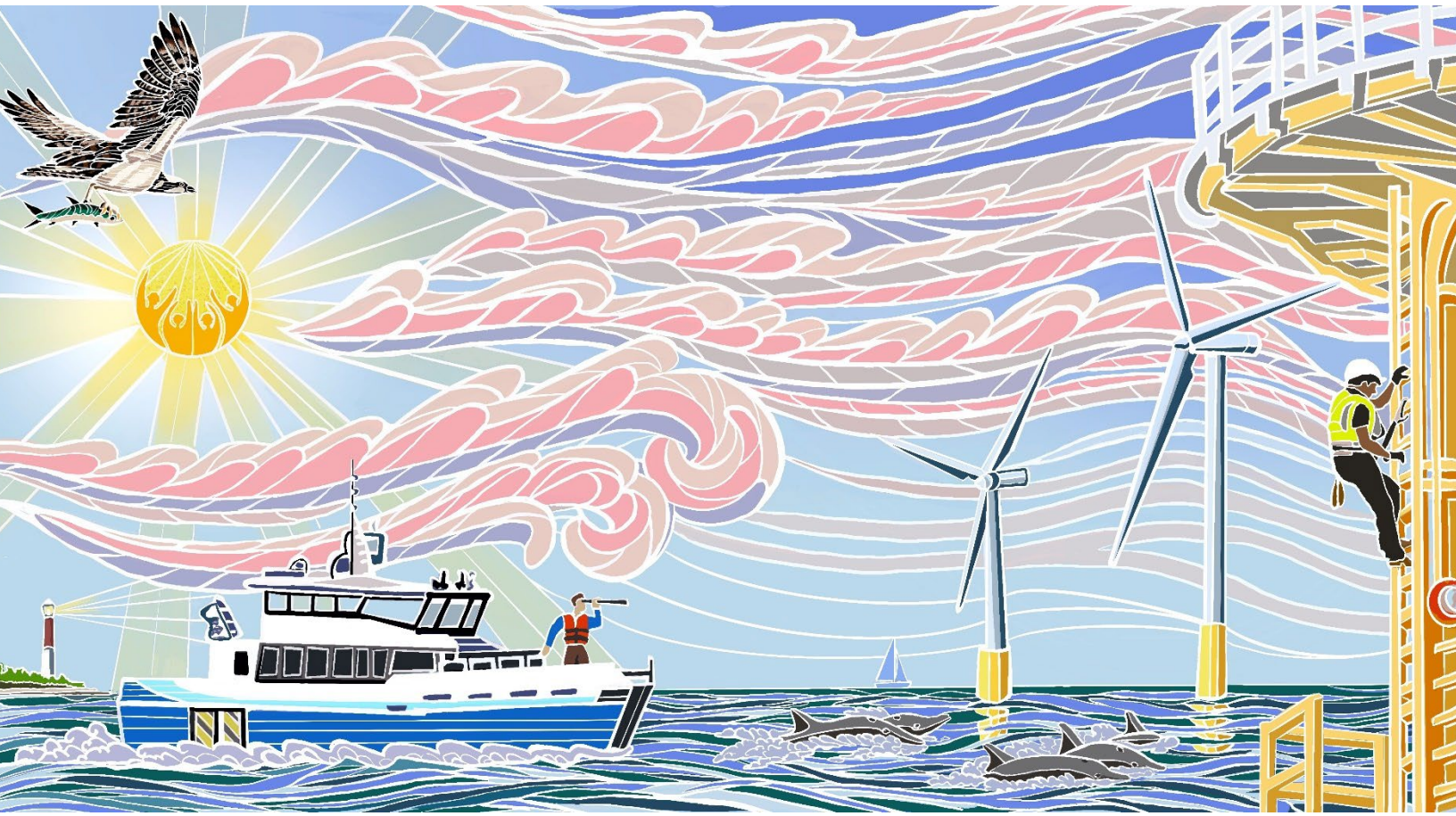

Appendix II-A7a

Natural Resources Conservation Service (NRCS) Mapped Soil Report – New Jersey

March 2024

Note: At the time of the initial development of this report, development of a substation and/or converter station at the Brook Road Site in Howell Township, New Jersey was considered. The Brook Road site is now expected to be prepared and developed as part of the State of New Jersey Board of Public Utility (BPU) State Agreement Approach 1.0 (SAA)1 to support the delivery of offshore wind energy onshore. In collaboration with the regional gird operator PJM Interconnection (PJM) NJBPU conducted a study that examined whether an integrated suite of open access transmission facilities designated to support the delivery of offshore wind energy onshore could best facilitate meeting New Jersey's expanded offshore wind goals. Under the SAA 1.0 Award all permitting for site preparation activities, including construction activities to provide a "fit for purpose" site, for an associated substation and/or converter station will be the responsibility of the BPU's SAA-awardee at the Brook Road Site. Therefore, impacts associated with site preparation have not been considered as part of the Project Design Envelope (PDE) of the Project. Discussion of the site has been retained as part of the study area in this report to demonstrate the completeness of Atlantic Shores' multi-year development efforts.

[1] New Jersey Board of Public Utilities Selects Offshore Wind Transmission Project Proposed by Mid-Atlantic Offshore Development and Jersey Central Power & Light Company in First in Nation State Agreement Approach Solicitation

Natural Resources Conservation Service Mapped Soils Report

New Jersey Onshore Project Study Area Borough of Point Pleasant, Lakewood Township, Borough of Brielle, Brick Township, Borough of Sea Girt, Borough of Neptune City, City of Asbury Park, Howell Township, Ocean Township, Borough of Tinton Falls, Colts Neck Township, Wall Township, Borough of Manasquan, and Neptune Township,
Monmouth and Ocean Counties, New Jersey

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March 2024

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1.0 INTRODUCTION

Atlantic Shores Offshore Wind, LLC (Atlantic Shores) is a 50/50 joint venture between EDF-RE Offshore Development, LLC (an indirect wholly owned subsidiary of EDF Renewables, Inc. [EDF Renewables]) and Shell New Energies US, LLC (Shell). Atlantic Shores is submitting this Construction and Operations Plan to the Bureau of Ocean Energy Management for the development of an offshore wind energy generation project (Project) within Lease Area OCS-A 0549 (the Lease Area).

EDR was contracted by Atlantic Shores to identify the Natural Resources Conservation Service (NRCS) soil types mapped within an approximate 150-foot area of the onshore portions of the proposed Project within the New Jersey, hereafter referred to as the Study Area (Figure 1). Onshore Project components in New Jersey consist of the landfall locations, onshore interconnection cable routes (cable routes), substation location options, and points of interconnection within Monmouth and Ocean County, New Jersey.

1.1 Purpose

The purpose of this report is to identify NRCS soil units that are mapped within the Study Area and describe specific notable characteristics such as physical attributes, soil inclusions, hydric status, acidity, and construction suitability.

This report is intended to provide the information necessary to guide the identification of onshore geotechnical investigation locations within the Study Area.

1.2 Data Sources

Information supporting this report was largely obtained from the NRCS Web Soil Survey (Soil Survey Staff, 2022) with supplemental information used from the NRCS List of Hydric Soils of the State of New Jersey (NRCS, 2022).

2.0 SOIL DESCRIPTIONS

The Study Area is located within the Coastal Plain physiographic province of the State of New Jersey. The geography in this province consists of unconsolidated deposits that dip gently to the southeast. The drainage divide between the Delaware River and the Atlantic Ocean contains mostly flat land with a maximum elevation of approximately 391 feet. The streams and waterbodies that flow northwest to the Delaware River consist of narrow valleys and have steeper gradients than the streams that flow to the southeast. Elevations within the Study Area range from 0 to approximately 178 feet above mean sea level.

Sections 2.1 and 2.2 identifies the soil types mapped within the Study Area, provides a physical description and summary of other soil characteristics such as hydric rating, acidity, and construction limitations.

2.1 Mapped Soil Types

A total of 43 soil types are mapped within the Study Area as shown in Figure 2. Table 1 summarizes the soil types, slope, inclusions, and acres within the Study Area.

Table 1. Study Area Mapped Soils

Mapping Unit Symbol	Series	Slope (%)	Area in Study Area (Acres)	Soil Series Inclusions
AptAv	Appoquinimink-Transquaking-Mispillion complex	0 to 1	4.5	Hammonton (5%)
AtsAO	Atsion sand	0 to 2	208.4	Berryland, occasionally flooded (5%), Lakehurst (5%)
BerAr	Berryland sand	0 to 2	4.3	Mullica, rarely flooded (5%), Atsion (5%), and Manahawkin, frequently flooded (5%)
BerAt	Berryland sand	0 to 2	90.2	Mullica, rarely flooded (5%), Atsion (5%), and Manahawkin, frequently flooded (5%)
DocBO	Downer loamy sand	0 to 5	10.0	Hammonton (10%), Atsion (5%), and Evesboro (5%)
DocCO	Downer loamy sand	5 to 10	71.4	Galestown (10%), Ingleside (5%), and Hammonton (5%)
DoeAO	Downer sandy loam	0 to 2	10.5	Galestown (10%), Ingleside (5%), and Hammonton (5%)

Mapping Unit Symbol	Series	Slope (%)	Area in Study Area (Acres)	Soil Series Inclusions
DoeBO	Downer sandy loam	2 to 5	188.0	Galestown (10%), Ingleside (5%), and Hammonton (5%)
DouB	Downer-Urban land complex	0 to 5	99.6	Sassafras (5%) and Woodstown (5%)
EkaAr	Elkton loam	0 to 2	25.5	Woodstown (5%), Fallsington (5%), Othello (5%)
EveB	Evesboro sand	0 to 5	76.6	Lakehurst (5%), Atsion (5%), Mullica, rarely flooded (5%), and Downer (5%)
EveC	Evesboro sand	5 to 10	33.7	Downer (5%)
EveD	Evesboro sand	10 to 15	36.0	Downer (5%)
EveE	Evesboro sand, 15 to 25 percent slopes	15 to 25	15.5	Westphalia (5%)
EvuB	Evesboro-Urban land complex	0 to 5	79.1	Lakehurst (5%), Downer (5%)
FapA	Fallsington loams	0 to 2	4.2	Woodstown (8%), Hammonton (7%), Mullica, undrained (5%), and Othello (5%)
FrrC	Freehold-Urban land complex	0 to 10	8.9	Coltons Neck (5%), Collington (5%)
HboB	Hammonton sandy loam	2 to 5	42.2	Glassboro (5%), Fallsington (5%), and Downer (5%)
HofB	Holmdel-Urban land complex	0 to 5	1.0	Shrewsbury (5%), Collington (5%), Freehold (5%)
HumAt	Humaquepts	0 to 3	67.1	Atsion (5%), Manahawkin, frequently flooded (5%), and Mullica, occasionally flooded (5%)
KkgB	Klej loamy sand	0 to 5	280.4	Atsion (5%) and Humaquepts, frequently flooded (5%)

Mapping Unit Symbol	Series	Slope (%)	Area in Study Area (Acres)	Soil Series Inclusions
KkgkB	Klej loamy sand	0 to 5	7.5	Atsion (5%), Shrewsbury (5%)
KkhB	Klej loamy sand-Urban land complex	0 to 5	30.7	Downer (5%), Atsion (5%), Evesboro (5%)
LakB	Lakehurst sand	0 to 5	94.1	Quakerbridge (5%), Atsion, rarely flooded (5%), and Berryland, rarely flooded (5%)
LasB	Lakewood sand	0 to 5	129.8	Quakerbridge (5%), Atsion, rarely flooded (5%), and Lakehurst (5%)
LasC	Lakewood sand	5 to 10	30.4	Evesboro (5%), Atsion, rarely flooded (5%), Lakehurst (5%)
MakAt	Manahawkin muck	0 to 2	3.5	Atsion (5%), Mullica, rarely flooded (5%), Berryland, occasionally flooded (5%)
PHG	Pits sand and gravel	--	195.5	--
PstAt	Psammaquents	0 to 2	2.1	Transquaking (5%), Pawcatuck (5%), Appoquinimink (5%)
SacBO	Sassafras sandy loam	2 to 5	197.6	Ingleside (9%), Woodstown (4%), Downer (4%), and Aura (3%)
SacC	Sassafras sandy loam	5 to 10	34.5	Ingleside (4%), Woodstown (4%), Downer (4%), Fallsington, drained (4%) and Aura (4%)
SacD	Sassafras sandy loam	10 to 15	16.9	Aura (5%), Downer (5%), and Westphalia (5%)
SacE	Sassafras sandy loam	15 to 25	5.4	Evesboro (5%), Freehold (5%), and Tinton (5%)
SadB	Sassafras gravelly sandy loam	2 to 5	5.9	Aura (5%), Fallsington (5%)
SadC	Sassafras gravelly sandy loam	5 to 10	20.3	Aura (5%)

Mapping Unit Symbol	Series	Slope (%)	Area in Study Area (Acres)	Soil Series Inclusions
SafA	Sassafras loam	0 to 2	1.3	Ingleside (4%), Woodstown (4%), Downer (4%), Fallsington, drained (4%) and Aura (4%)
UdaB	Udorthents	0 to 8	87.2	--
UdauB	Udorthents-Urban land complex	0 to 8	2.8	--
UR	Urban land	--	97.5	--
USBROA	Urban land-Brockatonorton complex	0 to 2	21.9	Psamments, wet substratum, occasionally flooded (10%)
USKLEA	Urban land-Klej complex	0 to 2	5.9	Atsion (5%), Berryland occasionally flooded (5%), Hammonton (5%)
Water	Water	--	15.2	--
WoeB	Woodstown sandy loam	2 to 5	34.9	Hammonton (7%), Fallsington occasionally ponded (7%), Hambrook (5%)

2.2 Detailed Soil Type Descriptions

Appoquinimink-Transquaking-Mispillion complex – This soil series consists of loamy fluviomarine deposits over herbaceous organic material and is typically located in tidal marshes. A typical profile ranges from mucky silt loam (0 to 12 inches) to silt loam (12 to 30 inches) to mucky peat (30 to 80 inches). This soil series is also very poorly drained and classified as farmland of unique importance. This series is designated as a hydric soil and has inclusions of Hammonton (5%) which is not hydric.

Atsion sand – This soil series consists of sandy eolian deposits and/or fluviomarine deposits typically located in flats, drainageways, depressions and deflation flats. A typical profile ranges from peat (0 to 2 inches) to sand (2 to 80 inches), is poorly drained, and is classified as a farmland of unique importance. This soil series is designated as hydric and has the following inclusions: Berryland, occasionally flooded (5%), hydric; and Lakehurst (5%), not hydric.

Berryland sand – This soil series consists of sandy fluviomarine deposits located in flats and depressions. A typical profile ranges from sand (0 to 15 inches) to loamy sand (15 to 22 inches) to sand (22 to 35 inches) to stratified sand to sandy loam (35 to 60 inches), is very poorly drained and is not classified as prime farmland. This soil series is classified as hydric and has the following inclusions: Mullica, rarely flooded (5%), hydric; Atsion (5%), hydric; and Manahawkin, frequently flooded (5%), hydric.

Downer loamy sand – This soil series consists of loamy fluviomarine deposits and is typically located in knolls and low hills. A typical profile ranges from loamy sand (0 to 16 inches) to sandy loam (16 to 28 inches) to loamy sand (28 to 48 inches) to sand (48 to 80 inches), is well drained, and is designated as farmland of statewide importance. This soil series is not designated as hydric and contains the following inclusions: Hammonton (10%), not hydric; Atsion (5%), hydric; and Evesboro (5%), not hydric.

Downer sandy loam – This soil series consists of loamy fluvial marine deposits found in low hills, knolls, and flats. The soil profile ranges from sandy loam (0 to 10 inches) to loamy sand (10 to 16 inches) to sandy loam (16 to 28 inches) to loamy sand (28 to 48 inches) to sand (48 to 80 inches), is well drained, and is classified in all areas as prime farmland. This soil series is not designated as hydric and has the following inclusions: Galestown (10%), not hydric; Ingleside (5%), not hydric; and Hammonton (5%), not hydric.

Downer-Urban land complex – This soils series consists of loamy fluviomarine deposits and/or gravelly fluviomarine deposits located in knolls and low hills. The soil profile ranges from sandy loam (0 to 36 inches) to loamy sand (36 to 48 inches) to stratified sand to sandy loam (48 to 80 inches), is well drained, and is not classified as prime farmland. This soil series is not designated as hydric and has the following inclusions: Sassafras (5%), not hydric; and Woodstown (5%), not hydric.

Elkton loam – This soil series consists of silty eolian deposits over loamy alluvium and/or loamy marine deposits located in marine terraces. The soil profile ranges from loam (0 to 8 inches) to clay loam (8 to 60 inches), is poorly drained, and is classified as farmland of statewide importance, if drained. This soil series is designated as hydric and has the following inclusions: Woodstown (5%), not hydric; Fallsington (5%), hydric; and Othello (5%), hydric.

Evesboro-Urban land complex – This soil series consists of sandy eolian deposits and/or sandy fluviomarine deposits. The soil profile ranges from sand (0 to 31 inches) to stratified loamy sand (31 to 80 inches), is excessively drained, and is not classified as prime farmland. This soil series is not designated as hydric and has the following inclusions: Lakehurst (5%), not hydric; and Downer (5%), not hydric.

Evesboro sand – This soil series consists of sandy eolian deposits and/or sandy fluviomarine deposits and is located in low hills. The soil profile consists of sand (0 to 31 inches) to stratified loamy sand to sand (31 to 80 inches), is excessively drained, and is not classified as prime farmland. This soil series is not designated as hydric and has the following inclusions: Lakehurst (5%), not hydric; Atsion (5%), hydric; Mullica, rarely flooded (5%), hydric; and Downer (5%), not hydric.

Fallsington loams – This soil series consists of loamy fluviomarine deposits located in depressions, swales, flats, and drainageways. The soil profile consists of mucky peat (0 to 2 inches) to loam (2 to 10 inches) to sandy clay loam (10 to 32 inches) to loamy sand (32 to 39 inches) to sandy clay loam (39 to 46 inches) to sand (46 to 80 inches), is poorly drained, and if drained, is designated as farmland of statewide importance. This soil series is designated as hydric and has the following inclusions: Woodstown (8%), not hydric; Hammonton (7%), not hydric; Mullica, undrained (5%), hydric, and Othello (5%), hydric.

Freehold – Urban land complex – This soil series consists of glauconite bearing loamy eolian deposits and/or glauconite bearing loamy fluviomarine deposits located on side slopes of low hills and knolls. A

typical soil profile consists of sandy loam (0 to 14 inches) to sandy clay loam (14 to 21 inches), to sandy loam (21 to 35 inches) to loamy sand (35 to 80 inches). This soil series is well drained, not classified as prime farmland, not hydric, and has the following inclusions: Coltons Neck (5%), not hydric; and Collington (5%), not hydric.

Hammonton sandy loam – This soil series consists of coarse-loamy fluviomarine deposits found in flats and depressions. A typical profile ranges from sandy loam (0 to 48 inches) to sand (48 to 72 inches), it is moderately well drained, and is classified as prime farmland. This soil series is not designated as hydric and contains the following inclusions: Glassboro (5%), not hydric; Fallsington (5%), hydric; and Downer (5%), not hydric.

Holmdel-Urban land complex – This soil series consists of glauconite bearing loamy marine deposits and/or fluviomarine deposits located in flats and low hills. A typical soil profile ranges from sandy loam (0 to 20 inches) to sandy clay loam (30 to 38 inches) to stratified sand to sandy loam (38 inches to 60 inches). This soil series consists of moderately well-drained soils, that are not classified as prime farmland. The series is partially hydric and contains the following inclusions: Shrewsbury (5%), hydric; Collington (5%), not hydric; and Freehold (5%), not hydric.

Humaquepts – This soil series consists of loamy alluvium and is found in floodplains. The profile ranges from loam (0 to 18 inches) to sand (18 to 60 inches), is poorly drained, and is not classified as prime farmland. This soil series is designated as hydric and has the following inclusions: Atsion (5%), hydric; Manahawkin, frequently flooded (5%), hydric; and Mullica, occasionally flooded (5%), hydric.

Klej loamy sand – This soil series consists of unconsolidated sandy marine deposits and is located in dunes. The soil profile ranges from slightly decomposed plant material (0 to 4 inches) to loamy sand (4 to 40 inches) to sand (40 to 64 inches), is somewhat poorly drained, and is designated as farmland of statewide importance. This soil series is not hydric and has the following inclusions: Atsion (5%), hydric; and Humaquepts, frequently flooded (5%), hydric.

Klej loamy sand-Urban land complex – This soil series consists of unconsolidated sandy marine deposits located in dunes. The soil profile ranges from slightly to moderately decomposed plant material (0 to 4 inches), to loamy sand (4 to 40 inches), to sand (40 to 64 inches), is somewhat poorly drained, and is not classified as prime farmland. This soil series is partially hydric and consists of the following inclusions: Downer (5%), not hydric; Atsion (5%), hydric; and Everboro (5%), not hydric.

Lakehurst sand – This soil series consists of sandy fluviomarine deposits located in flats and dunes. The profile ranges from slightly decomposed plant material (0 to 2 inches) to sand (2 to 80 inches), is moderately well drained, and is not classified as prime farmland. This soils series is not designated as hydric and has the following inclusions: Quakerbridge (5%), not hydric; Astion, rarely flooded (5%), hydric; and Berryland, rarely flooded (5%), hydric.

Lakewood sand – This soil series consists of sandy fluviomarine deposits found in flats and knolls. The soil profile ranges from sand (0 to 11 inches) to loamy sand (11 to 13 inches) to sand (13 to 80 inches), it is excessively drained, and it is not considered to be prime farmland. This soils series is not considered hydric

and has the following inclusions: Quakerbridge (5%), not hydric; Lakehurst (5%), not hydric; Astion, rarely flooded (5%), hydric.

Manahawkin muck – This soil series consists of organic, woody material over sandy alluvium located in flood plains. The typical soil profile ranges from muck (0 to 47 inches) to sand (47 to 80 inches), is very poorly drained, and classified as farmland of unique importance. This soil series is designated as hydric and consists of the following inclusions: Atsion (5%), hydric; Mullica, rarely flooded (5%), hydric; and Berryland, occasionally flooded (5%), hydric.

Pits, sand and gravel – This soil series consists of sandy material distributed by human activity. There is not a full profile description regarding this series due to the anthropogenic impact on the soil. This soil series is not designated as hydric and does not contain any inclusions.

Psammaquents sulfidic substrate – This soil series consists of sandy lateral spread deposits over organic material located in flat marshlands. The typical profile ranges from coarse sand (0 to 12 inches) to gravelly sand (12 to 36 inches) to mucky peat (36 to 80 inches). The series consists of soil that is very poorly drained, hydric, and is not classified as prime farmland. This series contains the following inclusions: Transquaking very frequently flooded (5%), hydric; Pawcatuck very frequently flooded (5%), hydric; and Appoquinimink very frequently flooded (5%), hydric.

Sassafras sandy loam – This soil series consists of loamy fluviomarine deposits located in flats and fluviomarine terraces. The profile ranges from sandy loam (0 to 18 inches) to sandy clay loam (18 to 28 inches) to loamy sand (28 to 40 inches) to sand (40 to 80 inches), is well drained, and is classified for all areas as prime farmland. This soil series is not designated as hydric and contains the following inclusions: ingleside (9%), not hydric; Woodstown (4%), not hydric; Downer (4%), not hydric; and Aura (3%), not hydric.

Sassafras gravelly sandy loam – This soil series consists of loamy and/or gravelly fluviomarine deposits found in knolls and low hills. The soil profile ranges from gravelly sandy loam (0 to 17 inches) to sandy clay loam (17 to 37 inches) to gravelly sandy loam (37 to 60 inches), is well drained, and is considered to be a farmland of statewide importance. This soil series is not designated as hydric and has the following inclusions: Aura (5%), not hydric.

Sassafras loam – This soil series consists of loamy fluviomarine deposits located in flats and fluviomarine terraces. The profile ranges from loam (0 to 12 inches) to sandy loam (12 to 18 inches) to sandy clay loam (18 to 28 inches) to loamy sand (28 to 40 inches) to sand (40 to 80 inches), is well drained, and is classified as prime farmland in all areas. This soil series is not designated as hydric and has the following inclusions: Aura (4%), not hydric; Ingleside (4%), not hydric; Woodstown (4%), not hydric; Downer (4%), not hydric; and Fallsington, drained (4%), hydric.

Udorthents – This soil series consists of fill and/or distributed original soil matter located in low hills. The soil profile ranges from loam (0 to 12 inches) to loamy sand (12 to 72 inches), is well drained, and is not designated as prime farmland. This soil series is not designated as hydric and does not have any inclusions.

Urban land-Brockatonorton complex – This soil series consists of sandy eolian deposits and/or sandy marine deposits found in dunes and dune fields. The soil profile ranges from sand (0 to 50 inches) to mucky peat (50 to 60 inches) to sand (60 to 80 inches), is moderately well drained, and is not classified as prime farmland. This soil series is not designated as hydric and has the following inclusions: Psamments, wet substratum, occasionally flooded (10%), not hydric.

Urban land-Klej complex – This soil series consists of sandy fluviomarine deposits located in flats. The typical soil profile ranges from slightly to moderately decomposed plant material (0 to 4 inches), loamy sand (4 to 40 inches) and sand (40 to 80 inches). This soil series is somewhat poorly drained, partially hydric, and not classified as prime farmland. The series consists of the following inclusions: Atsion (5%), hydric; Berryland, occasionally flooded (5%), hydric; and Hammonton (5%), not hydric.

Woodstown sandy loam – This soil series consists of loamy fluviomarine deposits located in flats, fluviomarine terraces, depressions, and broad interstream divides. The typical soil profile ranges from sandy loam (0 to 29 inches) to fine sandy loam (29 to 45 inches) to loamy sand (45 to 80 inches). This soil series is moderately well drained, partially hydric, and classified as prime farmland. The series consists of the following inclusions: Hammonton (7%), not hydric; Fallsington (7%), hydric; and Hambrook (5%), not hydric.

Additional physical characteristics of these mapped soil types such as slope, acidity, construction limitations and hydric ratings are summarized in Table 2.

Table 2. Soil Series Characteristics

Mapping Unit Symbol	Series	Slope (%)	pH (Acidity)	Construction Limitations/Suitability[1]	Hydric[2]
AptAv	Appoquinimink-Transquaking-Mispillion complex	0 to 1	6.5	Moderate/Flooding, Ponding	Yes
AtsAO	Atsion sand	0 to 2	3.6	Severe/Wetness, Sandiness, Flooding	Yes
BerAr	Berryland sand	0 to 2	4.3	Moderate/Flooding, Ponding	Yes
BerAt	Berryland sand	0 to 2	4	Slight/Dusty	Yes
DocBO	Downer loamy sand	0 to 5	6.3	Slight/Dusty	Partially
DocCO	Downer loamy sand	5 to 10	6.3	Slight/Dusty	No
DoeAO	Downer sandy loam	0 to 2	6.3	Slight/Dusty, Sandiness	No
DoeBO	Downer sandy loam	2 to 5	6.3	Slight/Dusty, Sandiness	No
DouB	Downer-Urban land complex	0 to 5	5.8	Moderate/Sandiness	No
EkaAr	Elkton loam	0 to 2	4.6	Moderate/Flooding, Ponding	Yes
EveB	Evesboro sand	0 to 5	4.3	Moderate/Sandiness	Partially

Mapping Unit Symbol	Series	Slope (%)	pH (Acidity)	Construction Limitations/Suitability[1]	Hydric[2]
EveC	Evesboro sand	5 to 10	4.3	Slight	No
EveD	Evesboro sand	10 to 15	4.3	Moderate/Slope, Sandiness, Dusty	No
EveE	Evesboro sand, 15 to 25 percent slopes	15 to 25	4.3	Slight/Dusty	No
EvuB	Evesboro-Urban land complex	0 to 5	4.3	Slight/Wetness	No
FapA	Fallsington loams	0 to 2	5.3	Slight/Dusty	Yes
FrrC	Freehold-Urban land complex	0 to 10	5.8	Slight	No
HboB	Hammonton sandy loam	2 to 5	4.5	Severe/Flooding, Low Strength, Wetness, Dusty	Partially
HofB	Holmdel-Urban land complex	0 to 5	4.6	Slight /Wetness	Partially
HumAt	Humaquepts	0 to 3	4.6	Moderate/Wetness	Yes
KkgB	Klej loamy sand	0 to 5	4.6	Slight	Partially
KkgkB	Klej loamy sand	0 to 5	4.5	Moderate/Wetness, Clayey	Partially
KkhB	Klej loamy sand-Urban land complex	0 to 5	4.6	Moderate/Wetness, Low Strength	Partially
LakB	Lakehurst sand	0 to 5	3.6	Moderate/Sandiness	Partially
LasB	Lakewood sand	0 to 5	4.3	Moderate/Sandiness	Partially
LasC	Lakewood sand	5 to 10	4.3	Moderate/Wetness, Low Strength	Partially
MakAt	Manahawkin muck	0 to 2	4.8	Severe/Flooding, Ponding, Wetness, Low Strength	Yes
PHG	Pits sand and gravel	--	--	Slight/Dusty	No
PstAt	Psammaquents	0 to 2	4.3	Severe/Flooding, Wetness, Low Strength	Yes
SacBO	Sassafras sandy loam	2 to 5	6.3	Slight/Dusty	No
SacC	Sassafras sandy loam	5 to 10	6.3	Slight/Dusty	Partially
SacD	Sassafras sandy loam	10 to 15	6.3	Concrete Corrosion High	No
SacE	Sassafras sandy loam	15 to 25	6.3	Concrete Corrosion High	No
SadB	Sassafras gravelly sandy loam	2 to 5	4.6	Slight	Partially

Mapping Unit Symbol	Series	Slope (%)	pH (Acidity)	Construction Limitations/Suitability[1]	Hydric[2]
SadC	Sassafras gravelly sandy loam	5 to 10	4.6	Slight/Dusty	No
SafA	Sassafras loam	0 to 2	5.3	Moderate/Low strength, Dusty	Partially
UdaB	Udorthents	0 to 8	5.5	Severe/Flooding, Sandiness	No
UdauB	Udorthents-Urban land complex	0 to 8	5.5	Moderate/Low strength	No
UR	Urban land	--	--	Not Rated	No
USBROA	Urban land-Brockatonorton complex	0 to 2	--	Not Rated	No
USKLEA	Urban land-Klej complex	0 to 2	--	Not rated	Partially
Water	Water	--	--	Slight/Dusty	--
WoeB	Woodstown sandy loam	2 to 5	5.7	Moderate/Ponding, Wetness	Partially

[1] Construction suitability and limitations criteria are derived from NRCS Web Soil Survey.

[2] Hydric soil determined using the New Jersey Portion of the 2018 National Hydric Soil List. Partially Hydric Status indicates that the major soil component is classified as not hydric but includes minor soil components that are classified as hydric.

The location and extent of the mapped soils within the Study Area are shown in Figure 2.

3.0 CONCLUSIONS

There are a total of 43 soil units mapped within the Study Area. The information provided in this report is based on publicly available NRCS soils data and is provided for the purpose of guiding the determination of geotechnical investigation locations within the Study Area to support onshore design.

4.0 REFERENCES

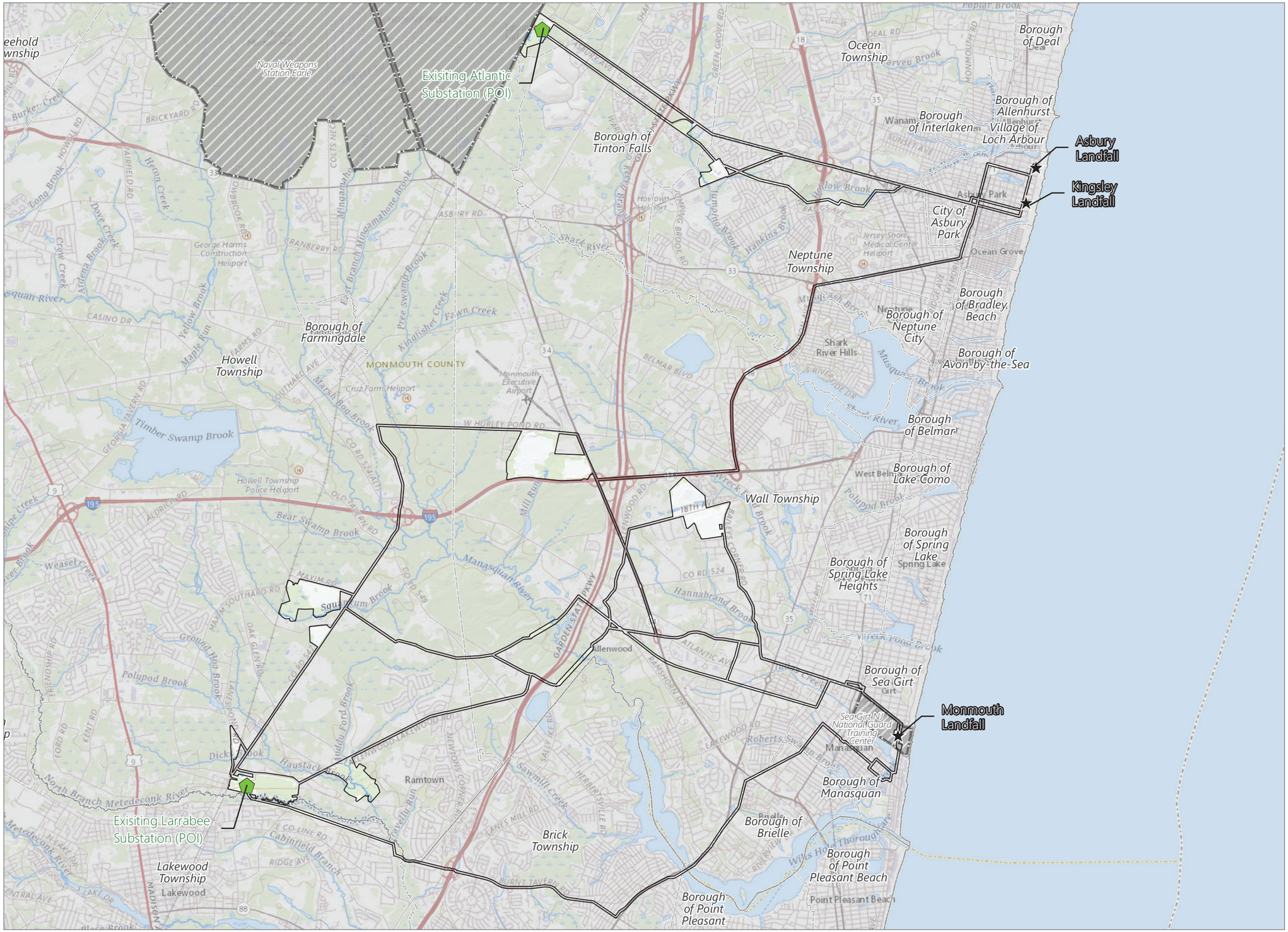
Natural Resources Conservation Service (NRCS). 2022. State Soil Access (SDA) Hydric Soil List. Washington D.C.: U.S. Department of Agriculture NRCS; [accessed 1 October 2022]. https://efotg.sc.egov.usda.gov/references/Public/IL/State_List_NRCS_Hydric_Soils_Report_Dynamic_Data.html#reportref.

Soil Survey Staff. 2022. Web Soil Survey. Washington D.C.: Natural Resources Conservation Service, United States Department of Agriculture; [accessed 1 October 2022]. https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

Appendix A

Figures

Figure 1. Project Location



Atlantic Shores Offshore Wind – New Jersey Onshore Project Study Area

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Natural Resources Conservation Service Soils Report

- Landfall Location
- Point of Interconnection
- Military Installations Ranges and Training Areas
- Study Area
- Municipal Boundary

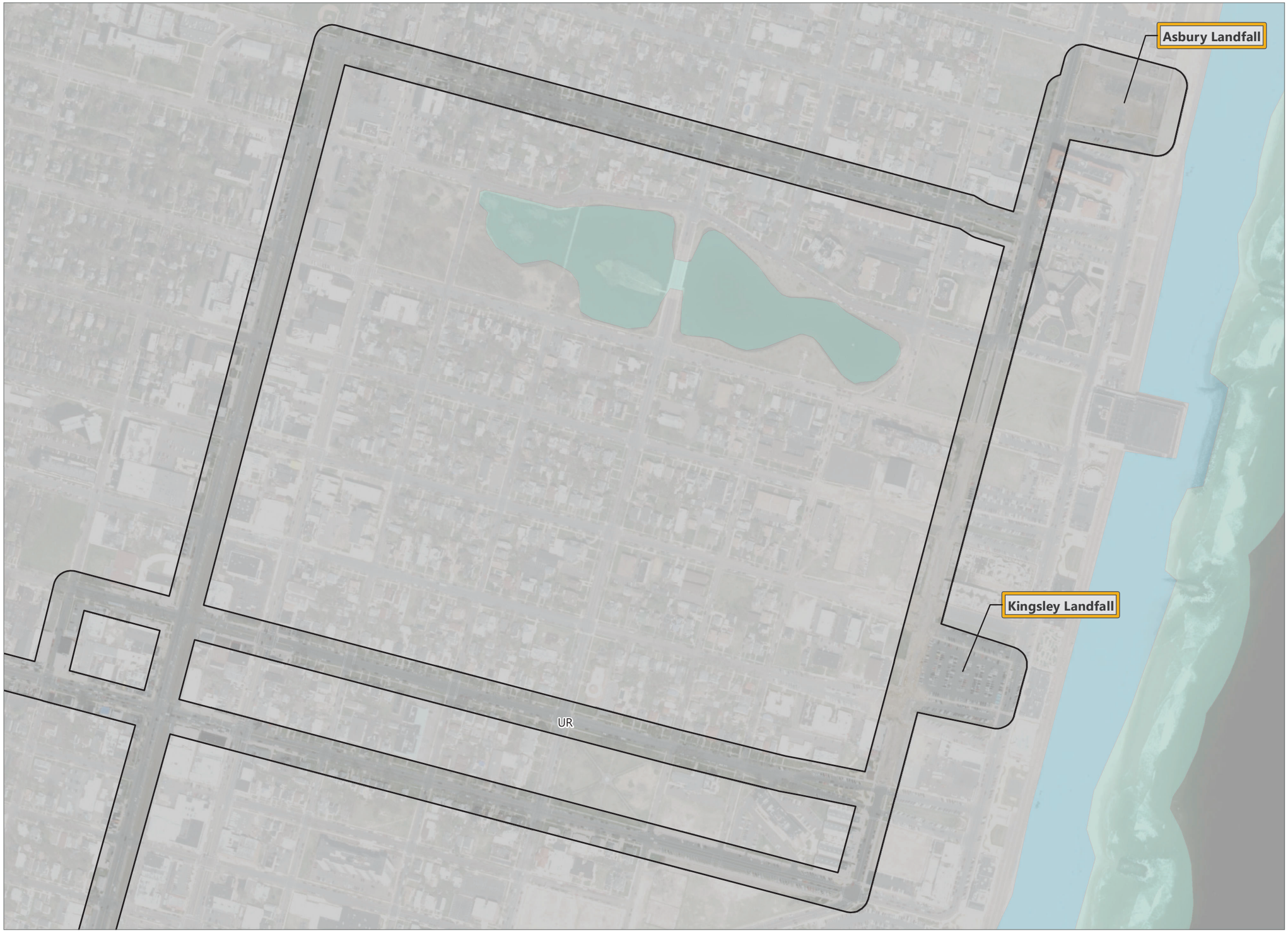
0 0.5 1 2
Miles

Prepared October 12, 2022
Basemap: Esri ArcGIS Online "USGS Topo" map service.

ATLANTIC SHORES offshore wind

EDR

Figure 2. Soils Map



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Natural Resources Conservation Service Soils Report

- Study Area

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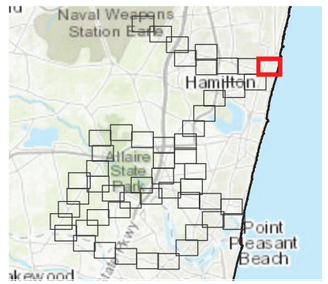

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Feet

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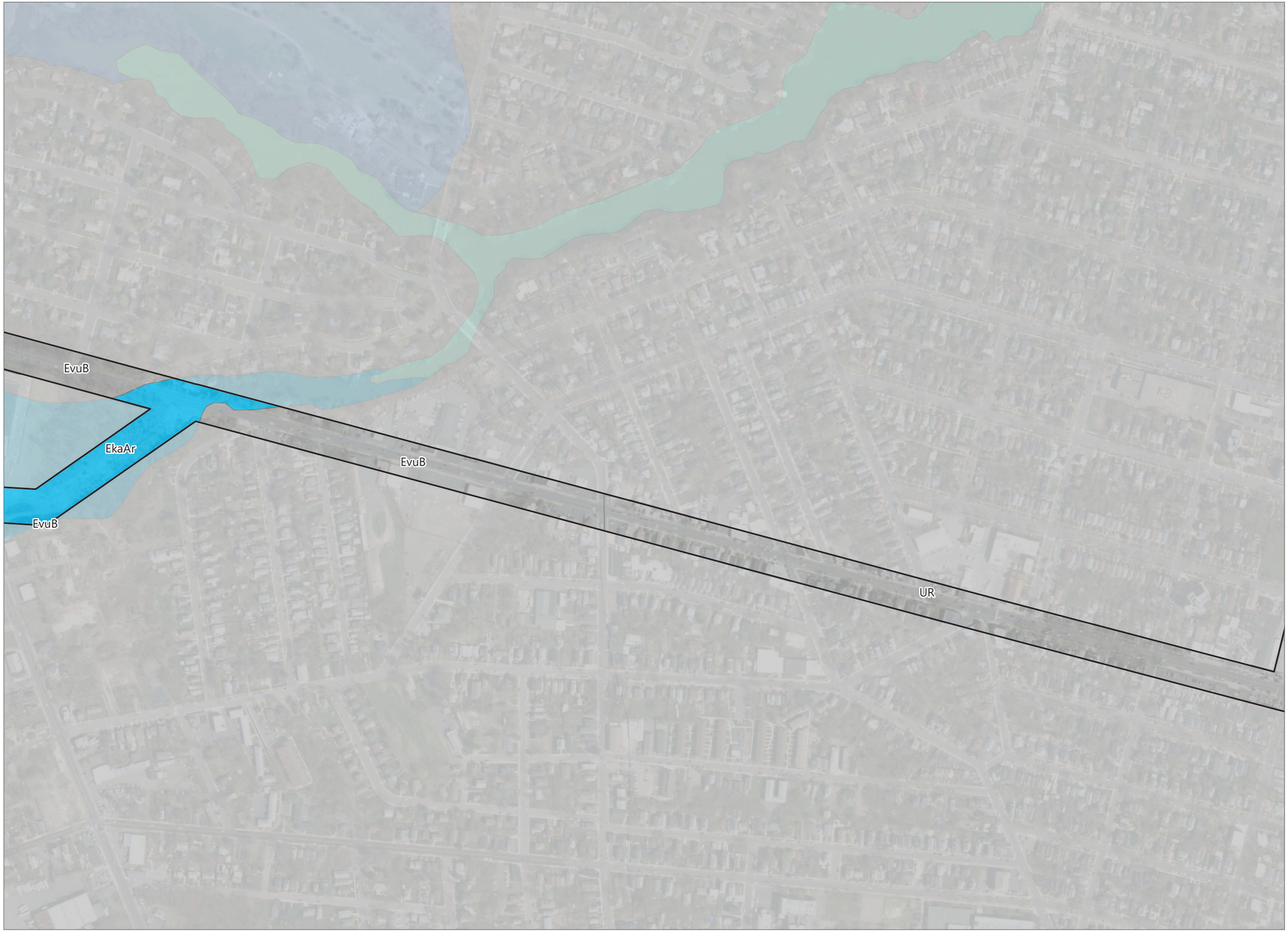

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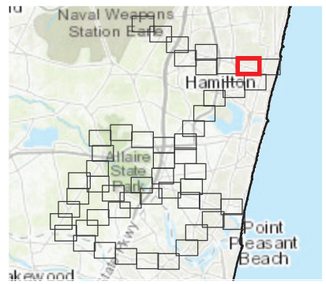

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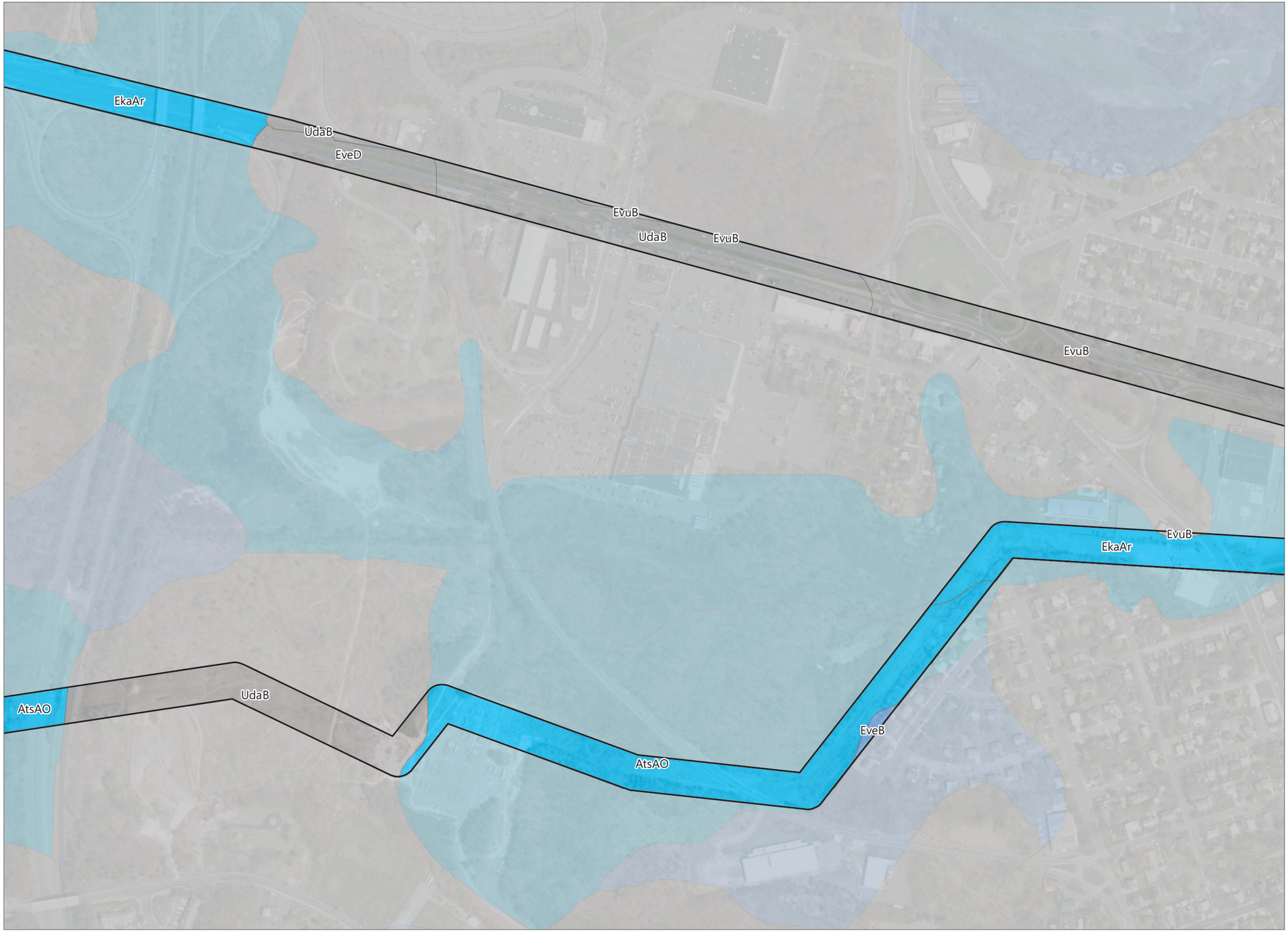

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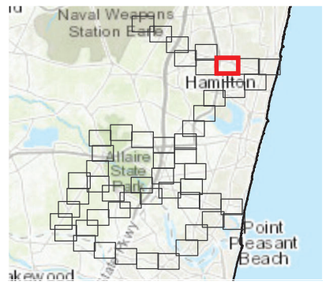

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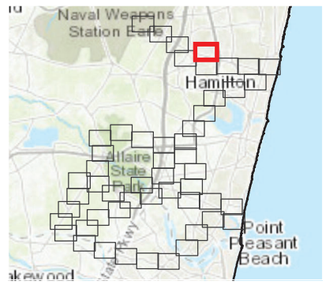

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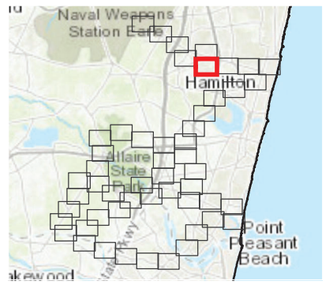

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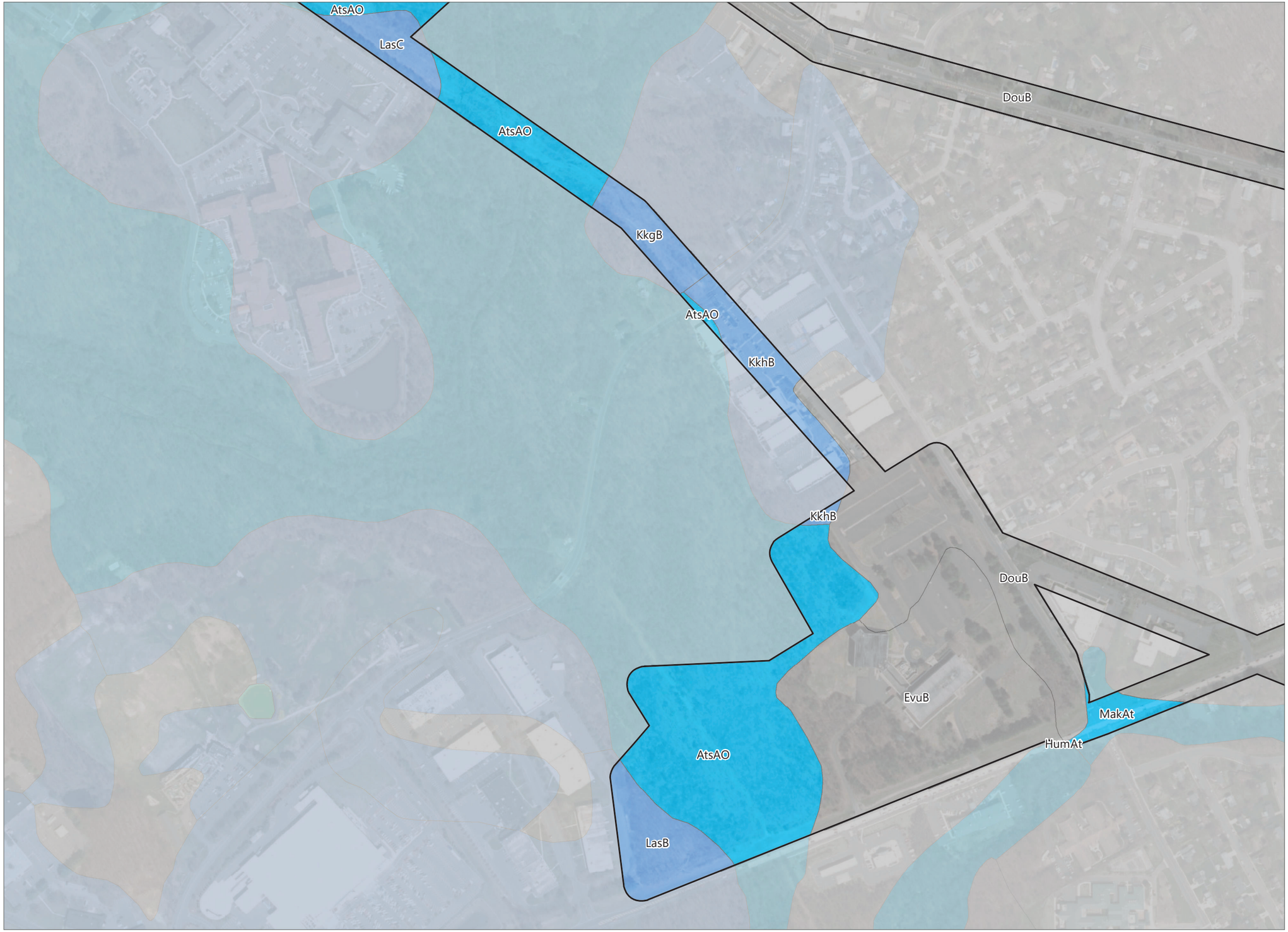

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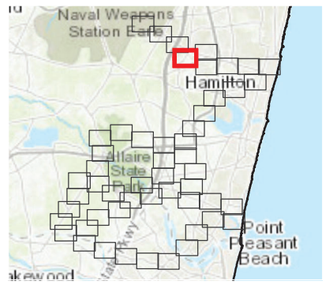

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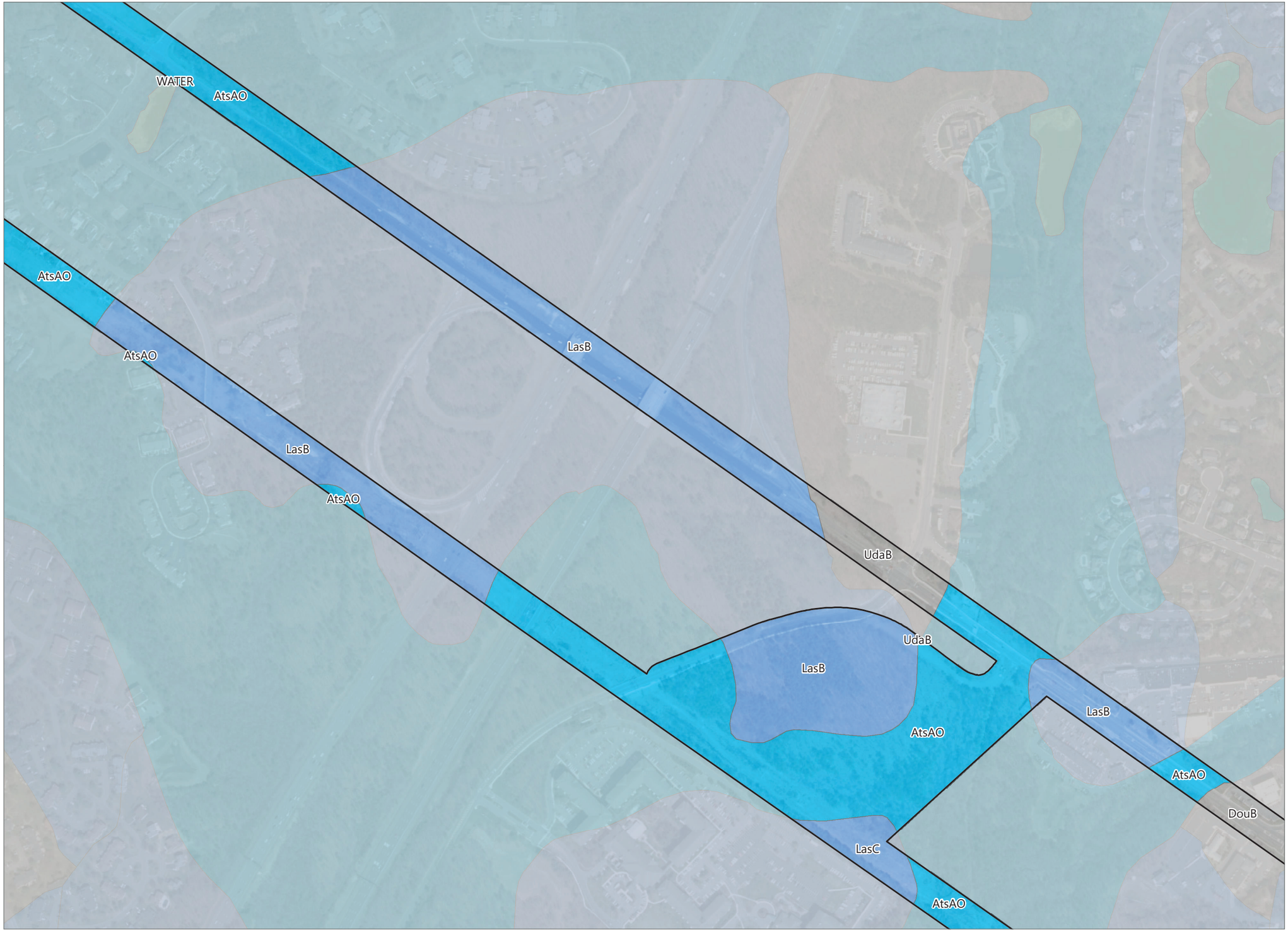

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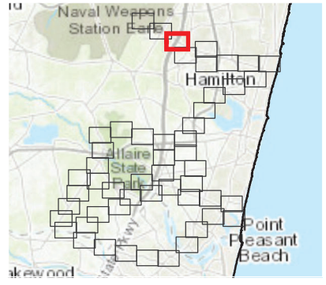

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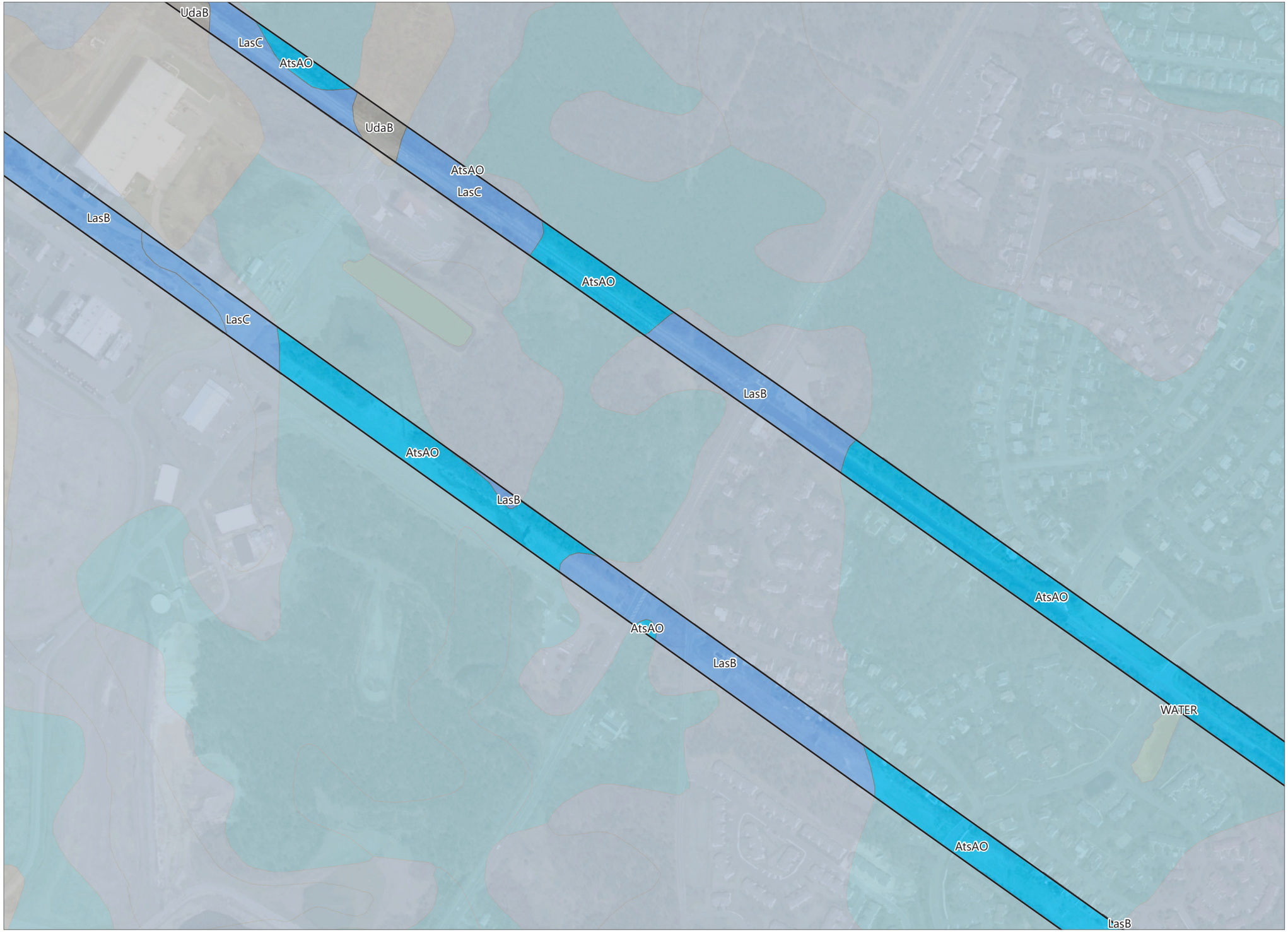

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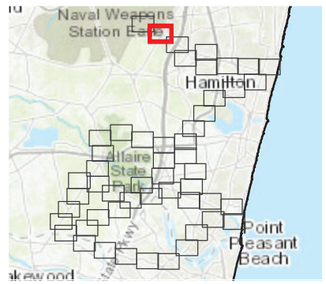

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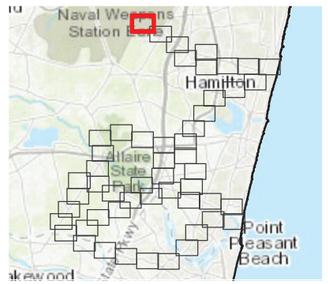

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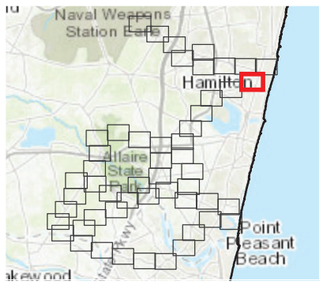

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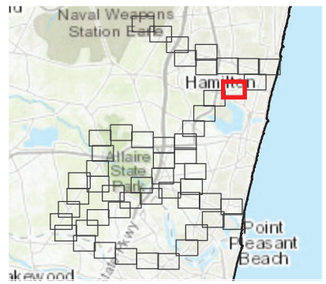

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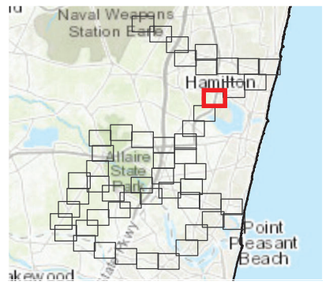

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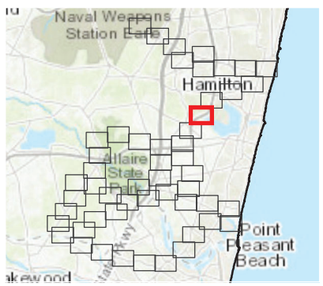

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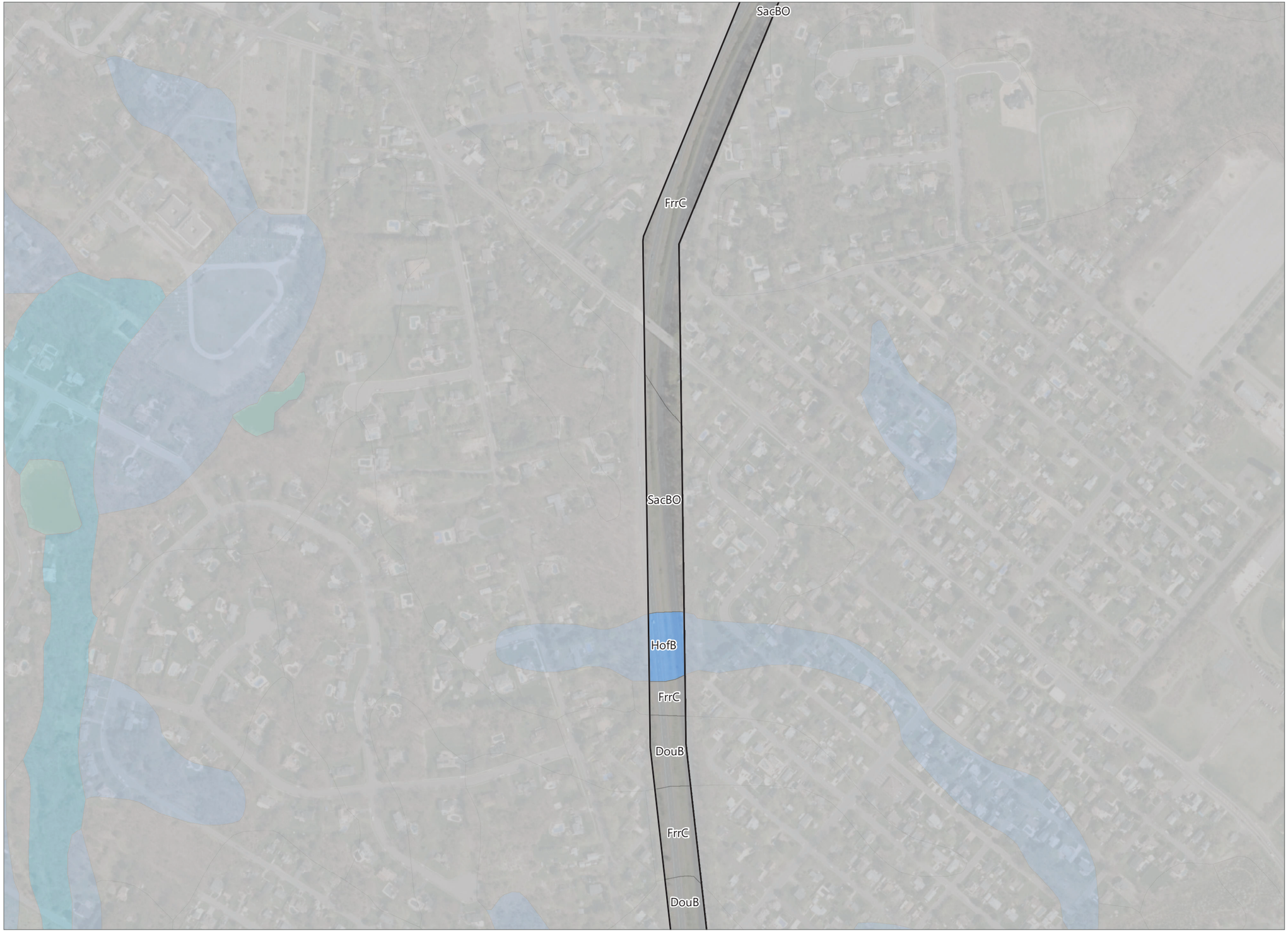

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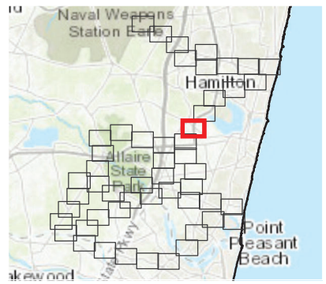

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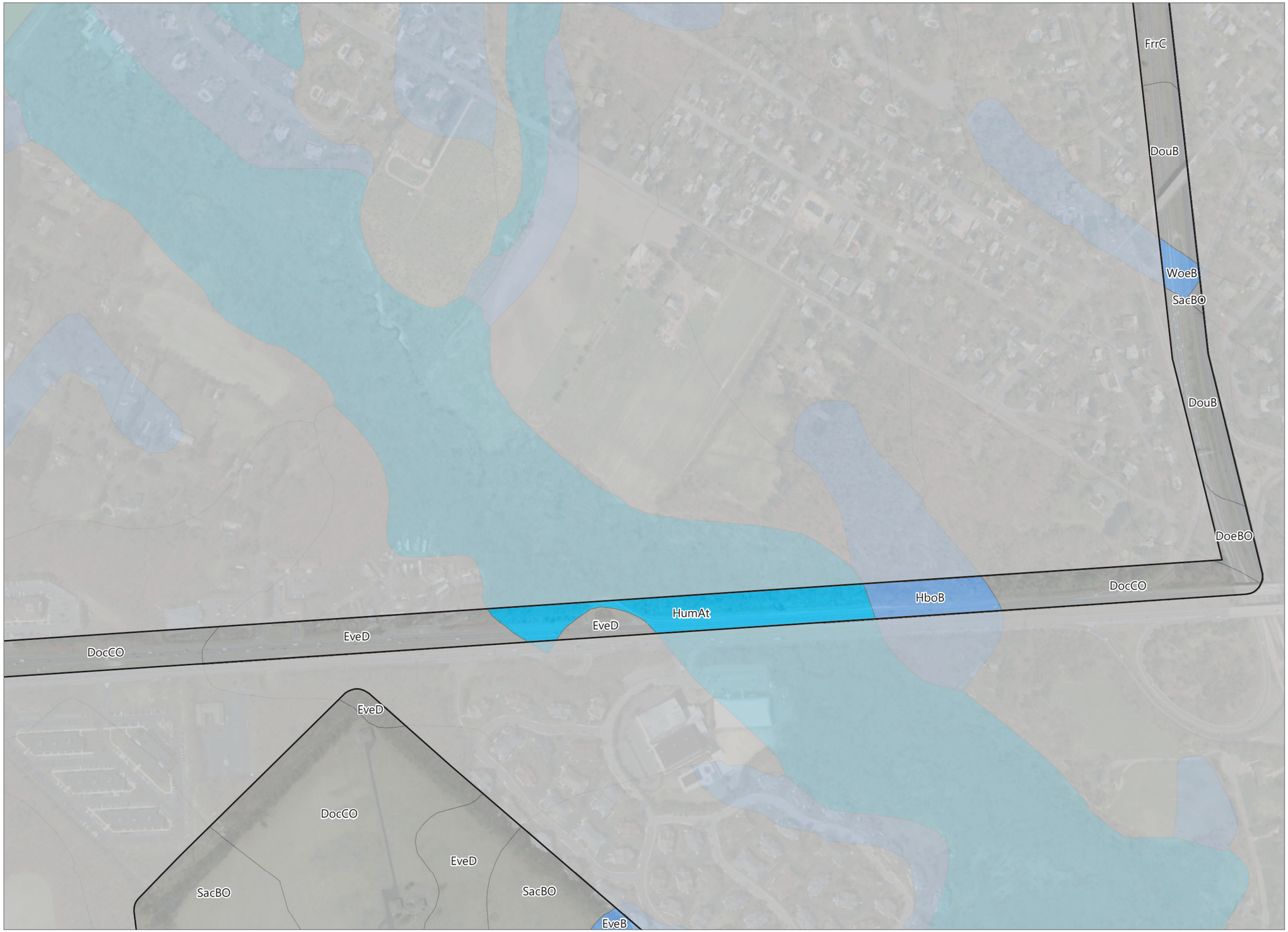

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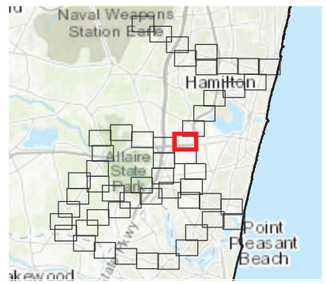

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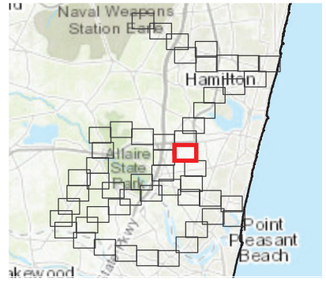

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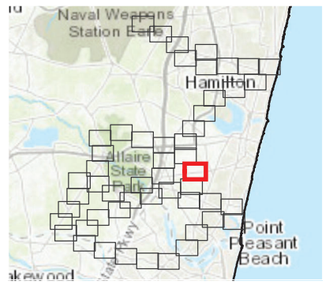

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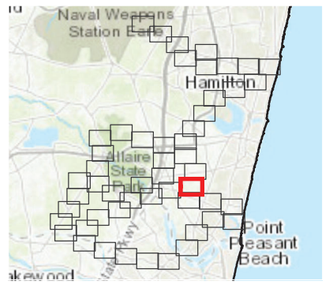

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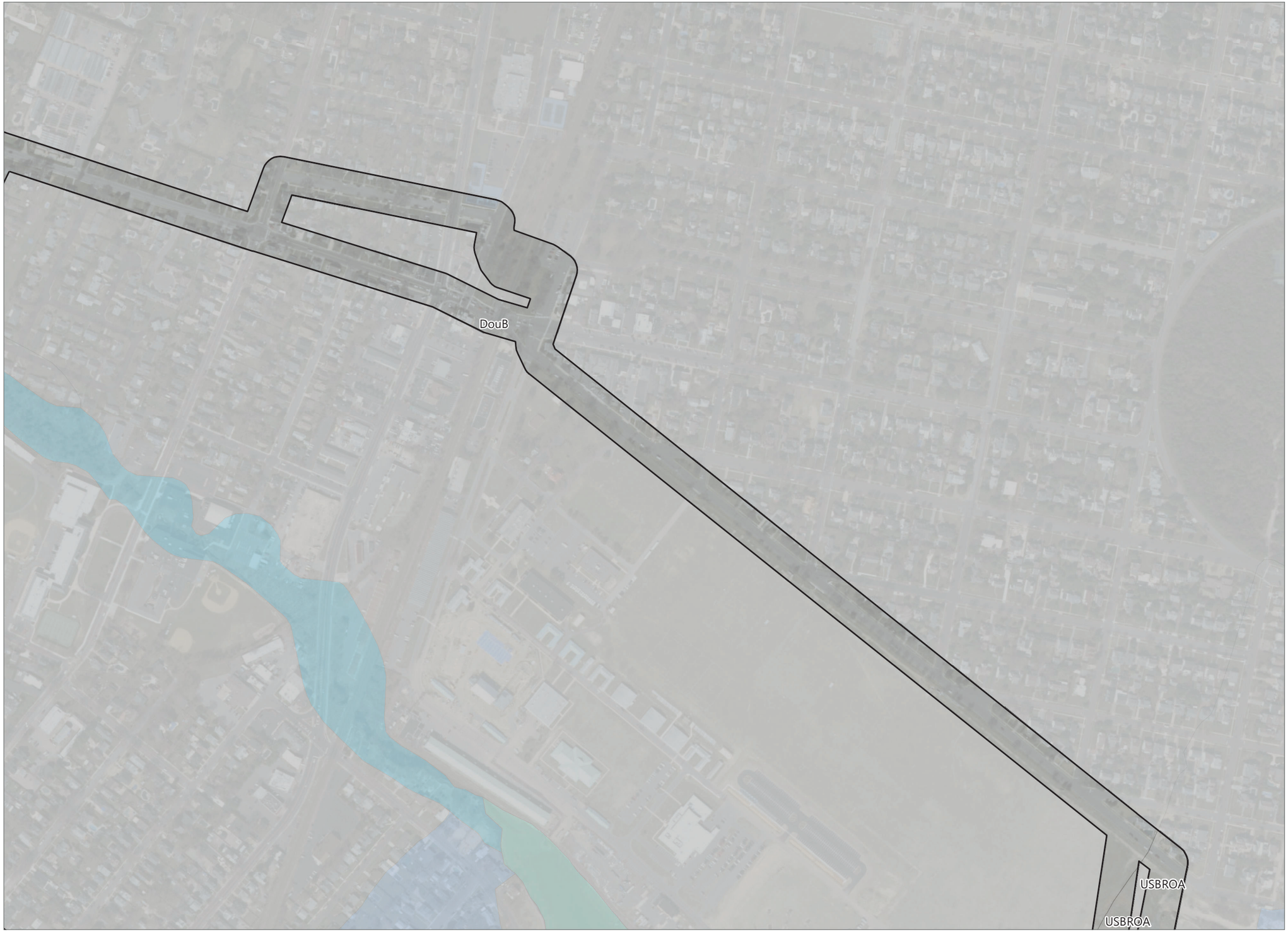

Atlantic Shores Offshore Wind – New Jersey Onshore Project Study Area

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Natural Resources Conservation Service Soils Report

Study Area

NRCS (SSURGO) Soils

- Hydric
- Partially Hydric*
- Water
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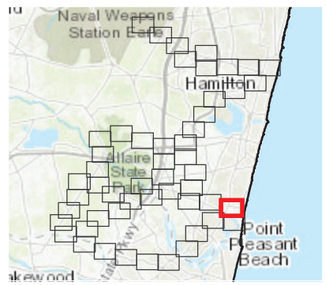

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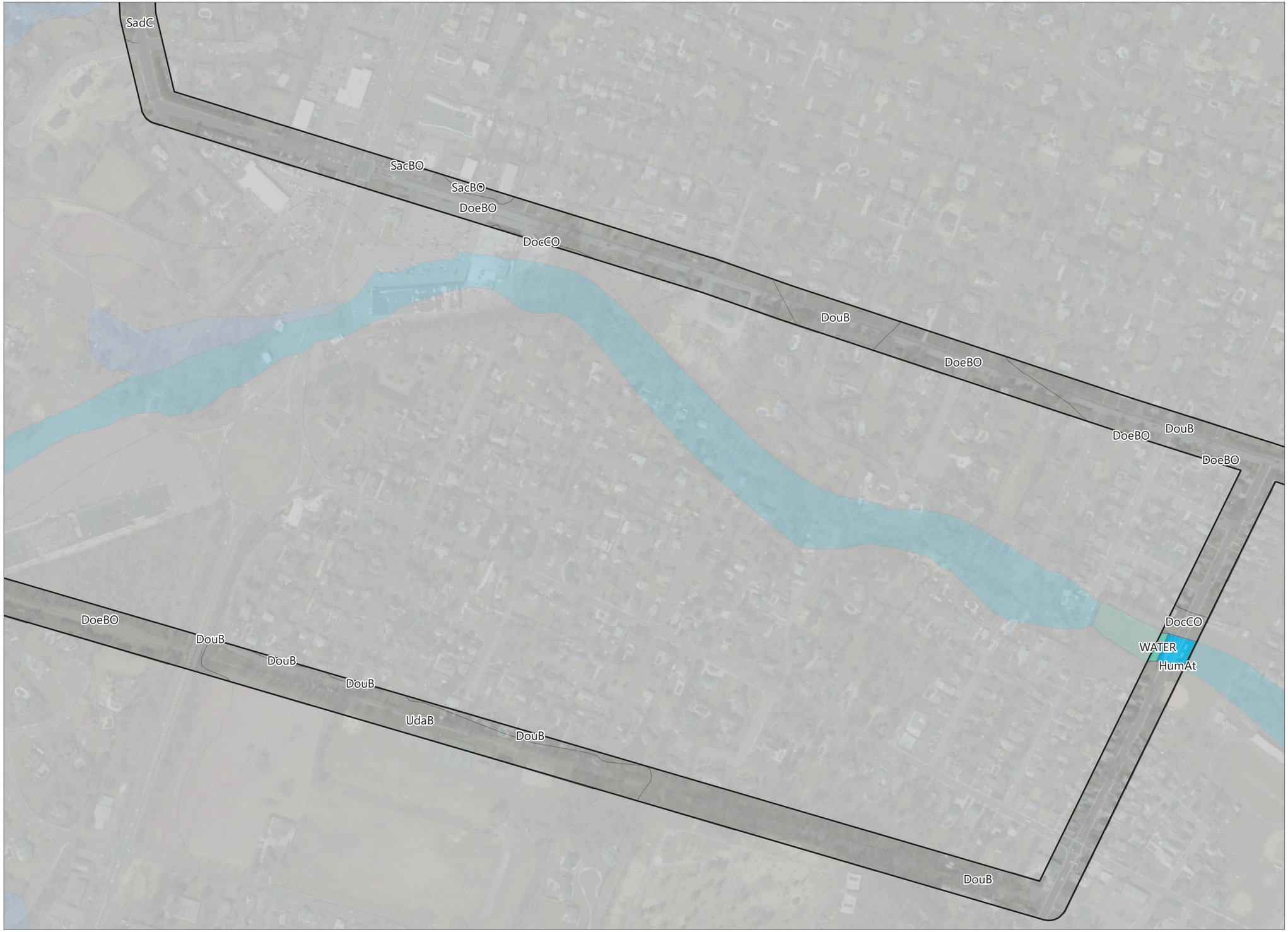

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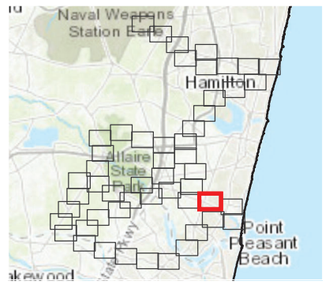

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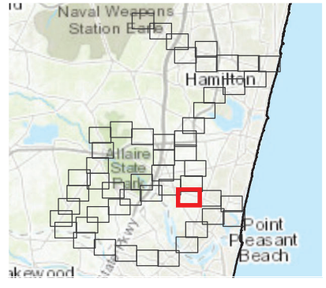

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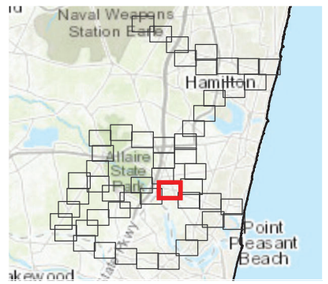

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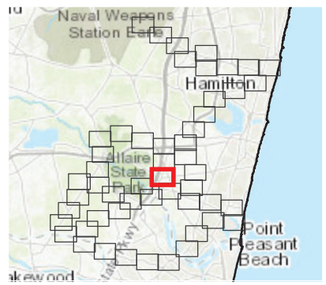

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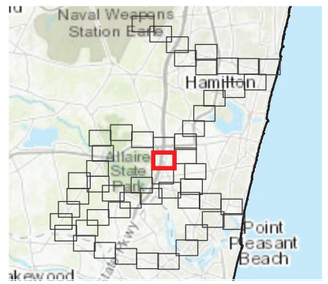

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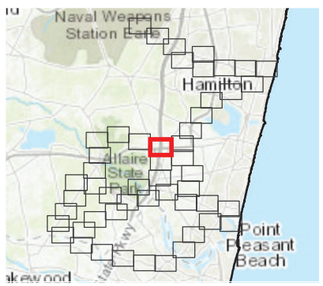

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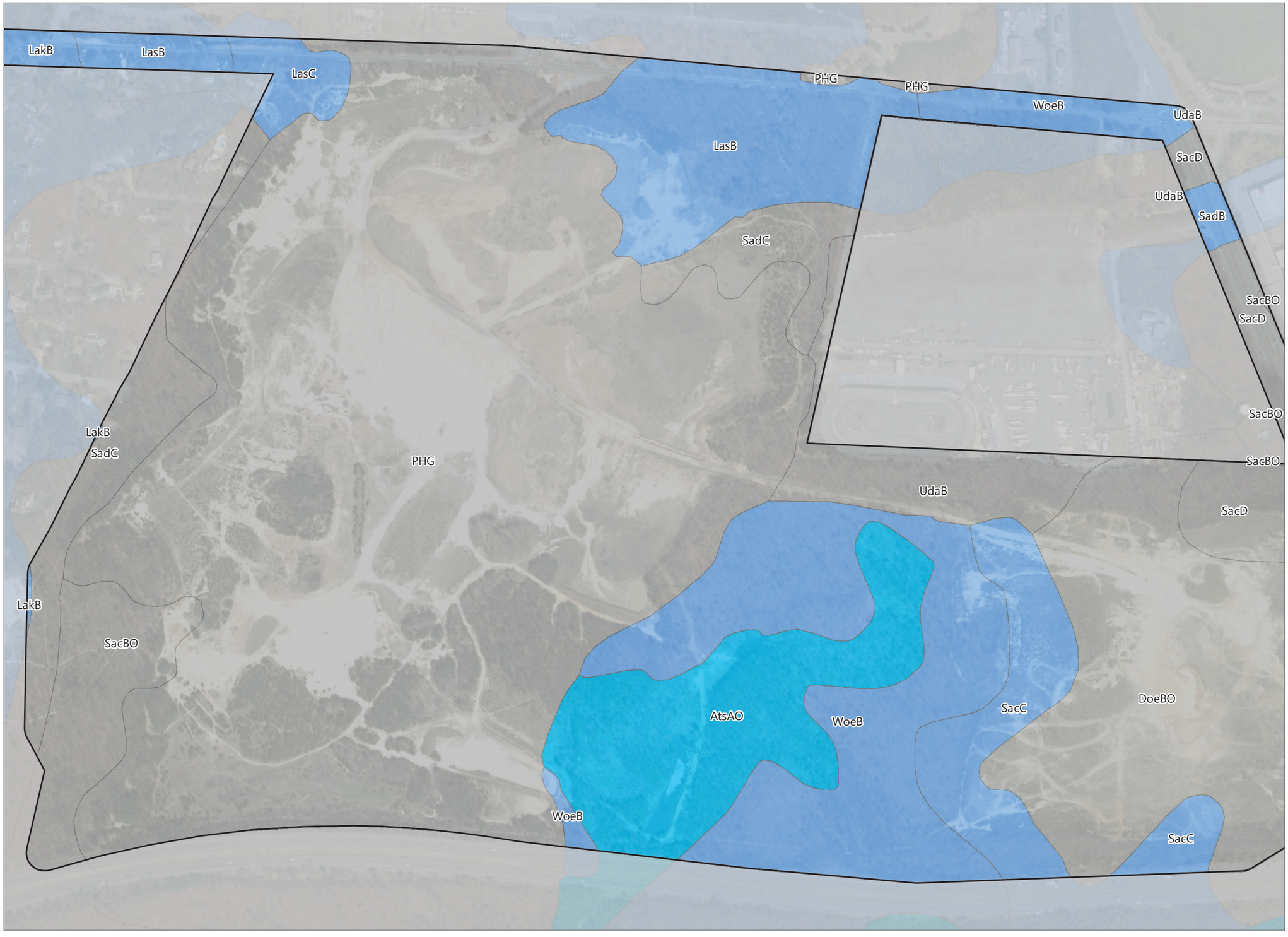

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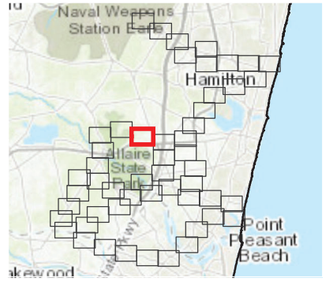

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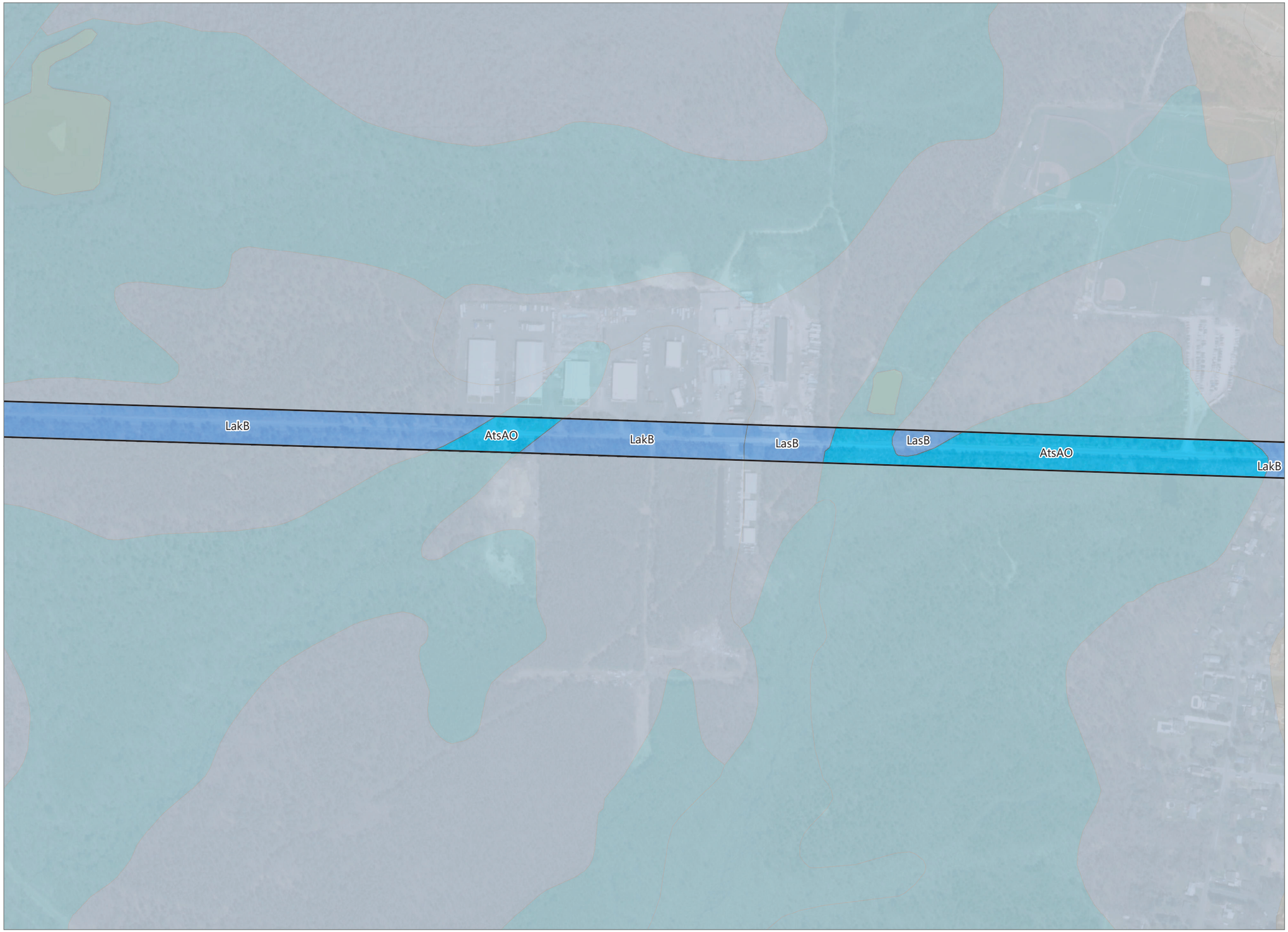

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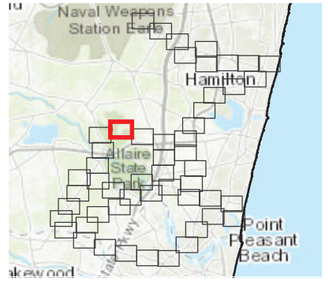

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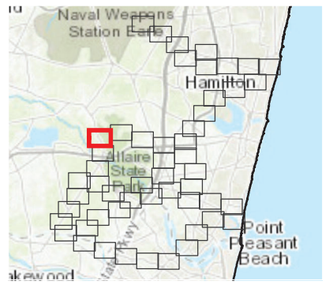

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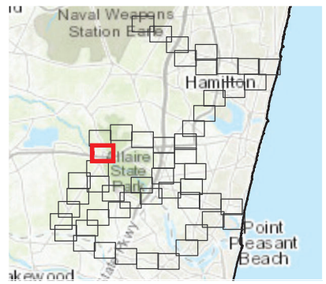

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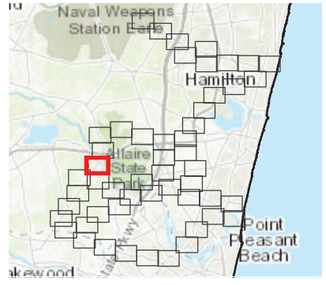

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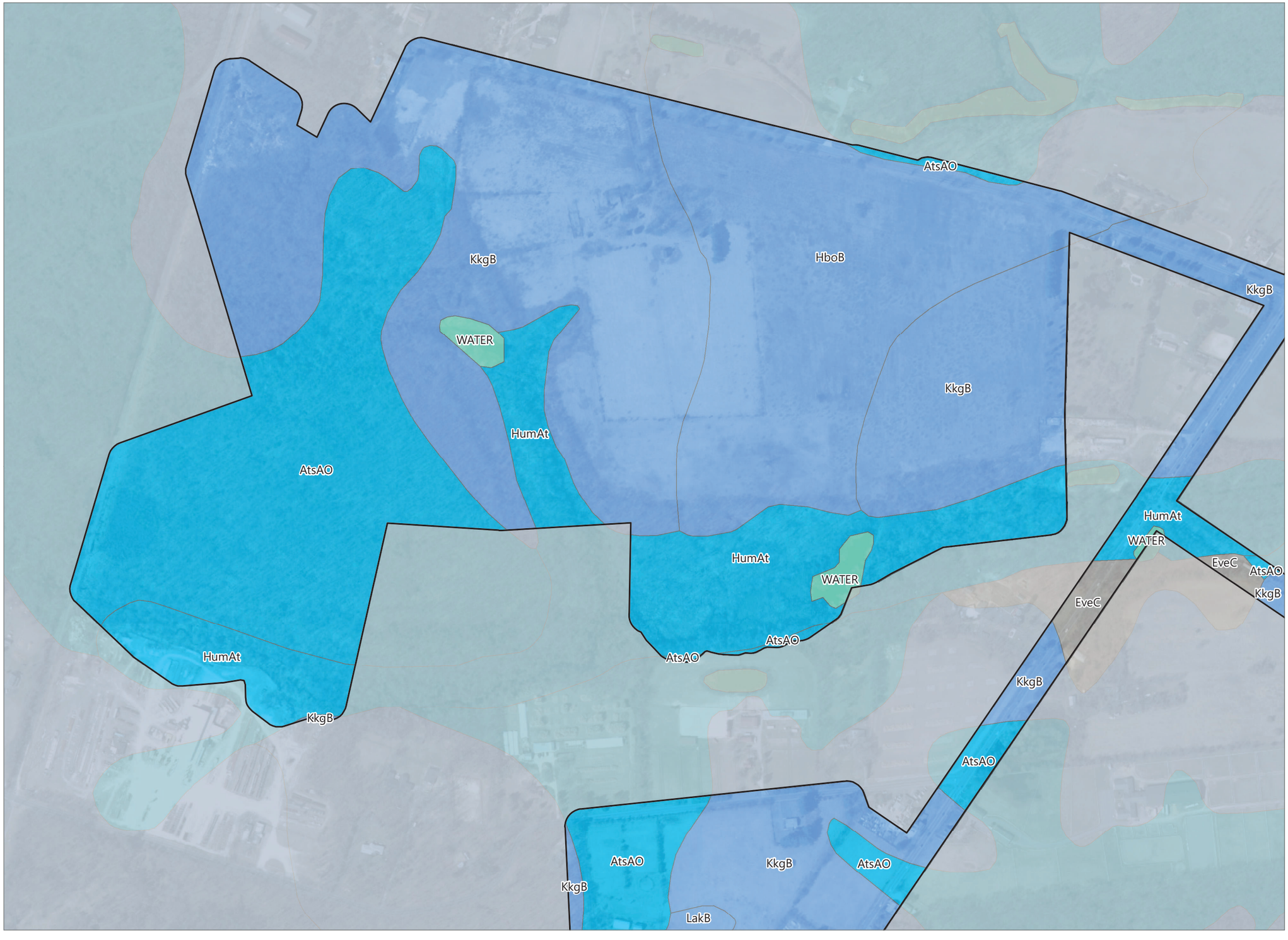

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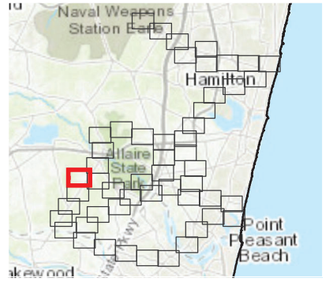

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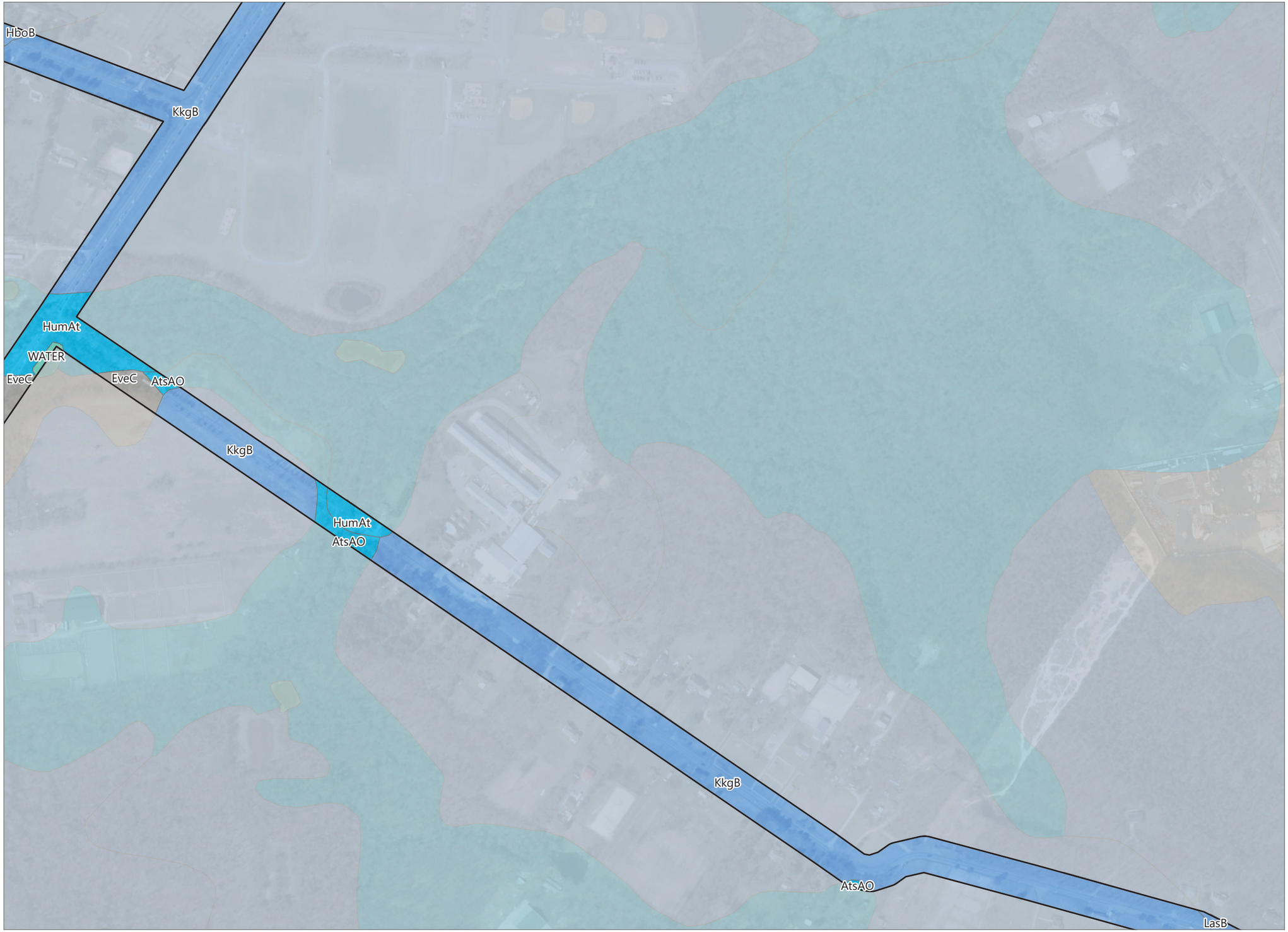

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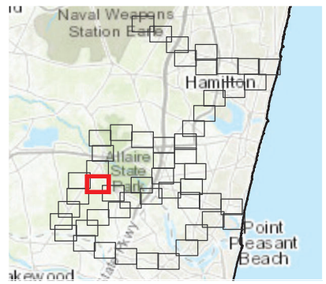

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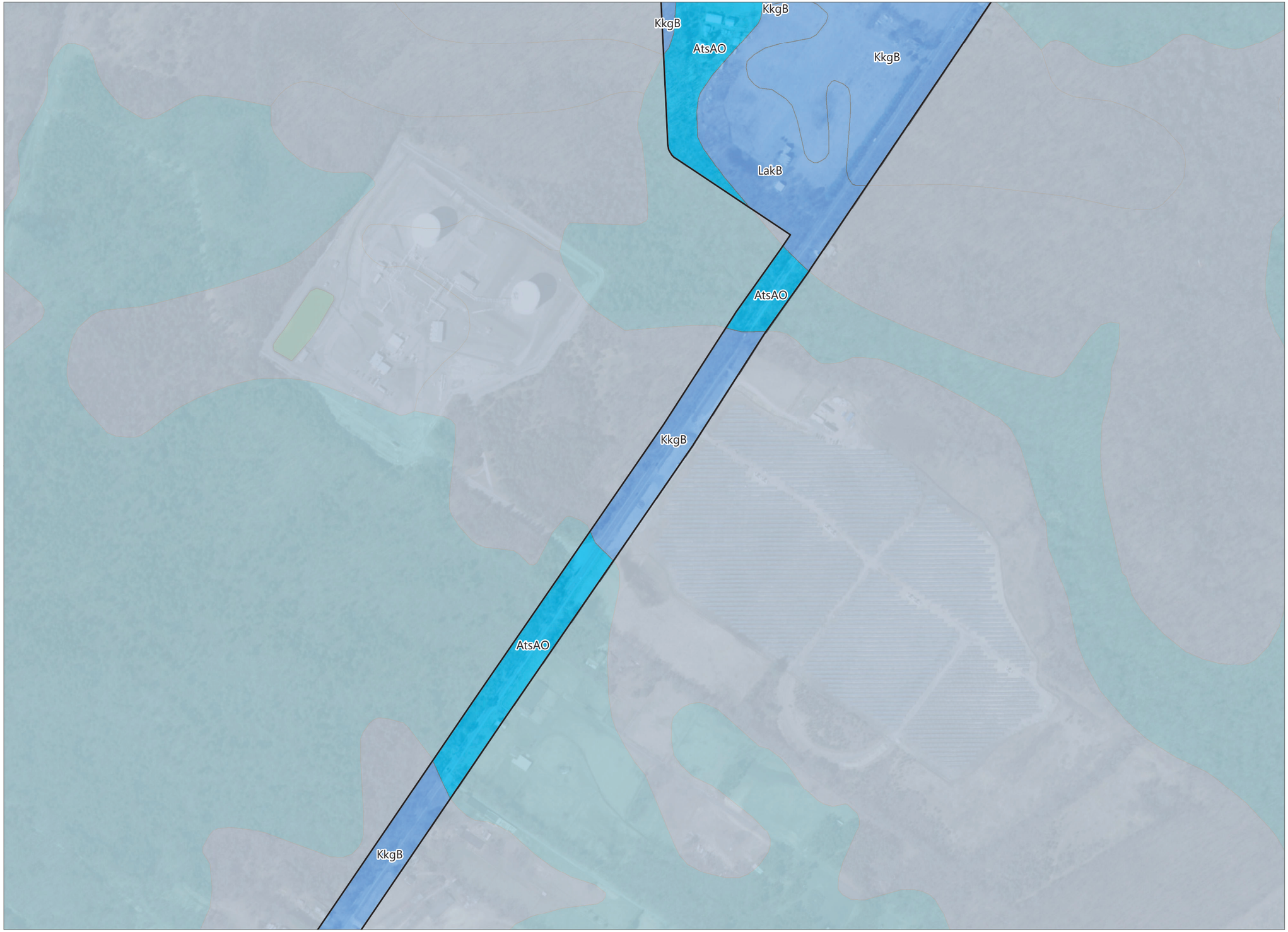

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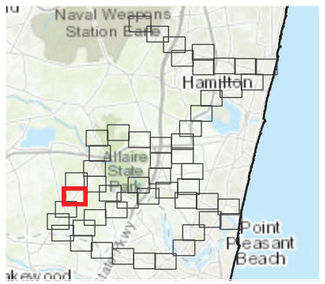

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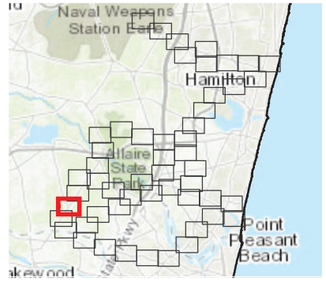

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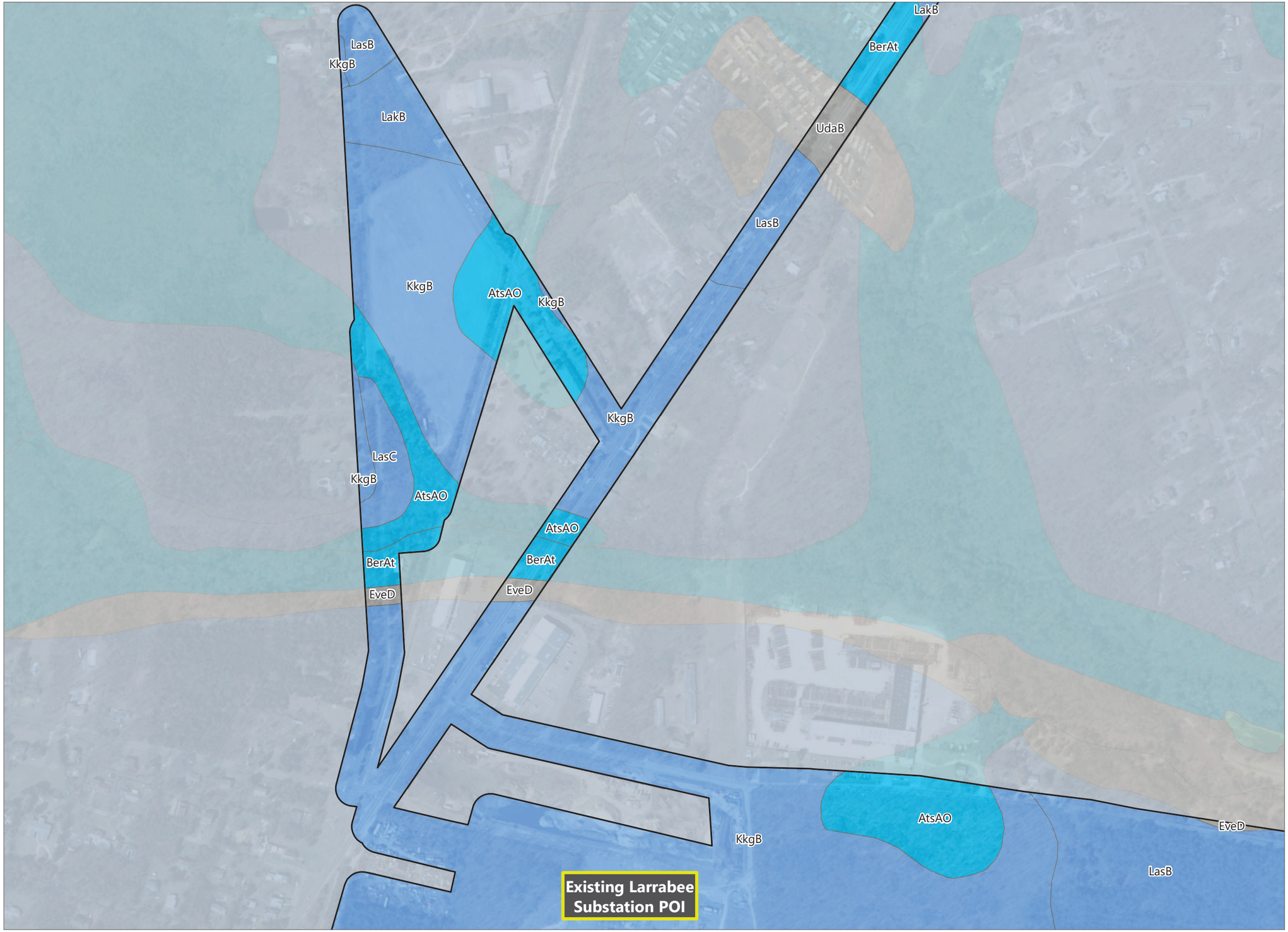

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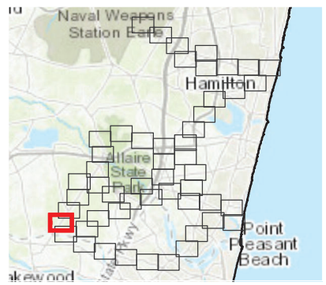

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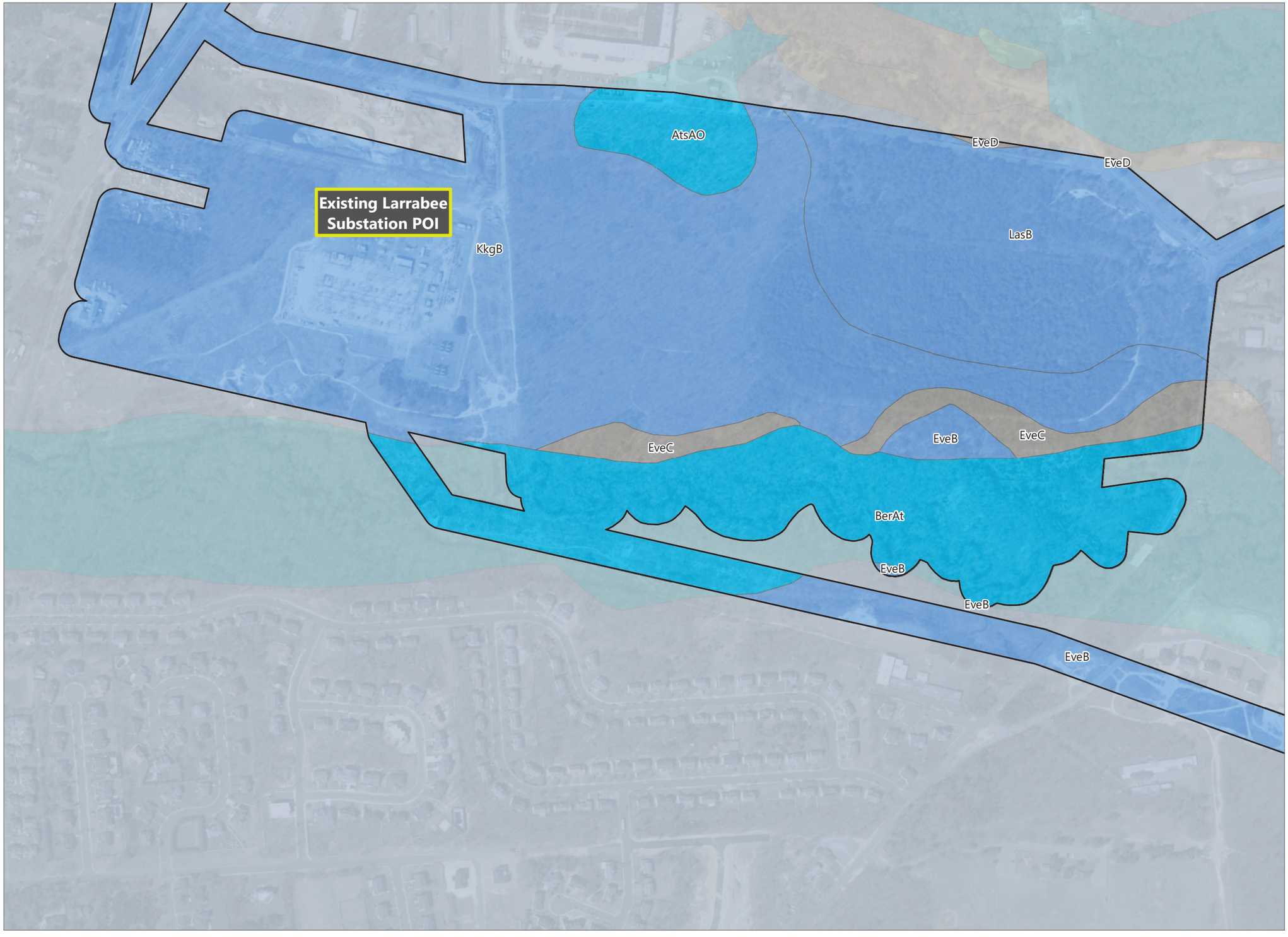

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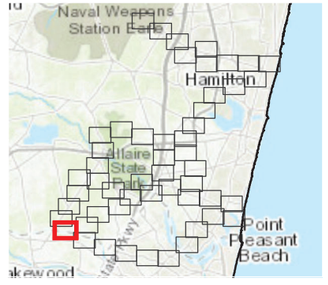

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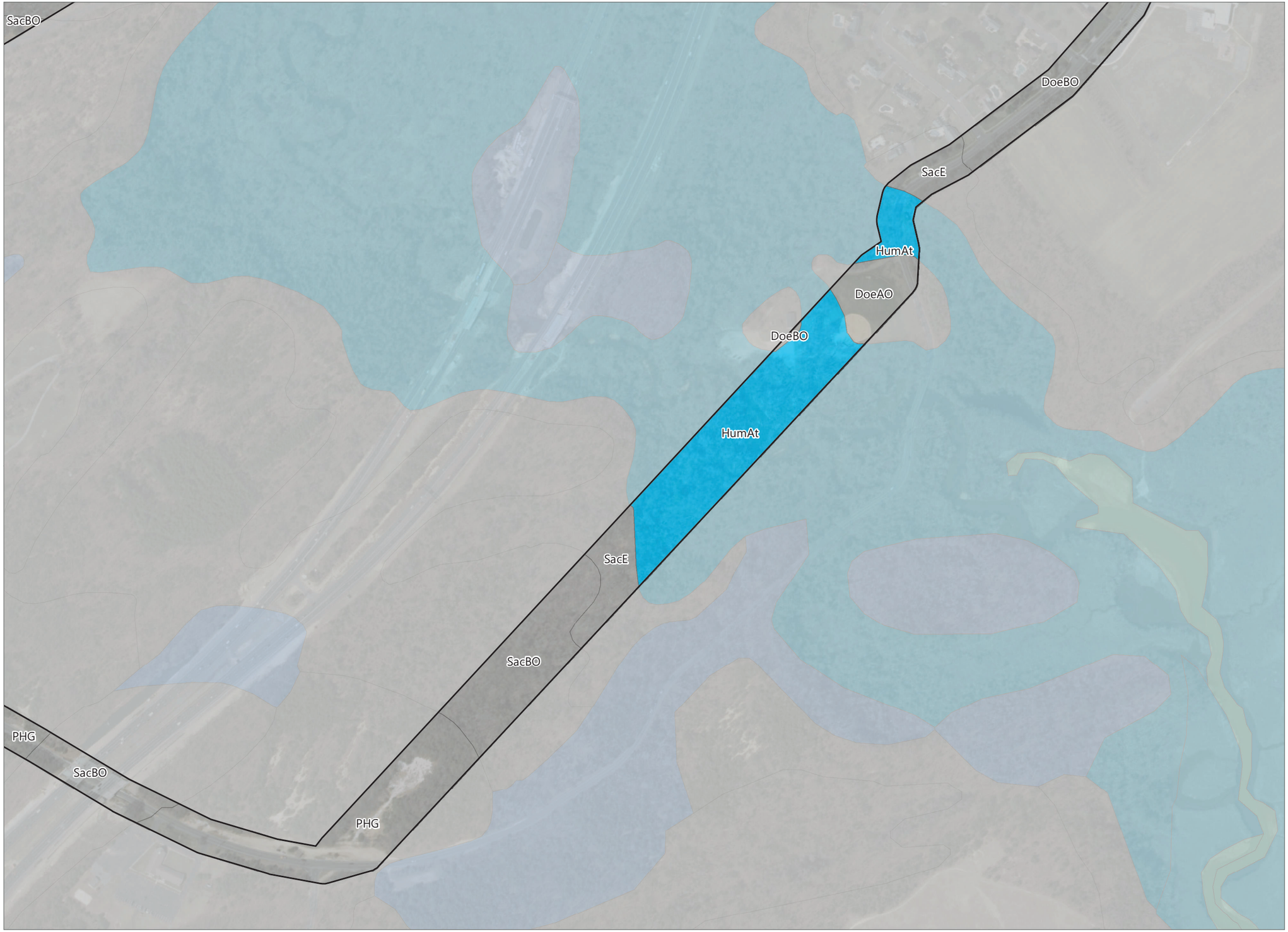

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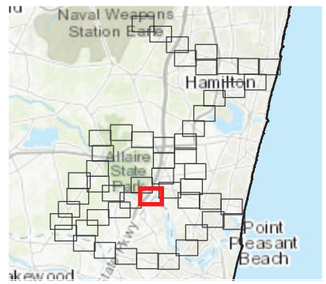

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Feet

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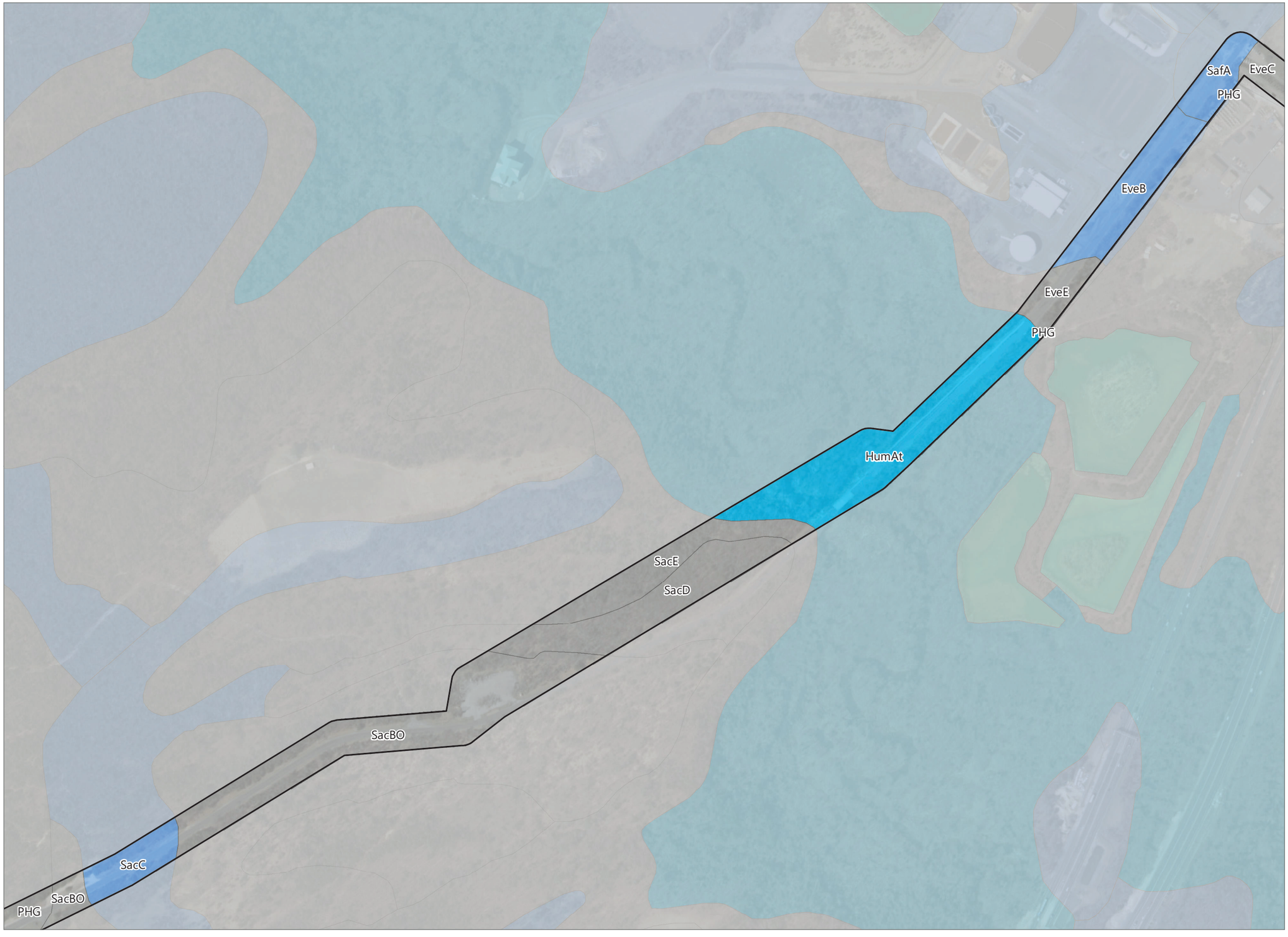
ATLANTIC SHORES offshore wind

EDR



Atlantic Shores Offshore Wind – New Jersey Onshore Project Study Area

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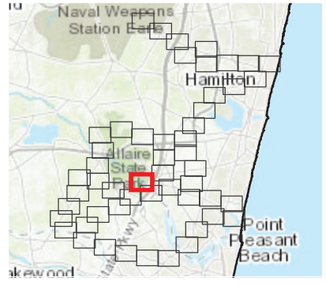

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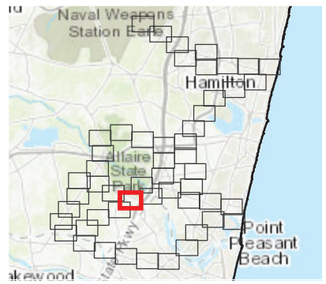

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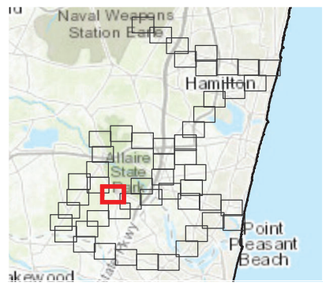

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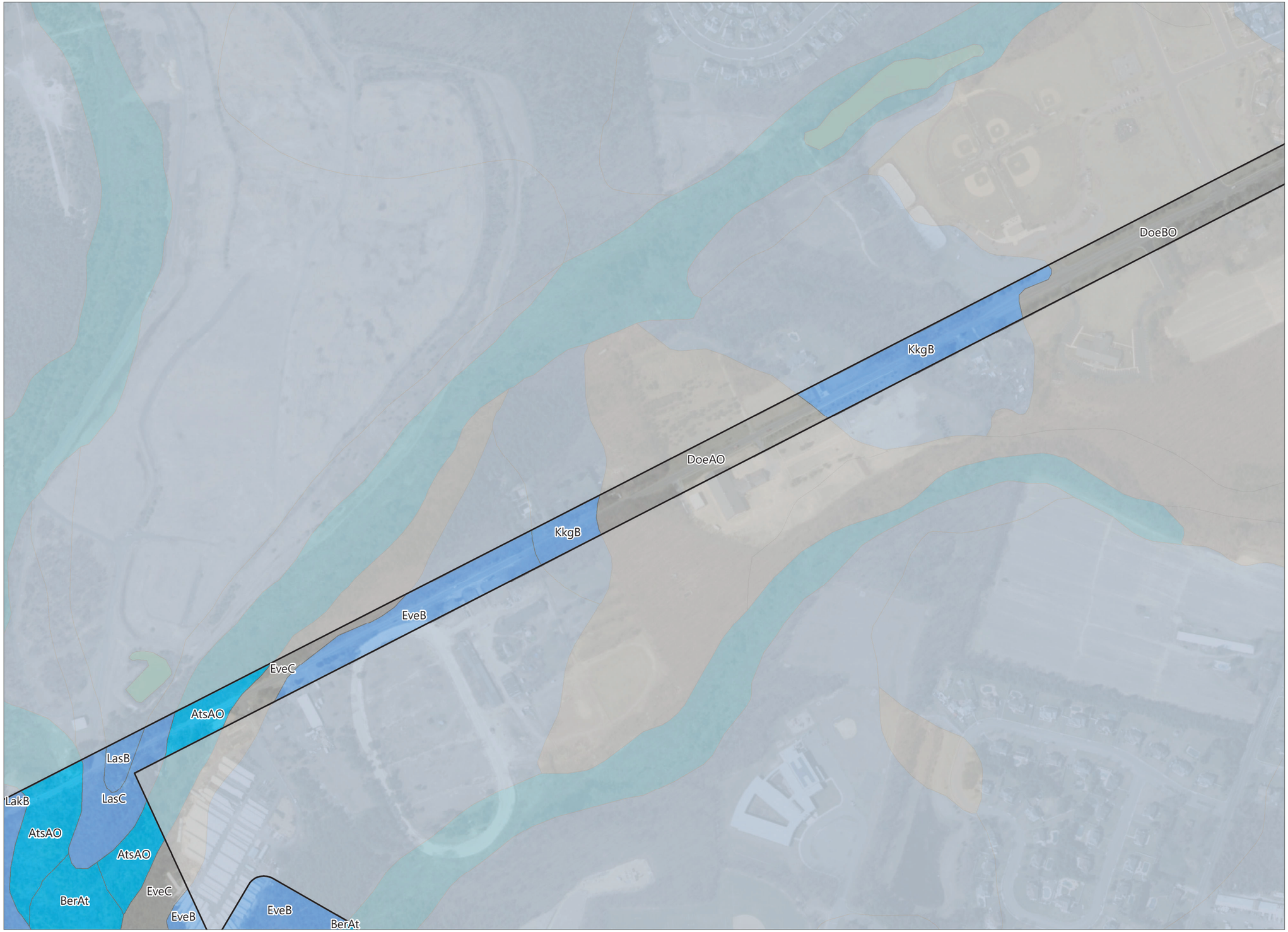

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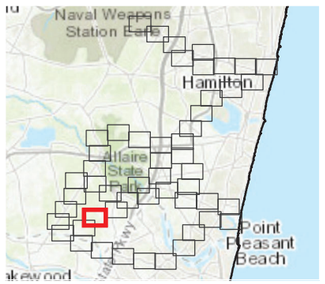

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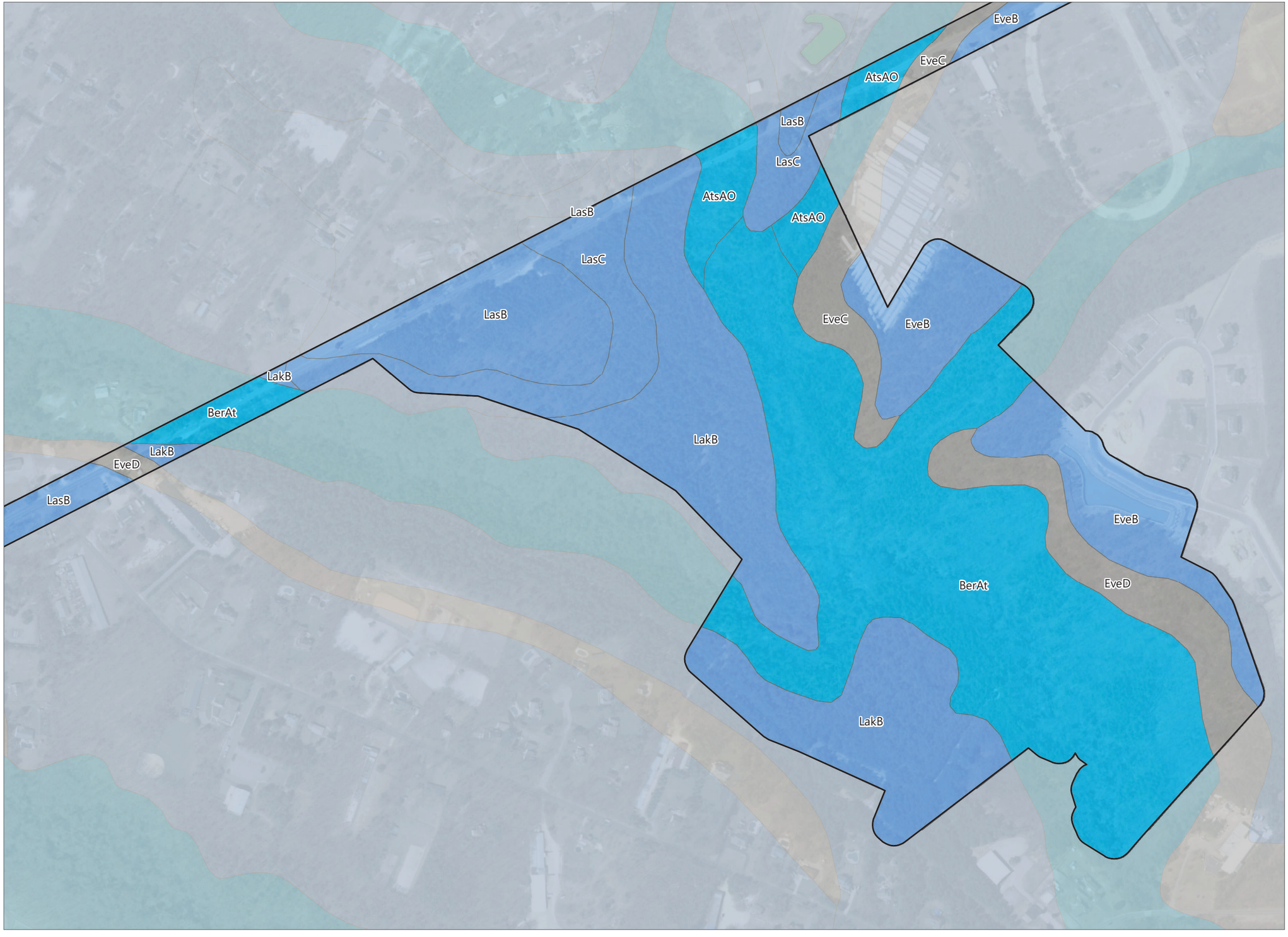

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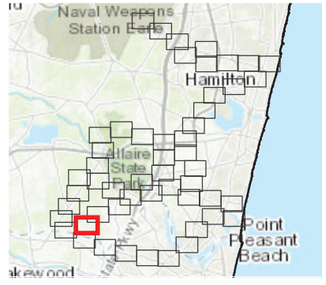

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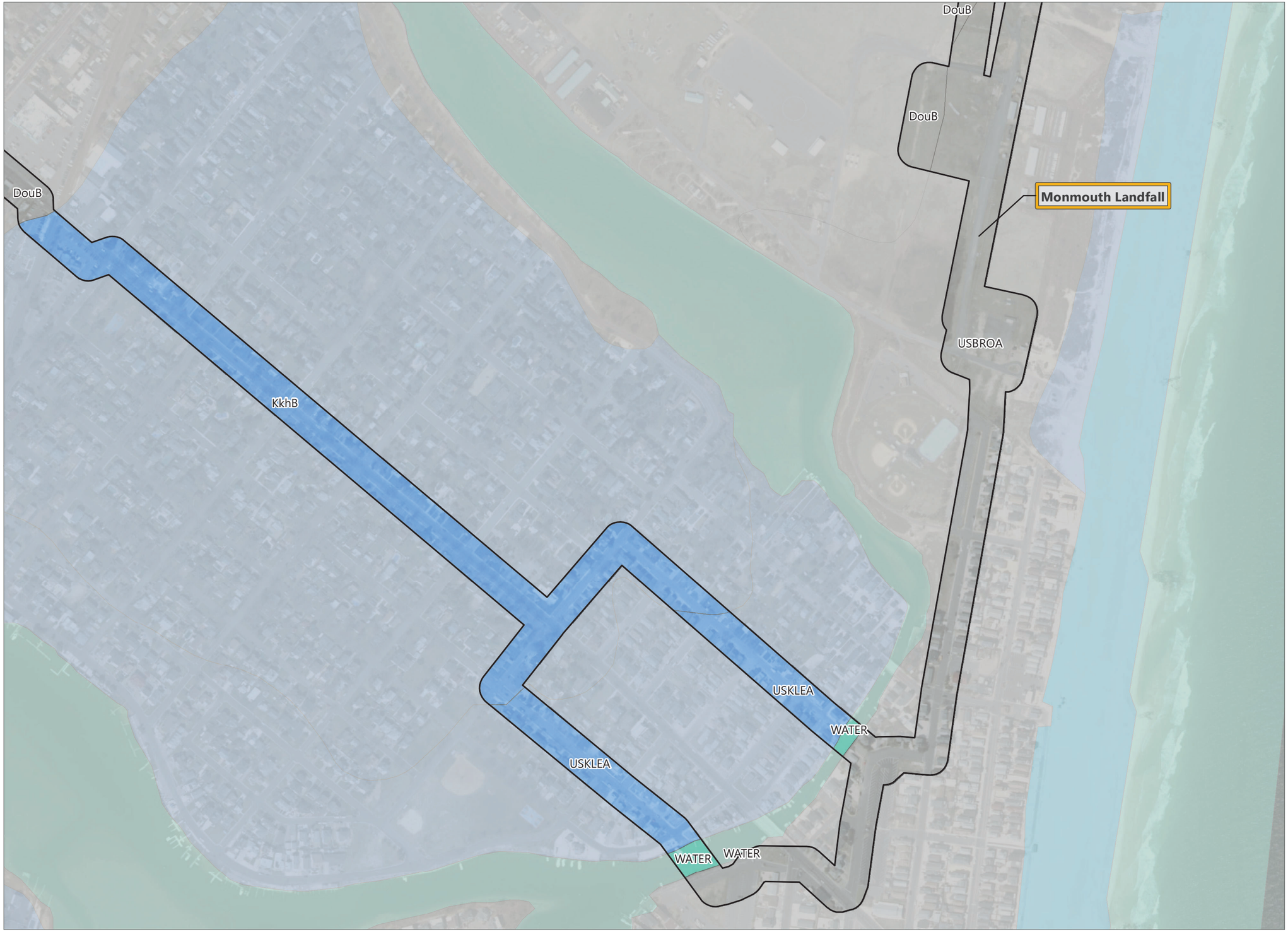

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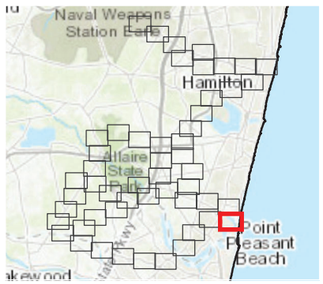

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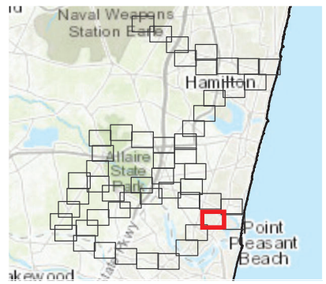

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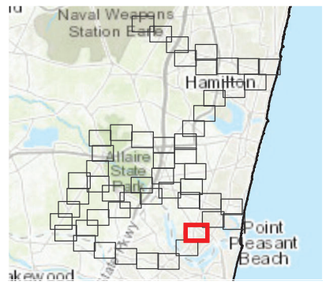

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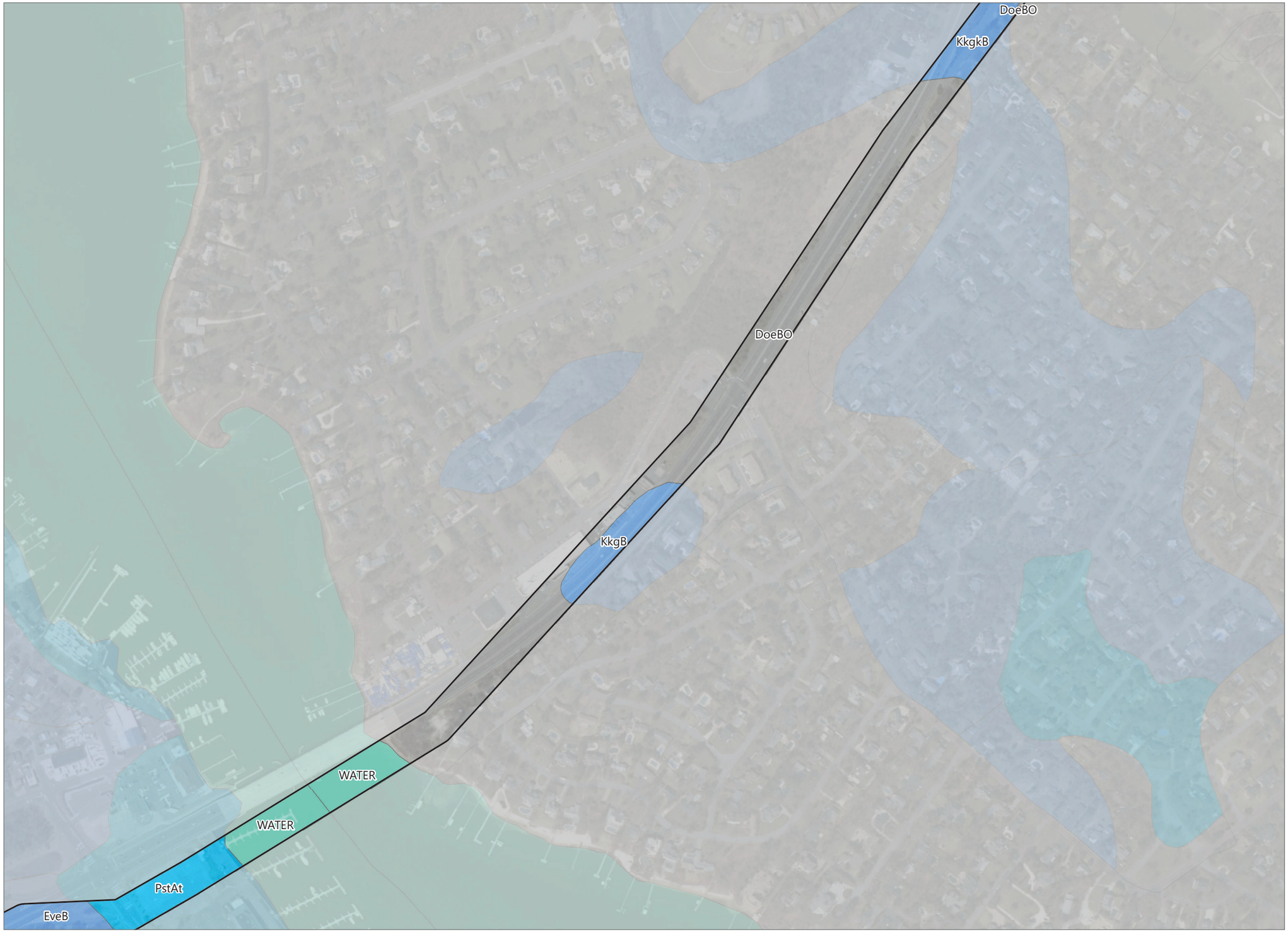

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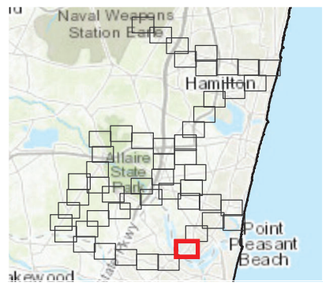

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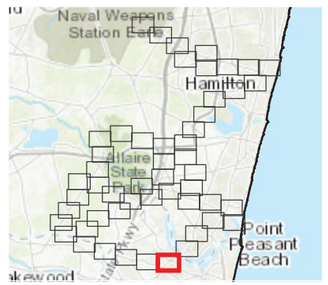

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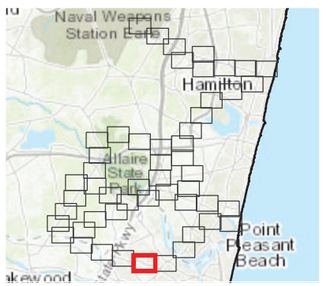

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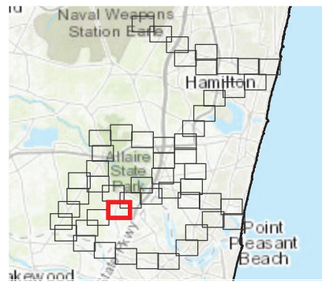

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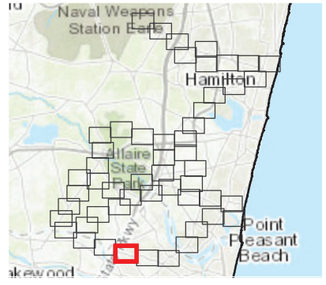

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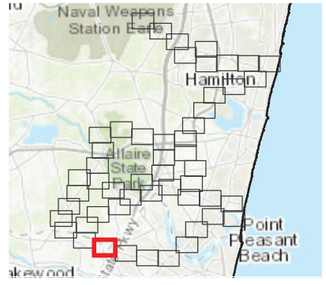

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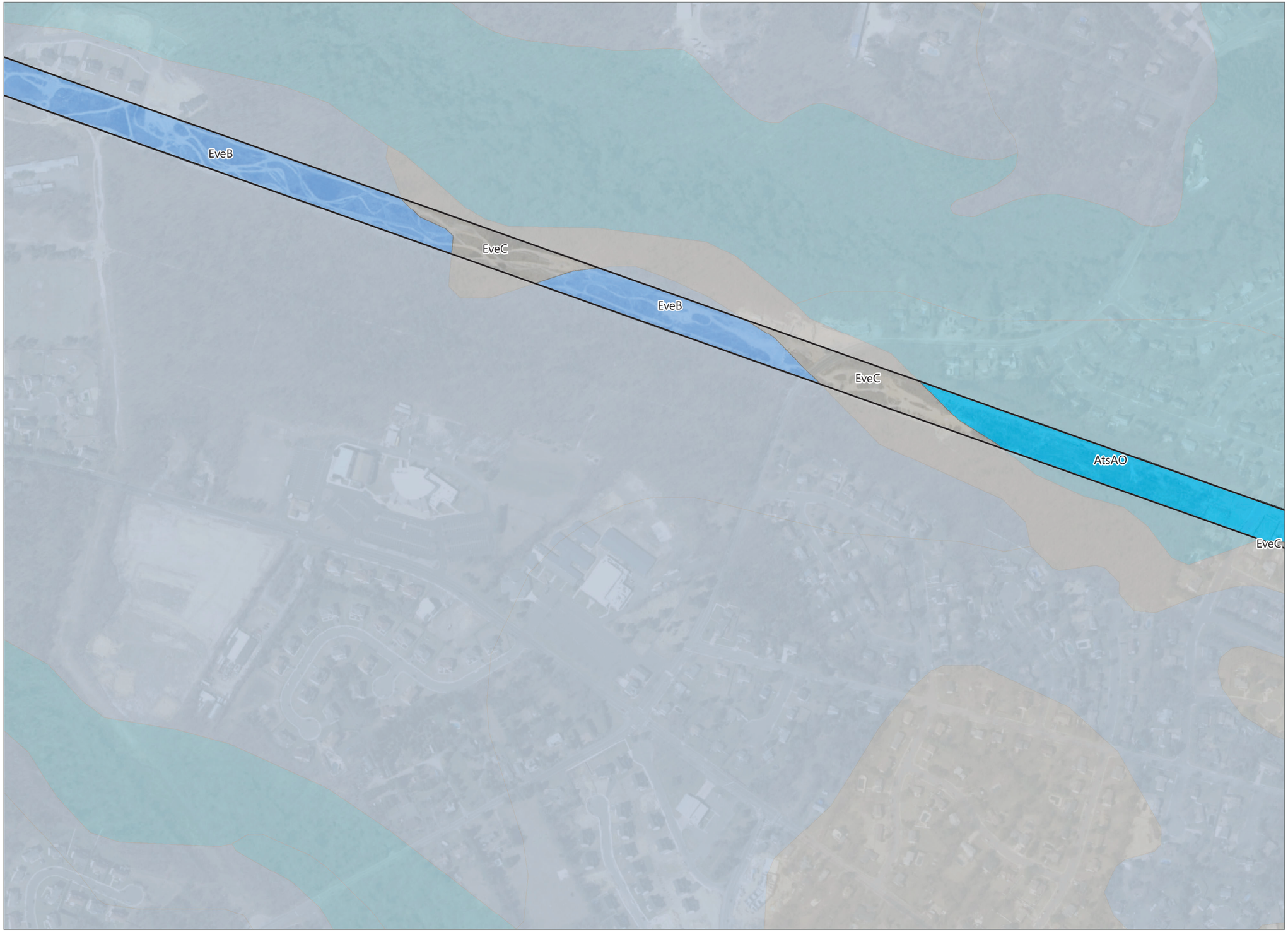

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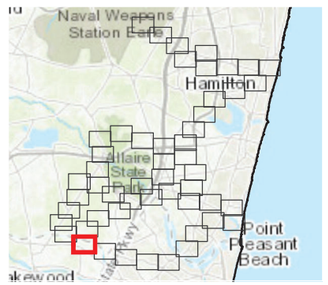

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