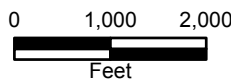
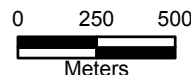


Reference: 2.3-54

Legend

- Site Location
- Plant Discharge
- Surface Temperature (deg C) Contour
- Site Boundary
- Adjacent Off-site Area
- Causeway



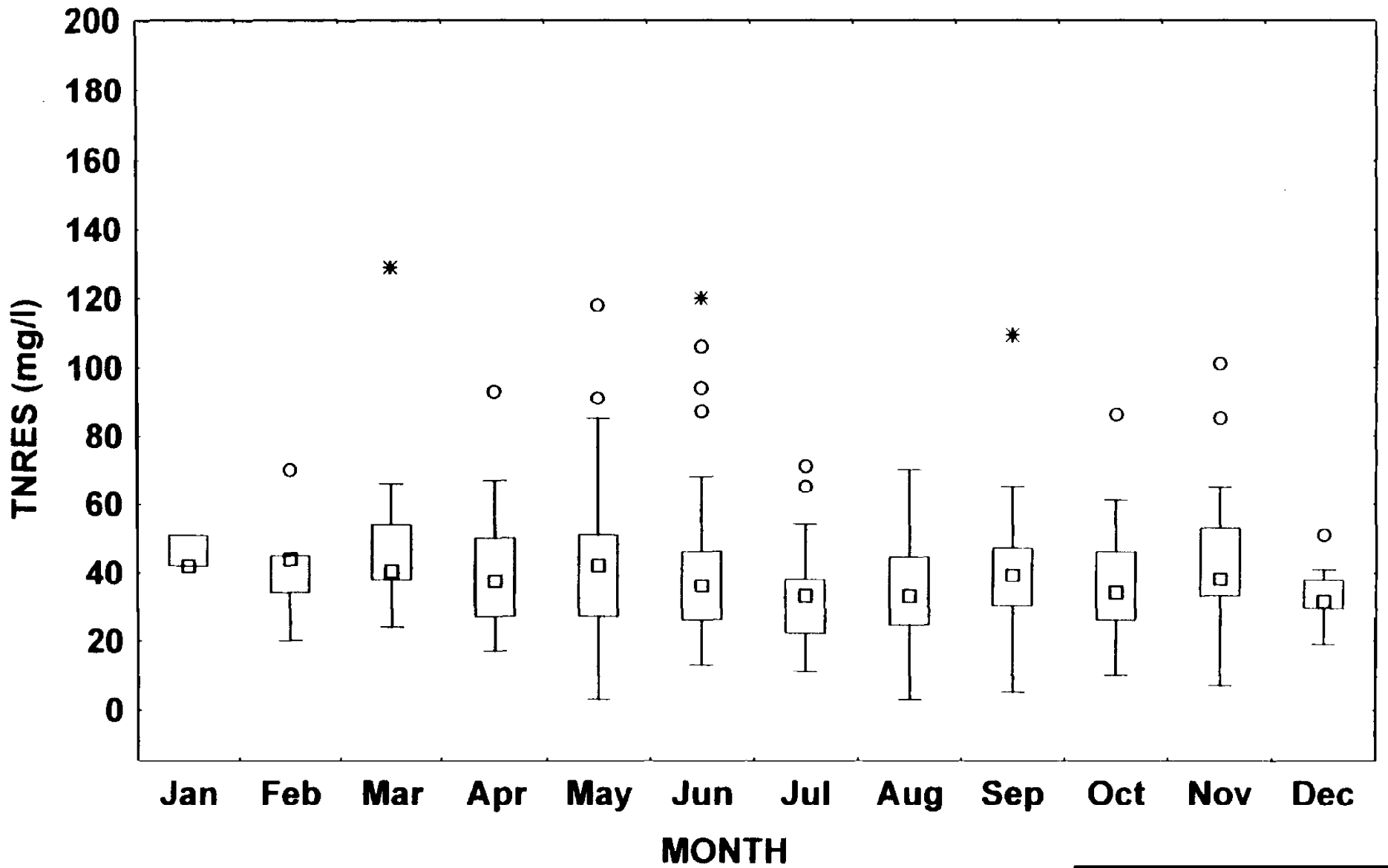
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Contours of Modeled Surface
Temperatures for Slack Phase
(End of Flood Tide) on May 29, 1998

FIGURE 2.3-13 Rev 0

United States Nuclear Regulatory Commission Official Hearing Exhibit		
In the Matter of: PSEG POWER, LLC AND PSEG NUCLEAR, LLC (Early Site Permit Application)		
ASLBP #: 15-943-01-ESP-BD01 Docket #: 05200043 Exhibit #: PSEG004U-MA-BD01 Admitted: 03/24/2016 Rejected: Other:	Identified: 03/24/2016 Withdrawn: Stricken:	





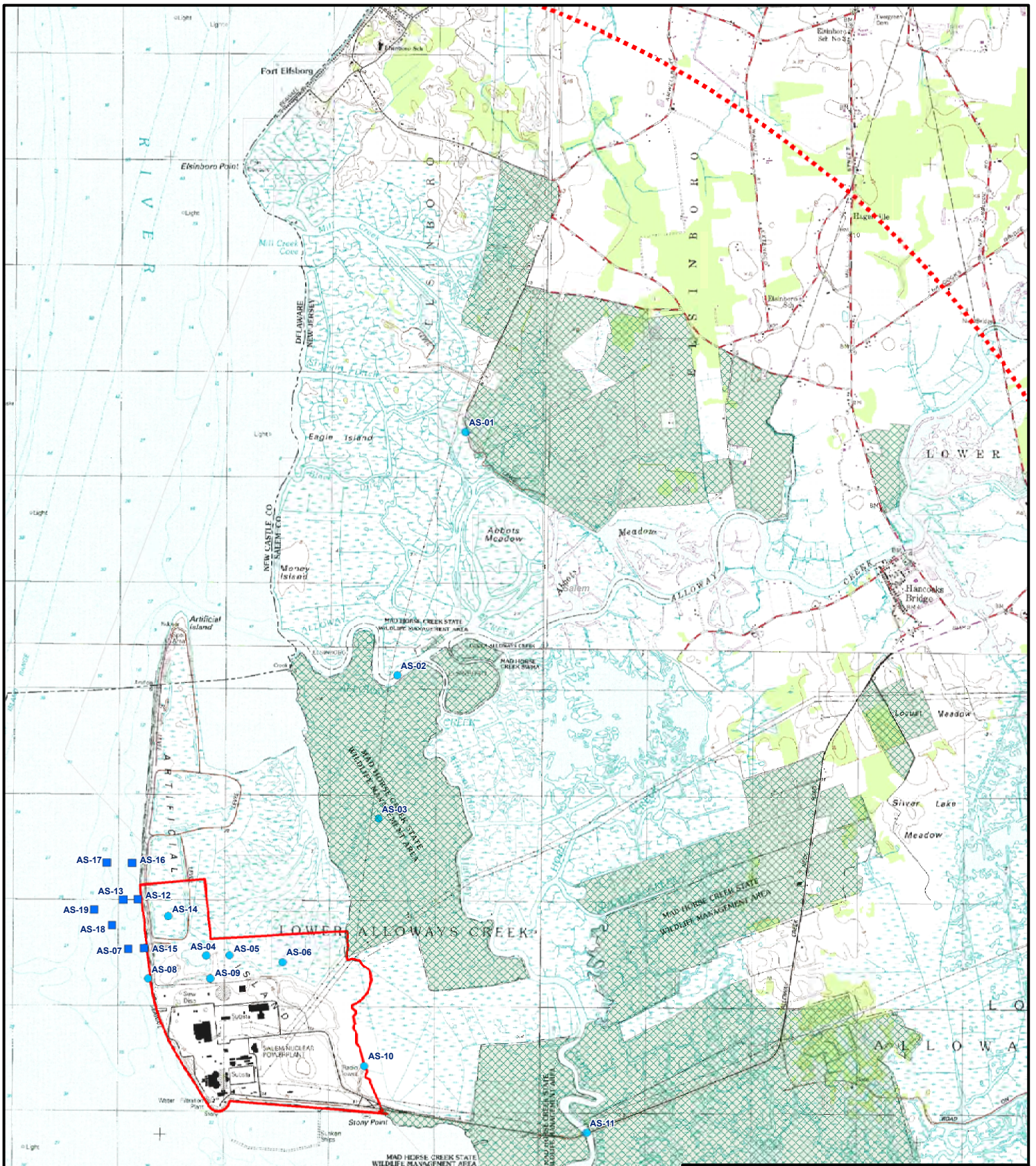
LEGEND

- Non-Outlier Max
- Non-Outlier Min
- 75%
- 25%
- Median
- Outliers
- * Extremes

Reference: 2.3-54

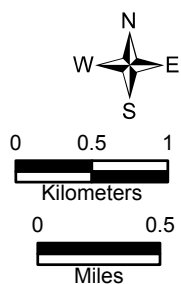
Note - TNRES is total non-filterable residue, equivalent to TSS

<p>PSEG Power, LLC</p> <p>PSEG Site ESPA</p> <p>Part 3, Environmental Report</p>
<p>Monthly TSS Concentrations near PSEG Site</p>
<p>FIGURE 2.3-14</p>
<p>Rev 0</p>



LEGEND

- Surface Water Quality
- Sediment
- Federal/State Owned Land
- Site Boundary
- Vicinity Boundary (6-mile)

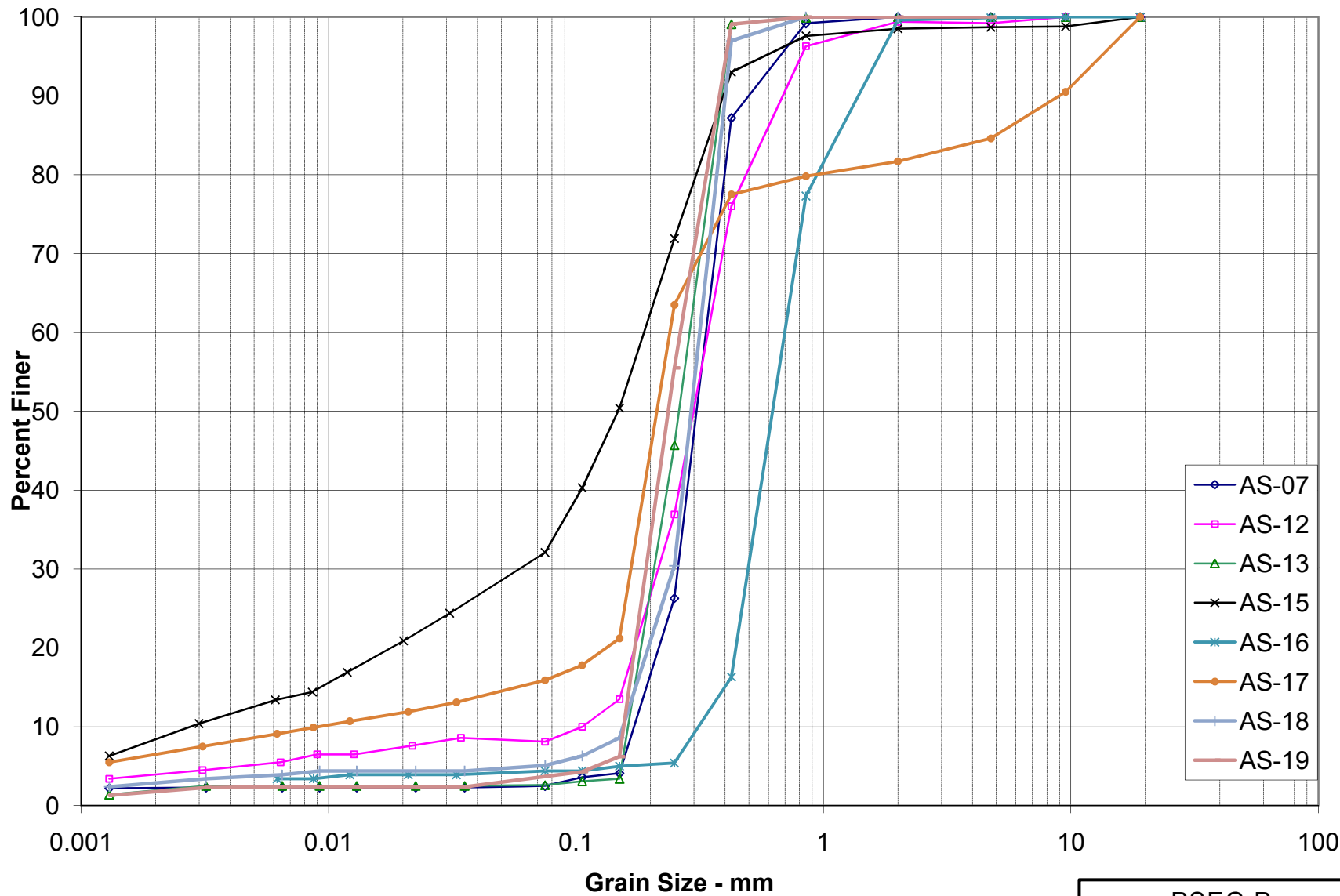


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Surface Water and
 Sediment Grain-Size
 Sampling Locations

FIGURE 2.3-15

Rev 0



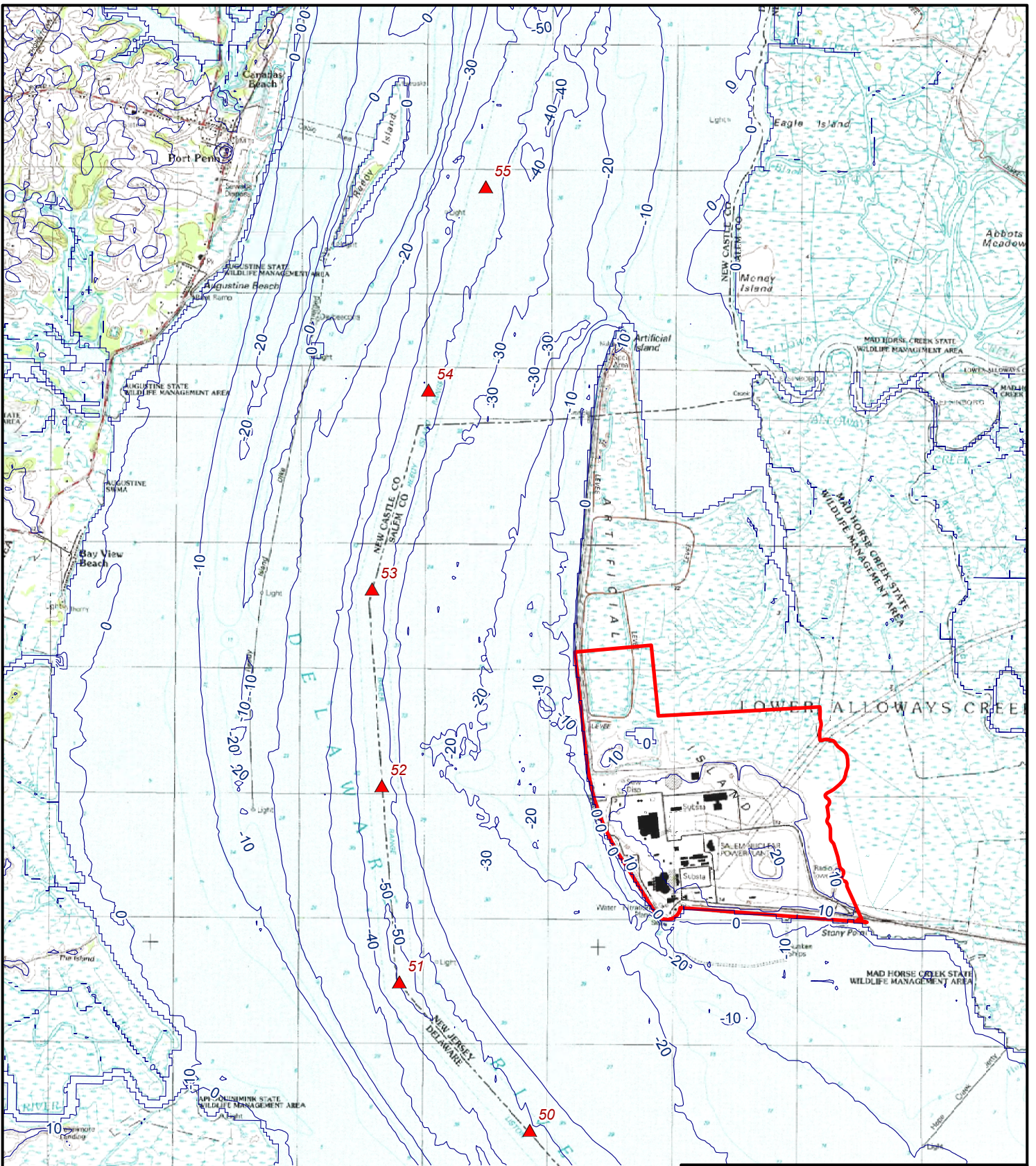
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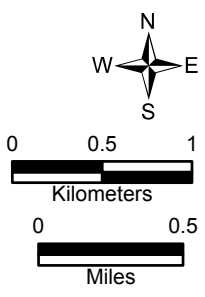
Grain Size Distribution -
Estuary Sediments (0-6 inches)

FIGURE 2.3-16

Rev 0



- LEGEND**
- ▲ Delaware River Miles
 - ~ 10 Foot Contour
 - ▭ Site Boundary



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Delaware River Bathymetric

Map - RM 51 to RM 55

FIGURE 2.3-17

Rev 0

Reference: 2.3-80 and 2.3-98

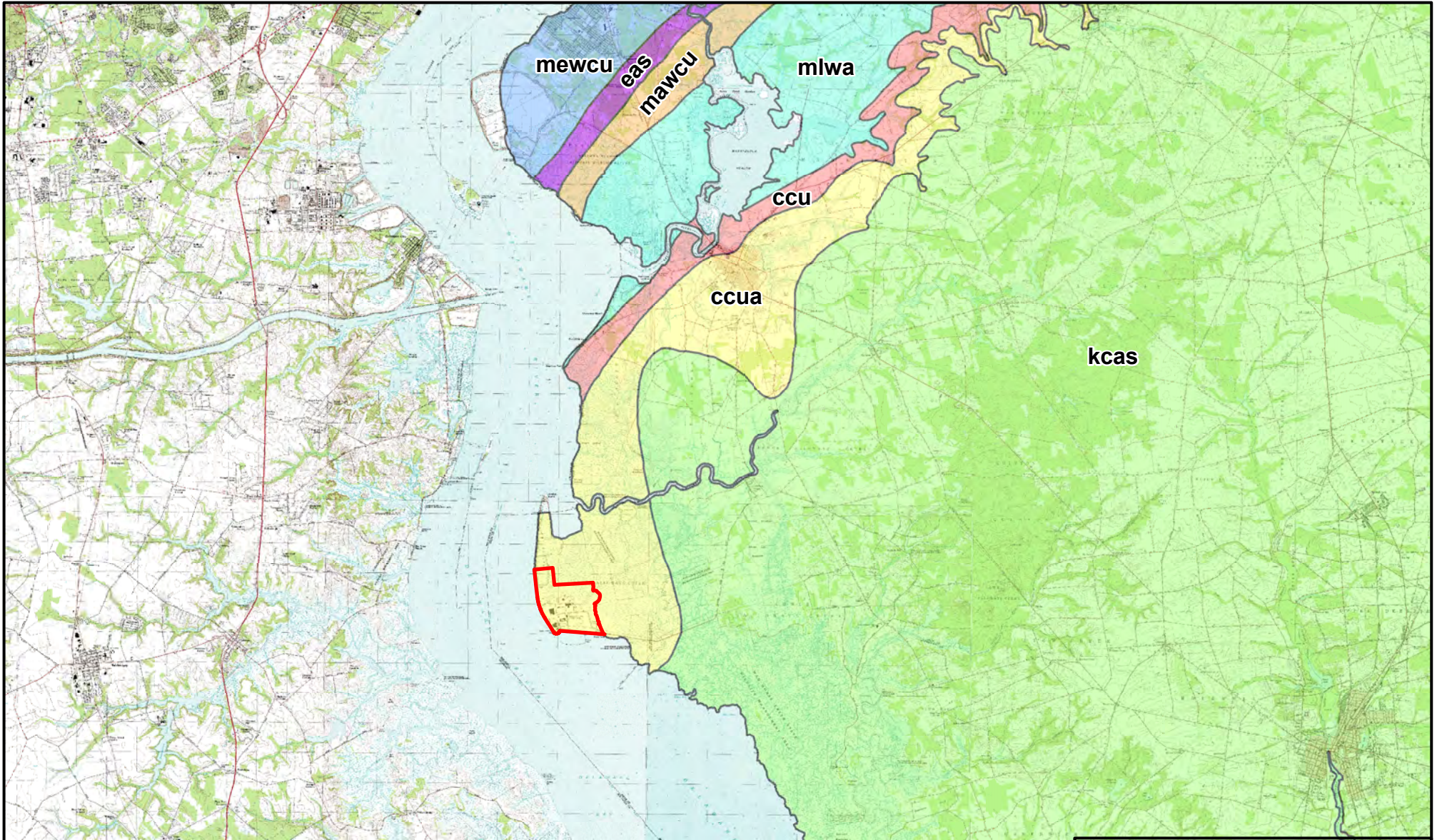
ERA	PERIOD	EPOCH	SITE STRATIGRAPHIC UNIT	LITHOLOGIES	HYDROGEOLOGIC PROPERTIES	
CENOZOIC	QUATERNARY	HOLOCENE (RECENT)	ARTIFICIAL & HYDRAULIC FILL	AF - clays, silts, and sands of various proportions along with clayey and silty gravels.	Leaky confining units	
				HF - soft clayey silts, sandy silts, and organic clays.		
		UNCONFORMITY				
	NEOGENE	PLEISTOCENE	ALLUVIUM	Fine to coarse sand and gravel; peat and organic rich soils; silt and clay near base.	Upper portion is a water-bearing zone; lower silts and clays, when present, act as a leaky confining unit	
				UNCONFORMITY		
	PALEOGENE	PALEOCENE	KIRKWOOD FORMATION	Upper - greenish-gray, silty, fine sand, fine sand and greenish-gray to brown organic clay with organic material and shell fragments.	Leaky confining unit	
				Lower - fine to coarse sand and gravel with variable amounts of silt and clay.	Water-bearing zone, part of the Vincentown aquifer	
	UNCONFORMITY					
	MESOZOIC	CRETACEOUS	UPPER CRETACEOUS	VINCENTOWN FORMATION	Greenish-gray, fine to medium grained silty sand with some zones of clayey sand; variably glauconitic; cemented zones.	Water-bearing zone
				HORNERSTOWN FORMATION	Greenish-gray to dark green, silty and clayey quartz and glauconitic sand with indurated zones.	Upper portion is a water-bearing zone and part of the Vincentown Aquifer. Lower portion, along with the Navesink Formation act as a leaky confining unit.
LOWER CRETACEOUS			NAVESINK FORMATION	Fossiliferous, dark green to greenish-black, glauconitic sand; pelecypod fragments.	Leaky confining unit	
			MOUNT LAUREL FORMATION	Brownish gray to dark green, fine to coarse grained sand; variable amounts of silt and clay; coarsening upward sequence.	Water-bearing zone, with the Wenonah Formation comprise the Wenonah-Mt. Laurel Aquifer	
			WENONAH FORMATION	Sandy clay with clayey sand.	Water-bearing zone	
			MARSHALLTOWN FORMATION	Glauconitic, silty and clayey fine sand.	Confining unit	
			ENGLISHTOWN FORMATION	Dark gray to black, sandy clay to clayey sand with shell fragments. Grades to black silt with trace amounts of mica and glauconite.	Water-bearing zone	
			WOODBURY FORMATION	Black, micaceous clay.	Confining unit	
			MERCHANTVILLE FORMATION	Dark greenish-black, glauconitic silts and clays with variable amounts of sand.	Confining unit	
			MAGOTHY FORMATION	Interbeds of gray to dark gray, locally mottled silts and clays that are interbedded with sands; trace amounts of lignite and carbonaceous material.	Water-bearing zone	
UNCONFORMITY						
		POTOMAC FORMATION	Red, gray, and white mottled clay.	Confining unit		

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Hydrostratigraphic Classification
 for the PSEG Site

FIGURE 2.3-18

Rev 0



LEGEND

Site Boundary

ccu-Composite confining unit

ccua-Composite confining unit aquifer

eas-Englishtown aquifer system

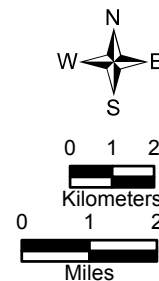
kcas-Kirkwood-Cohansey aquifer system

Major Aquifer

mawcu-Marshalltown-Wenonah confining unit

mewcu-Merchantville-Woodbury confining unit

mlwa-Mt. Laurel-Wenonah aquifer



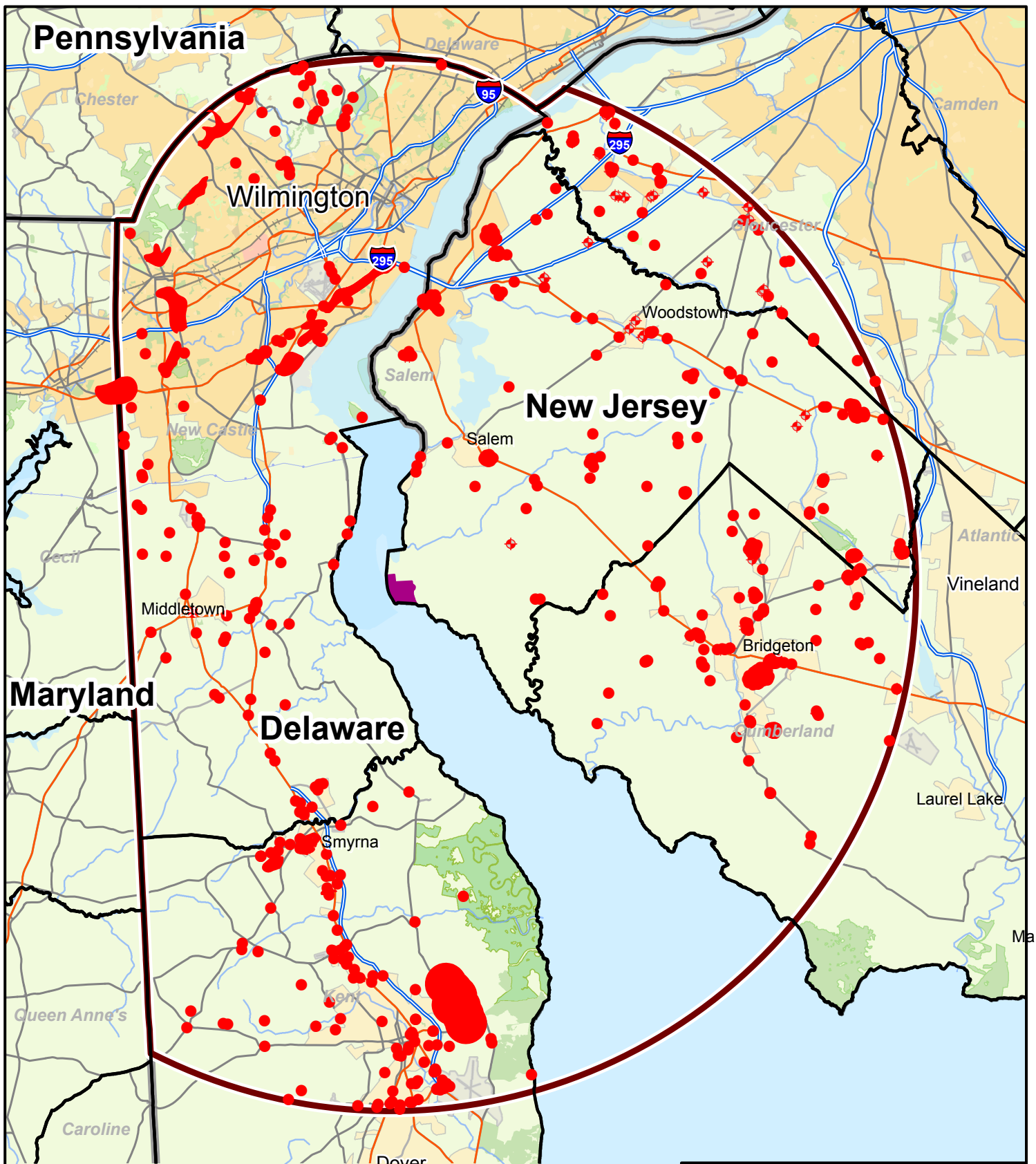
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Hydrogeology,
Extent of Major Aquifers or
Aquifer Systems in NJ

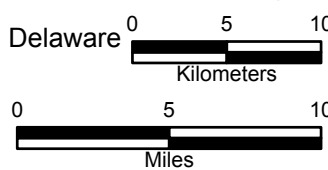
FIGURE 2.3-19

Rev 0



LEGEND

- ◆ Public Water Supply Well
- Well Head Protection Area
- 25-mile Vicinity Boundary within New Jersey and Delaware
- Site Boundary



<p>PSEG Power, LLC</p> <p>PSEG Site ESPA</p> <p>Part 3, Environmental Report</p>
<p>NJ & DE Well Head Protection Areas and NJ Public Supply Wells Within 25 Miles of the PSEG Site</p>
<p>FIGURE 2.3-20 Rev 0</p>