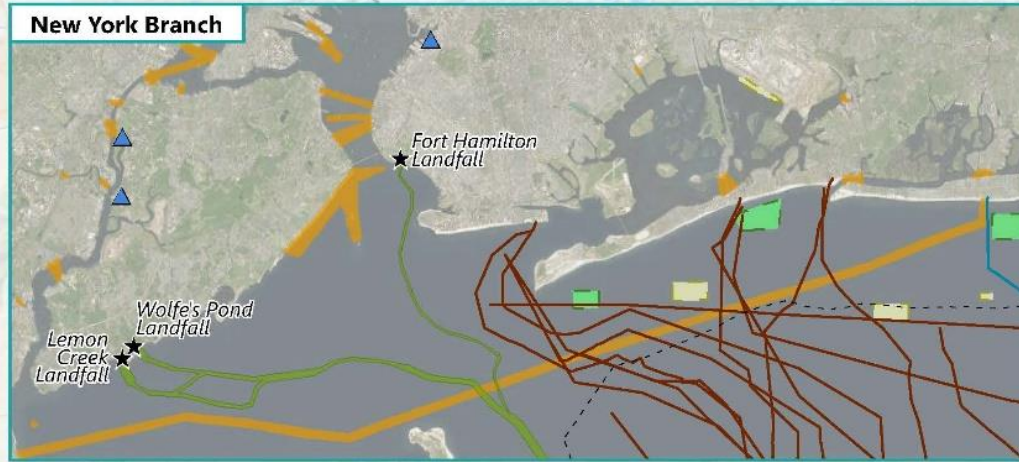
Figure 7.7-3

Designated Sand Resource Areas

9/15/2023 11:20:43 Atlantic Shores Offshore Wind COP and Permitting 2024.6 COP NORRI (Graphic) Figures COP Section 7.3 ASOW Designated Sand Resource Areas.mxd

9/6/2023 | 1.20043 Atlantic Shores Offshore Wind COP and Permitting 2004.6 COP NORTH Graphics Figures COP Sections 7.2 Other Uses MOA 2004.6 Figure 7.2.2 ASOW Other Marine Uses in the Vicinity of the Offshore Project Areas

ATLANTIC SHORES offshore wind

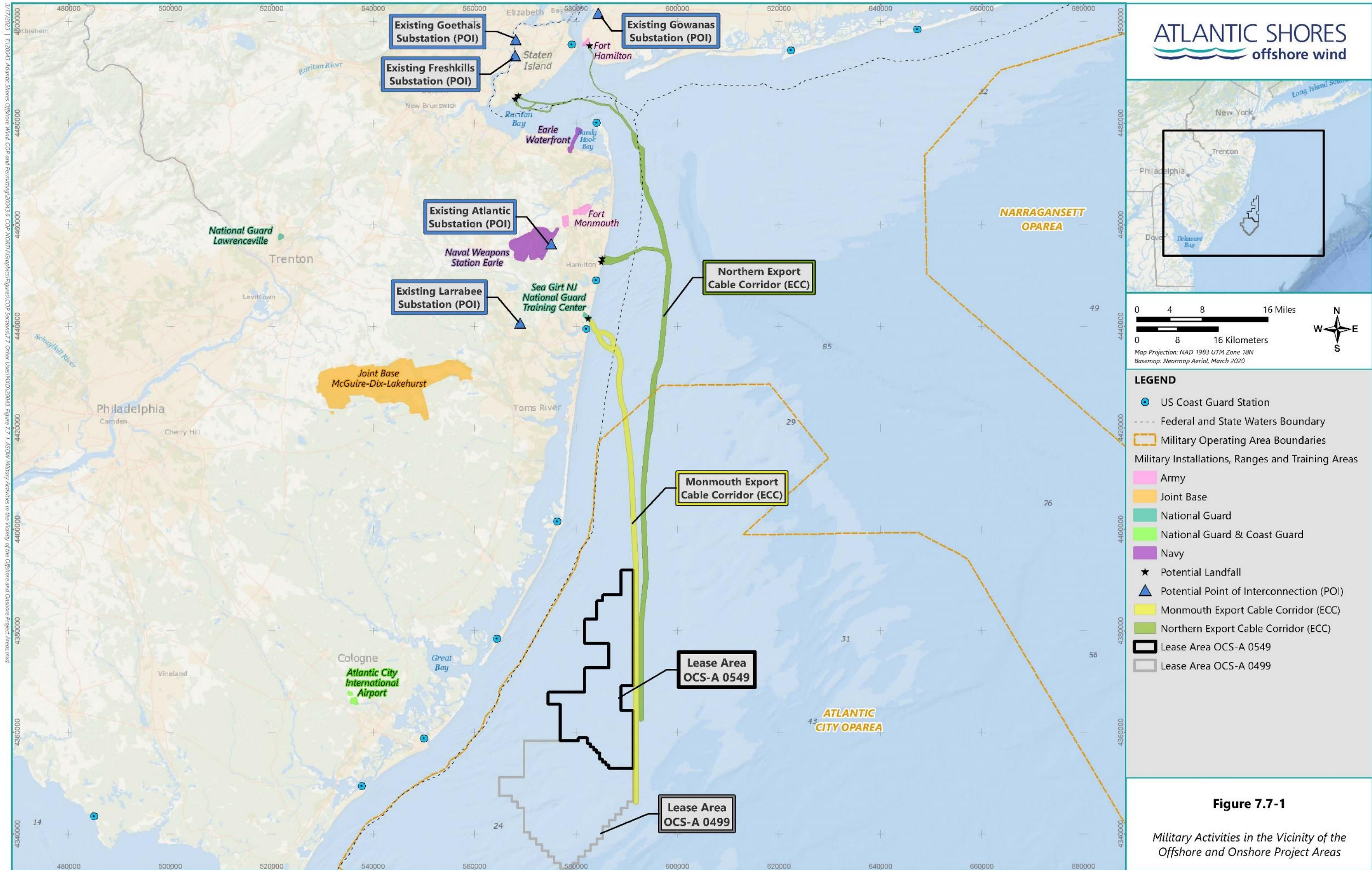


LEGEND

- Unexploded Ordnance Location
- Federal and State Waters Boundary
- Fiber Optic Cable
- Fiber Optic Cable - Out of Service
- Telegraph Cable
- Pipeline Area
- Artificial Reef Site
- Ocean Disposal Site - Available
- Ocean Disposal Site - Discontinued
- Ocean Disposal Site - Unknown
- Potential Landfall
- Potential Point of Interconnection (POI)
- Monmouth Export Cable Corridor (ECC)
- Northern Export Cable Corridor (ECC)
- Lease Area OCS-A 0549
- Lease Area OCS-A 0499

Figure 7.7-2

Other Marine Uses in the Vicinity of the Offshore and Onshore Project Areas



3/17/2023 11:20:03 Atlantic Shores Offshore Wind COP and Permitting 2023 2 COP NORTH Geographic Figures COP Section 7 Other User:MKD/2023 Figure 7.7.1 ASOW Military Activities in the Vicinity of the Offshore and Onshore Project Areas.mxd

