			Formation/Unit		Primary Lithologies		Geologic Conditions	Unit Thickness	Occurrence in Site Area
CENOZOIC	Cretaceous Tertiary Quaternary	Holocene	Quaternary Marsh deposits		muck and peat; silt, sand and clay		aggradation of Delaware Bay estuary	variable thickness	present over most of the site area in low lying areas
		Pleistocene	DELAWARE Scotts Corners Formation -~ unconformity -~ Lynch Heights Formation	NEW JERSEY Cape May Formation	estuarine terrace deposits with coars concentrations of heavy minerals; pe	eat; isolated fluvial deposits?	transgressive and regressive cycles	variable thickness	outcrops in eastern and western portions of the site area
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		unconformity		regression and erosion		
		Upper Tertiary (Miocene)	Kirkwood Formation		clay silt and sand deposited in two or three marine cycles		polycyclic transgression and regression phases	90 feet at southern portions of site area; pinches out northward	subcrop only
		· E	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		,		regression and erosion		
		_	Shark River Formation		<del>-</del>		low sediment input	70 feet (Reference 2.6-10)	subcrop only
		Lower	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~ unconformity ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		regression and erosion		
			Manasquan Formation		lower glauconitic member; upper clayey sand to silt member		low sediment input and bioturbation	40 feet (Reference 2.6-10)	subcrop only
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		unconformity		regression and erosion		'
			Vincentown Formation		quartz sand to quartz-rich calcareous sand with bryozoians and foraminifera highly glauconitic sand with distinctive green color		low sediment input and extreme bioturbation	90 feet (Reference 2.6-10)	outcrops in NW site area
			Hornerstown Formation					30 feet (Reference 2.6-10)	
MESOZOIC		Upper Cretaceous	Navesink				transgression to midshelf conditions	20 feet (Reference 2.6-10)	subcrop only
			Mount Laurel Formation		thinly bedded clays and sands with cross-bedding; thin pebbly sands		regressive pulse; low sediment input	100 feet (Reference 2.6-10)	
			Wenonah Formation		clayey, silty, slightly glauconitic fine sand			100 leet (Neierence 2.0-10)	
			Marshalltown Formation		intensely burrowed, very silty fine sand with glauconite		transgression; low sediment input	20 feet (Reference 2.6-10)	subsurface only
			Englishtown Formation		micaceous silt to very fine sand		regressive pulse	25 feet (Reference 2.6-10)	
			Woodbury Formation		micaceous, chloritic, silty clay			25 leet (Reference 2.0-10)	
			Merchantville Formation		glaucoffilic sand to micaceous silty clay		transgression and establishment of widespread marine conditions; low sediment rates	120 feet (Reference 2.6-10)	
			Magothy Formation		beach and estuarine deposits of cross-bedded sand, with clay and silt layers; some lignite		transition to marine conditions	50 feet, pinches out north of site location (Reference 2.6-10)	
							regression and erosion		
	Triassic	Lower Cretaceous	Potomac Group (Formation)				aggrading alluvial plain; thermal subsidence	800 to 1650 feet (Reference 2.6-10)	
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				uplift and erosion		
			Basement Complex						
		Upper Triassic	Triassic Basin?		Fanglomerates and lacustrine sediments; diabase volcanics				
PRECAMBRIAN? PALEOZOIC?	Proterozoic? Paleozoic?	NeoProterozoic to Silurian?	Carolina Superterrane?	Philadelphia Terrane?	meta mafic to felsic plutons and volcanics with sediments, and ultramafic components	aluminous to quartz-rich schist with interbedded amphibolites (Wissahickon Formation) with ultramafic components; Wilimington Complex felsic to mafic arc complex	Amalgamation of Pangea followed by rifting to form North America	undetermined	

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PSEG Site ESPA
Part 3, Environmental Report

Site Area Stratigraphy

FIGURE 2.6-3