Era	System	Series	Stratigraphic Unit		Predominant Lithology	
CENOZOIC	Quaternary	Holocene	alluvial, coastal, marsh, and eolian deposits		sand, gravel, silt, mud, and peat	
		Pleistocene	**COASTAL AREAS** Wisconsin alluvium, Cape May Formation, colluvium	**INLAND, NORTHERN NEW JERSEY** Wisconsin and pre-Wisconsin alluvial, colluvial, glacial, lacustrine, and eolian deposits	sand, gravel, silt, clay (statewide), till and till-like deposits (northern New Jersey)	
	Tertiary	Miocene	Pensauken Formation		sand, clayey silt	
			Bridgeton Formation			
			Beacon Hill Gravel		gravel, sand	
			Cohansey Sand		sand, some clayey silt	
			Kirkwood Formation		sand, gravel, clayey silt	
		Oligocene	ACGS Beta Unit (Piney Point)		sand, some glauconitic sand	
			Mays Landing Unit			
		Eocene	Shark River Formation		clayey silt, fine quartz sand, glauconitic sand	
			Manasquan Formation			
		Paleocene	Vincentown Formation		sand, clayey silt, glauconitic sand, calcarenite	
			Hornerstown Formation		glauconitic sand	
MESOZOIC	Cretaceous	Upper Cretaceous	Tinton Sand		sand, glauconitic sand	
			Red Bank Sand		sand, clayey silt, some glauconite sand	
			Navesink Formation		glauconite sand	
			Mount Laurel Sand		sand	
			Wenonah Formation		silty sand, some glauconite	
			Marshalltown Formation		clayey silt, glauconitic sand	
			Englishtown Formation		sand, clayey silt	
			Woodbury Clay		clayey silt	
			Merchantville Formation		clayey silt, glauconitic sand	
			Magothy Formation		sand, clayey silt	
			Raritan Formation			
		Lower Cretaceous	Potomac Group		gravel, sand, silt, clay	
	Jurassic	Lower Jurassic	Newark Supergroup / Brunswick Group	Boonton Formation	sandstone, siltstone, shale, conglomerate	
				Hook Mountain Basalt	basalt	
				Towaco Formation	sandstone, siltstone, shale, conglomerate	
				Preakness Basalt	basalt, intercalated sedimentary rock	
				Feltville Formation	sandstone, siltstone, shale, conglomerate, limestone	
				Orange Mtn. Basalt / diabase intrusives	basalt / diabase	
				Passaic Formation	sandstone, siltstone, shale, conglomerate	
	Triassic	Upper Jurassic	Newark Supergroup	Lockatong Formation	siltstone, mudstone, sandstone, shale	
				Stockton Formation	arkosic sandstone, siltstone, shale, conglomerate	

		VALLEY AND RIDGE		GREEN POND MOUNTAIN REGION	
		Stratigraphic unit	**Predominant lithology**	**Stratigraphic unit**	**Predominant lithology**
PALEOZOIC	Devonian			Skunnemunk Conglomerate	conglomerate
				Bellvale Sandstone	sandstone, siltstone, shale
				Cornwall Shale	shale, siltstone
				Kanouse Sandstone	conglomeratic sandstone, siltstone
				Esopus Formation	siltstone, sandstone
				Connelly Conglomerate	conglomeratic quartzite
		Marcellus Shale	shale, siltstone		
		Buttermilk Falls Limestone	argillaceous limestone		
		Schoharie Formation	calcareous siltstone		
		Esopus Formation	siltstone, sandstone		
		Oriskany Group: Ridgely Sandstone	sandstone, calcareous conglomerate		
		Oriskany Group: Shriver Chert	shale, siltstone, chert		
		Oriskany Group: Glenerie Formation	limestone		
		Helderburg Group: Port Ewen Shale	calcareous shale, siltstone		
		Helderburg Group: Minisink Limestone	limestone, calcareous shale		
		Helderburg Group: New Scotland Formation	calcareous silty shale		
		Helderburg Group: Coeymans Formation	limestone, sandstone, conglomerate		
		Rondout Formation	limestone, calcareous shale, dolomite		
	Silurian	Decker Formation	calcareous sandstone, silty limestone	Berkshire Valley Formation	calcareous siltstone, silty dolomite, sandstone
		Bossardville Limestone	argillaceous, partly dolomitic limestone		
		Poxono Island Formation	calcareous shale, dolomite	Poxono Island Formation	calcareous shale, dolomite
		Bloomsburg Red Beds	shale, siltstone, sandstone	Longwood Shale	shale, siltstone
		Shawangunk Formation	conglomeratic quartzite	Green Pond Conglomerate	conglomeratic quartzite, siltstone

			Stratigraphic Unit			Predominant Lithology	
PALEOZOIC	Ordovician		Beemerville intrusive complex			nepheline syenite, intrusive alkalic igneous rocks	
			Martinsburg Formation			slate, siltstone, graywacke	
		Middle Ordovician	Jacksonburg Limestone		Jutland klippe units (not part of Kittatinny Supergroup)	limestone, argillaceous limestone	shale, limestone, chert (Jutland)
		Lower Ordovician	Kittatinny Supergroup / Beekmantown Group	Ontelaunee Formation		dolomite, limestone (Ontelaunee, Epler)	
				Epler Formation			
				Rickenbach Dolomite		sandy dolomite (Rickenbach)	
	Cambrian	Upper Cambrian	Kittatinny Supergroup	Allentown Dolomite		dolomite, calcareous limestone	
		Middle Cambrian		Leithsville Formation		dolomite, calcareous shale	
		Lower Cambrian	Hardyston Quartzite			arkosic quartzite, conglomerate (Hardyston)	
?	Ordovician (?) Cambrian (?) Late Proterozoic (?)		Manhattan Schist, Wissahickon Formation, serpentinite, Chickies Quartzite			sillimanite-garnet-muscovite-biotite schist (Manhatttan); schist, metagraywacke, amphibolite, altered ultramafics (Wissahickon); highly sheared serpentinite preserving few original igneous structures; quartz-sericite schist, conglomerate (Chickies)	
PROTEROZOIC	Late Proterozoic (?)		Chestnut Hill Formation			greenshist-grade sedimentary and metavolcanic (?) rock	
	Middle Proterozoic		Byram Intrusive Suite, Lake Hopatcong Intrusive Suite, Mount Eve Granite			granite, quartz syenite, syenite, quartz monzonite, monzonite, and granodiorite	
			metasedimentary rocks			quartzofeldspathic and calcareous metasedimentary rocks including the Franklin and Wildcat Marbles	
			Losee Metamorphic Suite			highly sodic gneissic and granitoid rocks; amphibolite	

from New Jersey Geological Survey, 1990
(Reference 2.5.1-141)

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

Generalized Stratigraphic Table for New Jersey

FIGURE 2.5.1-11

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