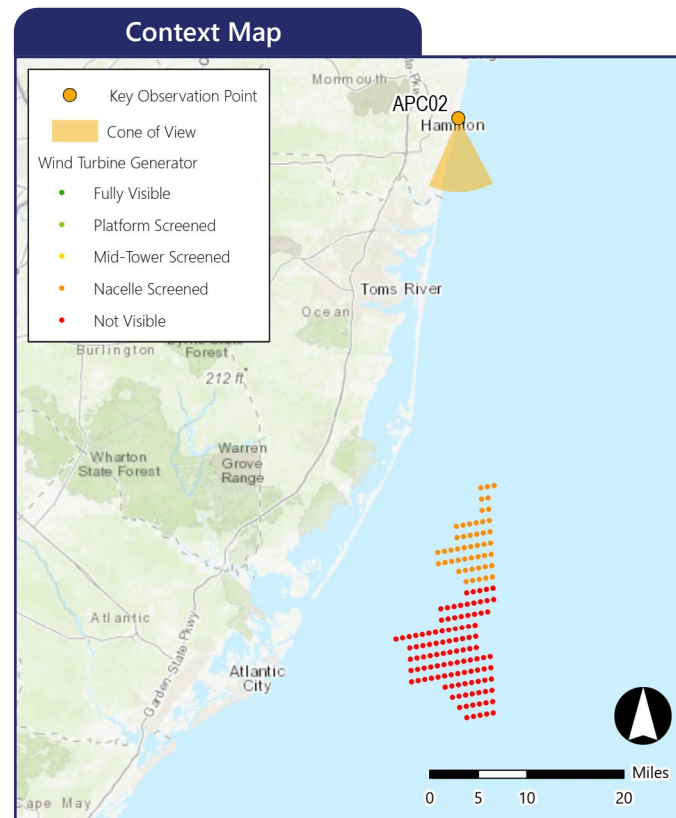


APC02 Asbury Park Convention Center (Beach)

Asbury Park City, Monmouth County, New Jersey



The image above is a +/- 124° panorama photograph from the Asbury Park Convention Center (Beach), panning clockwise from southeast (left) to southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 40.22099°N, 73.99873°W
 Character Area: Commercial Beachfront, Seascape (SCA)
 User Group: L. Residents, Tourists, S. Resident
 Direction of View: South
 Distance to Nearest Visible Turbine: 38.0 miles
 Sensitive Resource: Asbury Park Convention Hall, Boardwalk and Beach, Howard Johnson's Pavilion, New Jersey Coastal Heritage Trail Area, Census Tract 8070.03, EJA

Environmental Information

Date Taken: 03/03/2022
 Time: 2:00 PM
 Temperature: 43°F
 Humidity: 31%
 Visibility: 10 miles
 Wind Direction: West-northwest
 Wind Speed: 14 mph
 Conditions Observed: Partly Cloudy

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 14.5 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



Photograph APC24357

APC02 Asbury Park Convention Center (Beach)

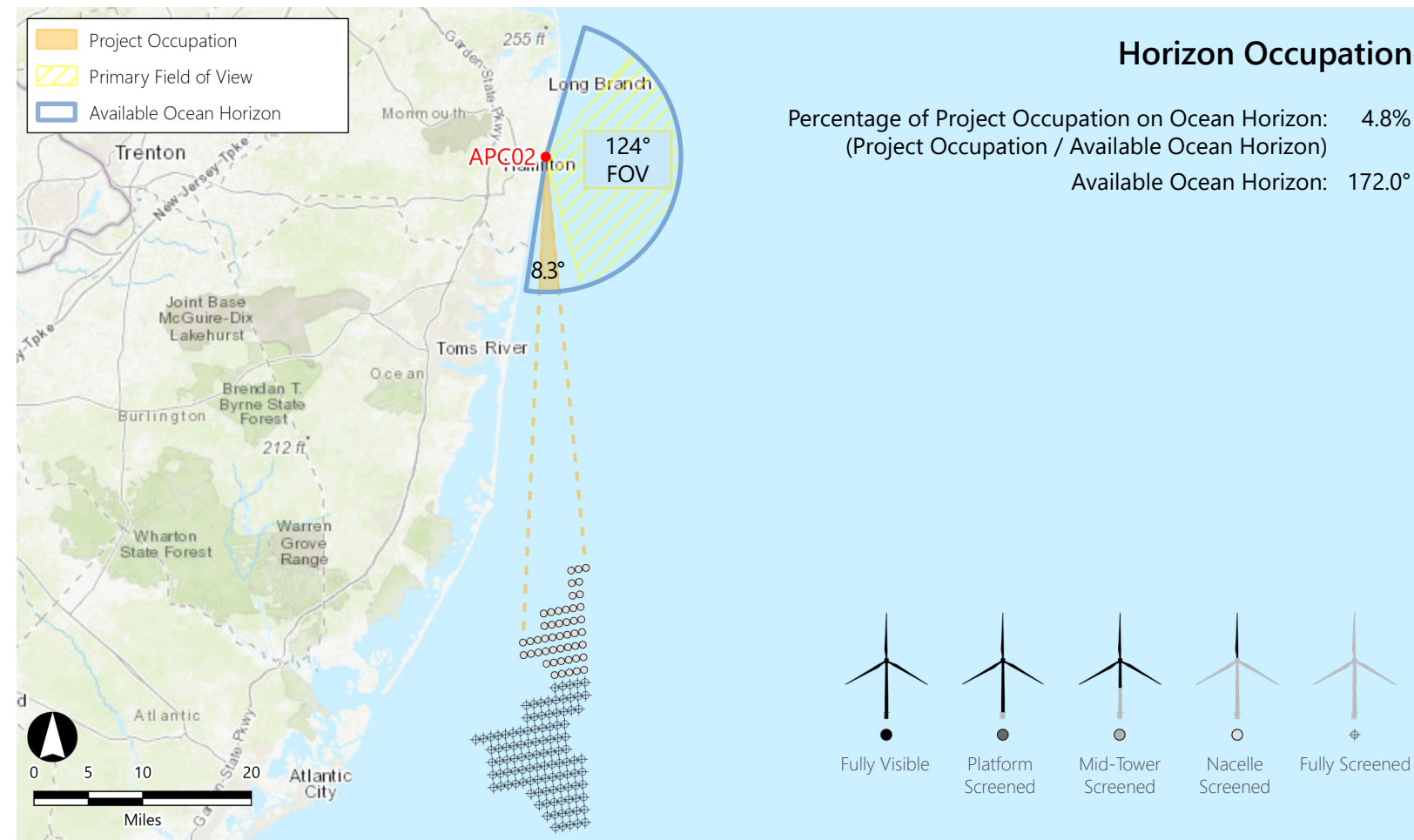
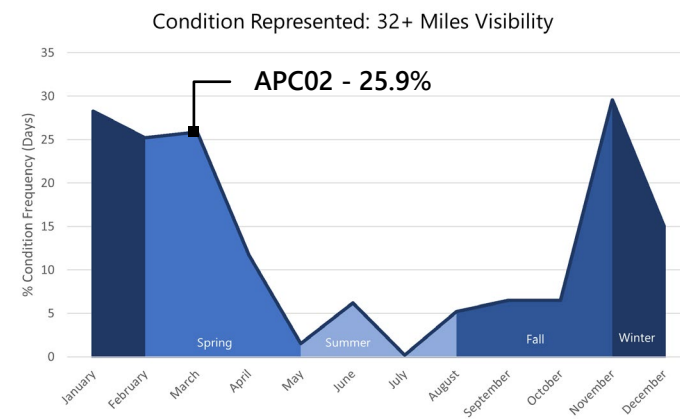
City of Asbury Park, Monmouth County, New Jersey

KOP Information

Primary Field of View: East
 Distance to Closest WTG: 38.0 miles
 Camera Height: 14.5 feet
 User Groups: L. Residents, Tourists, S.Residents

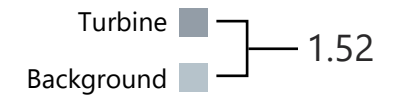
Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

Color Contrast Rating:

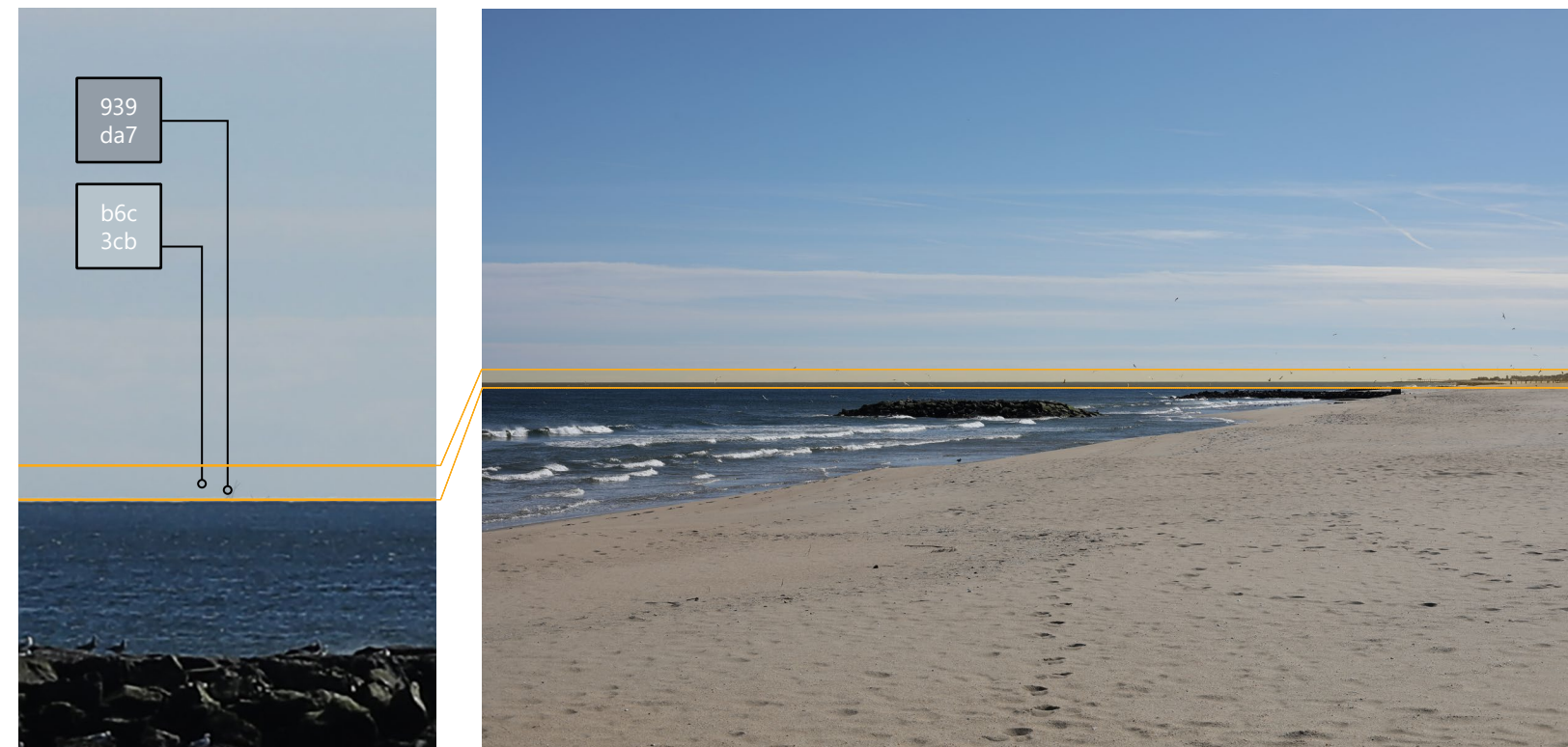
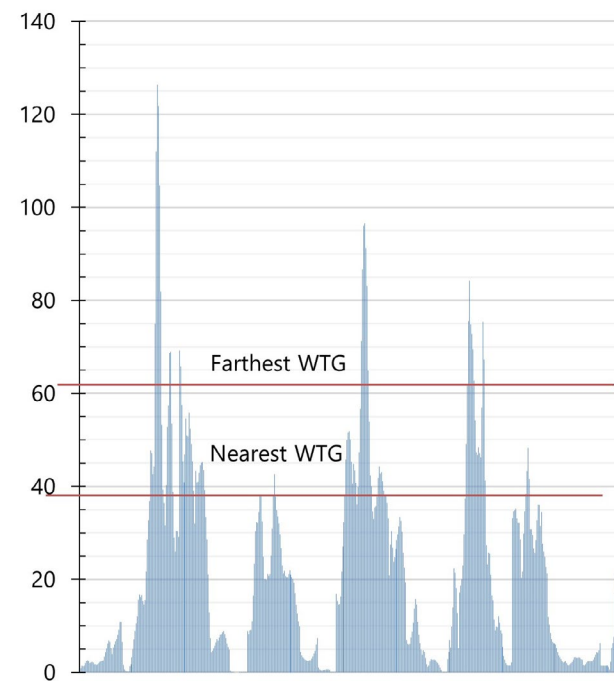


Lighting Condition: Back lit
 Season: Winter
 Sky Condition: Partly Cloudy
 Atmospheric Condition: > 10 Miles

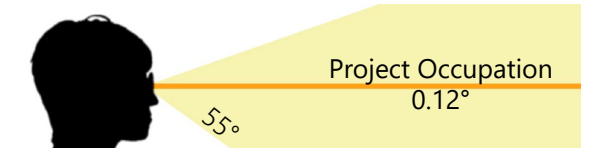
SIMILAR VIEWING PARAMETERS:

KOP SIC04 illustrates the project from 37.4 miles in the front lit condition. This provides an indication of how the turbines may appear from this KOP during midday conditions.

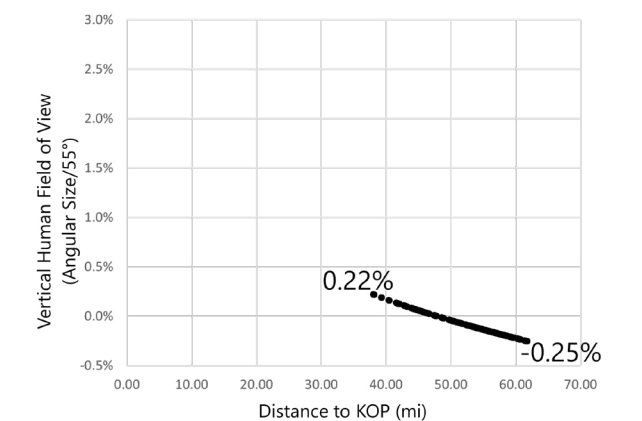
March, 2019 - Hourly Visibility Distance



Vertical Occupation



Percentage of Human FOV: 0.22% (0.12° / 55°)
 (Considering the nearest visible turbine)



APC02 Asbury Park Convention Center (Beach)

City of Asbury Park, Monmouth County, New Jersey

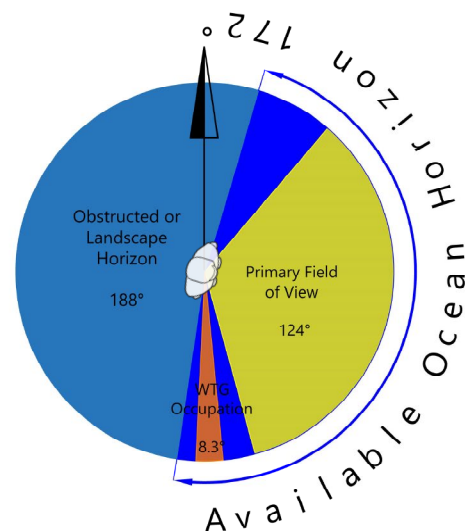
KOP Information

| | |
|---|--------------------------|
| Primary Field of View/Simulation Direction: | East/South |
| Distance to Closest WTG: | 37.98 miles |
| Camera Height: | 14.49 ft |
| User Groups: | Residents, Tourists |
| Horizon Occupation (% HFOV): | Small (8.3°, 6.7%) |
| Vertical Occupation: | Negligible (0.12°, 0.2%) |
| Character Area Type: | Seascape |
| Character Area: | Commercial Beachfront |

Existing View



Field of View



Existing Landscape/ Seascape Character

Description:

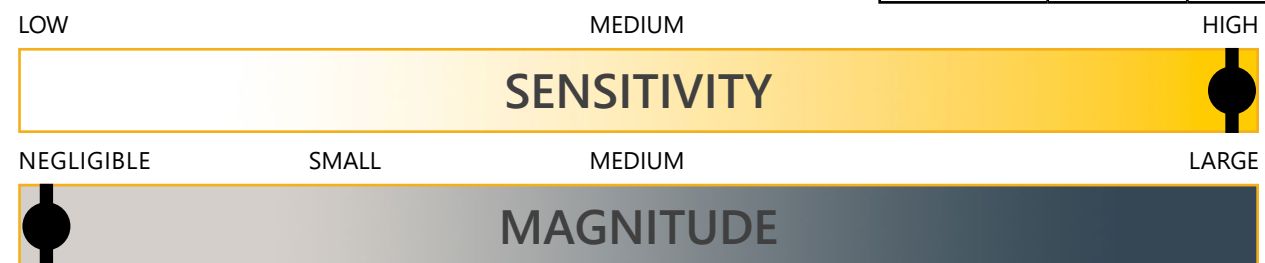
Asbury Park's Commercial Beachfront Seascape Character Area includes a deep (wide) beach that provides a buffer between the shoreline development and the natural waterfront. While the development is very visible and apparent, the wide sandy beach and slight drop in viewer elevation minimizes the perceived scale of the development. As such, views over the water feel natural, particularly given that the sound of the ocean drowns out any noise from the city. The seascape also has several buildings that are clearly re-purposed historic structures. The incorporation of modern awnings on old brick structures with exposed iron support structures gives the setting a sense of revival. New development is low profile and does not compete heavily with the historic structures. The boardwalk is wide and expansive with 1-3 story structure lining the west side. Several open lots separate the buildings along the boardwalk, so the viewer does not feel "penned in" by a continuous barrier. Ocean views from the boardwalk are typically unobstructed except when looking toward two tall historic buildings that extend out onto the beach north and south of the KOP. Taller buildings west of the boardwalk mark the transition to the LCA and Village Town Center character area where views of the ocean diminish very quickly due to the dense urban development and naturalized park vegetation.

Project Contrast:

During extremely clear viewing conditions, the WTGs present weak line, form, and color contrast with the ocean. Due to the distance and viewer orientation, there is unlikely to be a lighting or visibility scenario under which the contrast would increase. At the time and season represented in the photosimulation, the WTGs are heavily backlit, but the significant distance presents atmospheric diffusion of the light, causing the WTG blades to become extremely difficult to see.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|---|
| Susceptibility | High | Residents in beachfront properties, recreationalists, and resources with historic/cultural importance occur around this KOP. As such it is assumed that the view of the ocean is an important aspect of the viewer experience in this location. Despite being a heavily developed beachfront, the mix of historic and new structures and relatively low profile of the structures creates a quintessential seaside community. |
| Value | High | The areas receives a large number of viewers seasonally and they often come specifically for the New Jersey Shore. There is local pride in history and in Asbury Park's namesake as a culture and arts community. |
| Sensitivity Rating | High | Highly valued and highly susceptible seascape with historic, cultural, and view-scape importance. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|------------|---|
| Size and Scale | Negligible | At approximately 38 miles (61 km) more than half of the WTGs and OSSs would be screened entirely by curvature of the earth and for the remaining WTGs the nacelle would also be entirely screened. This results in visibility of a few blade tips of the most distant visible WTGs and possibly two blades for the nearest visible WTGs. The visual prominence rating is a 1. |
| Geographic Extent | Small | The Project does not occur within the primary ocean field of view and would require the viewer to actively look south, down the beach. The WTGs and OSSs occupy only 8.3 degrees or 6.7 percent of the 124 degree field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Negligible | With a visual prominence rating of 1, the WTGs and OSSs will be nearly invisible to viewers at the KOP. The viewer would either need to know the location of the Project or someone would have to point out the Project. Even with this knowledge, the viewer would have to concentrate for a period of time before detecting the WTG blades. |

Overall Impact
Negligible

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: APC02 - Asbury Park Convention Center (Beach)
Attachment E: Photosimulations, Page 4 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: APC02 – Asbury Park Convention Center (Beach)
Attachment E: Photosimulations, Page 5 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



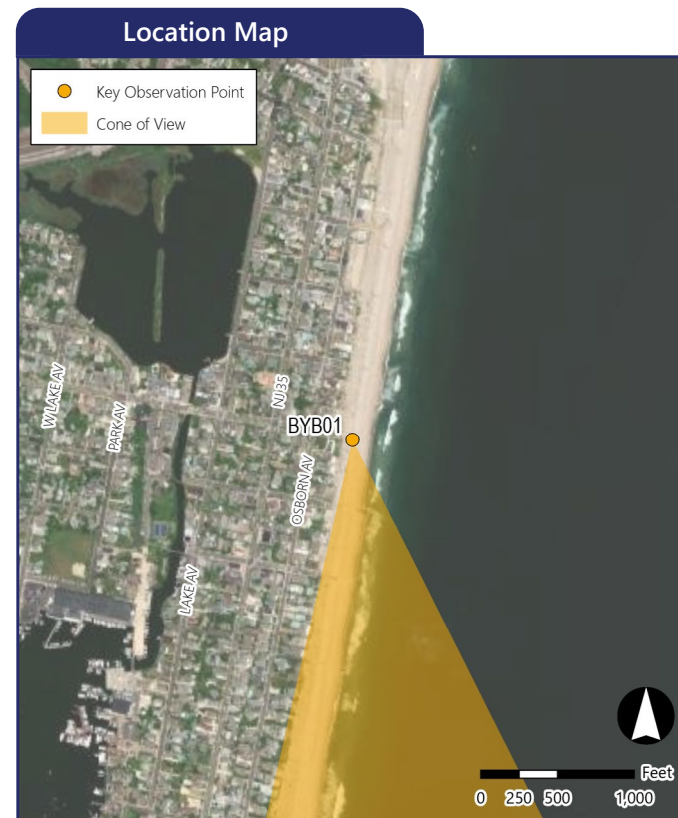
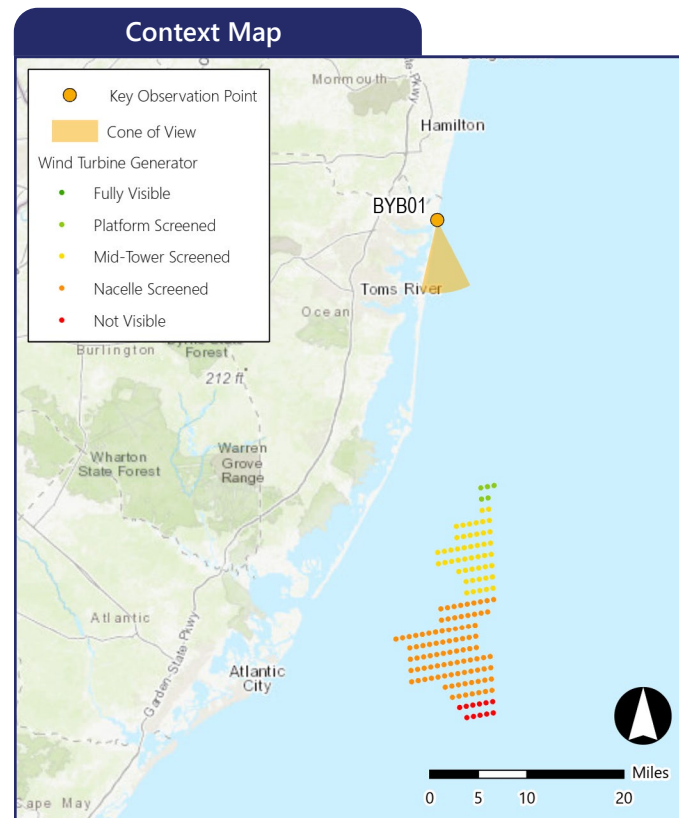
This scale is designed to insure the simulation images are printed at the intended size.

BYB01 Bay Head Historic District

Bay Head Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from Bay Head Historic District, panning clockwise from east (left) to southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 40.06996°N, 74.04189°W
 Character Area: Residential Beachfront, Seascape (SCA)
 User Group: L. Residents, Tourists, S. Residents
 Direction of View: South
 Distance to Nearest Visible Turbine: 28.0 miles
 Sensitive Resource: New Jersey Coastal Heritage Trail Area, Bay Head Historic District

Environmental Information

Date Taken: 08/18/2023
 Time: 4:31 PM
 Temperature: 81°F
 Humidity: 44%
 Visibility: 10 miles
 Wind Direction: West
 Wind Speed: 24 mph
 Conditions Observed: Partly Cloudy

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 24.6 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



BYB01 Bay Head Historic District

Bay Head Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East

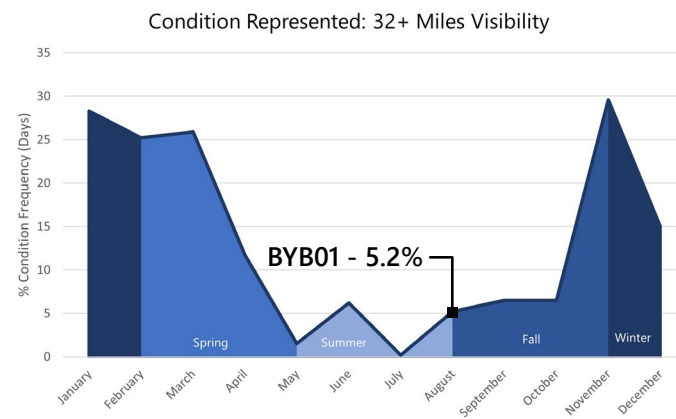
Distance to Closest WTG: 28.0 miles

Camera Height: 24.6 feet

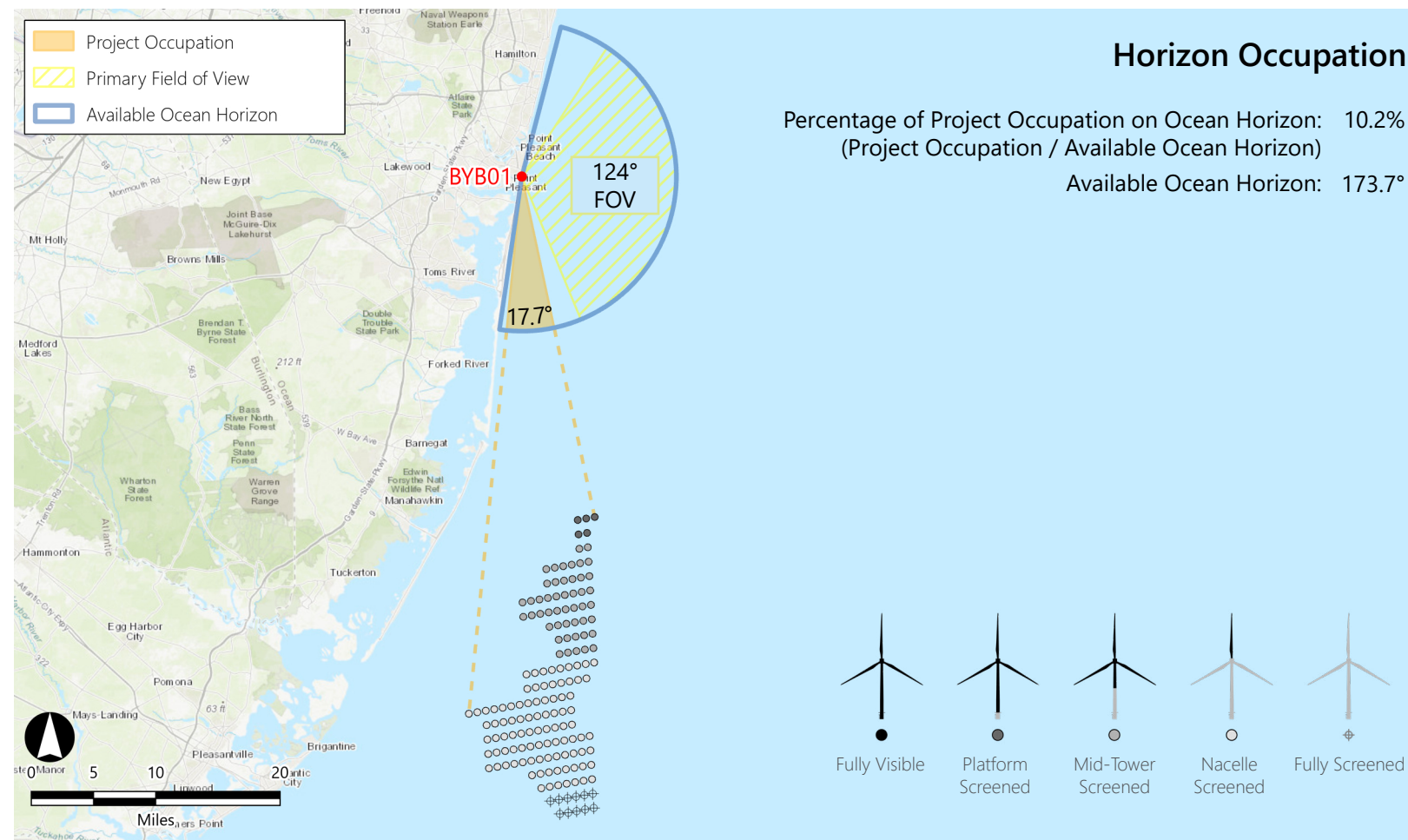
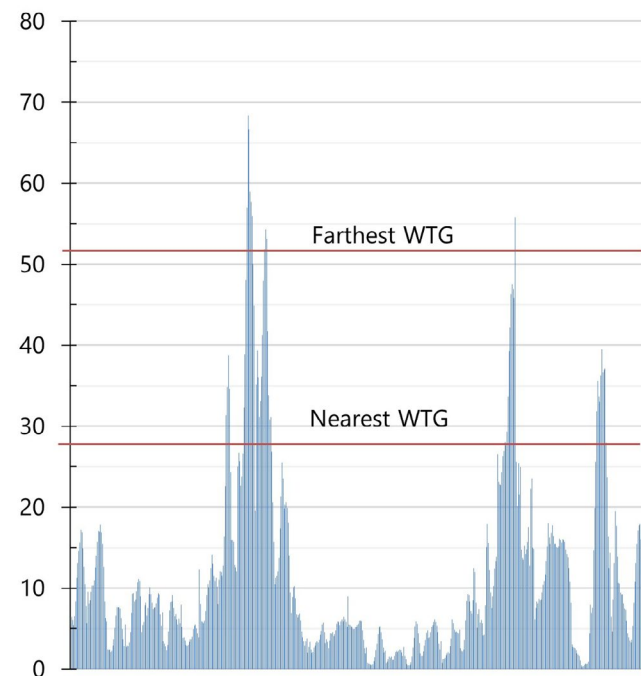
User Groups: L. Residents, Tourists, S. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.

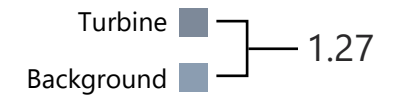


August, 2019 - Hourly Visibility Distance



WTG Color Contrast

Color Contrast Rating:



Lighting Condition: Side lit

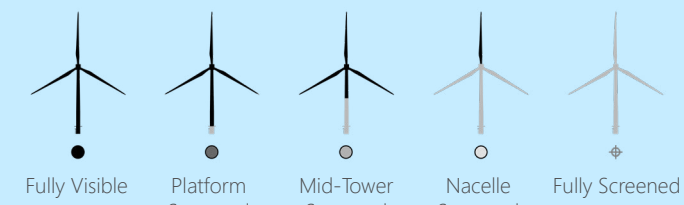
Season: Summer

Sky Condition: Partly Cloudy

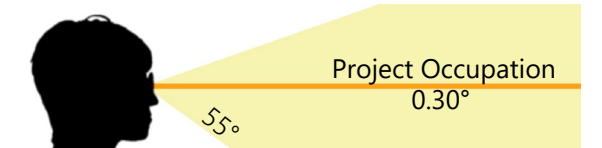
Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

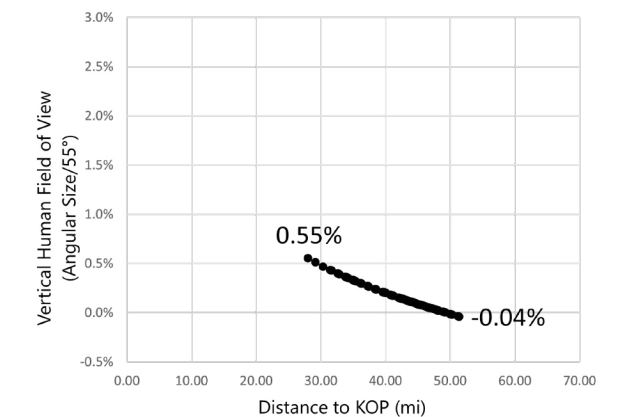
KOP OC04 illustrates the project from 26.11 miles in the back lit condition. This provides an indication of how the turbines may appear from this KOP during morning conditions.



Vertical Occupation



Percentage of Human FOV: 0.55% (0.30° / 55°)
(Considering the nearest visible turbine)



BYB01 Bay Head Historic District

Bay Head Borough, Ocean County, New Jersey

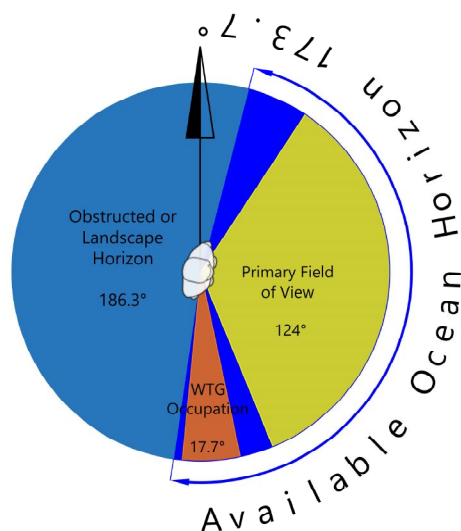
KOP Information

| | |
|---|--|
| Primary Field of View/Simulation Direction: | East/South |
| Distance to Closest WTG: | 28.0 miles |
| Camera Height: | 24.6 ft |
| User Groups: | L. Residents, Tourists, S. Residents |
| Horizon Occupation (% HFOV): | Small (17.7°, 14%) |
| Vertical Occupation: | Medium (0.30°, 0.55%) |
| Character Area Type: | Seascape |
| Character Area: | Residential Beachfront, Seascape (SCA) |

Existing View



Field of View



Existing Landscape/ Seascape Character Description:

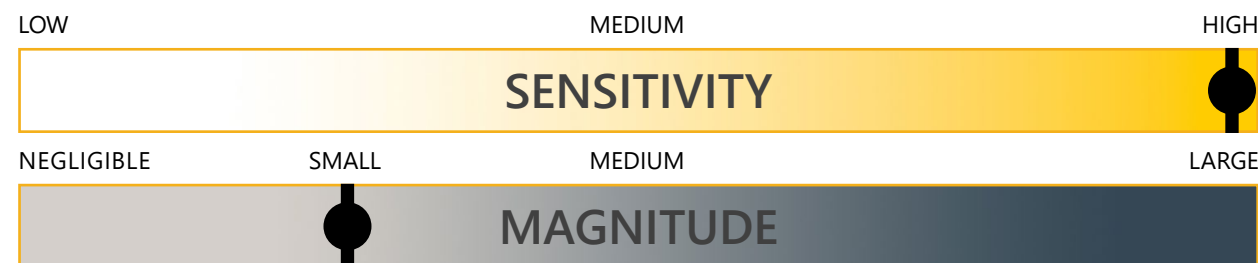
The KOP characterizes a typical view of a residential/beach vacation destination and the Residential Beachfront SCA. The closely positioned beachfront homes foreshorten inland views and the mix of heights and architectural styles form a highly variable horizon line with the sky. West of the dunes and a few houses inland, views of the ocean are typically eliminated and therefore, just the first row of homes has uninterrupted views of the ocean. The dunes were engineered, but have been influenced by natural forces, which is apparent in the vegetation patterns and wear near the base of the dunes. Wooden slat fencing and split rail mark the boundaries of the dune paths designed for beach access. The SCA begins to feel more natural and undisturbed once the viewer is on the beach and below the large dunes. The beach access path is unique in this location because the properties to the west are nearly at grade with the tops of the dunes. As such, the dune paths approach head on, rather than at an angle. Bridge Avenue has a small staircase at the terminus of the road which allows access to the beach. There is some access to parking on the road, but the majority of users tend to access this area from nearby vacation homes or residences. The homes are a mix of modern colonial and Victorian styles and range from 2-4 stories.

Project Contrast:

During very clear viewing conditions, the WTGs and OSS present weak to moderate line, form, and color contrast with the landform and simple ocean horizon line. Because the horizontal and vertical scale is relatively small and out of the primary field of view, under certain conditions (noon back lighting), the WTG motion may attract viewer attention, presenting minor contrast with the ocean and landform. However, the WTGs remain secondary to structures and vegetation, which have a much greater presence in the view. Under conservative viewing conditions the project will be visible when scanning in the general direction of the project facilities.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|---|
| Susceptibility | High | View is representative of Residential Beachfront viewing conditions. Ocean viewing is important to these users as well as beach goers and recreationalists. Despite the high susceptibility rating, viewers engage in a range of activities that are not always focused on the ocean. When focused on the Ocean, the primary view is not in the direction of the Project. |
| Value | High | This is a major vacation destination and receives some publicity to that effect. Much effort is put into maintaining the beach after winter storms. Dune and beach restoration are required regularly to maintain usability. |
| Sensitivity Rating | High | Highly valued and highly susceptible seascape with and view-scape importance. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|--|
| Size and Scale | Medium | At approximately 28 miles (45 km) the nacelles of more than half of the WTGs would be completely screened by curvature of the earth. The WTGs would occupy a maximum of 0.30 degrees or 0.55% of the vertical field of view. Full rotors would be detectable in five of the nearest turbines. The visual prominence rating is a 2. |
| Geographic Extent | Small | The Project does not occur within the primary ocean field of view and would require the viewer to actively look south, down the beach. The WTGs and OSSs occupy only 17.7 degrees or 14 percent of the 124 degree field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Small | With a visual prominence rating of 2, viewers will be able to detect rotors, nacelles, and towers of the WTGs when scanning or actively looking at the horizon. However, the WTGs are outside the primary field of view and the primary view would remain unaffected by the Project. |

Overall Impact
Minor

Existing Conditions



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BYB01 Bay Head Historic District
Attachment E: Photosimulations; Page 10 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



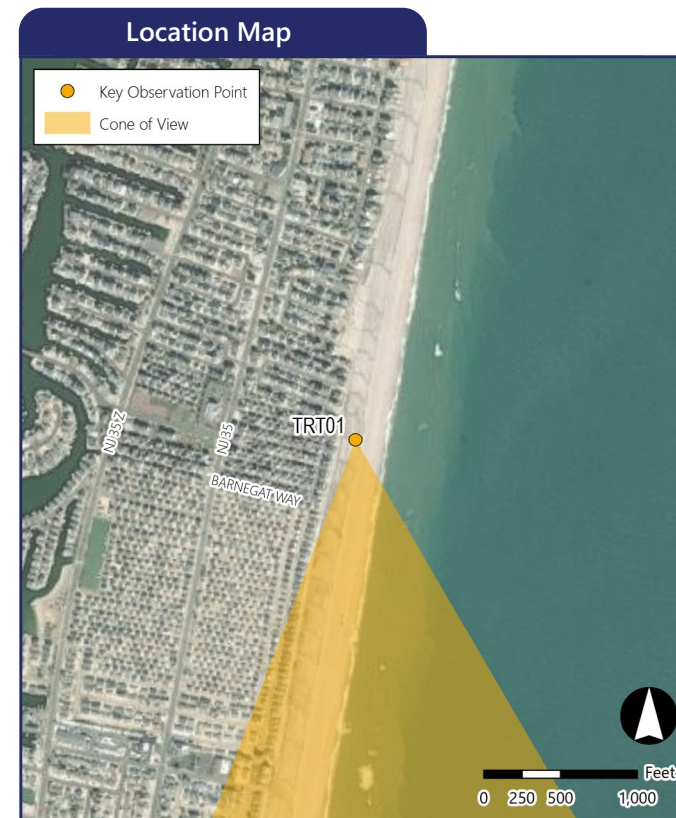
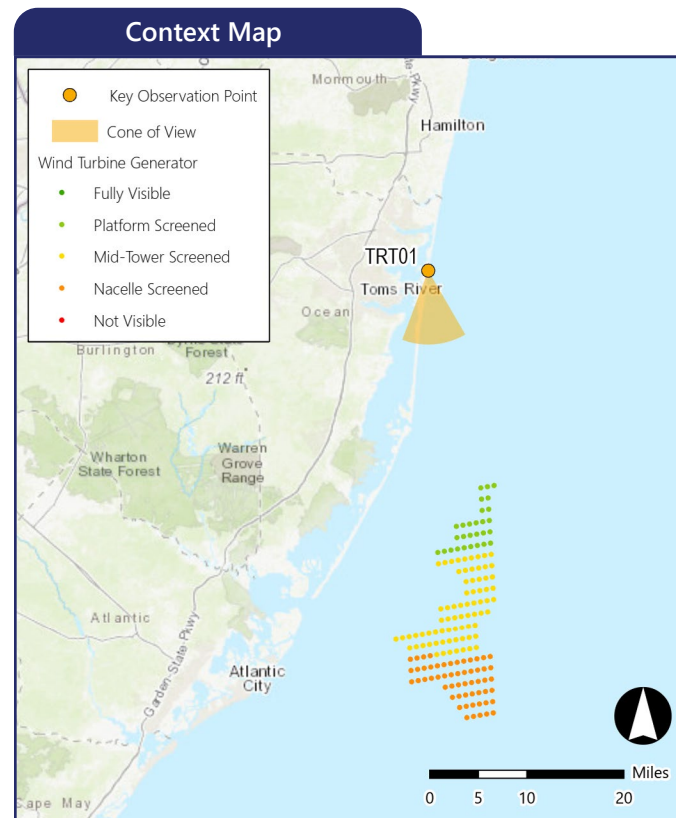
This scale is designed to insure the simulation images are printed at the intended size.

TRT01 Ocean Beach Historic District

Toms River Township, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Ocean Beach Historic District clockwise from southeast (left) to southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.99382°N, 74.06042°W
 Character Area: Residential Beachfront, Seascape (SCA)
 User Group: L. Residents, Tourists, S. Resident
 Direction of View: South
 Distance to Nearest Visible Turbine: 23.0 miles
 Sensitive Resource: Ocean Beach Historic District (Units 1, 2, and 3), New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 03/02/2022
 Time: 2:15 PM
 Temperature: 49°F
 Humidity: 35%
 Visibility: 10 miles
 Wind Direction: West-northwest
 Wind Speed: 7 mph
 Conditions Observed: Partly Cloudy

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 27.0 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



TRT01 Ocean Beach Historic District

Toms River Township, Ocean County, New Jersey

KOP Information

Primary Field of View: East

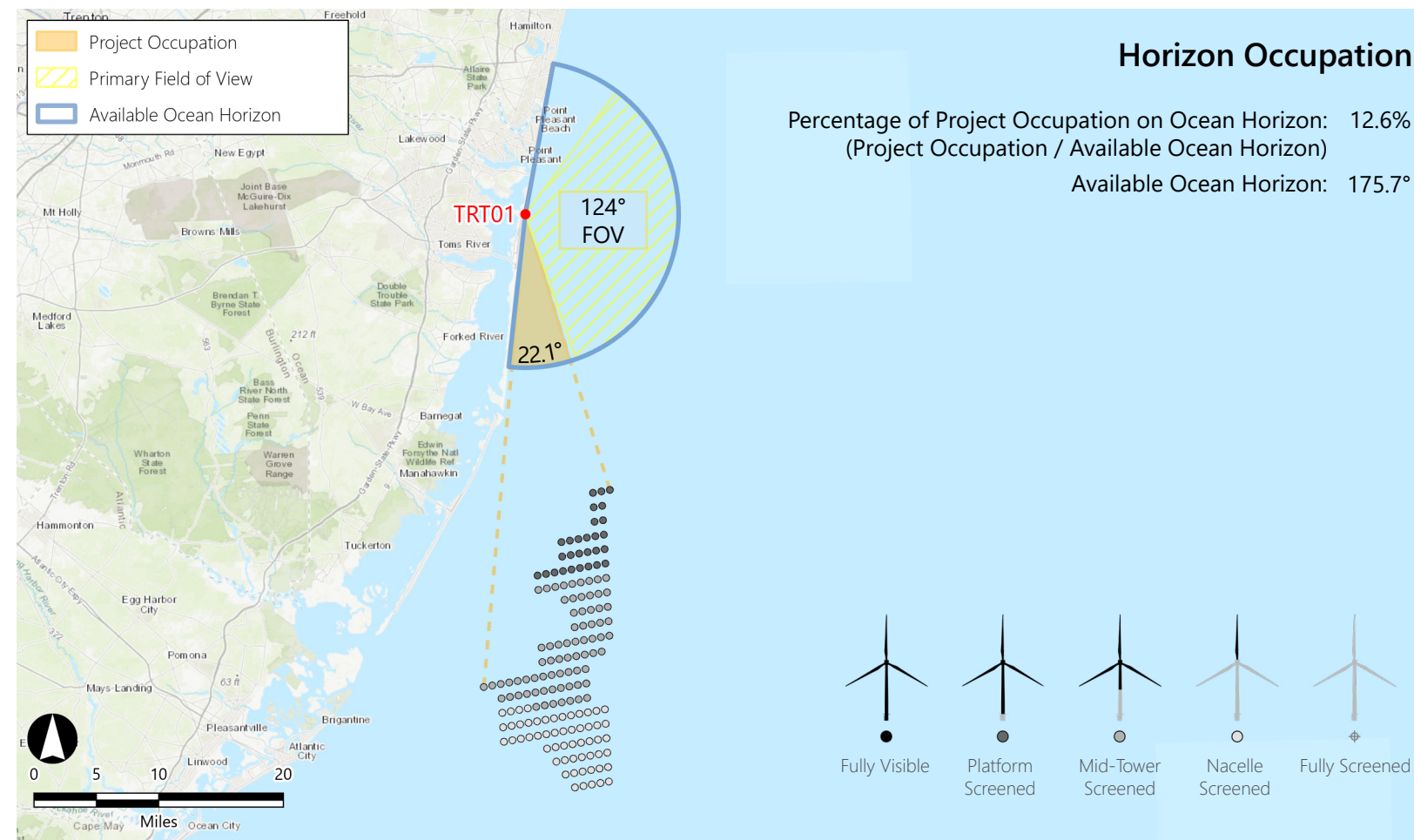
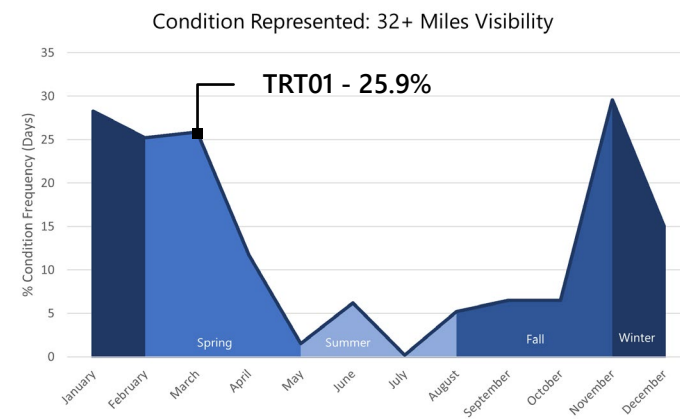
Distance to Closest WTG: 23.0 miles

Camera Height: 27.0 feet

User Groups: L. Residents, Tourists, Fishing Comm., S.Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

Color Contrast Rating:

Turbine [Grey square] } 1.48
 Background [Lighter grey square]

Lighting Condition: Side lit

Season: Winter

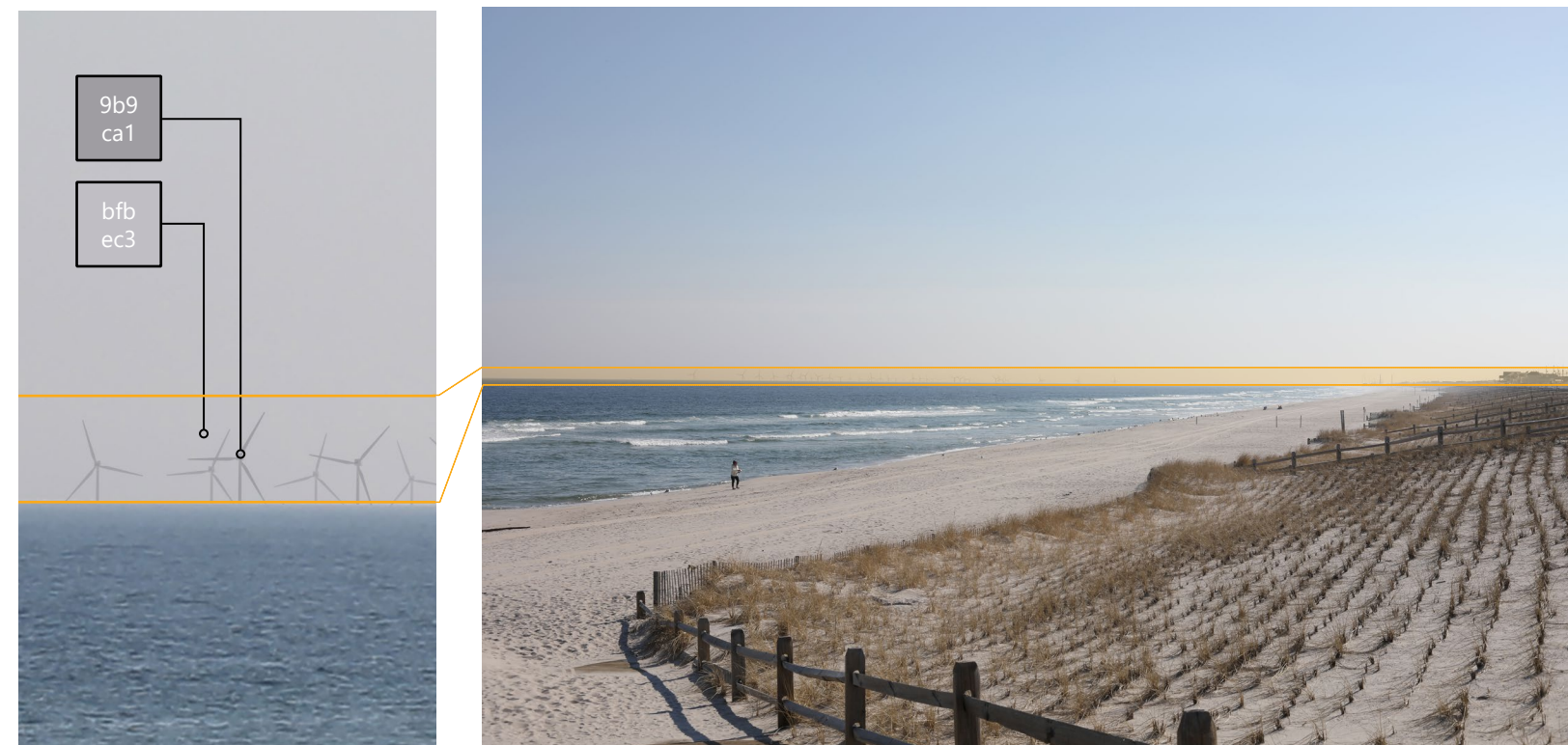
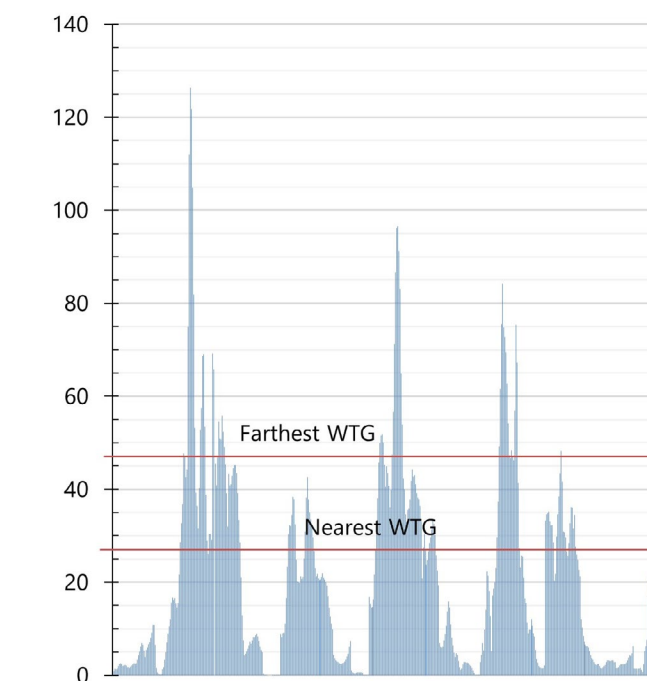
Sky Condition: Partly Cloudy

Atmospheric Condition: > 10 Miles

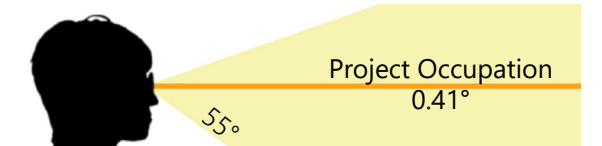
SIMILAR VIEWING PARAMETERS:

KOP SPB01 Illustrates the project from 19.25 miles in the side lit condition. This provides an indication of how the turbines may appear from this KOP during evening conditions.

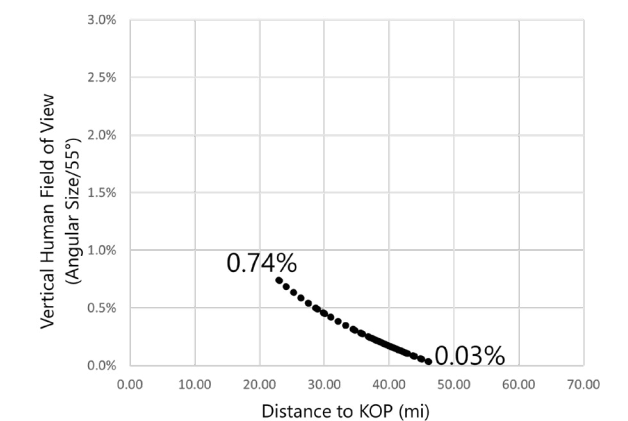
March, 2019 - Hourly Visibility Distance



Vertical Occupation



Percentage of Human FOV: 0.74% (0.41° / 55°)
 (Considering the nearest visible turbine)



TRT01 Ocean Beach Historic District

Toms River Township, Ocean County, New Jersey

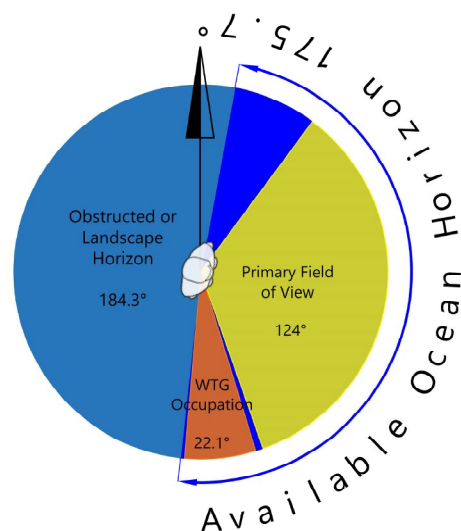
KOP Information

| | |
|---|-------------------------------------|
| Primary Field of View/Simulation Direction: | East/South |
| Distance to Closest WTG: | 23 miles |
| Camera Height: | 27 ft |
| User Groups: | L. Residents, Tourists, S. Resident |
| Horizon Occupation (% HFOV): | Medium (22.1°, 18%) |
| Vertical Occupation: | Medium (0.41°, 0.74%) |
| Character Area Type: | Seascape |
| Character Area: | Residential Beachfront |

Existing View



Field of View



Existing Landscape/ Seascape Character Description:

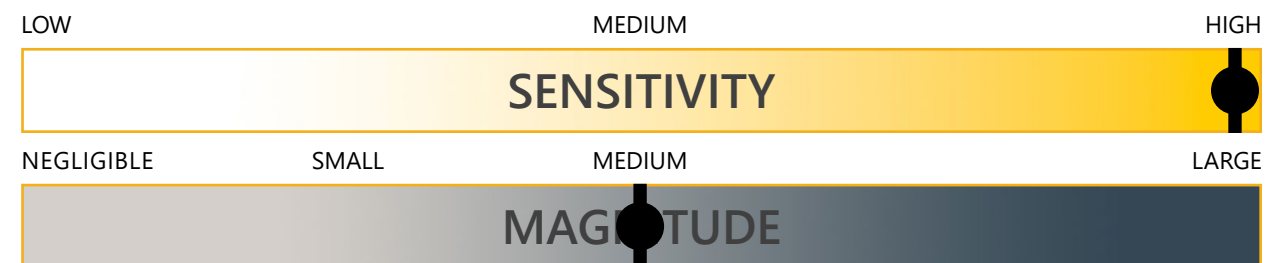
Ocean Beach Historic District is typical of a residential/beach vacation destination and the Residential Beachfront SCA. The closely positioned beachfront homes foreshorten inland views and the mix of heights and architectural styles form a highly variable horizon that can result in a degree of visual clutter. West of the dunes and a few houses inland, views of the ocean are typically eliminated and therefore, just the first row of homes has uninterrupted views of the ocean. The dunes are very tall and geometric giving the obvious impression of human intervention in a natural process. Wooden slat fencing and split rail mark the boundaries of the dune paths designed for beach access. The SCA begins to feel more natural and undisturbed once the viewer is on the beach and below the large dunes. People would experience this view while traversing the dunes on their way to the beach. While a brief view for most, some people stop and take in the view or take a photograph. The access points often have alcoves with benches. The dune paths orient the viewer directly toward the Project, but the primary view is still east facing toward the open ocean.

Project Contrast:

On clear days the Project will be visible to casual observers after a brief glance. Motion of the rotors may attract viewer attention. At times the Project may result in moderate contrast with the ocean and landforms in the view. Line and form contrast with landform is weak, due to the viewer position and direction. Moderate line and form contrasts occur with the ocean, due to the vertical line on the horizon and WTG rotors.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|---|
| Susceptibility | High | Views from residences and experienced by local/seasonal residents, tourist, and recreational users. Seascape and Ocean views are important to the users. |
| Value | Medium | Unlike many other beaches along the NJ coast, this area is intended exclusively for homeowners and vacationers who rent beach houses. Due to the exclusivity factor, the beach may not have the same value to the majority of users to whom it is inaccessible. |
| Sensitivity Rating | High | Highly susceptible and moderate value seascape results in high sensitivity. However, views of the Project are general outside the primary field of view and high sensitivity does not warrant elevation to major overall impacts. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Medium | The vertical scale occupies a moderate portion of the human vertical field of view (approximately 0.41°, 0.74%). The visual prominence rating is a 3. |
| Geographic Extent | Medium | The Project occupies approximately 18% (22 degrees) of the human horizontal field of view and 12.6% of the available ocean horizon. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Medium | Medium geographic extent and medium scale contrast result in medium magnitude. |

Overall Impact
Moderate

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: TRT01 - Ocean Beach Historic District
Attachment E: Photosimulations; Page 14 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: TRT01 - Ocean Beach Historic District
Attachment E: Photosimulations; Page 15 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



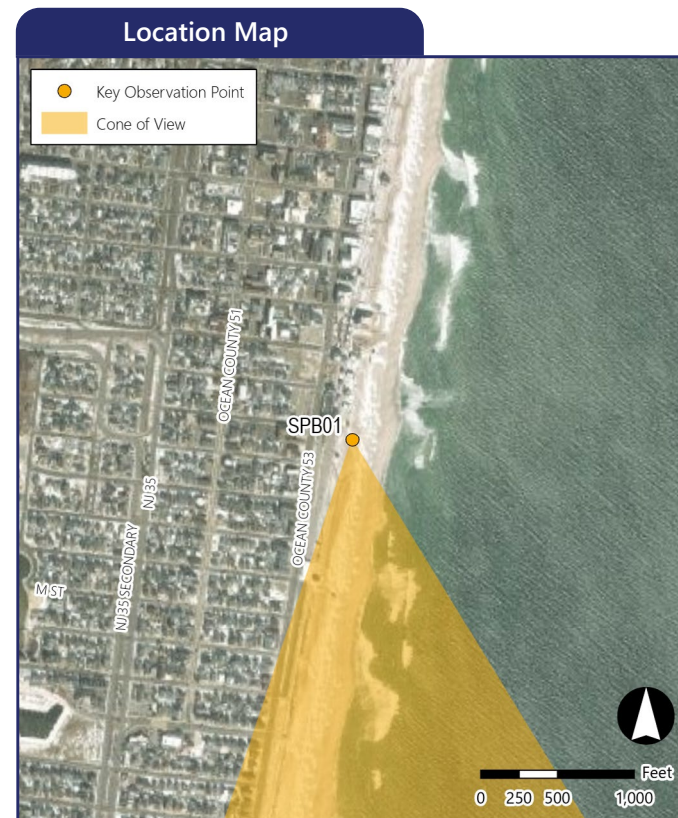
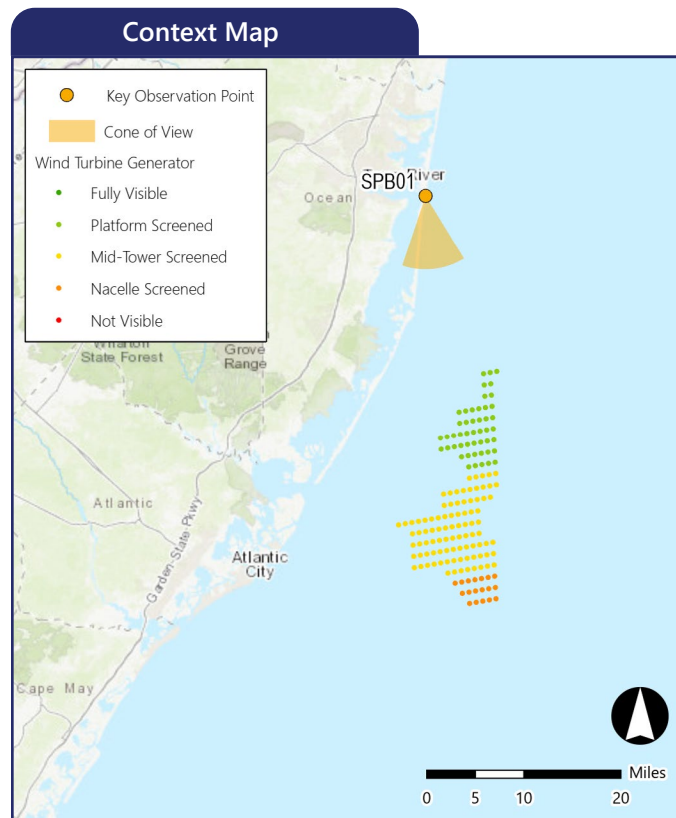
This scale is designed to insure the simulation images are printed at the intended size.

SPB01 Seaside Park Beach

Seaside Park Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from Seaside Park Beach, panning clockwise from east (left) to south-southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.93536°N, 74.07165°W
Character Area: Commercial Beachfront, Seascape (SCA)
User Group: L. Residents, Tourists, Fishing Comm., S. Resident
Direction of View: South
Distance to Nearest Visible Turbine: 19.3 miles
Sensitive Resource: Seaside Park Beach and Boardwalk, U.S. Life Saving Station No. 13, New Jersey Coastal Heritage Trail Area, EJA

Environmental Information

Date Taken: 09/23/2020
Time: 5:35 PM
Temperature: 74°F
Humidity: 52%
Visibility: 10 miles
Wind Direction: West-northwest
Wind Speed: 7 mph
Conditions Observed: Fair

Photograph Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Focal Length: 50mm
Camera Height: 23.2 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



SPB01 Seaside Park Beach

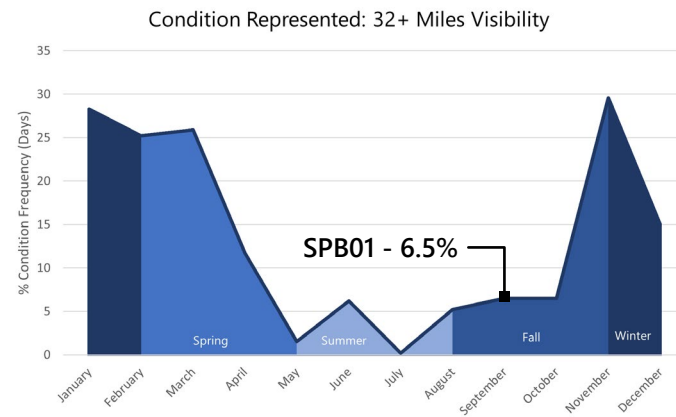
Seaside Park Borough, Ocean County, New Jersey

KOP Information

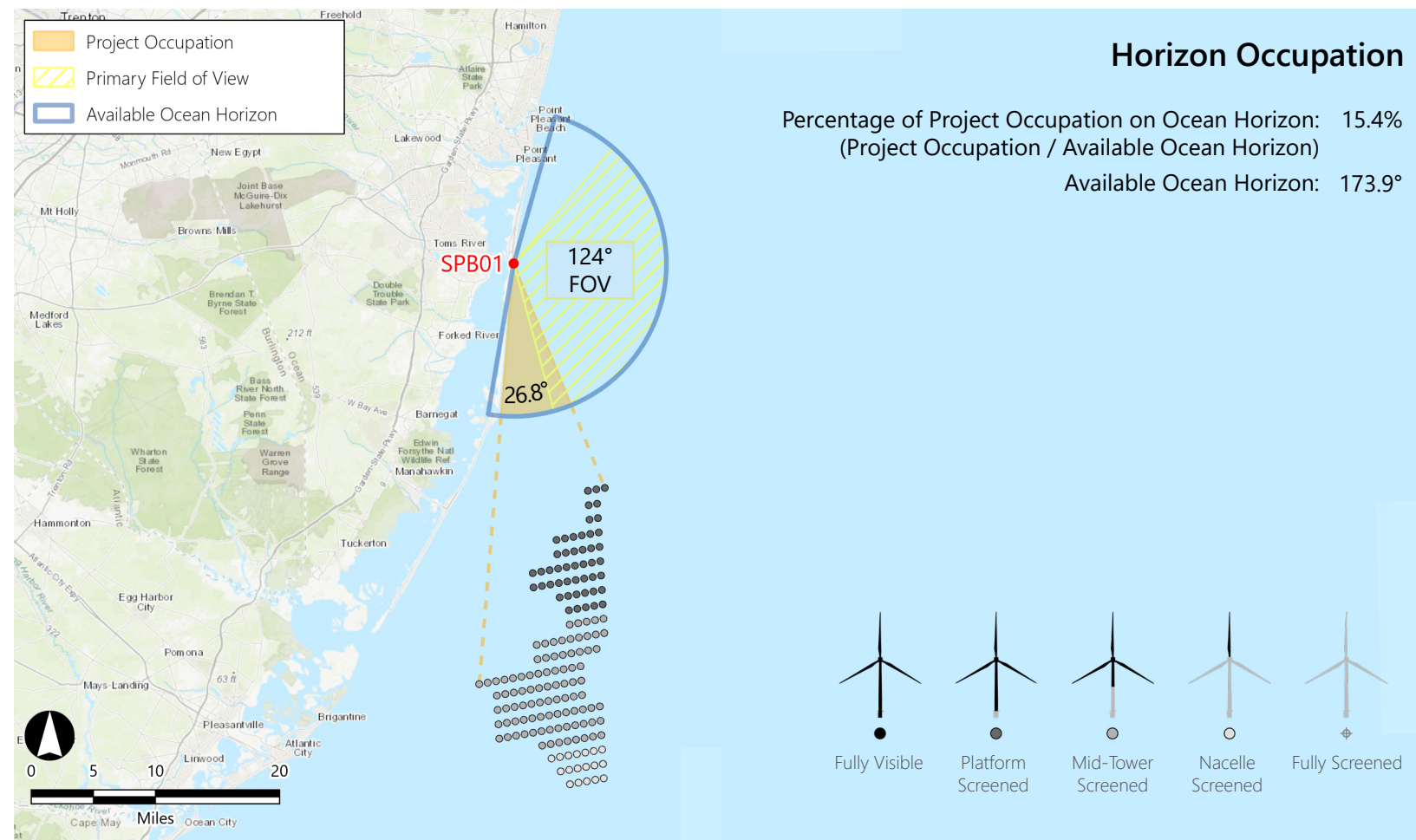
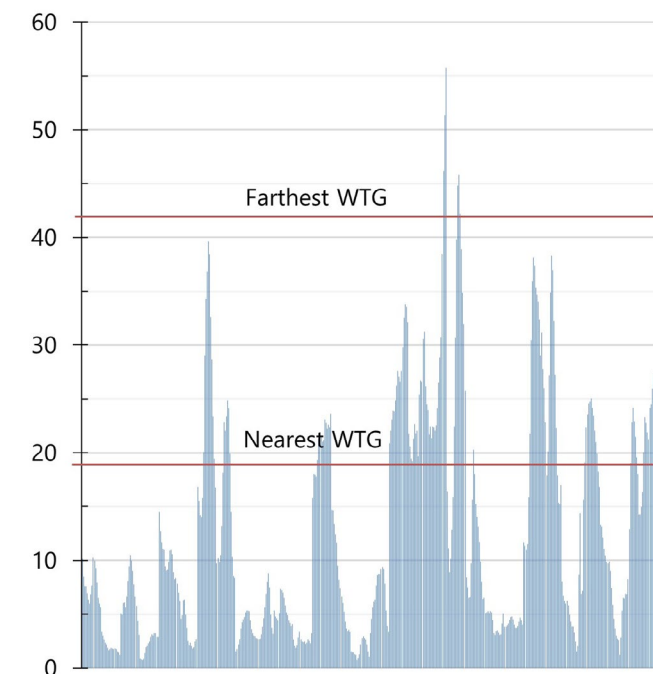
Primary Field of View: East
 Distance to Closest WTG: 19.3 miles
 Camera Height: 23.2 feet
 User Groups: L. Residents, Tourists, Fishing Comm., S.Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



September, 2019 - Hourly Visibility Distance



WTG Color Contrast

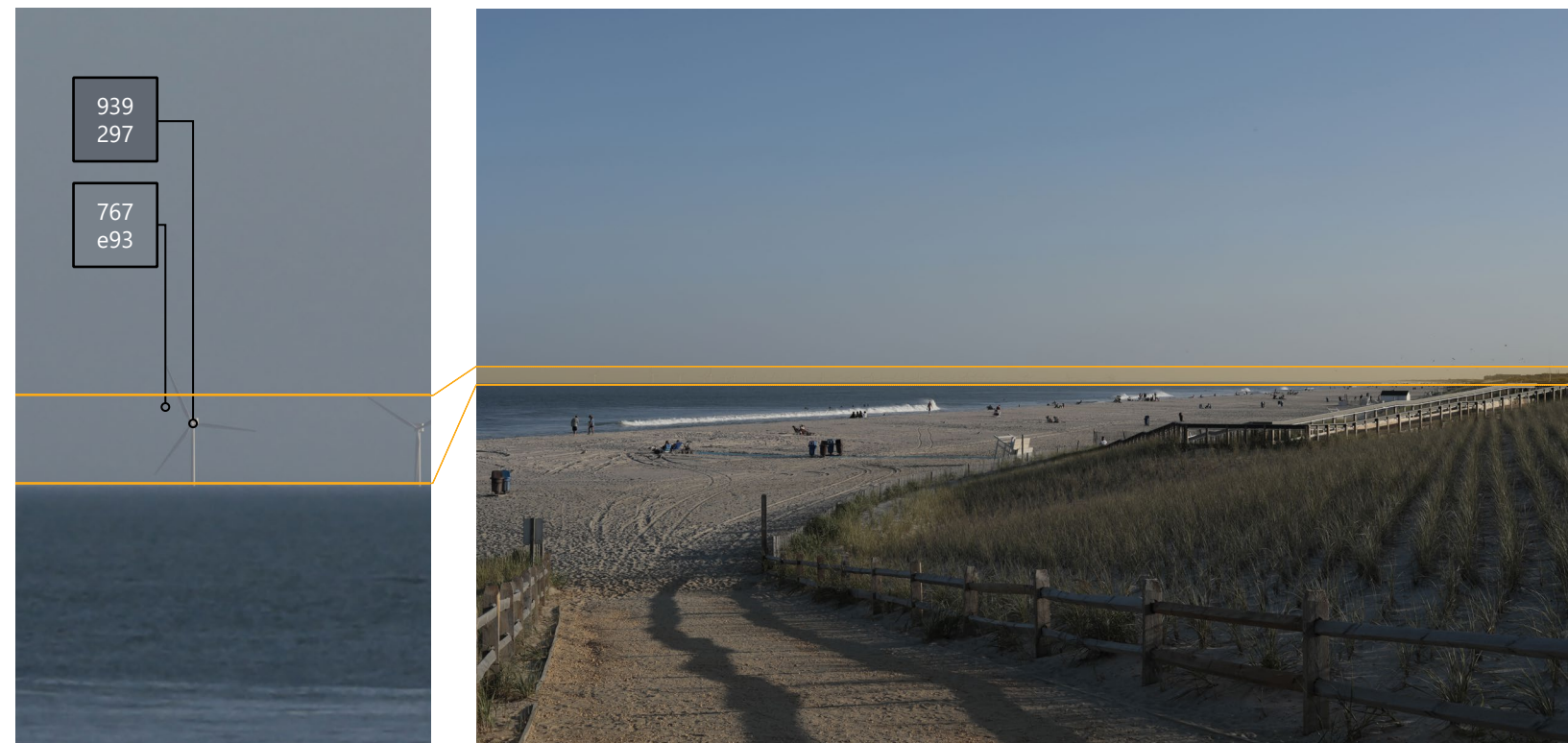
Color Contrast Rating:



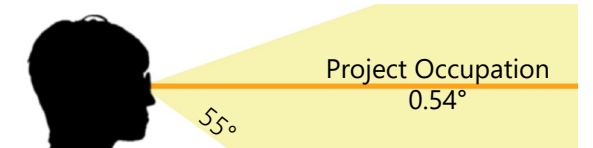
Lighting Condition: Side lit
 Season: Fall
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

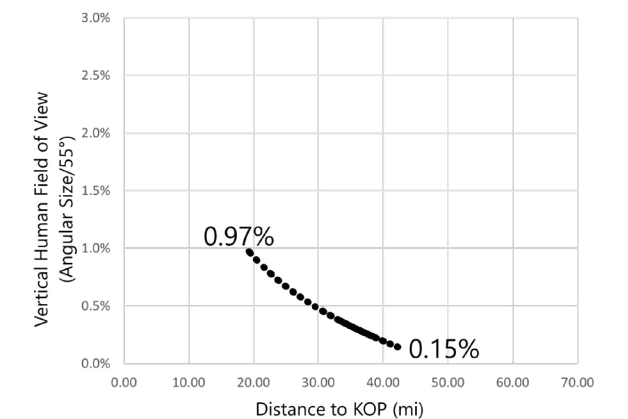
KOP TRT01 Illustrates the project from 22.99 miles in the front lit condition. This provides an indication of how the turbines may appear from this KOP during afternoon conditions.



Vertical Occupation



Percentage of Human FOV: 0.97% (0.54° / 55°)
 (Considering the nearest visible turbine)



SPB01 Seaside Park Beach

Seaside Park Borough, Ocean County, New Jersey

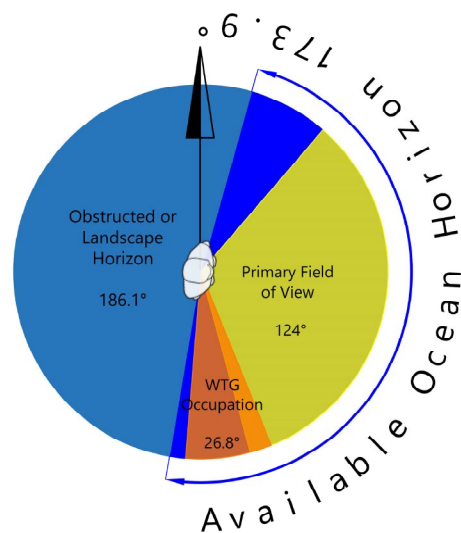
KOP Information

| | |
|---|------------------------------------|
| Primary Field of View/Simulation Direction: | East/South |
| Distance to Closest WTG: | 19.25 miles |
| Camera Height: | 23.18 ft |
| User Groups: | Residents, Tourists, Fishing Comm. |
| Horizon Occupation (% HFOV): | Medium (26.8°, 21.6%) |
| Vertical Occupation: | Medium (0.54°, 0.97%) |
| Character Area Type: | Seascape |
| Character Area: | Commercial Beachfront |

Existing View



Field of View



Existing Landscape/ Seascape Character Description:

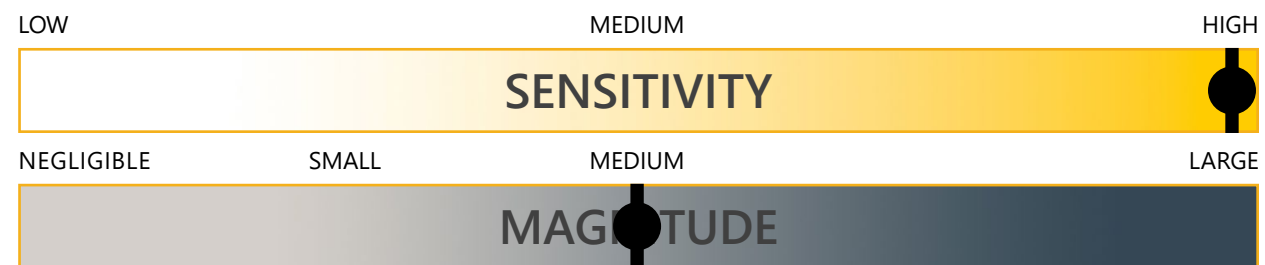
Seaside Park Beach is in the Borough of Seaside Park, located on the Barnegat Barrier Island in Ocean County, New Jersey. Seaside Park has almost two miles of shoreline on the Atlantic Ocean, the borough's main industry is summer tourism. The beach is a popular swimming and sunbathing destination, and in-season access requires a beach badge. Lifeguard and beach patrol services are provided, and a variety of shops, accommodations, and restaurants, plus a boardwalk offering rides and games, are available nearby. This KOP is at the start of the Seaside Beach Boardwalk and is situated near a large public parking area along with several restaurants and bars. Inland and oceanfront development are readily apparent features in this location as the businesses along the boardwalk often have seating and event spaces that spill out onto the beach. The engineered dunes are massive and have the tell-tale signs of recent installation, such as a geometric form, new grass plugs evenly spaced, and new split-rail fencing defining the beach access paths with traverse the dunes at an angle. The inland development consists of closely situated residential and commercial buildings which are typically a maximum of three story and typically one to two story. Water towers, utility poles, and streetlights add a small degree of visual clutter when viewing inland.

Project Contrast:

On clear days the Project will be visible to casual observers after a brief glance. Motion of the rotors may attract viewer attention and may result in strong contrasts with the ocean when strongly lit. At times the Project may result in moderate contrast with the ocean and landforms in the view. Line and form contrast with landform range from weak moderate. Moderate line and form contrasts occur with the ocean, due to the vertical line on the horizon and rotors.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | Medium | Historic and cultural sites are inland of the dunes and therefore do not have open ocean views in this location. Residences are set back from the commercial district, and ocean views are somewhat restricted. Views are important to user experience, but the users are engaged in a very wide array of activities, not many of which are reliant on ocean views for the experience. |
| Value | High | Value is high due to the large crowds that come to this location in the summer. It is highly advertised on social media and a repeat destination for many families. |
| Sensitivity Rating | High | Moderately susceptible and high value seascape results in high sensitivity. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Medium | The vertical scale occupies a moderate portion of the human vertical field of view (approximately 0.54°, 0.97%). The visual prominence rating is a 3. |
| Geographic Extent | Medium | The Project only occupies approximately 21.6% (26.8 degrees) of the human horizontal field of view and 15.4% of the available ocean horizon. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Medium | Medium size and scale and medium geographic extent results in medium magnitude. |

Overall Impact
Moderate

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SPB01 - Seaside Park Beach
Attachment E: Photosimulations: Page 19 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SPB01 - Seaside Park Beach
Attachment E: Photosimulations: Page 20 of 289

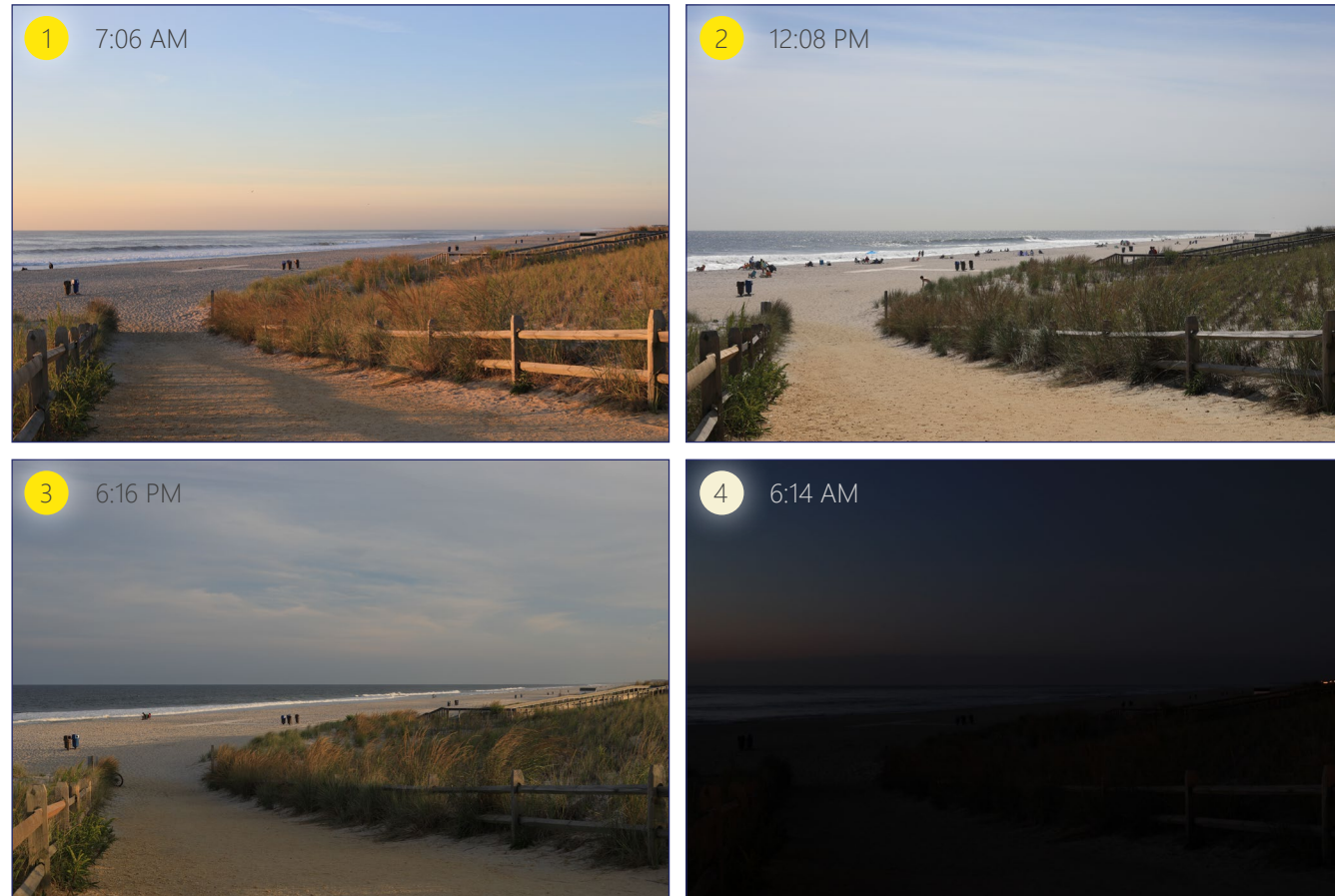
Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



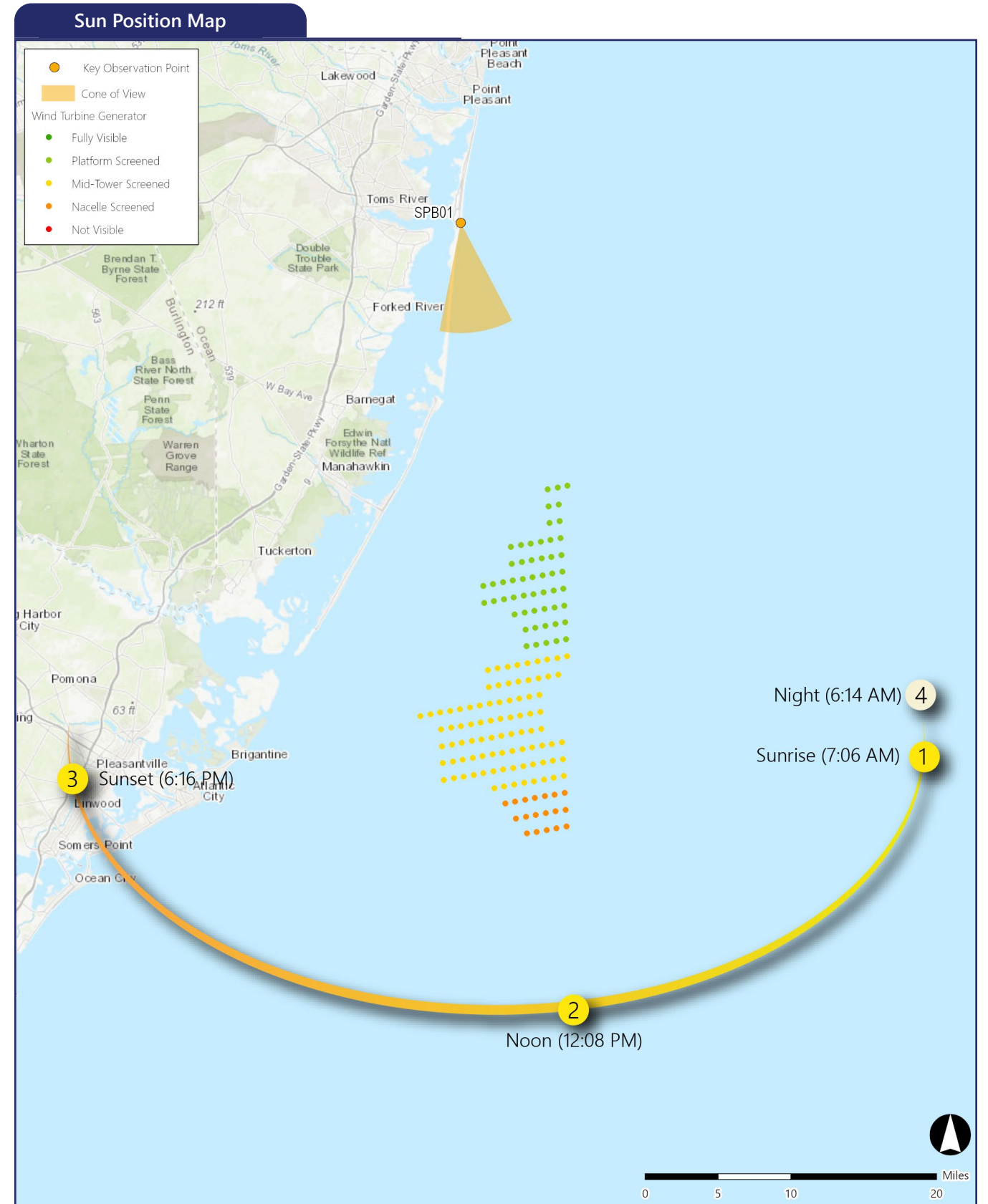
This scale is designed to insure the simulation images are printed at the intended size.

SPB01 Seaside Park Beach

Seaside Park Borough, Ocean County, New Jersey



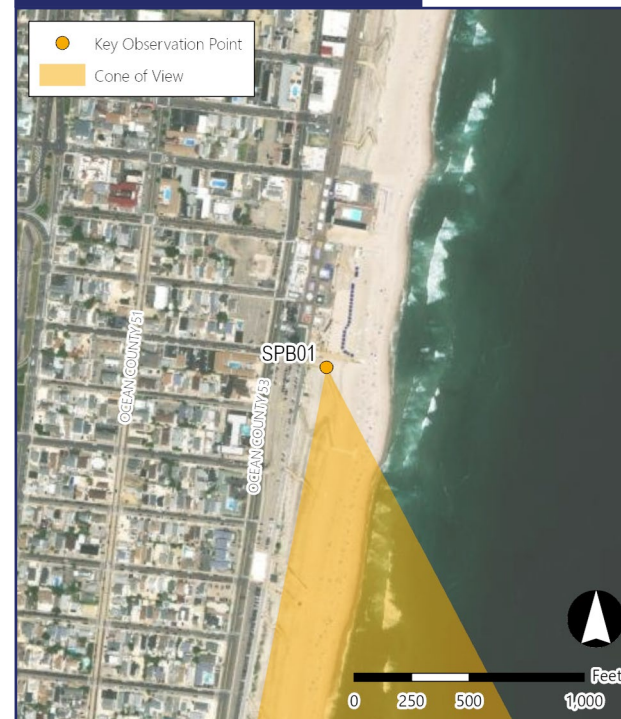
QR Code for Timelapse Video
[Timelapse Video Link](#)



Simulation Information

| | |
|--------------------------------------|--|
| Coordinates: | 39.93537°N, 74.07165°W |
| Character Area: | Commercial Beachfront, Seascape (SCA) |
| User Group: | L. Residents, Tourists, Fishing Comm., S. Resident |
| Direction of View: | South |
| Distance to Nearest Visible Turbine: | 19.3 miles |
| Sensitive Resource: | Seaside Park Beach and Boardwalk, U.S. Life Saving Station No. 13, New Jersey Coastal Heritage Trail Area, EJA |

Context Map



Environmental Information

| | |
|----------------------|------------|
| Date Taken: | 09/21/2023 |
| Time: | Various |
| Temperature: | 72°F |
| Humidity: | 67% |
| Visibility: | 10 miles |
| Wind Direction: | Northeast |
| Wind Speed: | 6 mph |
| Conditions Observed: | Fair |

Photograph Information

| | |
|----------------|----------------------|
| Camera: | Canon EOS 5D Mark IV |
| Resolution: | 30.4 Megapixels |
| Focal Length: | 50mm |
| Camera Height: | 23.2 feet AMSL |

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Existing Conditions (Sunrise)



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (Sunrise) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SPB01 - Seaside Park Beach
Attachment E: Photosimulations: Page 23 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Noon)



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: SPB01 - Seaside Park Beach

Attachment E: Photosimulations: Page 25 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Sunset)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SPB01 - Seaside Park Beach
Attachment E: Photosimulations: Page 26 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Sunset) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SPB01 - Seaside Park Beach
Attachment E: Photosimulations: Page 27 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Night)



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Night) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SPB01 - Seaside Park Beach
Attachment E: Photosimulations: Page 29 of 289

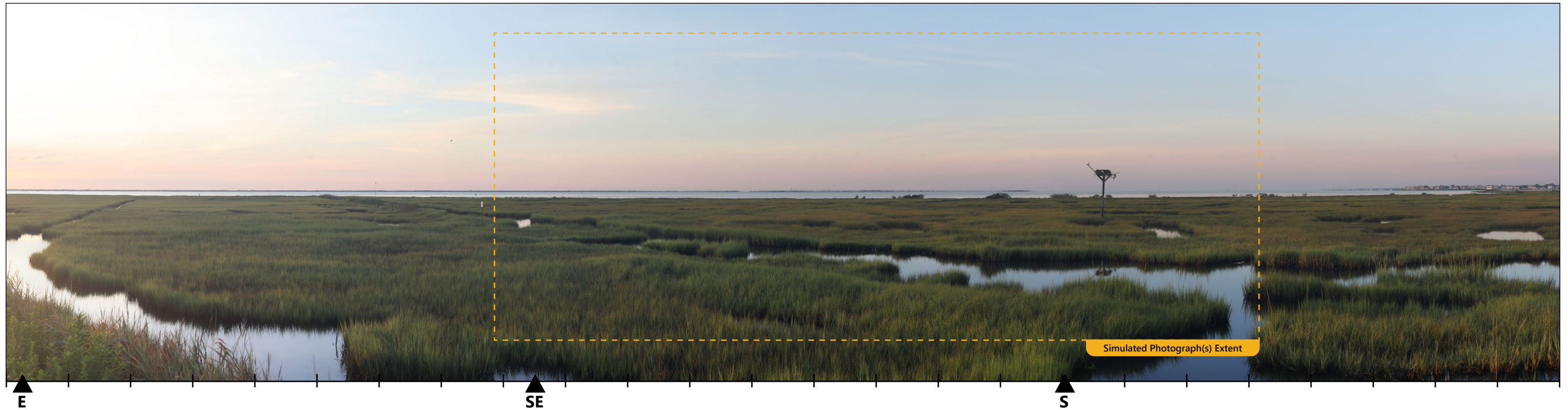
Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



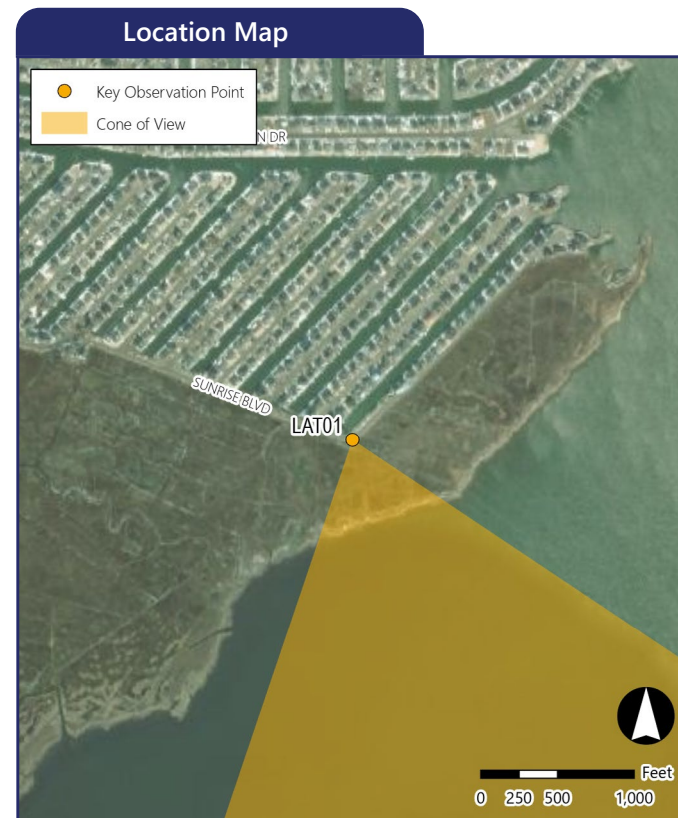
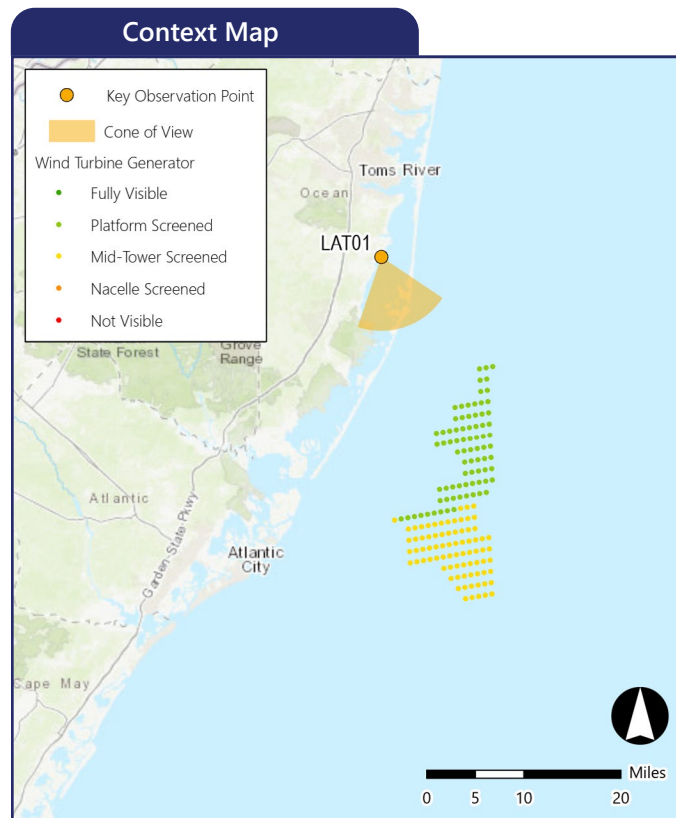
This scale is designed to insure the simulation images are printed at the intended size.

LAT01 Edwin B. Forsythe NWR at the Woodmansee Estate

Lacey Township, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Edwin B. Forsythe National Wildlife Refuge (NWR) at the Woodmansee Estate, panning clockwise from east (left) to southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

| | |
|--------------------------------------|---|
| Coordinates: | 39.83711°N, 74.15082°W |
| Character Area: | Dredged Lagoon (LCA) |
| User Group: | L. Residents, S. Resident |
| Direction of View: | South-southeast |
| Distance to Nearest Visible Turbine: | 15.3 miles |
| Sensitive Resource: | Edwin B. Forsythe National Wildlife Refuge, New Jersey Coastal Heritage Trail Area |

Environmental Information

| | |
|----------------------|------------|
| Date Taken: | 08/21/2020 |
| Time: | 6:24 AM |
| Temperature: | 70°F |
| Humidity: | 87% |
| Visibility: | 10 miles |
| Wind Direction: | Calm |
| Wind Speed: | 0 mph |
| Conditions Observed: | Fair |

Photograph Information

| | |
|----------------|----------------------|
| Camera: | Canon EOS 5D Mark IV |
| Resolution: | 30.4 Megapixels |
| Focal Length: | 50mm |
| Camera Height: | 9.8 feet AMSL |

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



LAT01 Edwin B. Forsythe NWR at the Woodmansee Estate

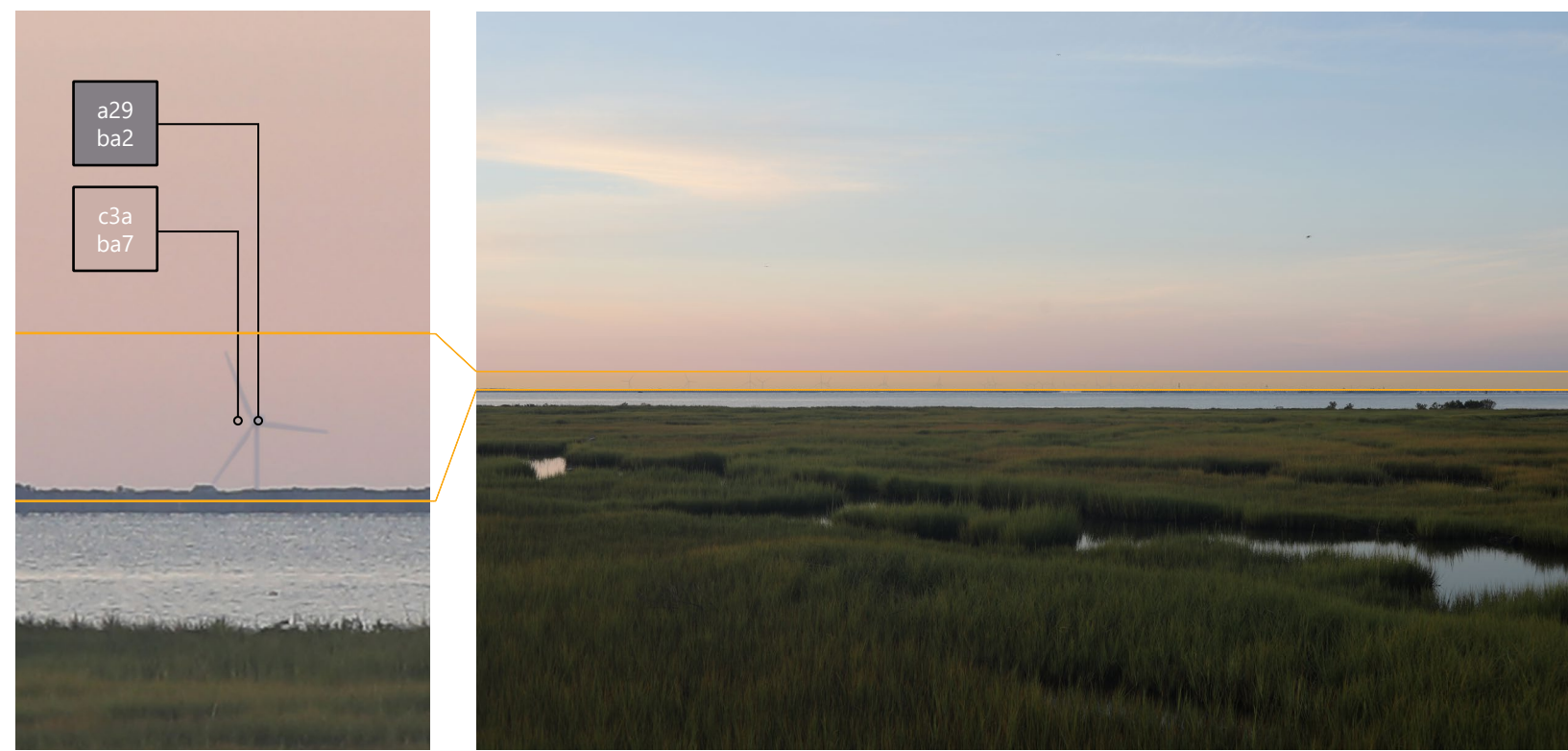
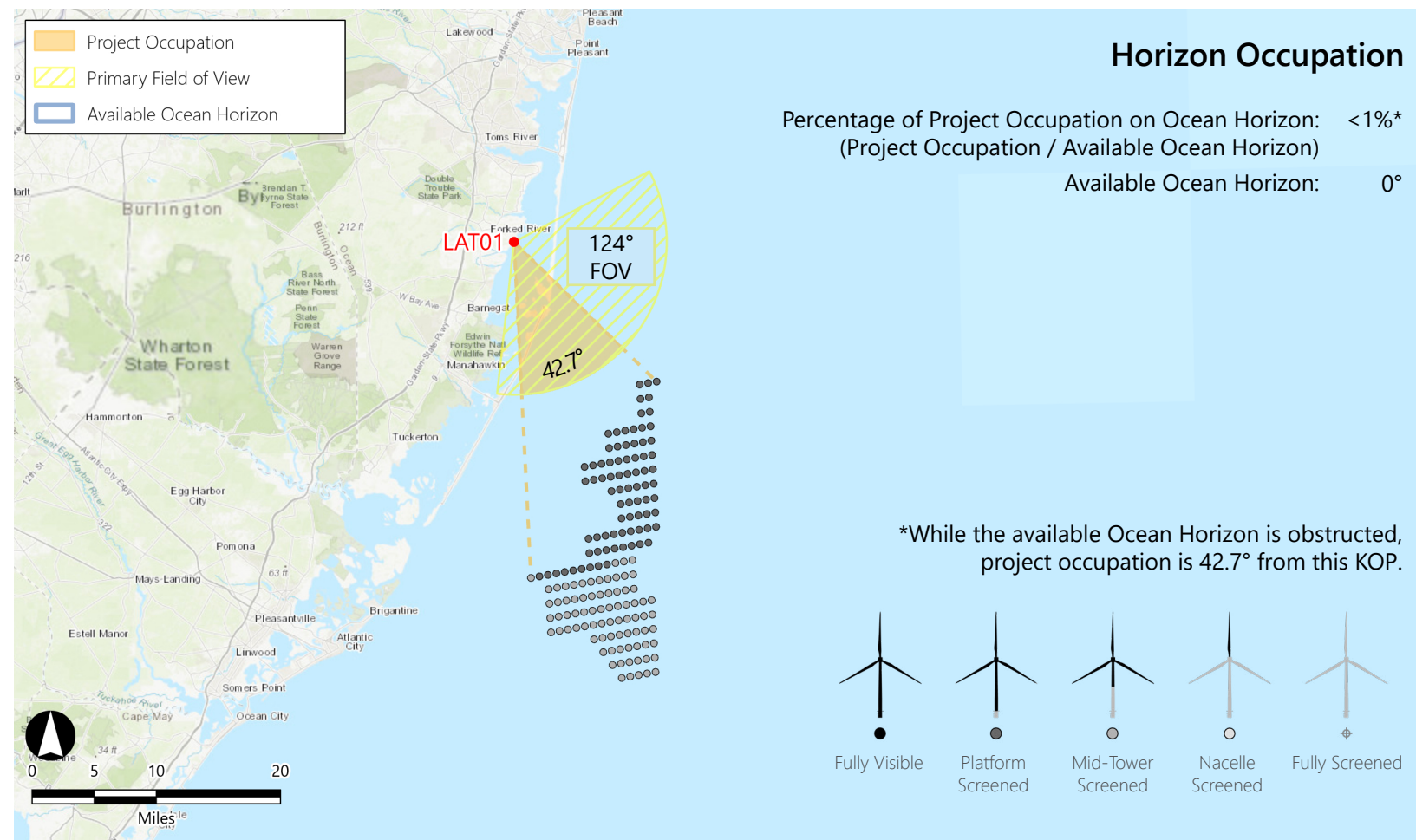
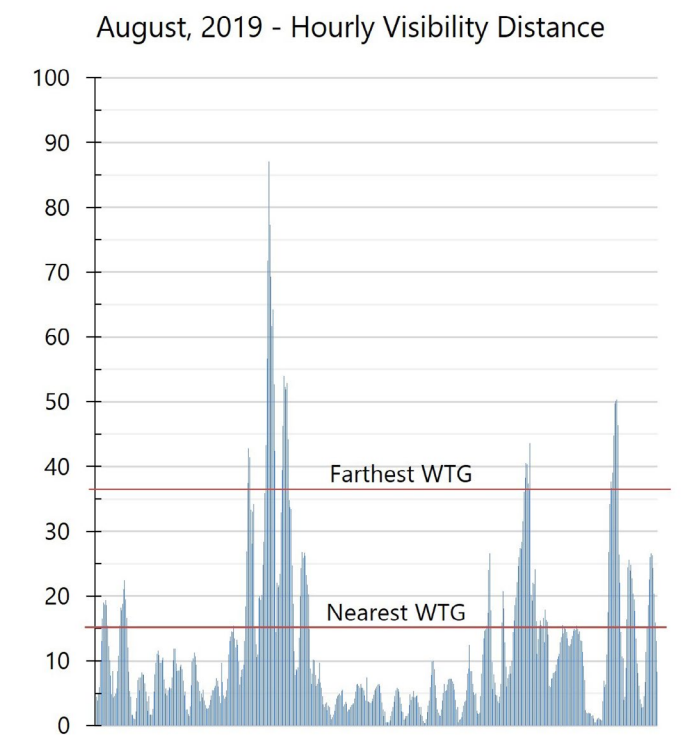
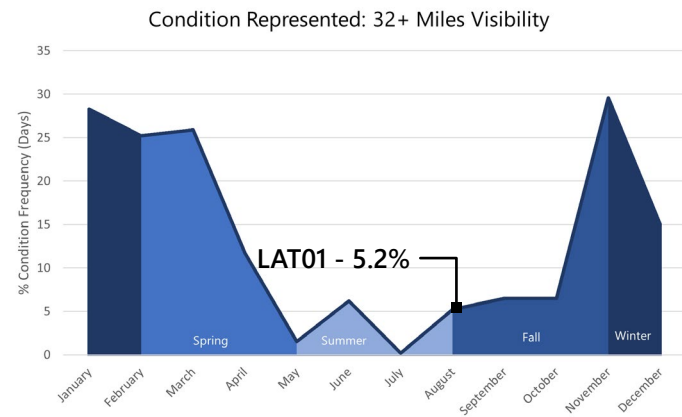
Lacey Township, Ocean County, New Jersey

KOP Information

Primary Field of View: East
 Distance to Closest WTG: 15.3 miles
 Camera Height: 9.8 feet
 User Groups: L. Residents, S. Resident

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

Color Contrast Rating:

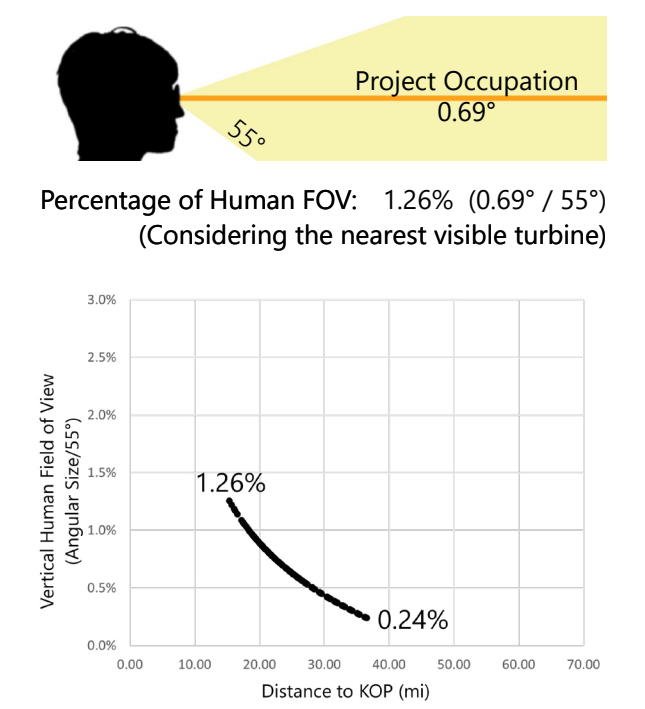
Turbine: 1.25
 Background: 1.25

Lighting Condition: Back lit
 Season: Summer
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

KOP TB02 Illustrates the project from 14.03 miles in the front lit condition. This provides an indication of how the turbines may appear from this KOP during Evening conditions.

Vertical Occupation



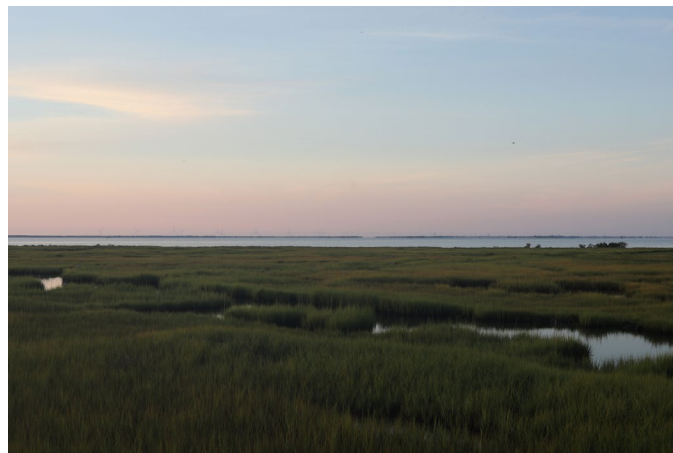
LAT01 Edwin B. Forsythe NWR at the Woodmansee Estate

Lacey Township, Ocean County, New Jersey

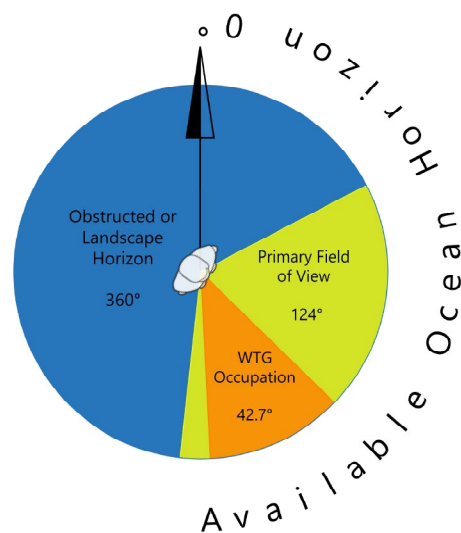
KOP Information

| | |
|---|---------------------------|
| Primary Field of View/Simulation Direction: | S-SE |
| Distance to Closest WTG: | 15.3 miles |
| Camera Height: | 9.8 ft |
| User Groups: | L. Residents, S. Resident |
| Horizon Occupation (% HFOV): | Medium (42.7°, 34.4%) |
| Vertical Occupation: | Medium (0.69°, 1.26%) |
| Character Area Type: | Landscape |
| Character Area: | Dredged Lagoon |

Existing View



Field of View



Existing Landscape/ Seascape Character Description:

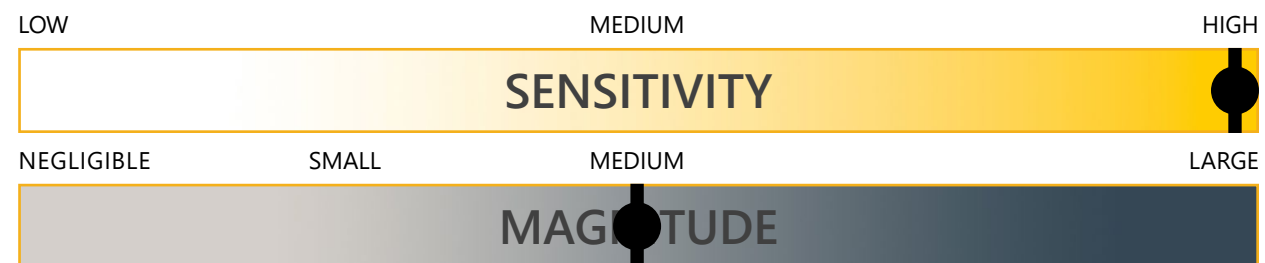
The Dredged Lagoon LCA, adjacent to this KOP and adjacent to the Salt Marsh is characterized by residential neighborhoods with seasonal and year-round homes situated along an artificial dredged waterway. Depending on a residence's position within the zone, outward views across open expanses of water may be available, but in general views from this character area are screened or tightly framed by nearby residences and moored boats. This KOP is taken from the edge of a curbed road that serves the residential development. The development occurs on fingers of land (fill material) separated by water dredged water channels for boat access. This development is surrounded on three sides by vast salt marshes and on the east side by the open waters of Barnegat Bay. The view looks out over the Edwin B. Forsythe NWR which includes more than 47,000 acres of southern New Jersey coastal habitats and is actively managed for migratory birds. The view of the bay and NWR is visually striking due to the mix of color, reflection, and open water. However, this KOP is taken from a private residential neighborhood with limited public access and very few homes within this modified landscape have a view of the NWR. While the NWR itself could be considered highly sensitive, this would not warrant the elevation of the impacts to major due to the viewing circumstances.

Project Contrast:

The WTG result in strong form contrast with the barrier island and structures as they appear to jut out from the land mass and rise above the distant structures such as water towers and buildings. The vertical scale of the WTGs also contrast strongly with these existing features. This strong contrasts with landform, structures, and the inland bay will be reinforced by the WTG motion, which will draw viewer attention. The WTGs would result in moderate contrasts with the existing vegetation. The salt marsh is still a very strong focal point, but again WTG motion is likely to draw the eye, when visible. It is anticipated that lighting would have moderate contrasts due to the incremental increase in lights on the horizon. This site already experiences lights from the development on the barrier island.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | Medium | Residential recreational viewers for whom the bay is an important part of the viewer experience. However, the views of the barrier island have multiple vertical intrusions resulting from the barrier island development and the housing development itself is in contrast with the greater NWR and therefore, already compromised. |
| Value | High | This location is exclusive to a few residential properties that value their visual environment, but this is not indicative of the greater public experience of scenic landscapes. However, the national level protections warrant high value. |
| Sensitivity Rating | High | The Dredged Lagoon Character Area is constructed in an environmentally sensitive and scenic environment. The NWR itself exhibits visual sensitivity, the KOP represents a very small opportunity for this type of undeveloped view of the bay. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Medium | The vertical scale occupies a moderate portion of the human vertical field of view (approximately 0.69°, 1.26%). The visual prominence rating is a 4. |
| Geographic Extent | Medium | The Project only occupies approximately 42.7% of the human horizontal field of view and 34.4% of the human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Medium | Medium size, scale, and geographic extent. |

Overall Impact
Moderate

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: LAT01 - Edwin B. Forsythe National Wildlife Refuge at the Woodmansee Estate
Attachment E: Photosimulations; Page 33 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: LAT01 - Edwin B. Forsythe National Wildlife Refuge at the Woodmansee Estate
Attachment E: Photosimulations; Page 34 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: LAT01 - Edwin B. Forsythe National Wildlife Refuge at the Woodmansee Estate

Attachment E: Photosimulations; Page 36 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



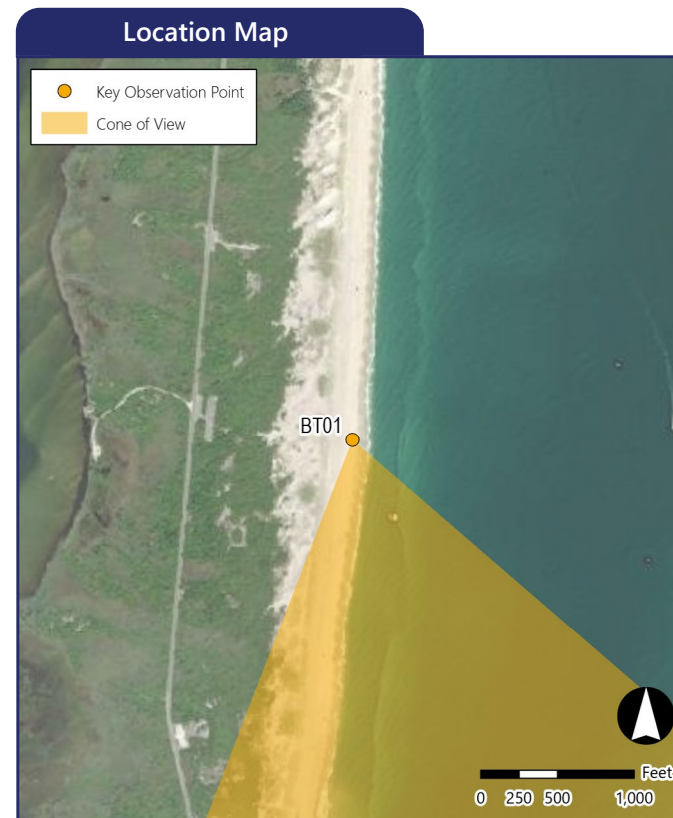
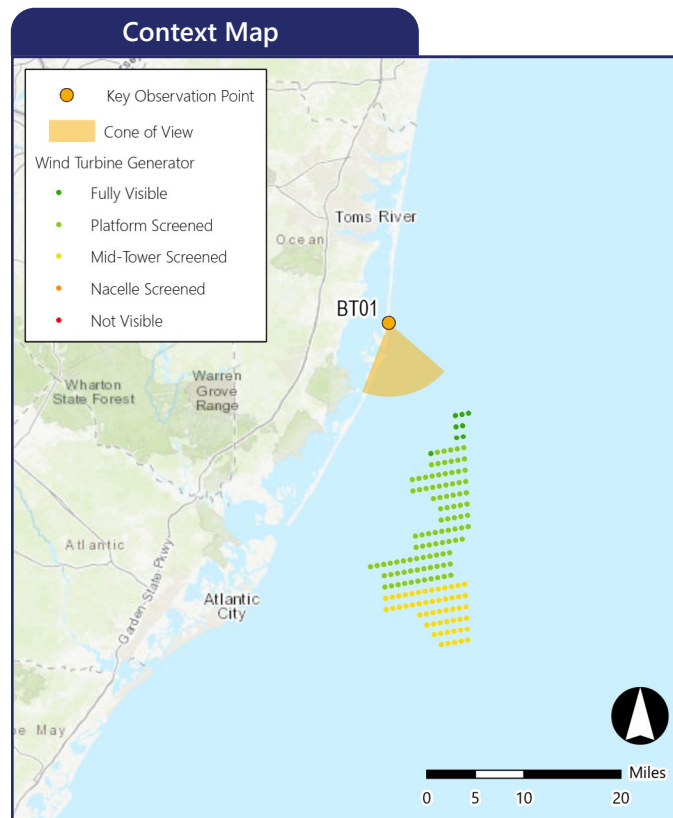
This scale is designed to insure the simulation images are printed at the intended size.

BT01 Island Beach State Park

Berkeley Township, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Island Beach State Park, panning clockwise from east-southeast (left) to southwest (right). The yellow rectangle represents the extent of the simulated photograph(s).



| Simulation Information | |
|---|--|
| Coordinates: | 39.80805°N, 74.08997°W |
| Character Area: | Undeveloped Beach, Seascape (SCA) |
| User Group: | L. Residents, Tourists, Fishing Comm., S. Resident |
| Direction of View: | South |
| Distance to Nearest Visible Turbine: | 11.7 miles |
| Sensitive Resource: | Island Beach State Park, New Jersey Coastal Heritage Trail Area |
| Environmental Information | |
| Date Taken: | 08/21/2020 |
| Time: | 9:35 AM |
| Temperature: | 79°F |
| Humidity: | 62% |
| Visibility: | 10 miles |
| Wind Direction: | South-southeast |
| Wind Speed: | 6 mph |
| Conditions Observed: | Partly Cloudy |
| Photograph Information | |
| Camera: | Canon EOS 5D Mark IV |
| Resolution: | 30.4 Megapixels |
| Focal Length: | 50mm |
| Camera Height: | 10.5 feet AMSL |
| Notes | |
| Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches. | |



BT01 Island Beach State Park

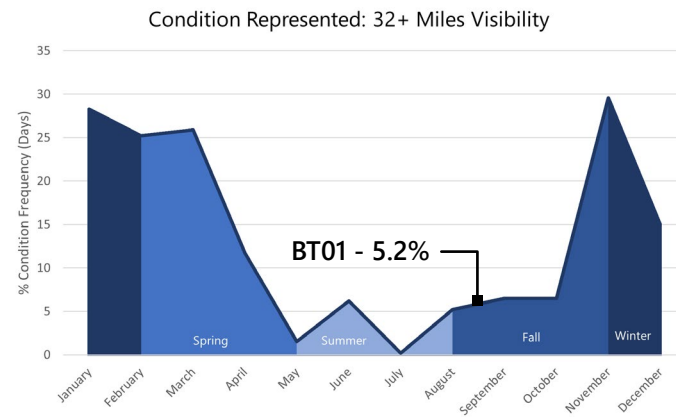
Berkeley Township, Ocean County, New Jersey

KOP Information

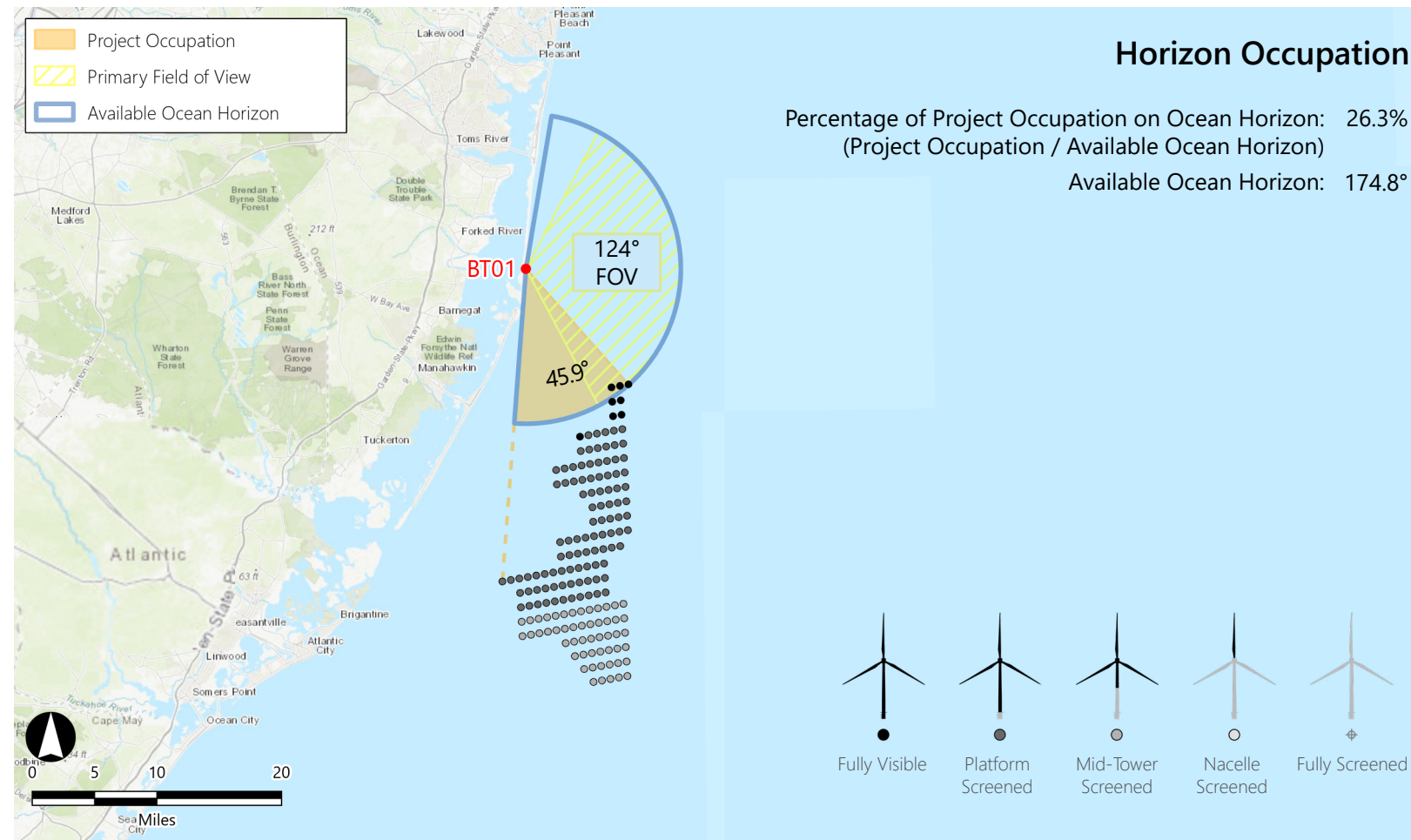
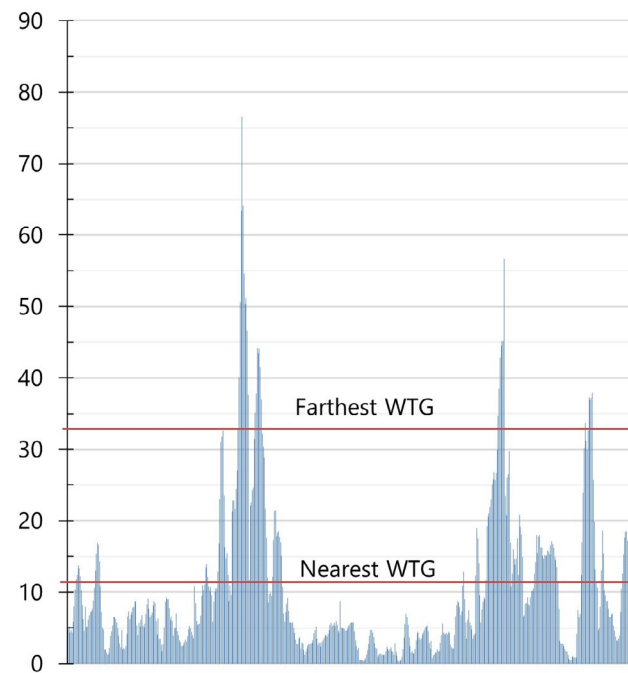
Primary Field of View: East
 Distance to Closest WTG: 11.7 miles
 Camera Height: 10.5 feet
 User Groups: L. Residents, Tourists, Fishing Comm., S. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



August, 2019 - Hourly Visibility Distance



WTG Color Contrast

Color Contrast Rating:

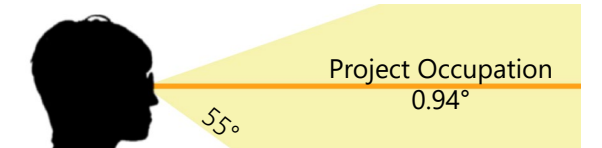
Turbine
 Background } 2.47

Lighting Condition: Side lit
 Season: Summer
 Sky Condition: Partly Cloudy
 Atmospheric Condition: > 10 Miles

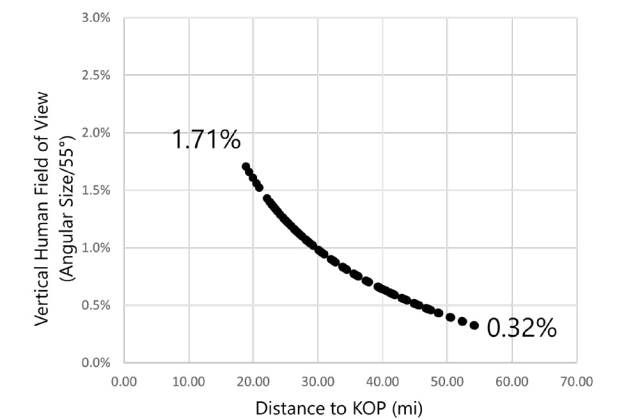
SIMILAR VIEWING PARAMETERS:

KOP BHB01 Illustrates the project from 9.85 miles in the back lit condition. This provides an indication of how the turbines may appear from this KOP during morning conditions.

Vertical Occupation



Percentage of Human FOV: 1.71% (0.94° / 55°)
 (Considering the nearest visible turbine)



BT01 Island Beach State Park

Berkeley Township, Ocean County, New Jersey

KOP Information

Primary Field of View/Simulation Direction: East/South-SE

Distance to Closest WTG: 11.7 miles

Camera Height: 10.5 ft

User Groups: Residents, Tourists, Fishing Comm.

Horizon Occupation (% HFOV): Medium (45.9°, 37%)

Vertical Occupation: Large (0.94°, 1.71%)

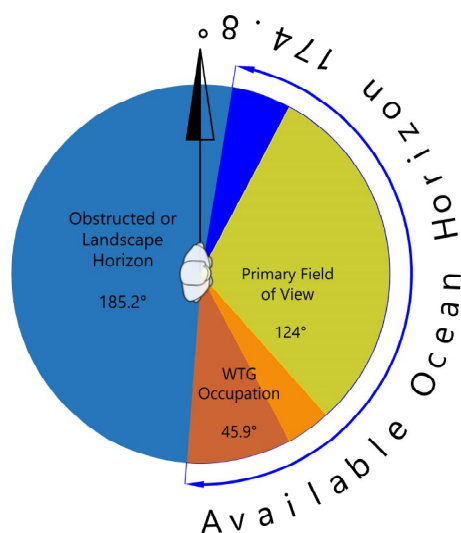
Character Area Type: Seascape

Character Area: Undeveloped Beach

Existing View



Field of View

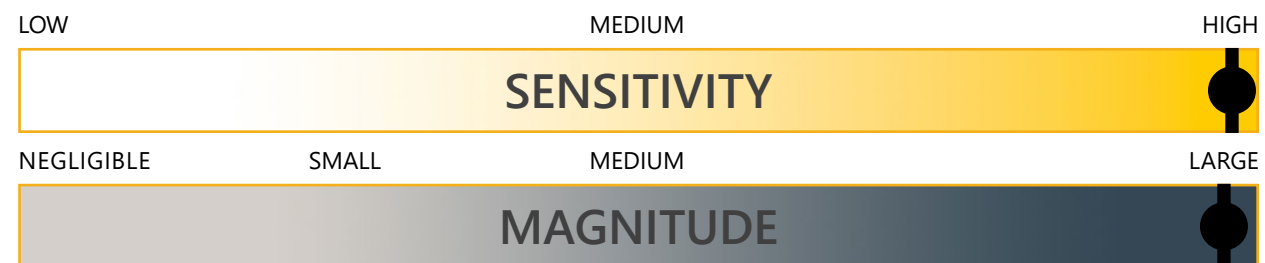


Existing Landscape/ Seascape Character Description:

Island Beach State Park is a preserved barrier island with the Undeveloped Beach SCA that protects a variety of natural shoreline and near-shore habitats. The park contains close to 10 miles of sandy beach, an extensive shoreline along Barnegat Bay, dense maritime forests, rolling sand dunes, and tidal marshes. The views from this location are largely intact and show the signs of the relentless ocean environment. Natural dunes appear weather beaten, but reasonably healthy dune grasses are holding strong. This location is indicative of a natural shoreline without immediate or apparent development pressures. The views from this location are largely intact and show the signs of the relentless ocean environment. Natural dunes appear weather beaten, but reasonably healthy dune grasses are holding strong. This location is indicative of a natural shoreline without immediate or apparent development pressures.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|---|
| Susceptibility | High | Recreational viewers for whom the bay is an important part of the viewer experience. This location is tranquil, undeveloped, and exhibits a natural seascape which is a rare commodity on the NJ coast. |
| Value | High | Despite relatively low visitation and lack of amenities for visitors, this State Park has inherent protections for the natural environment, which in this case are the same protections that make this stretch of beach scenic. |
| Sensitivity Rating | High | The SCA is highly susceptible and has high value to the users and the state, therefore the sensitivity is high. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Large | The vertical scale occupies a moderate portion of the human vertical field of view (approximately 0.94°, 1.71%). The visual prominence rating is a 5. |
| Geographic Extent | Medium | The Project occupies approximately 37% of the human horizontal field of view and 12.6% of the available ocean horizon. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | Large size and scale and medium geographic extent results in large magnitude. |

Project Contrast:

During clear viewing conditions, the WTGs present strong contrast with the Ocean in terms of line, form, color, and scale. The motion, lighting, and vertical scale begins to compete strongly with the landform, but due to the viewing circumstances, moderate contrasts result from the horizontal scale. The visual prominence rating is a 5.

Overall Impact
Major

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BT01 – Island Beach State Park
Attachment E: Photosimulations; Page 40 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



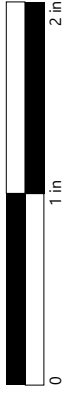
Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: BT01 – Island Beach State Park

Attachment E: Photosimulations; Page 41 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: BT01 – Island Beach State Park

Attachment E: Photosimulations; Page 42 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: BT01 – Island Beach State Park

Attachment E: Photosimulations; Page 43 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



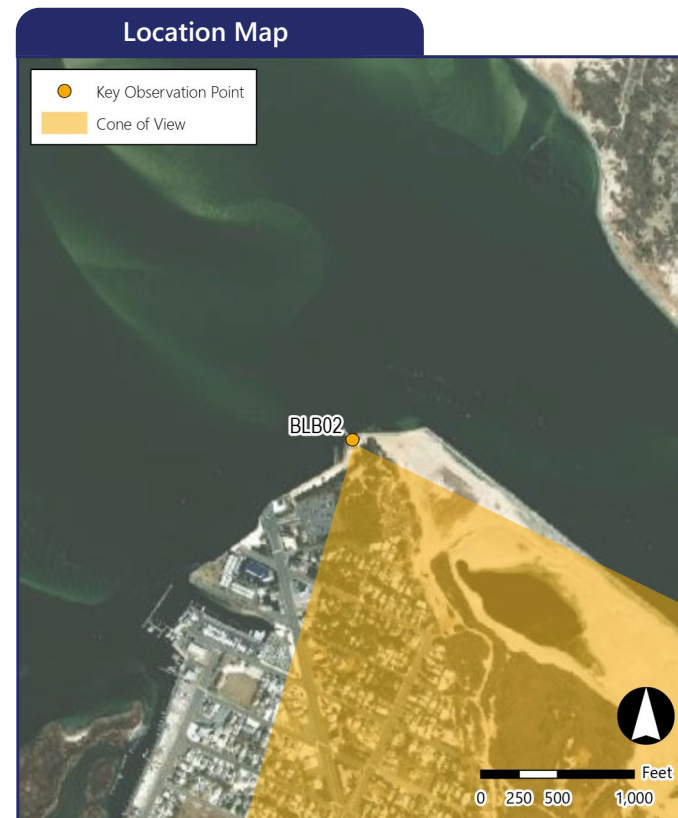
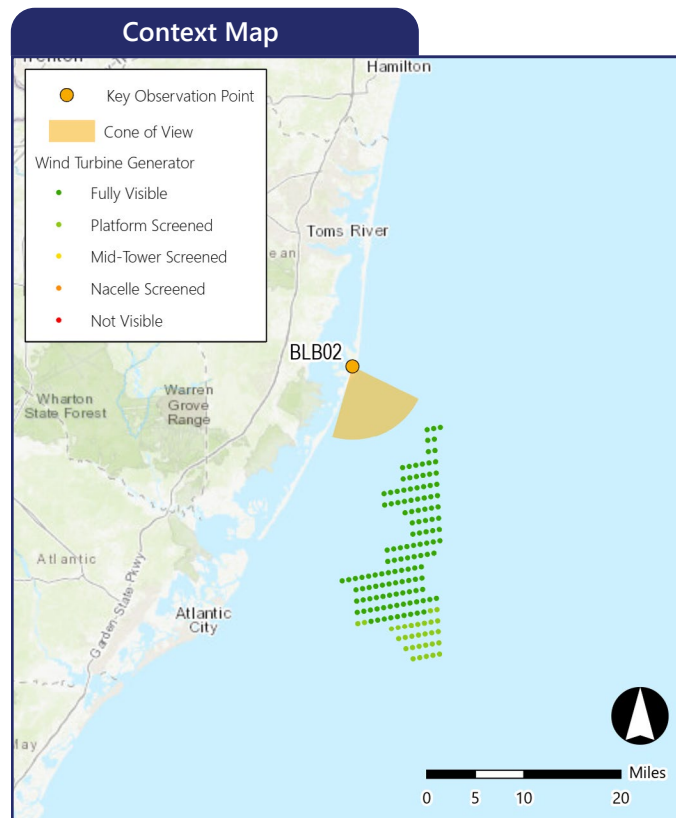
This scale is designed to insure the simulation images are printed at the intended size.

BLB02 Barnegat Lighthouse State Park

Barnegat Light Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from Barnegat Lighthouse State Park, panning clockwise from southeast (left) to southwest (right). The yellow rectangle represents the extent of the simulated photograph(s).



Simulation Information

Coordinates: 39.76433°N, 74.10621°W
 Character Area: Recreation, Seascape (SCA)
 User Group: L. Residents, Tourists, Fishing Comm. S. Residents
 Direction of View: South-southeast
 Distance to Nearest Visible Turbine: 10.1 miles
 Sensitive Resource: Barnegat Lighthouse State Park, Barnegat Lighthouse State Park - Fishing Access, New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 09/20/2018
 Time: 11:35 AM
 Temperature: 73°F
 Humidity: 68%
 Visibility: 10 miles
 Wind Direction: East
 Wind Speed: 7 mph
 Conditions Observed: Cloudy

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 155.7 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Viewshed Analysis indicates no ground-level visibility from this resource.

Simulated Photograph(s)



BLB02 Barnegat Lighthouse State Park

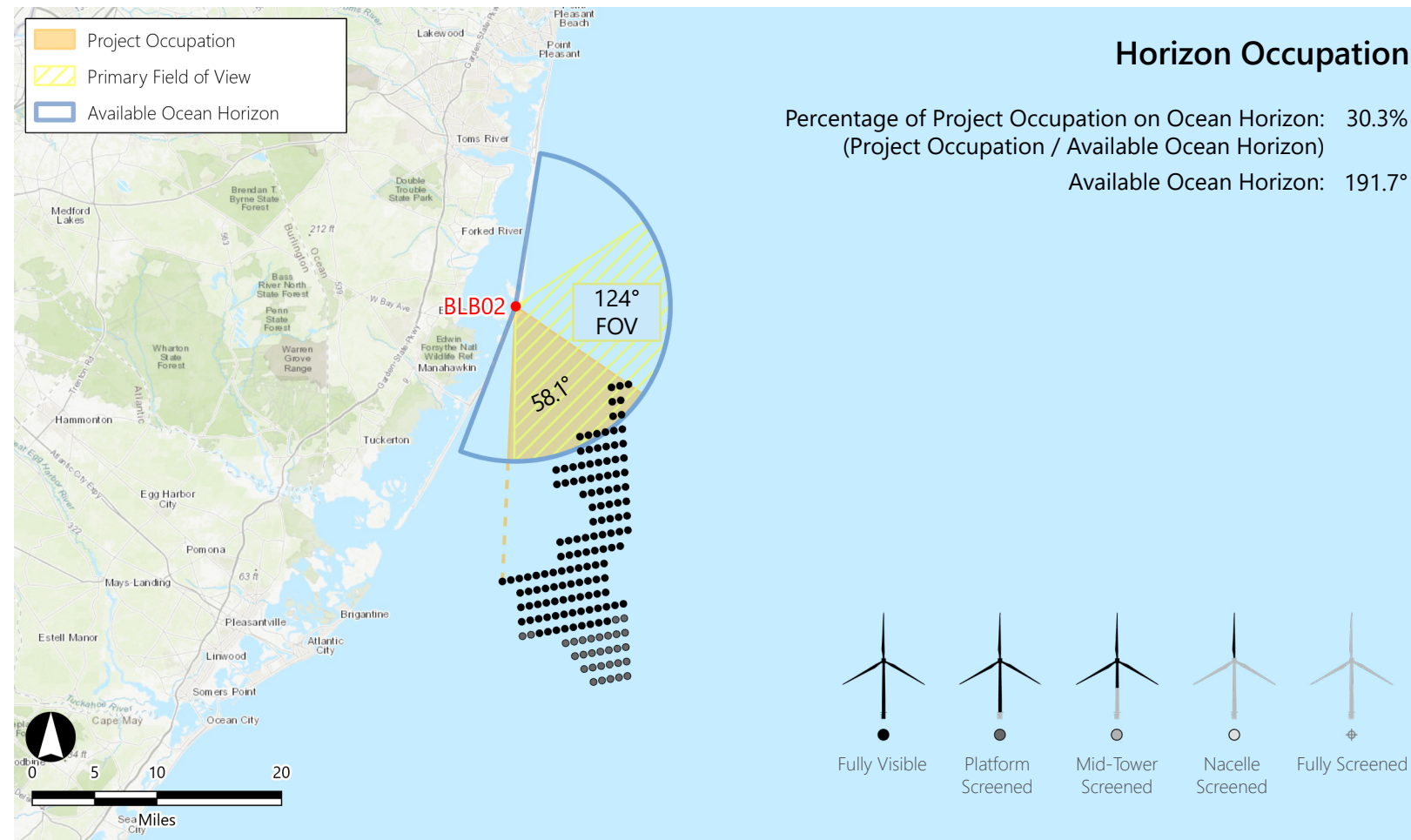
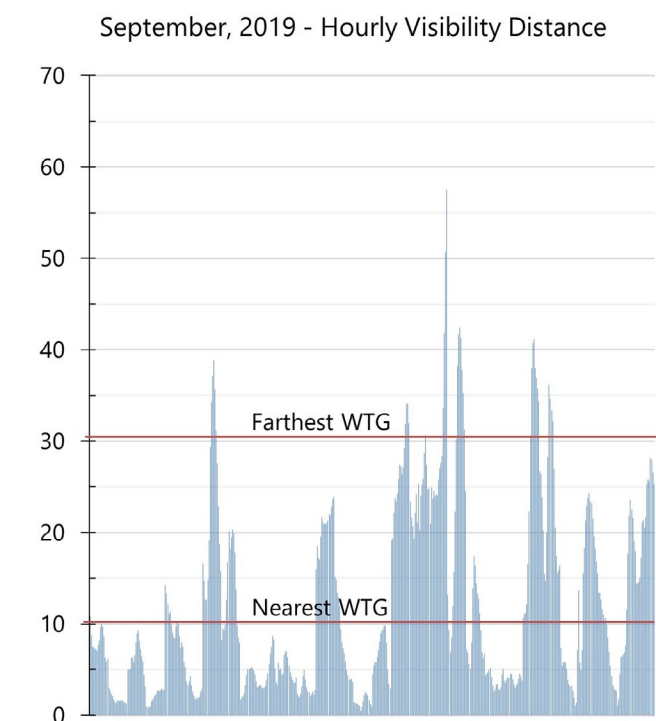
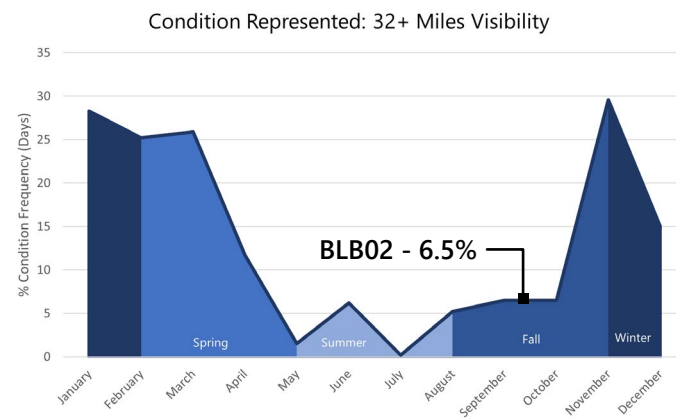
Barnegat Light Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East
 Distance to Closest WTG: 10.1 miles
 Camera Height: 155.7 feet
 User Groups: L. Residents, Tourists, Fishing Comm., S. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

Color Contrast Rating:

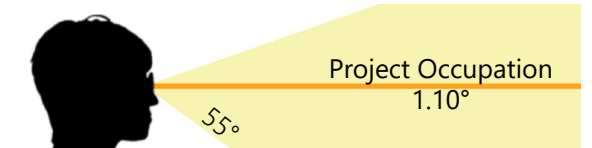


Lighting Condition: Back lit
 Season: Winter
 Sky Condition: Cloudy
 Atmospheric Condition: > 10 Miles

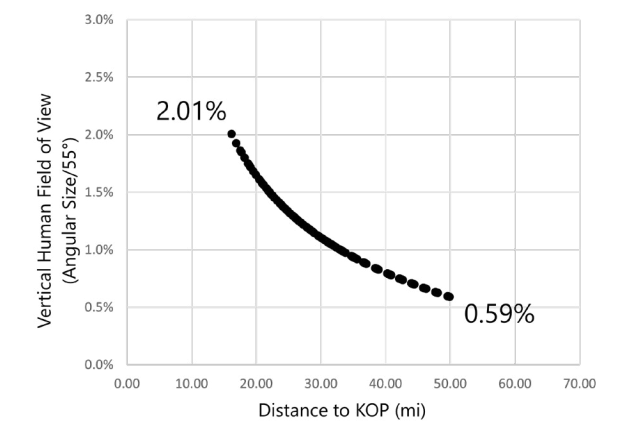
SIMILAR VIEWING PARAMETERS:

KOP BC02 Illustrates the project from 11.26 miles in the side lit condition. This provides an indication of how the turbines may appear from this KOP during midday conditions.

Vertical Occupation



Percentage of Human FOV: 2.01% (1.10° / 55°)
 (Considering the nearest visible turbine)



BLB02 Barnegat Lighthouse State Park

Barnegat Light Borough, Ocean County, New Jersey

KOP Information

Primary Field of View/Simulation Direction: East/South-SE

Distance to Closest WTG: 10.1 miles

Camera Height: 155.7 ft

User Groups: Residents, Tourists, Fishing Comm.

Horizon Occupation (% HFOV): Large (58.1°, 47%)

Vertical Occupation: Large (1.1°, 2.01%)

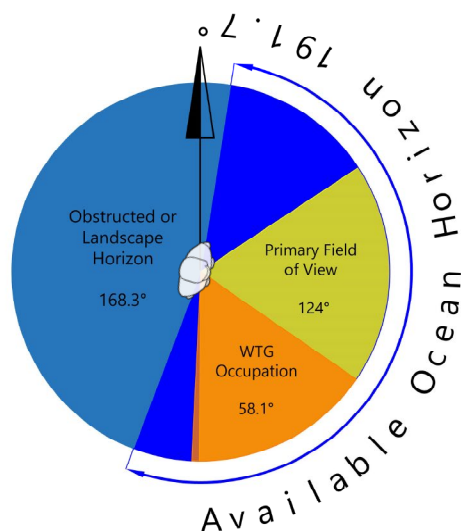
Character Area Type: Seascape

Character Area: Recreation

Existing View



Field of View



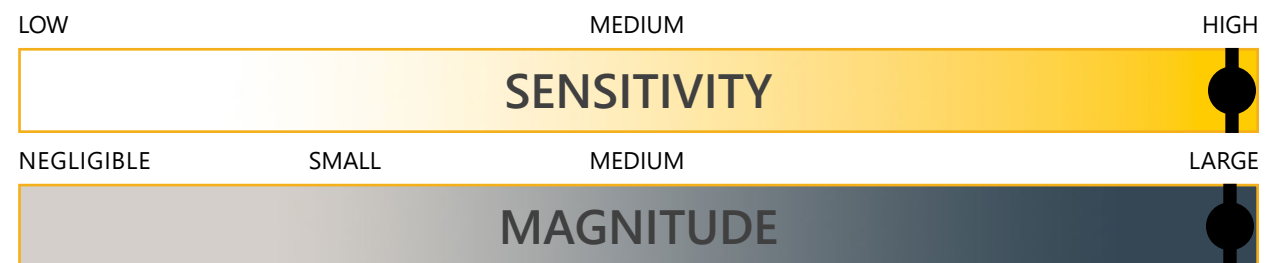
Existing Landscape/ Seascape Character

Description:

This is an elevated view of the village of Barnegat Light, Inlet, and the State Park. The foreground is composed of a mix of modern and traditional residential structures of modest scale. The residences are setback from the ocean and intermittent pockets of low scrub/shrub vegetation leads up to the dunes. These vegetated areas are bisected by beach trails to accommodate vehicle and pedestrian beach access. The middle ground is composed of higher density homes and businesses lining the main road (Ocean County Route 607) which presents as more of a village town center feel with larger multi-story buildings. The Inland Bay makes up a portion of the middle ground and is interspersed with islands and peninsulas, some of which are developed and others are salt marsh remnants. Built in 1859, Barnegat Lighthouse is the central feature of the park, and from the observation deck offers a panoramic view of Barnegat Bay, Island Beach, and Long Beach Island. The park also offers opportunities for picnicking, bird watching, and fishing access to Barnegat Inlet. No swimming is allowed at the park. Barnegat Lighthouse State Park is part of the New Jersey Coastal Heritage Trail.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | High | The ocean and seascape are important components of the view from this location. Additionally, the lighthouse is a historic structure and feature of the NJCHT. The state park offers comfort amenities for visitors and people come here for the history, recreation, and views. |
| Value | High | Relatively low viewership due to the climb to the top, but this is a rare elevated view with state protection. Therefore, for those that can experience the view, it is recognized as a highly valued resource. |
| Sensitivity Rating | High | Due to high susceptibility and value, this resource has high sensitivity. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Large | The vertical scale occupies a large portion of the human vertical field of view (approximately 1.1°, 2.01%). The visual prominence rating is a 6. |
| Geographic Extent | Large | The Project occupies approximately 47% of the human horizontal field of view and 12.6% of the available ocean horizon. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | Large size and scale and large geographic extent results in large magnitude. |

Project Contrast:

During clear viewing conditions, the WTGs present strong line, form, and color contrast with the ocean due to the vertical intrusion on the clean horizon line. The WTGs have moderate line and form contrast with landform due to the degree of separation in the vertical viewing plane between the ocean and the landform offered by this elevated vantage point. In all instances, strong contrast is expected to result from the motion and lighting associated with the WTGs. However, this view is not available at night. The views of the Bay from this KOP will generally be unaffected by the presence of the WTGs due to the fact the two are not coincident.

Overall Impact
Major

Existing Conditions



Photographic data provided by and credited to:
TJD&A Landscape Architects and Planners | Ocean Wind LLC | Orsted Wind Power North America LLC

Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02 - Barnegat Lighthouse State Park
Attachment E: Photosimulations: Page 47 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Photographic data provided by and credited to:
TJD&A Landscape Architects and Planners | Ocean Wind LLC | Orsted Wind Power North America LLC

Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02 - Barnegat Lighthouse State Park
Attachment E: Photosimulations: Page 48 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Photographic data provided by and credited to:
TJD&A Landscape Architects and Planners | Ocean Wind LLC | Orsted Wind Power North America LLC

Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02 - Barnegat Lighthouse State Park
Attachment E: Photosimulations; Page 49 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Photographic data provided by and credited to:
TJD&A Landscape Architects and Planners | Ocean Wind LLC | Orsted Wind Power North America LLC

Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02 - Barnegat Lighthouse State Park
Attachment E: Photosimulations: Page 50 of 289

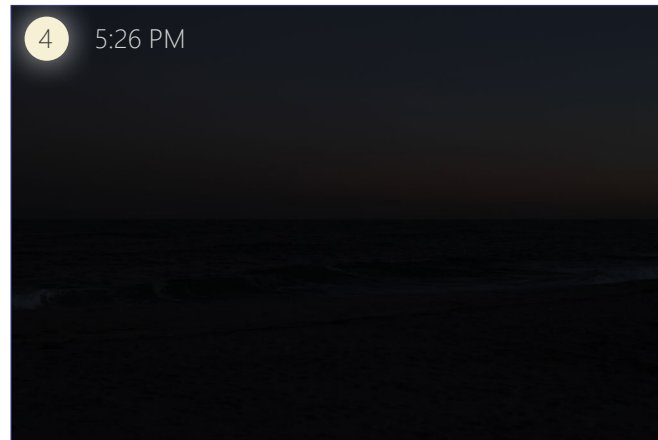
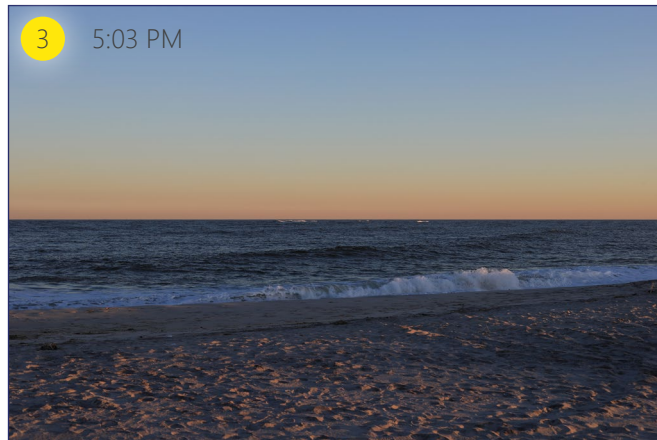
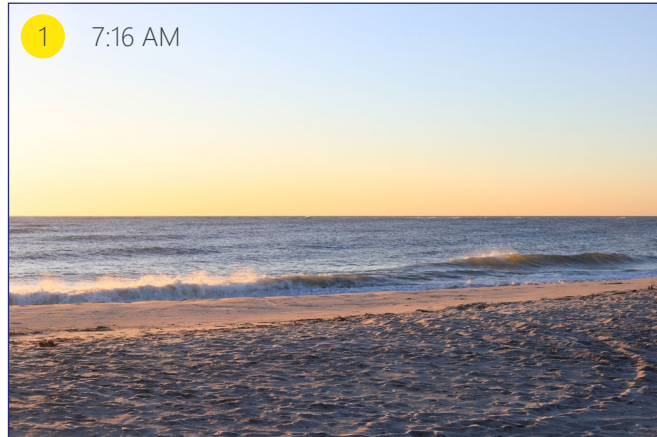
Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



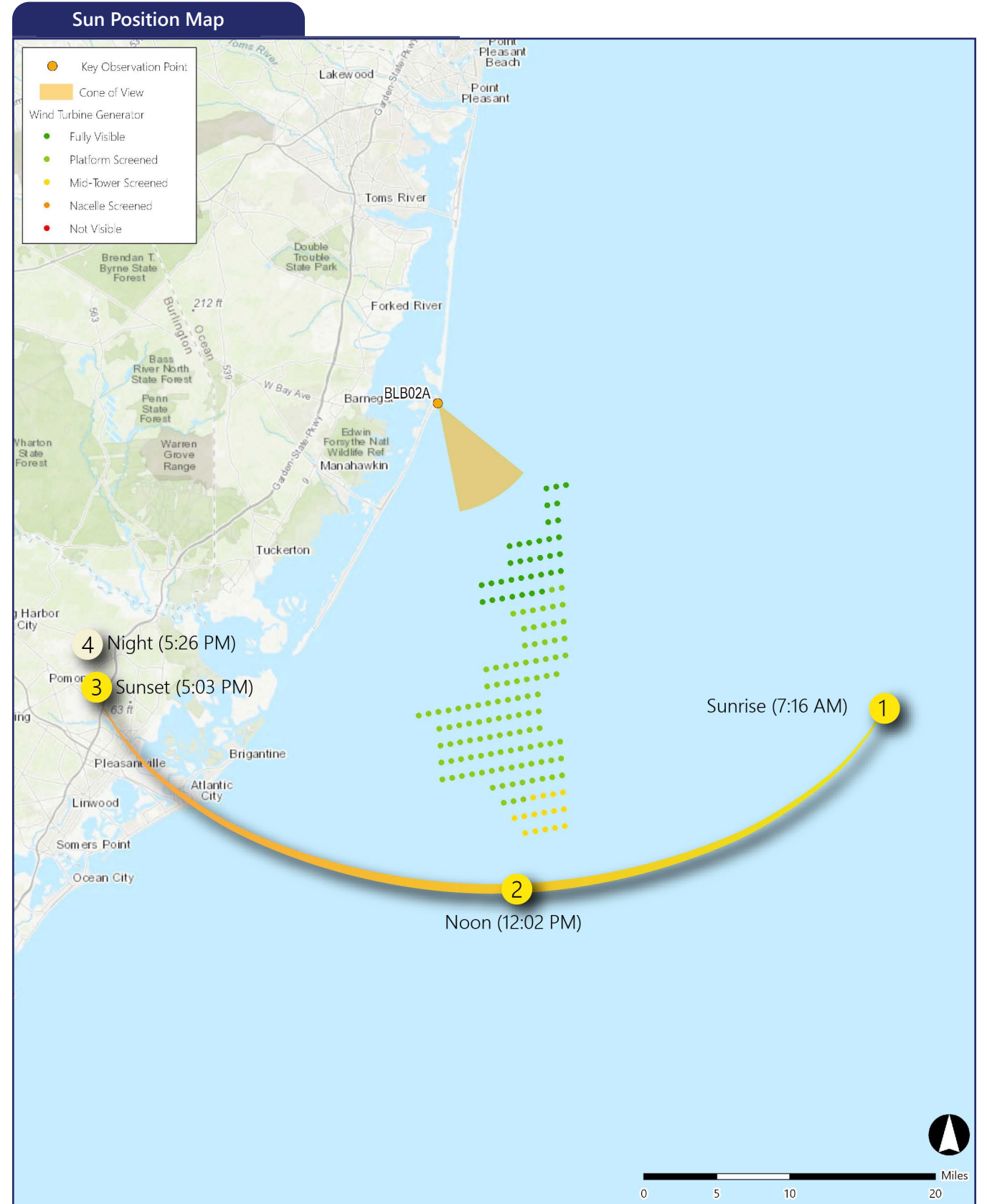
This scale is designed to insure the simulation images are printed at the intended size.

BLB02A Atlantic Ocean Beachfront

Barneget Light Borough, Ocean County, New Jersey



QR Code for Timelapse Video
[Timelapse Video Link](#)



Simulation Information

| | |
|--------------------------------------|--|
| Coordinates: | 39.75498°N, 74.10148°W |
| Character Area: | Residential Beachfront, Seascape (SCA) |
| User Group: | L. Residents, Tourists, Fishing Comm., S. Resident |
| Direction of View: | South-southeast |
| Distance to Nearest Visible Turbine: | 9.5 miles |
| Sensitive Resource: | Atlantic Ocean Beachfront Park |

Environmental Information

| | |
|----------------------|----------------|
| Date Taken: | 02/05/2024 |
| Time: | Various |
| Temperature: | 43°F |
| Humidity: | 42% |
| Visibility: | 10 miles |
| Wind Direction: | East-northeast |
| Wind Speed: | 6 mph |
| Conditions Observed: | Fair |

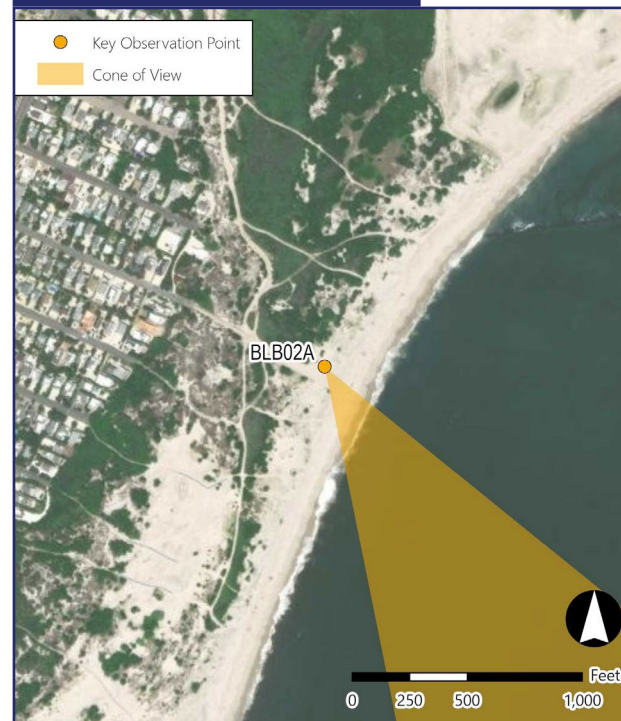
Photograph Information

| | |
|----------------|----------------------|
| Camera: | Canon EOS 5D Mark IV |
| Resolution: | 30.4 Megapixels |
| Focal Length: | 50mm |
| Camera Height: | 13.7 feet AMSL |

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Context Map



Existing Conditions (Sunrise)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02A - Atlantic Ocean Beachfront
Attachment E: Photosimulations; Page 52 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Sunrise) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02A - Atlantic Ocean Beachfront
Attachment E: Photosimulations: Page 53 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02A - Atlantic Ocean Beachfront
Attachment E: Photosimulations; Page 54 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02A - Atlantic Ocean Beachfront
Attachment E: Photosimulations: Page 55 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Sunset)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02A - Atlantic Ocean Beachfront
Attachment E: Photosimulations; Page 56 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Sunset) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02A - Atlantic Ocean Beachfront
Attachment E: Photosimulations: Page 57 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Night)

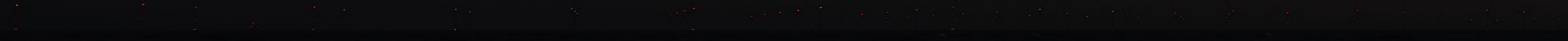


Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Night) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BLB02A - Atlantic Ocean Beachfront
Attachment E: Photosimulations: Page 59 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



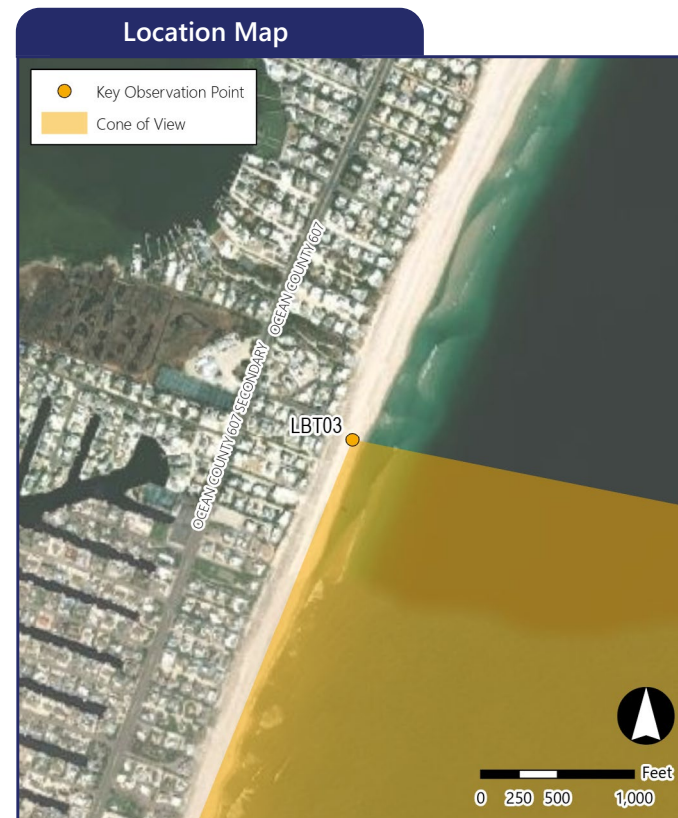
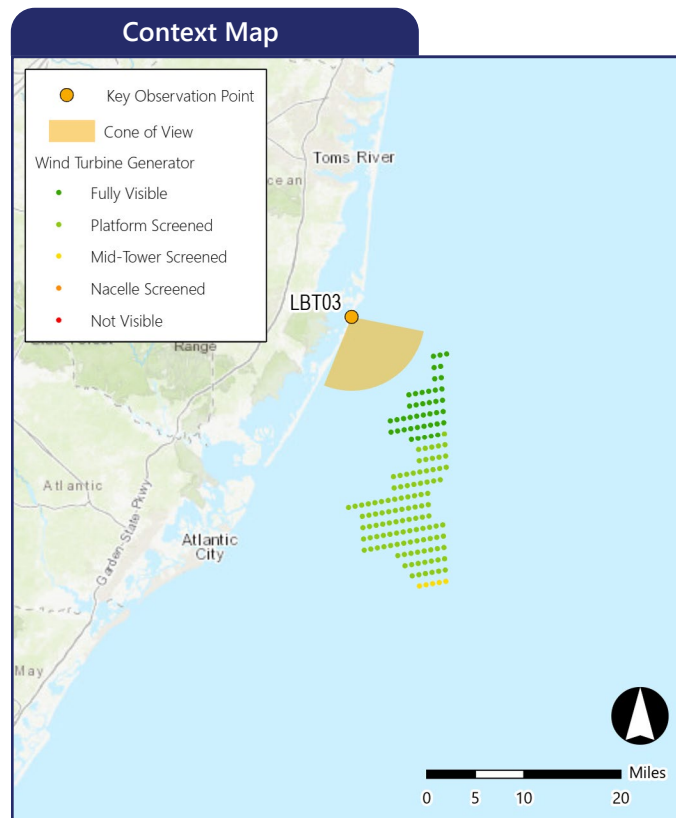
This scale is designed to insure the simulation images are printed at the intended size.

LBT03 Beach at Long Beach Island Foundation for the Arts and Sciences

Long Beach Township, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Beach at Long Beach Island Foundation for the Arts and Sciences NRI, panning clockwise from east (left) to south-southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.72895°N, 74.12058°W
 Character Area: Residential Beachfront, Seascape (SCA)
 User Group: L. Residents, Tourists, Fishing Comm. S. Residents
 Direction of View: South-southeast
 Distance to Nearest Visible Turbine: 9.4 miles
 Sensitive Resource: New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 09/22/2020
 Time: 5:17 PM
 Temperature: 69°F
 Humidity: 38%
 Visibility: 10 miles
 Wind Direction: West
 Wind Speed: 10 mph
 Conditions Observed: Fair

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 16.6 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



LBT03 Beach at Long Beach Island Foundation for the Arts and Sciences

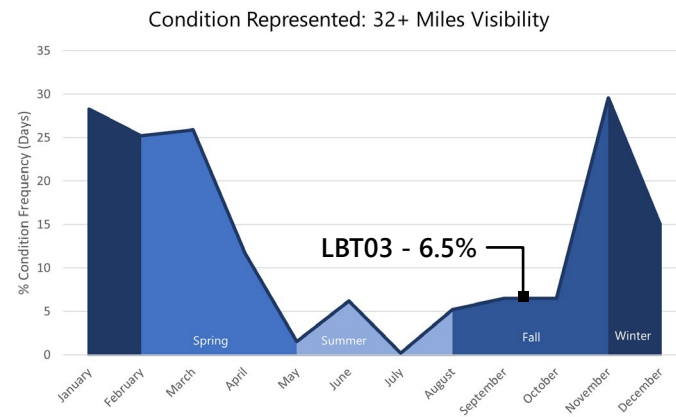
Long Beach Township, Ocean County, New Jersey

KOP Information

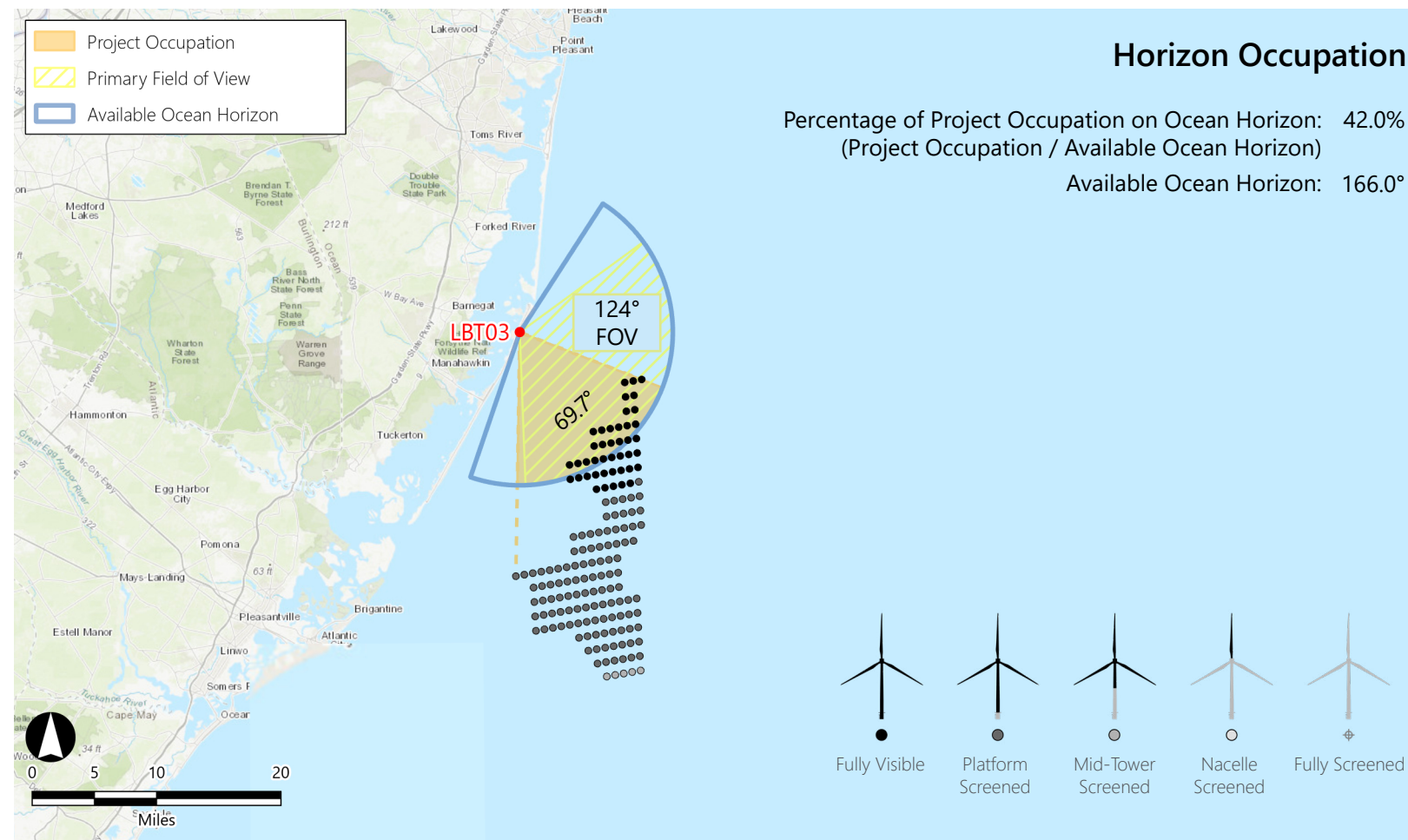
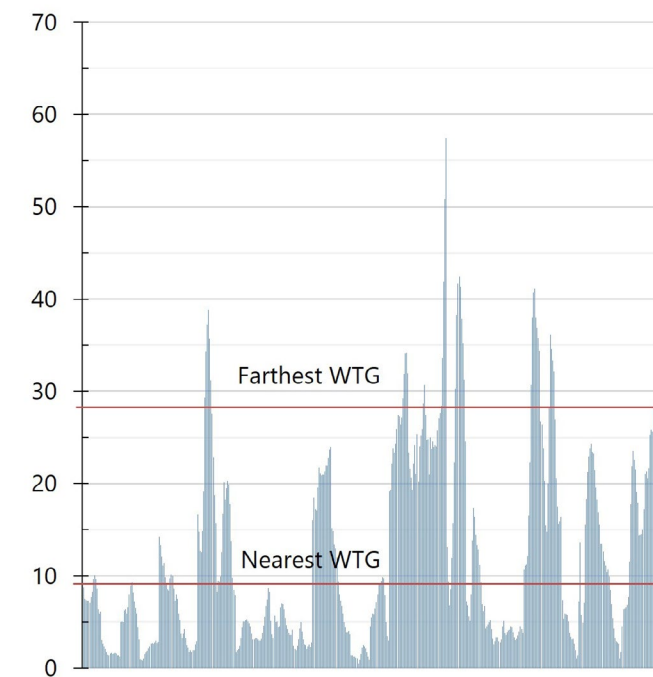
Primary Field of View: East
 Distance to Closest WTG: 9.4 miles
 Camera Height: 16.6 feet
 User Groups: L. Residents, Tourists, Fishing Comm., S. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.

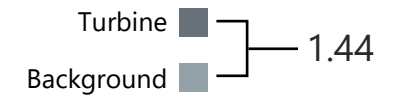


September, 2019 - Hourly Visibility Distance



WTG Color Contrast

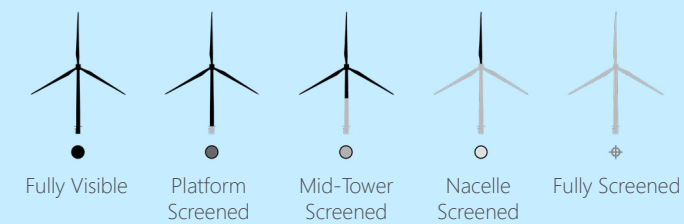
Color Contrast Rating:



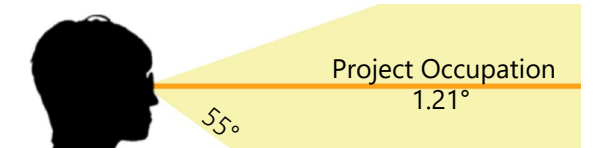
Lighting Condition: Side lit
 Season: Fall
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

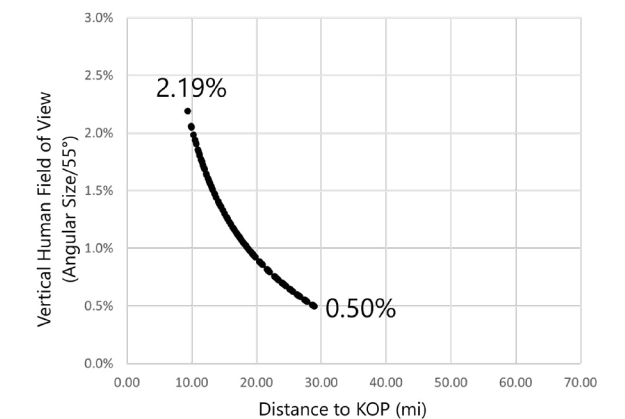
KOP BHB03 Illustrates the project from 9.62 miles in the front lit condition. This provides an indication of how the turbines may appear from this KOP during Evening conditions.



Vertical Occupation



Percentage of Human FOV: 2.19% (1.21° / 55°)
 (Considering the nearest visible turbine)



LBT03 Beach at Long Beach Island Foundation for the Arts and Sciences

Long Beach Township, Ocean County, New Jersey

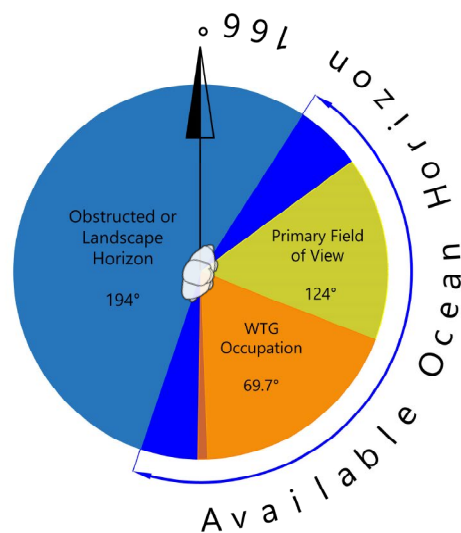
KOP Information

Primary Field of View/Simulation Direction: East/South-SE
 Distance to Closest WTG: 9.4 miles
 Camera Height: 16.6 ft
 User Groups: Residents, Tourists, Fishing Comm.
 Horizon Occupation (% HFOV): Large (69.7°, 56%)
 Vertical Occupation: Large (1.21°, 2.19%)
 Character Area Type: Seascape
 Character Area: Residential Beachfront, Seascape

Existing View



Field of View

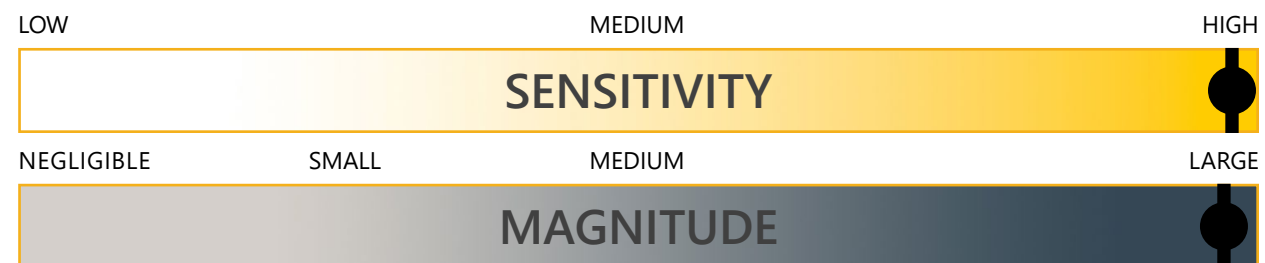


Existing Landscape/ Seascape Character Description:

This view is from the beach accessed via East Coast Avenue off Long Beach Boulevard on Long Beach Island in the township of Long Beach. The KOP occurs along a narrow ocean shoreline which low and even up to the dunes which rise abruptly from the beach substantially screening residential area beyond when viewing west and directing views along the beach or over the ocean, to the east. The dune grasses are visible and appear to be well established compared to other locations within this GAA. Sand fencing, wooden posts, and access points are visible intermittently. Groups of beach goers are also present. Although outside the field of view in the selected photograph, the area immediately inland from the beach is developed and representative of the Residential Beachfront Character Area. While the visual qualities of the wide-open beach are common along the eastern seaboard, this view has an especially tranquil quality that is minimally interrupted by built amenities or visual clutter.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|---|
| Susceptibility | High | This KOP is representative of residents, tourists, and recreationalists for whom the scenic quality of the seascape and ocean is an important part of their experience. |
| Value | Medium | Unlike many other beaches along the NJ coast, this area is intended exclusively for homeowners and vacationers who rent beach houses. While they individually place value on the view of the ocean to varying degrees, there are no formal scenic protections in place. |
| Sensitivity Rating | High | Due to the high susceptibility and medium value, this view is highly sensitive. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Large | The vertical scale occupies 2.19% of the vertical field of view which is approximately 1.21°. |
| Geographic Extent | Large | The geographic extent occupies 69.7° which is 56% of the human field of view and 42% of the total visible ocean horizon. As such, the viewer could not easily avoid a view of the Project when viewing the ocean. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | The magnitude is large due to the large vertical scale and horizon occupation. |

Project Contrast:

During clear viewing conditions, the WTGs present strong line, form, and color contrast with the ocean and noticeability will increase with the WTG rotor movement and lighting which would also present strong contrast with landform. The contrast with vegetation is relatively weak due to the viewing direction, however the rotor motion could also detract from this feature. Generally, the contrast with structures is also weak due to the viewing direction and circumstance.

Overall Impact
Major

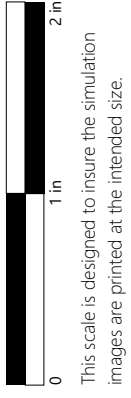
Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: LBT03 - Beach at Long Beach Island Foundation for the Arts and Sciences
Attachment E: Photosimulations; Page 63 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: LBT03 - Beach at Long Beach Island Foundation for the Arts and Sciences
Attachment E: Photosimulations; Page 64 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

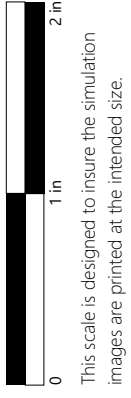
Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: LBT03 - Beach at Long Beach Island Foundation for the Arts and Sciences
Attachment E: Photosimulations; Page 65 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: LBT03 - Beach at Long Beach Island Foundation for the Arts and Sciences
Attachment E: Photosimulations; Page 66 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: LBT03 - Beach at Long Beach Island Foundation for the Arts and Sciences
Attachment E: Photosimulations; Page 67 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: LBT03 - Beach at Long Beach Island Foundation for the Arts and Sciences
Attachment E: Photosimulations; Page 68 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



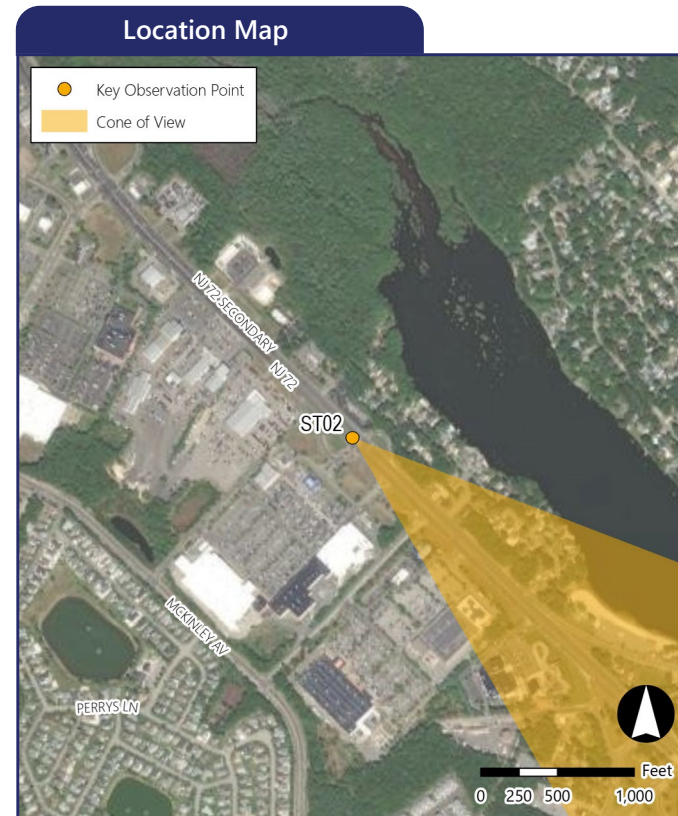
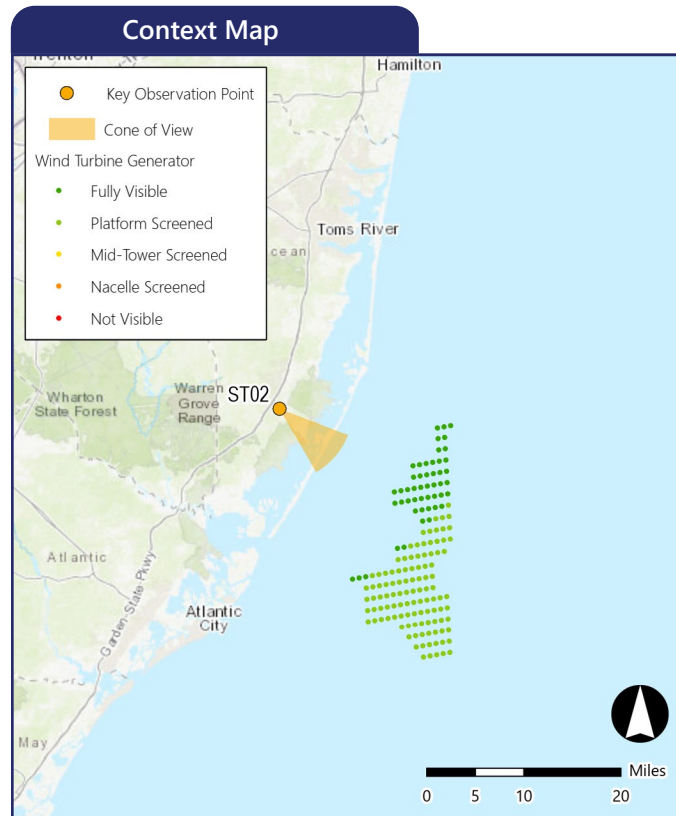
This scale is designed to insure the simulation images are printed at the intended size.

ST02 Barnegat Road

Stafford Township, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from Barnegat Road, panning clockwise from east (left) to southwest (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.69998°N, 74.26803°W
 Character Area: Commercial Strip Development
 User Group: Through Travelers, L. Residents
 Direction of View: Southeast
 Distance to Nearest Visible Turbine: 14.6 miles
 Sensitive Resource: New Jersey Coastal Heritage Trail Area, Census Tract 7351.01, Edwin B. Forsythe NWR

Environmental Information

Date Taken: 08/18/2023
 Time: 3:25 PM
 Temperature: 83°F
 Humidity: 44%
 Visibility: 10 miles
 Wind Direction: West
 Wind Speed: 15 mph
 Conditions Observed: Fair

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 52.8 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



ST02 Barnegat Road

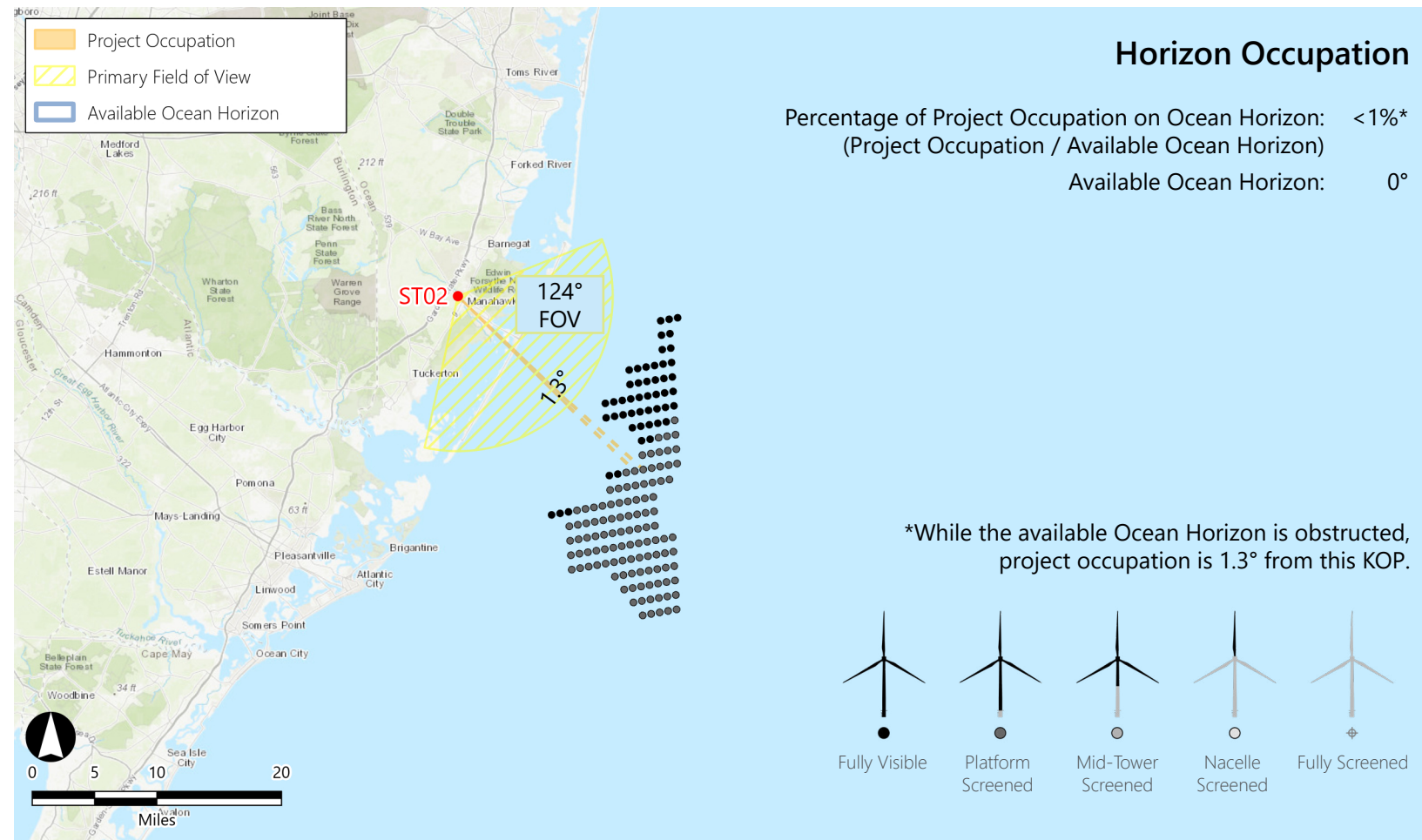
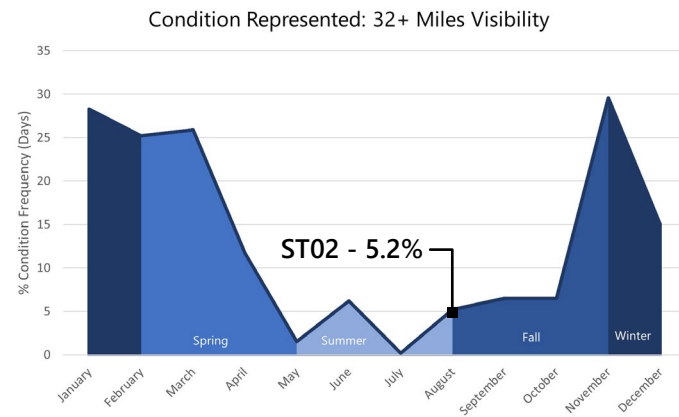
Stafford Township, Ocean County, New Jersey

KOP Information

Primary Field of View: Southeast
 Distance to Closest WTG: 14.6 miles
 Camera Height: 52.8 feet
 User Groups: Through Travelers, L. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

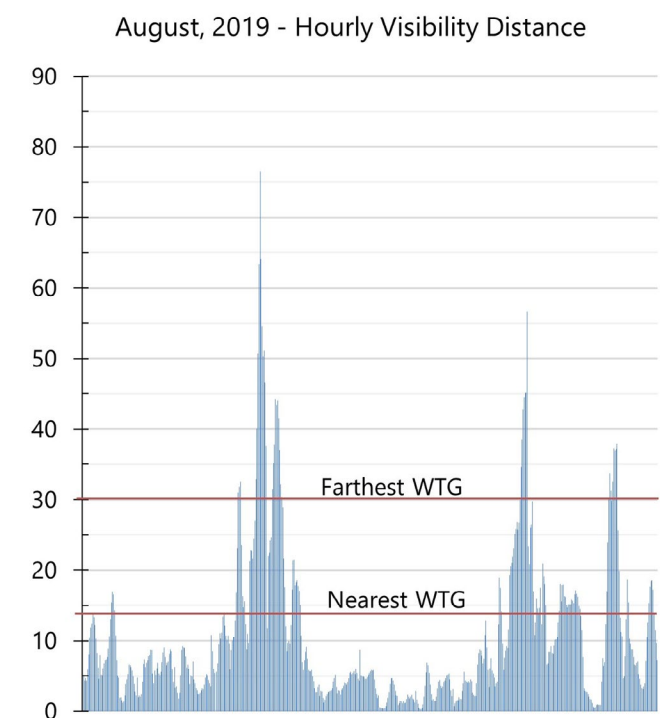
Color Contrast Rating:

Turbine: 1.31
 Background: 1.31

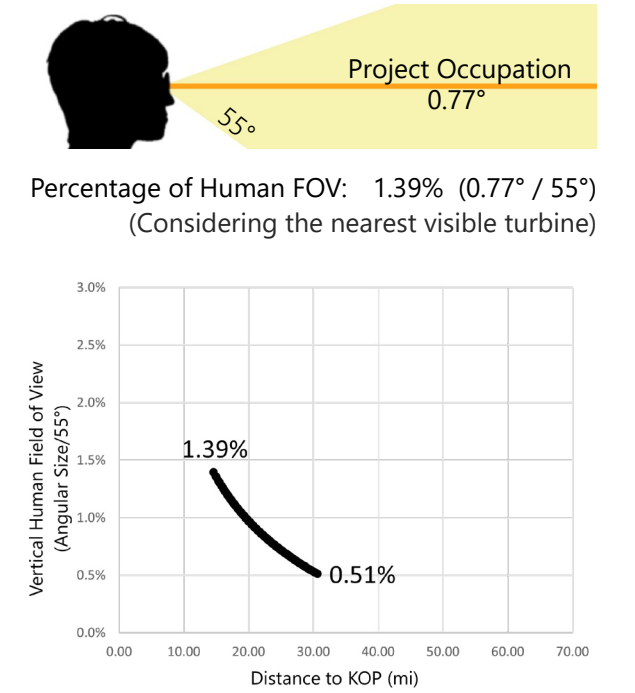
Lighting Condition: Front lit
 Season: Summer
 Sky Condition: Fair
 Atmospheric Condition: >10 Miles

SIMILAR VIEWING PARAMETERS:

KOP TB02 Illustrates the project from 14.03 miles in the front lit condition. This provides an indication of how the turbines may appear from this KOP during afternoon conditions.



Vertical Occupation



ST02 Barnegat Road

Stafford Township, Ocean County, New Jersey

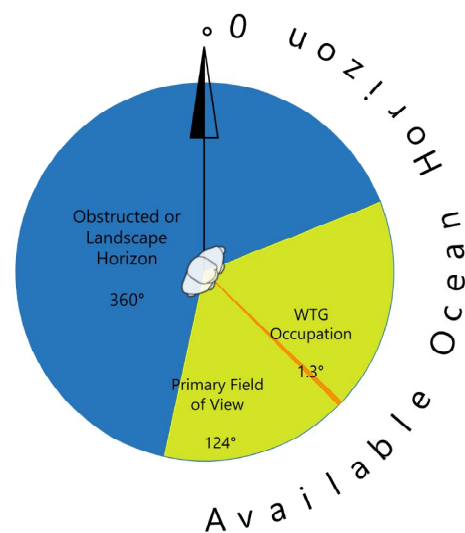
KOP Information

| | |
|---|-----------------------------------|
| Primary Field of View/Simulation Direction: | Southeast/SE |
| Distance to Closest WTG: | 14.6 miles |
| Camera Height: | 52.8 ft |
| User Groups: | Through Travelers, L. Residents |
| Horizon Occupation (% HFOV): | Small (1.3°, 1.0%) |
| Vertical Occupation: | Small (0.77°, 1.39%) Theoretical |
| Character Area Type: | Landscape |
| Character Area: | Commercial Strip Development |

Existing View



Field of View

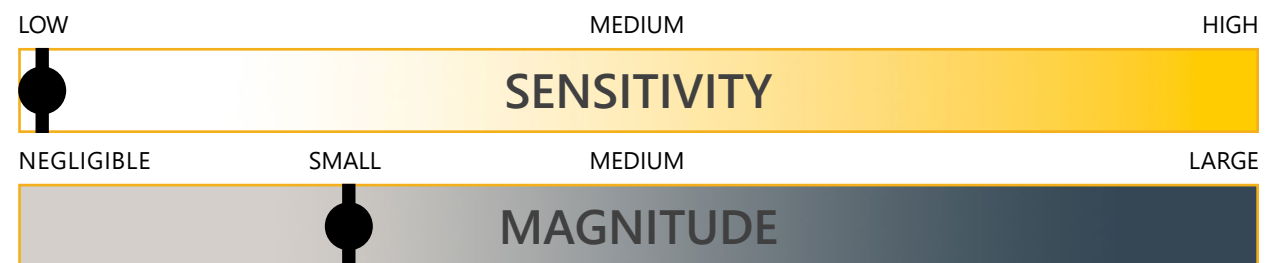


Existing Landscape/ Seascape Character Description:

The Commercial Strip Development character area includes commercial development located along Barnegat Road which is a very wide boulevard. The commercial development is bordered on all sides by dense residential development. The architecture is defined by modern, unadorned strip or stand-alone big-box building stock, on-site parking, and circulation patterns favoring vehicular modes of transportation. Businesses include retail, restaurants, convenience stores, automobile dealerships, shopping centers, malls, and office buildings. The foreground and middle ground views appear cluttered with large, colorful signage and utility corridors along the road. The KOP is surrounded by a vehicular-centric landscape and is surrounded by asphalt, grass median, detention basins, overhead utilities, and large buildings, parking lots, and signage. The Commercial Strip Development corridor is typical of most and includes large, big-box stores setback from the main road with large sweeping entrances designed to funnel cars into the large asphalt parking areas. Large stands of forested, undeveloped land occur sporadically and separate the nearby residential neighborhoods. Landscape vegetation here is fairly well established, providing some softening of the overwhelming visual clutter.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|---|
| Susceptibility | Low | Commercial strip developments are subject to constant change and evolution. With big-box stores becoming out of fashion in communities across the US. While they may be susceptible to change, the change is likely to be an improvement. |
| Value | Low | While the representative viewers are likely to be local residents, this utilitarian corridor is a means to have minimal engagement with the visual environment in favor of the retail experience. |
| Sensitivity Rating | Low | The area does not have scenic integrity and little thought is given to the visual environment. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Small | The size and scale contrast is minimal due to the conflicting focal points across the entire view. Due to the presence of vegetation, the turbine nacelle is partially obscured, leaving a portion of the rotor visible above the treetops. |
| Geographic Extent | Small | The Project would occupy approximately 1.0 percent or 1.3 degrees of the 124 degree human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Small | Given the minimal visibility and the numerous visual distractions, the magnitude is small. Casual observers may notice the WTGs, but the scale, line, form, and color contrast will not draw viewer attention. |

Project Contrast:

Only three (summer) or four (winter) WTGs would be visible from this location during clear viewing conditions, as viewed down this cluttered strip of road. The most likely contrast will result from motion of the WTG rotors which may result in moderate contrast with the vegetation and landform. However, line, form, and color contrasts will not compete with the multitude of visual distractions that exist in this view.

Overall Impact
Minor



Existing Conditions

Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: ST02 Barnegat Road
Attachment E: Photosimulations: Page 72 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



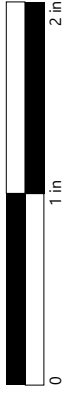
Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: ST02 Barnegat Road

Attachment E: Photosimulations: Page 73 of 289

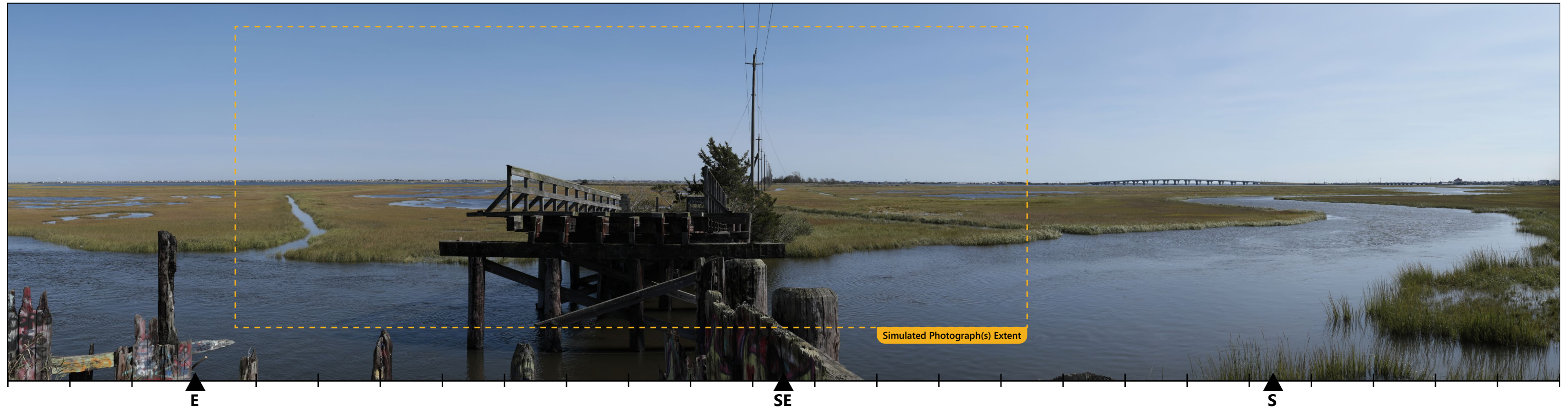
Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



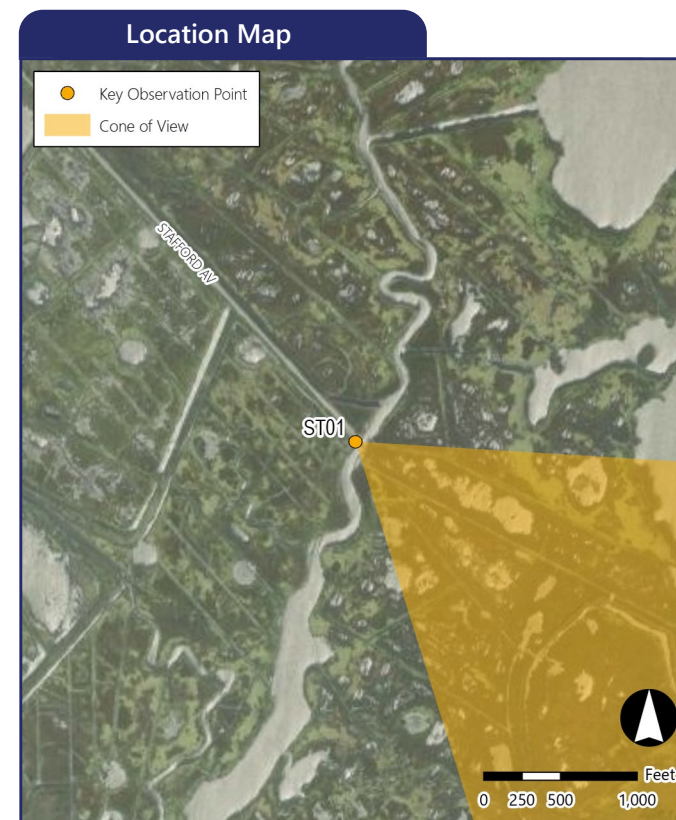
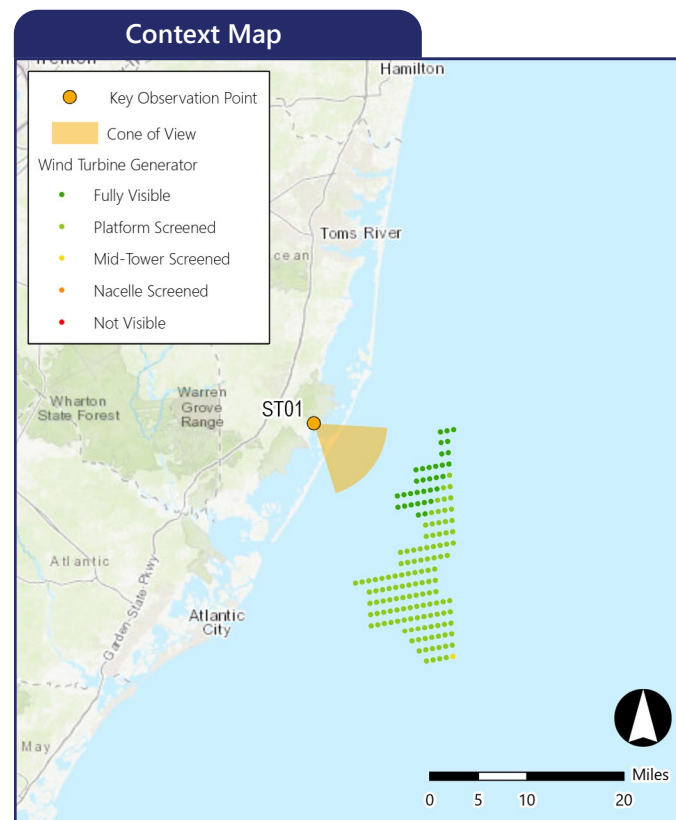
This scale is designed to insure the simulation images are printed at the intended size.

ST01 Manahawkin Wildlife Management Area

Stafford Township, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from Manahawkin Wildlife Management Area, panning clockwise from east (left) to south (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.68394° N, 74.20768° W
 Character Area: Salt Marsh (LCA)
 User Group: L. Residents
 Direction of View: Southeast
 Distance to Nearest Visible Turbine: 11.4 miles
 Sensitive Resource: Edwin B. Forsythe NWR, New Jersey
 Coastal Heritage Trail Area, Manahawkin Bottomland Hardwood Forest, Manahawkin Wildlife Management Area

Environmental Information

Date Taken: 09/22/2020
 Time: 2:43 PM
 Temperature: 71°F
 Humidity: 30%
 Visibility: 10 miles
 Wind Direction: West-northwest
 Wind Speed: 15 mph
 Conditions Observed: Fair

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 14.1 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



ST01 Manahawkin Wildlife Management Area

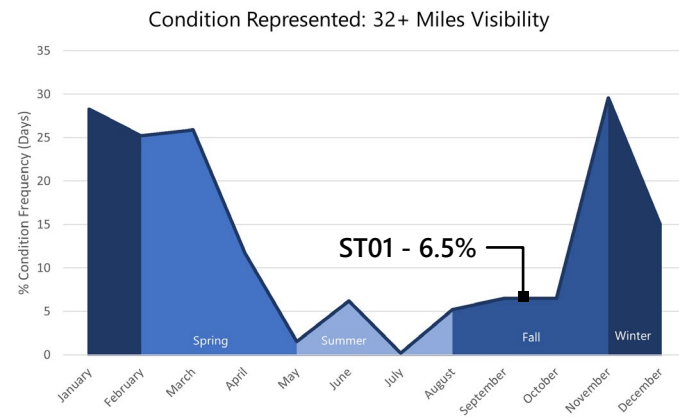
Stafford Township, Ocean County, New Jersey

KOP Information

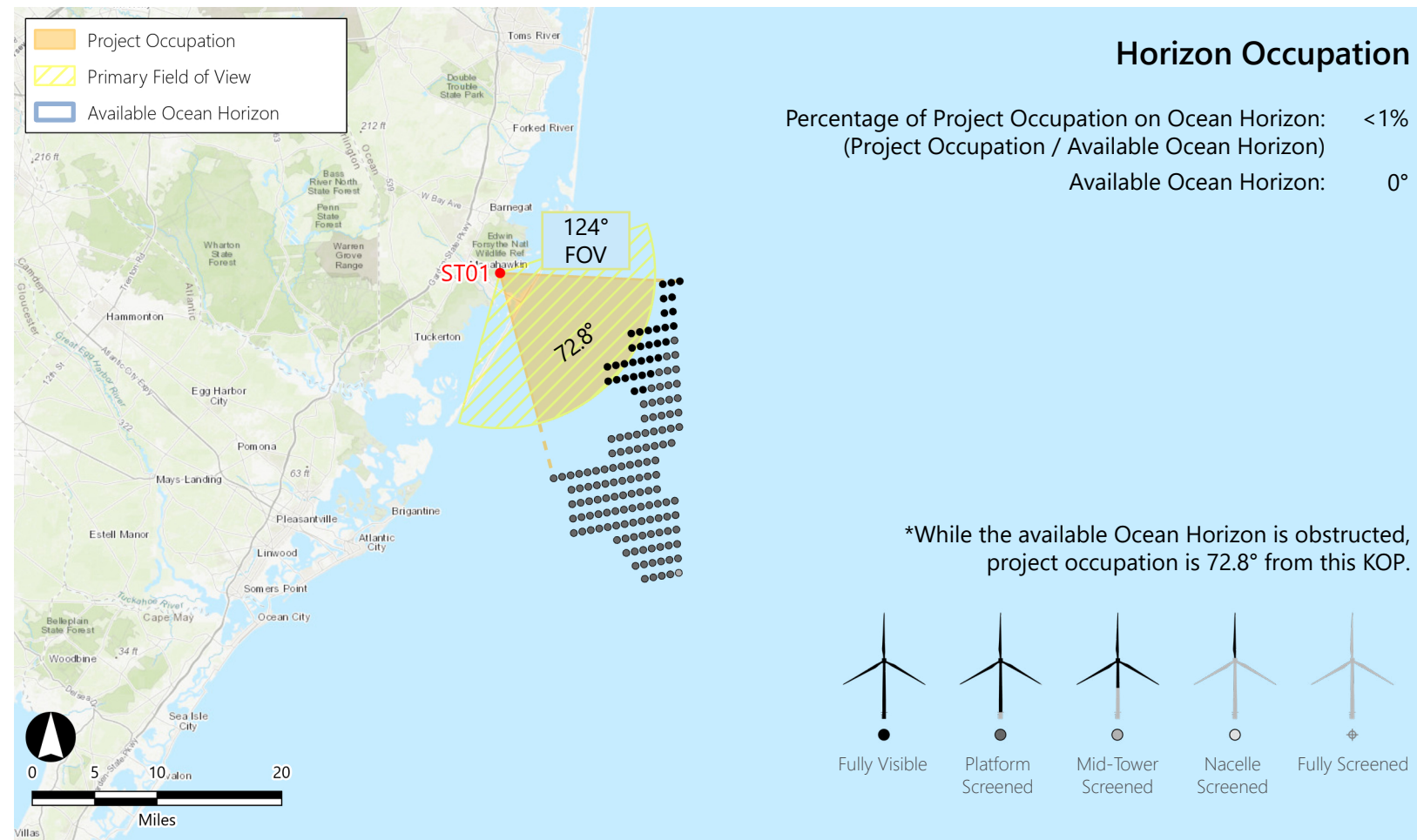
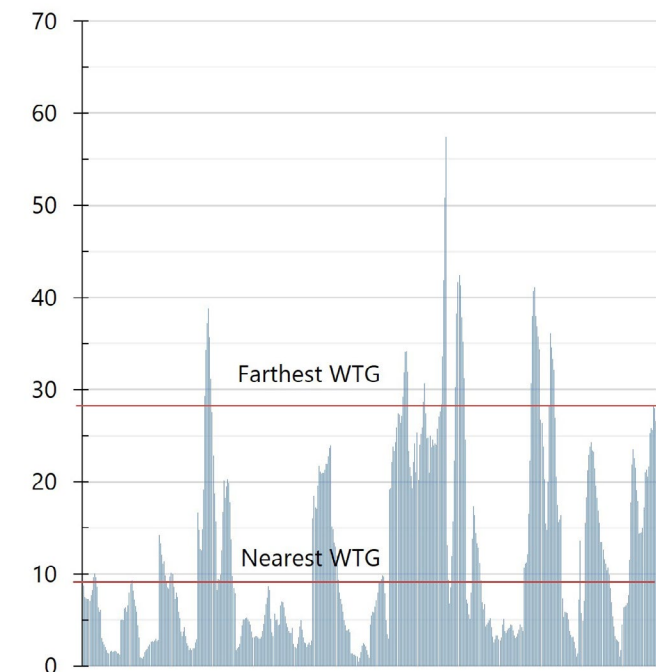
Primary Field of View: Southeast
 Distance to Closest WTG: 11.4 miles
 Camera Height: 14.1 feet
 User Groups: L. Residents, Tourists, S.Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.

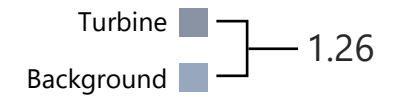


September, 2019 - Hourly Visibility Distance



WTG Color Contrast

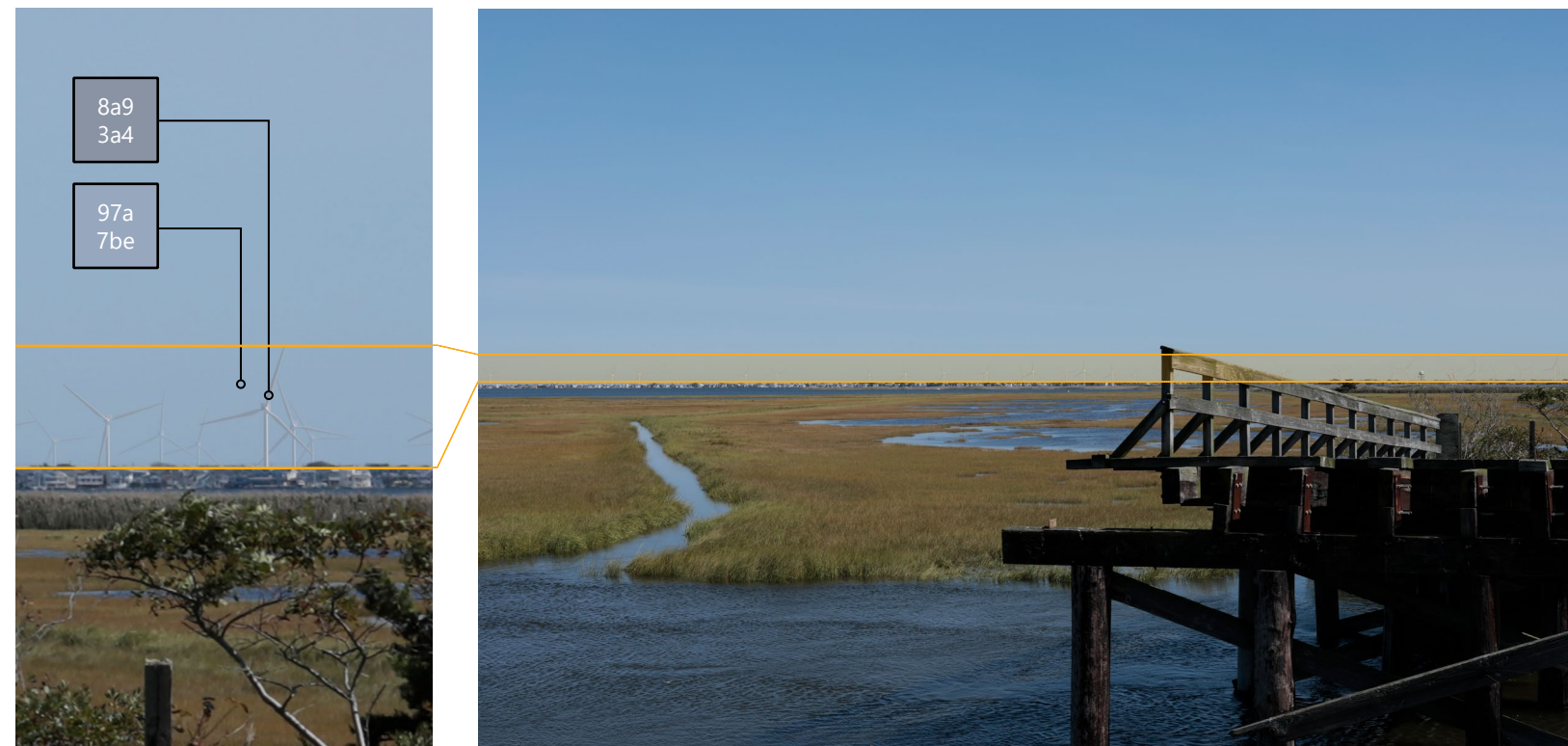
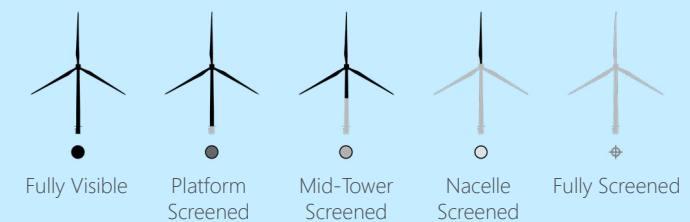
Color Contrast Rating:



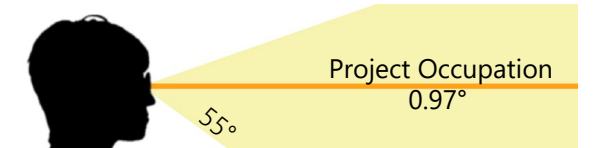
Lighting Condition: Side lit
 Season: Fall
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

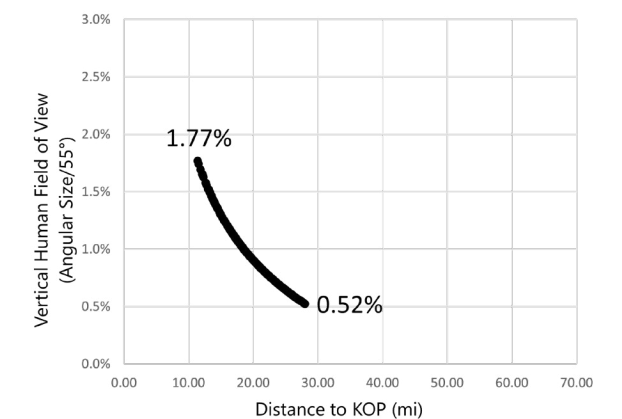
KOP TB02 Illustrates the project from 14.03 miles in the front lit condition. This provides an indication of how the turbines may appear from this KOP during afternoon conditions.



Vertical Occupation



Percentage of Human FOV: 1.77% (0.97 / 55°)
 (Considering the nearest visible turbine)



ST01 Manahawkin Wildlife Management Area

Stafford Township, Ocean County, New Jersey

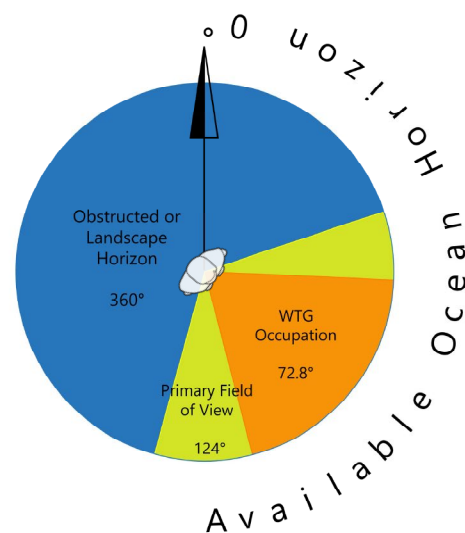
KOP Information

| | |
|---|--------------------------------|
| Primary Field of View/Simulation Direction: | Southeast/SE |
| Distance to Closest WTG: | 14.1 miles |
| Camera Height: | 11.4 ft |
| User Groups: | L. Residents |
| Horizon Occupation (% HFOV): | Large (72.8°, 59%) |
| Vertical Occupation: | Small Med Large (0.97°, 1.77%) |
| Character Area Type: | Landscape |
| Character Area: | Salt Marsh |

Existing View



Field of View



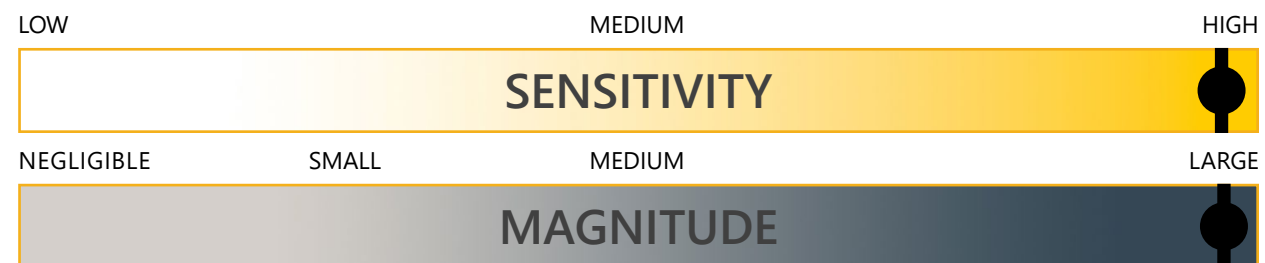
Existing Landscape/ Seascape Character Description:

The Manahawkin WMA is representative of the Salt Marsh LCA. The site is accessed via a long, forested road that opens to the massive salt marsh which the road traverses for about a mile. The area can be characterized by an open, spacious landscape with intermittent areas of open water and salt marsh grasses which give the landscape a greenish yellow hue. While the viewers are surrounded by this large landscape with extensive views, the inland residential development and barrier island development are very visible and apparent features. Nonetheless, the sheer size of this landscape makes those features a distinct, but distant part of the background.

The combination of built and natural features in this view provides an interesting glimpse of a historic (and first) thoroughfare through the marsh and over the bay to Long Beach Island. The patchwork of Salt Marsh and open water makes for interesting patterns followed by a vast expanse of open water. A new elevated bridge is also visible to the south and the bay appears to extend out to the horizon beyond the new elevated bridge.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | Medium | Although not within the seascape, the inland bay is an important aspect of the viewing experience. Susceptibility is medium due to the potential for significant visual changes in the landscape due to development pressure, infrastructure corridors, and light pollution from the intensely developed barrier island. |
| Value | High | Not a well-known location or destination, but representative of the larger WMA which has conservation and preservation protection laws. The protection of natural habitat and ecology, while not specifically a scenic protection, scenic integrity will likely remain the outcome. |
| Sensitivity Rating | High | Despite low visitation, lack of amenities and media coverage, the sensitivity is high due to state and national designations. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Large | With 1.77% or 0.97 degrees of the vertical horizon theoretically occupied, the size and scale of the WTGS will be large. The Visual Prominence Rating is a 5 which suggests the WTGS "Strongly attract[s] visual attention. Prominent." |
| Geographic Extent | Large | Although the WTGS are not completely visible across the full 72.8 degree of horizon, portions of them would still occupy approximately 59% of the human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | The large scale and geographic extent results in a large magnitude rating. |

Project Contrast:

During clear viewing conditions, the Project presents strong form and color contrast with landform, inland water, and structures. Line contrast is also strong against the inland water component. Motion is also likely to produce a degree of strong contrast, particularly when the rotor are bisected by build element on the barrier island. Generally, during clear viewing conditions, the Project will result in strong contrast with the existing landscape element. However, it is not anticipated that the night lighting will result in a strong contrast. From this location, the degree of existing light pollution will be excessive and because of the relative position of the WTG lights, other land based lights will be difficult to distinguish from the WTG lights.

Overall Impact
Major

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: ST01 Manahawkin Wildlife Management Area
Attachment E: Photosimulations; Page 77 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: ST01 Manahawkin Wildlife Management Area
Attachment E: Photosimulations; Page 78 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: ST01 Manahawkin Wildlife Management Area
Attachment E: Photosimulations; Page 80 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



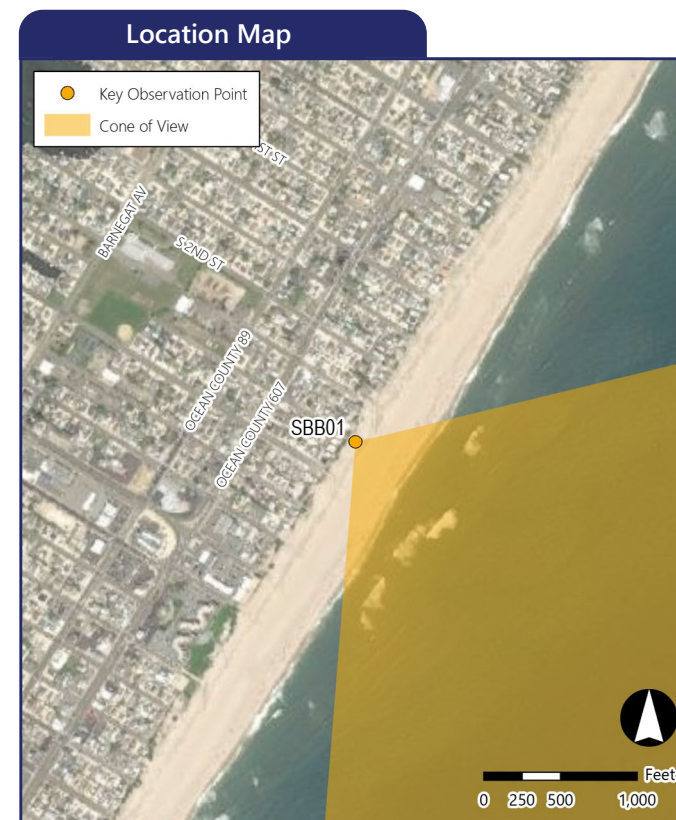
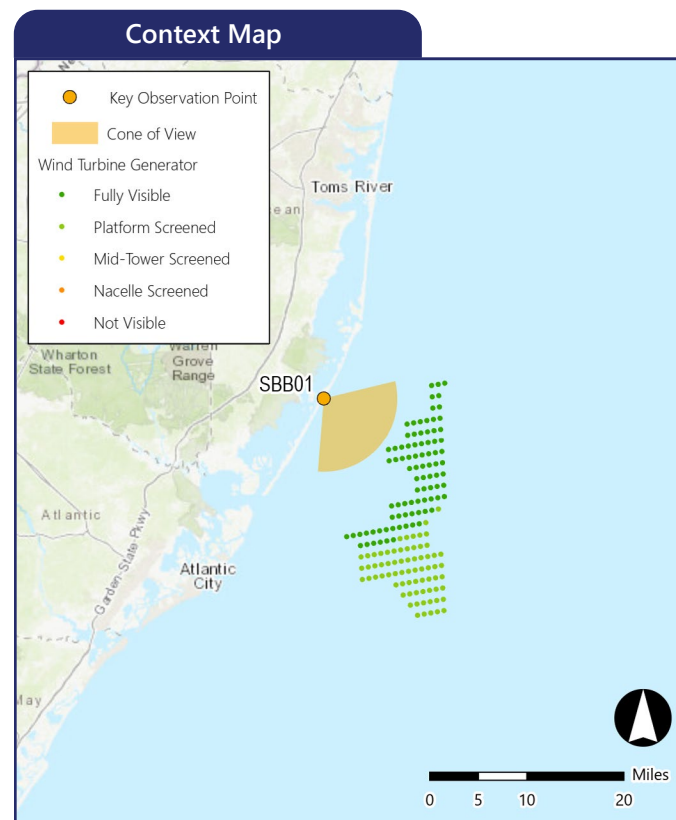
This scale is designed to insure the simulation images are printed at the intended size.

SBB01 Ship Bottom Borough Municipal Beach

Ship Bottom Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Ship Bottom Borough Municipal Beach, panning clockwise from northeast (left) to south (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.65152°N, 74.17169°W
 Character Area: Residential Beachfront, Seascape (SCA)
 User Group: L. Residents, Tourists, S. Residents
 Direction of View: Southeast
 Distance to Nearest Visible Turbine: 8.5 miles
 Sensitive Resource: Ship Bottom Borough Municipal Beach, New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 09/22/2020
 Time: 3:45 PM
 Temperature: 72°F
 Humidity: 33%
 Visibility: 10 miles
 Wind Direction: West-northwest
 Wind Speed: 12 mph
 Conditions Observed: Clear

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 24.0 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



SBB01 Ship Bottom Borough Municipal Beach

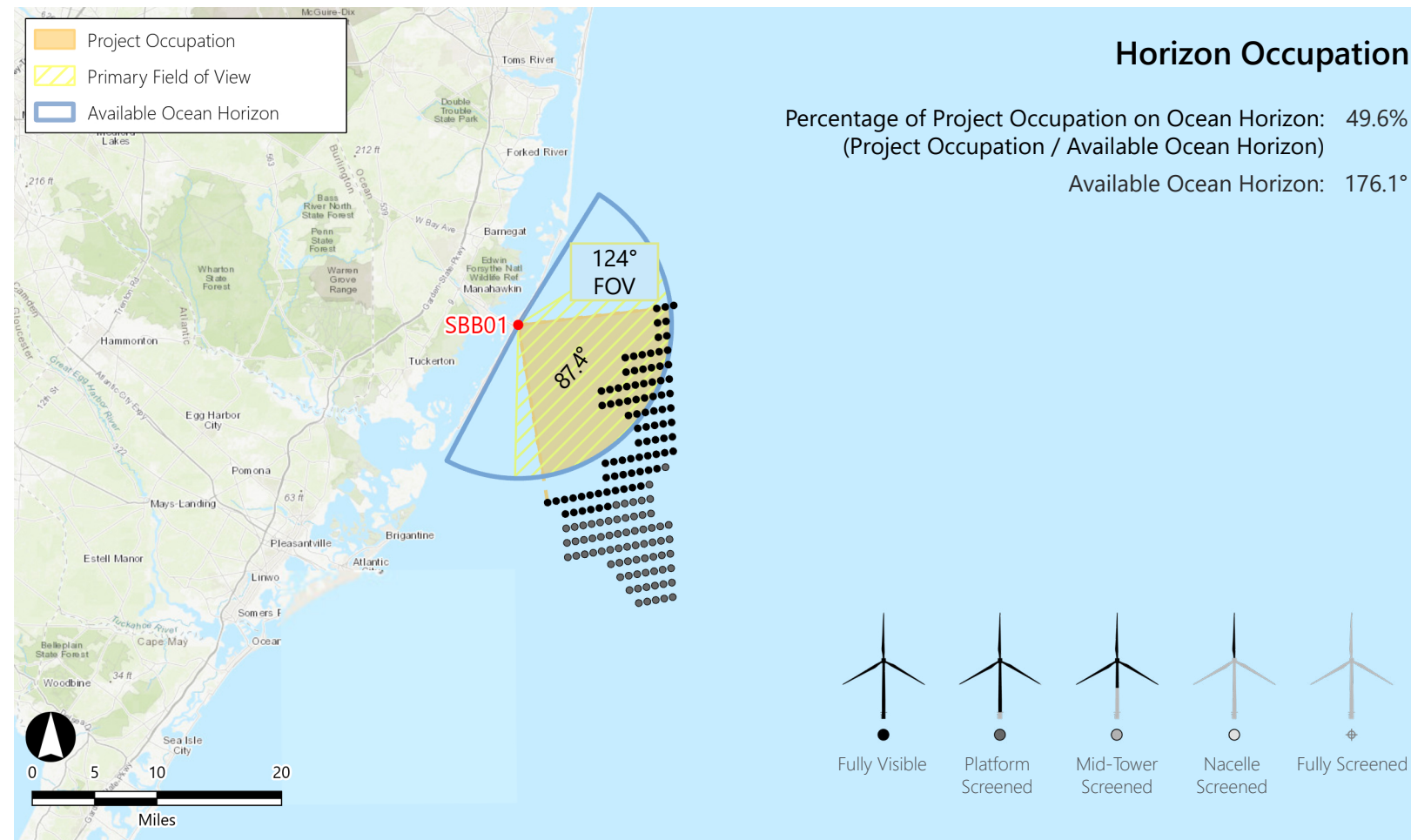
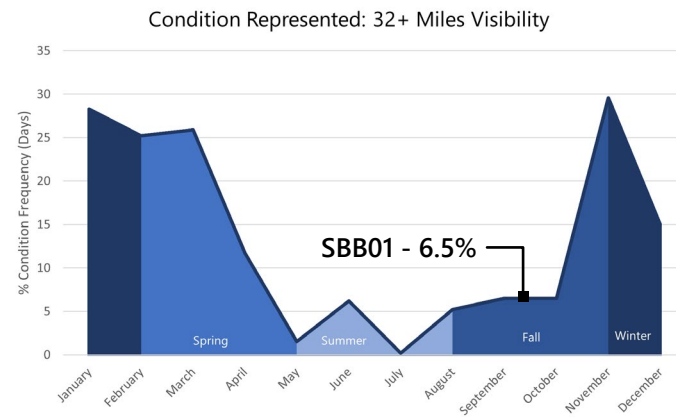
Ship Bottom Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East
 Distance to Closest WTG: 8.5 miles
 Camera Height: 24.0 feet
 User Groups: L. Residents, Tourists, S.Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

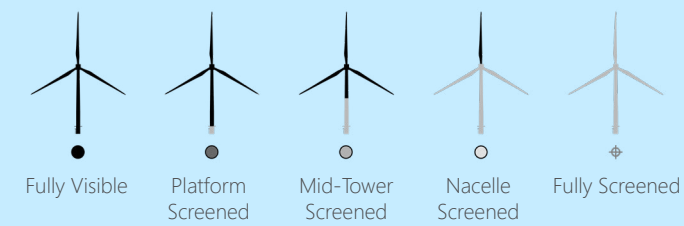
Color Contrast Rating:

Turbine: 1.49
 Background

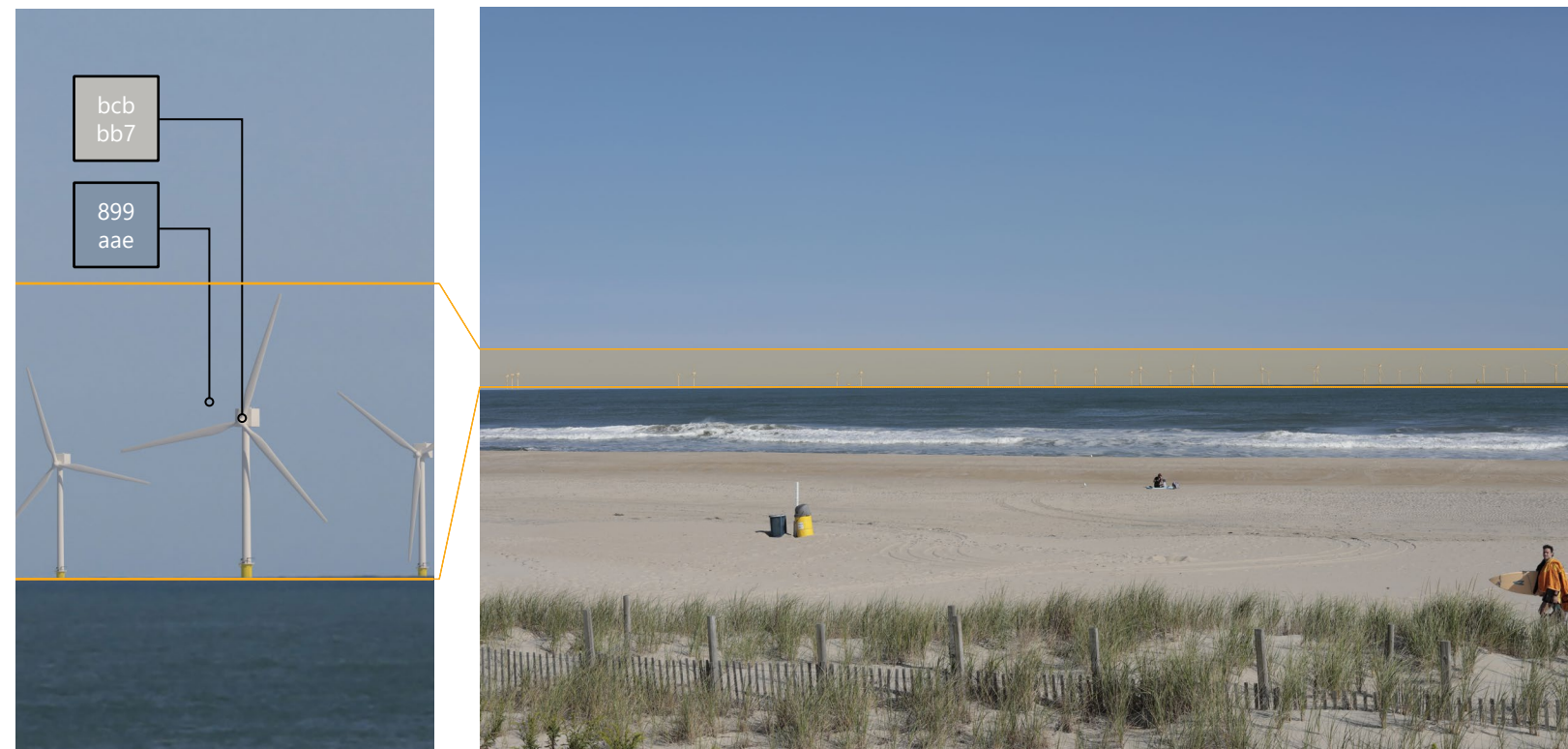
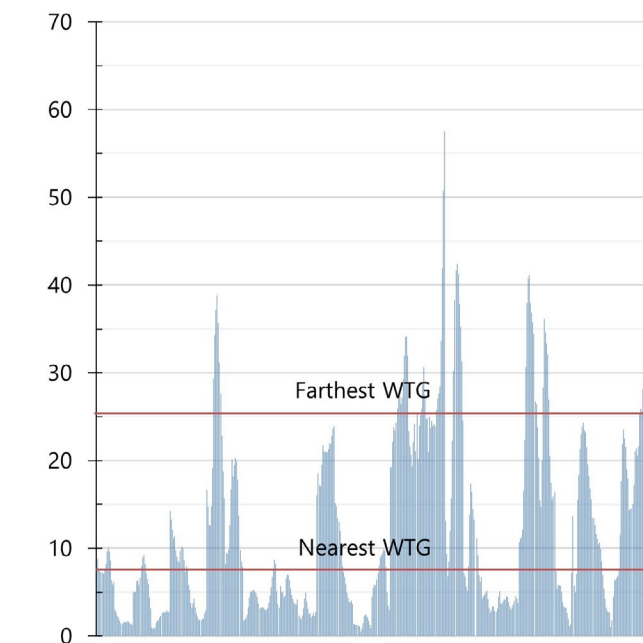
Lighting Condition: Side lit
 Season: Fall
 Sky Condition: Clear
 Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

KOP LBT03 Illustrates the project from 9.35 miles in the side lit condition. This provides an indication of how the turbines may appear from this KOP during evening conditions.



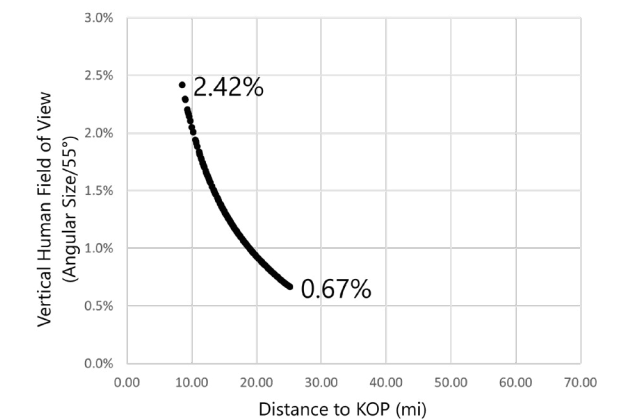
September, 2019 - Hourly Visibility Distance



Vertical Occupation

Project Occupation: 1.33°
 55°

Percentage of Human FOV: 2.42% (1.33° / 55°)
 (Considering the nearest visible turbine)



SBB01 Ship Bottom Borough Municipal Beach

Ship Bottom Borough, Ocean County, New Jersey

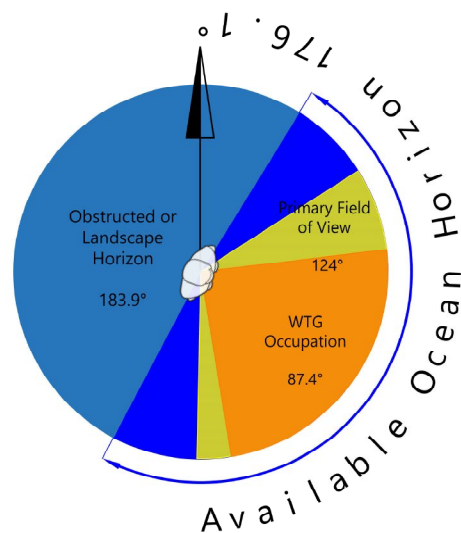
KOP Information

Primary Field of View/Simulation Direction: Southeast/SE
 Distance to Closest WTG: 8.5 miles
 Camera Height: 24 ft
 User Groups: L. Residents, Tourists, S.Residents
 Horizon Occupation (% HFOV): Large (87.4°, 70.5%)
 Vertical Occupation: Large (1.33°, 2.42%)
 Character Area Type: Seascape
 Character Area: Residential Beachfront

Existing View



Field of View

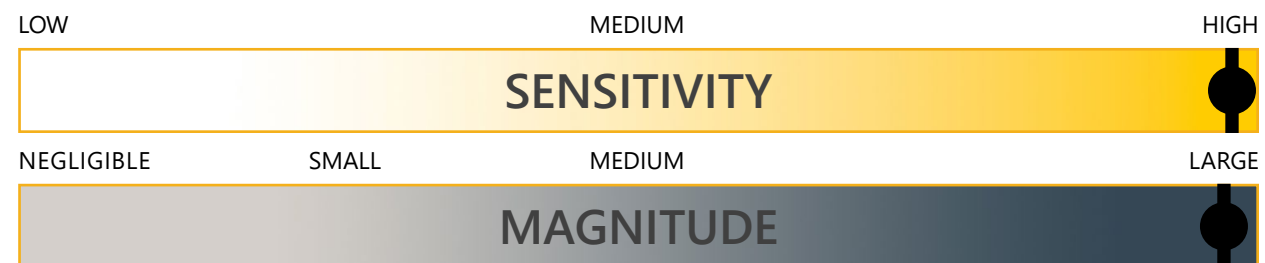


Existing Landscape/ Seascape Character Description:

This view is from Ship Bottom Borough Municipal Beach in Borough of Ship Bottom, New Jersey. The beach is representative of the Residential Beachfront seascape character area and is a popular swimming and sunbathing destination on Long Beach Island. In-season access requires a beach badge, and lifeguard and beach patrol services are provided. A continuous line of seasonal and year-round residences lines the beach on its landward side. This KOP represents one of many beach access paths that extend from streets dead ending at the shoreline. Residential homes and vacation rentals are tightly situated on the west side of the dunes. Further inland, a mix of residential and small commercial business flank both sides of Long Beach Boulevard. Large, engineered dunes separate the residences from the beach. The dunes were constructed some time ago because they show signs of established grass growth and wear from the surf and wind. The beach is wide and imperceptibly slopes down toward the surf line. Homes are partially obscured by the dunes, but some are very tall and modern, which contrasts with the natural environment. This area presents a dynamic coastal environment.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | High | Representative of views experienced by full time and seasonal residents/business owners, tourists, and recreationalists. Views of the ocean are important to these visitors. |
| Value | High | Despite the lack of accommodation for the visiting public, this location is highly valued as a vacation destination and for those that own nearby homes. |
| Sensitivity Rating | High | Highly valued and susceptible landscape, resulting in high sensitivity. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|--|
| Size and Scale | Large | The WTGs occupy a maximum of 1.33 degrees which accounts for 2.42 percent of the vertical human field of view. The visual prominence rating is 6. |
| Geographic Extent | Large | The horizon occupation of the WTGs in within the primary viewing direction and would occupy 87.4 degrees or 70.5% of the 124 degree human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | The size, scale, geographic extent, duration, and reversibility result in a large magnitude rating. |

Project Contrast:

During clear viewing conditions, the Project presents strong line and form contrasts with the ocean. At times, particularly during the morning, color contrast will also be strong. Motion and lighting will draw viewer attention strongly during high visibility conditions. The WTGs will not contrast significantly with the existing homes in the view because they are on separate viewing planes, but motion could attract attention away from the structures.

Overall Impact
Major

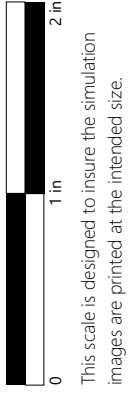
Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SBB01 - Ship Bottom Borough Municipal Beach
Attachment E: Photosimulations, Page 84 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SBB01 – Ship Bottom Borough Municipal Beach
Attachment E: Photosimulations, Page 85 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SBB01 - Ship Bottom Borough Municipal Beach
Attachment E: Photosimulations, Page 86 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



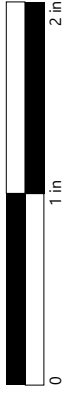
Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: SBB01 – Ship Bottom Borough Municipal Beach

Attachment E: Photosimulations, Page 87 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SBB01 - Ship Bottom Borough Municipal Beach
Attachment E: Photosimulations, Page 88 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: SBB01 - Ship Bottom Borough Municipal Beach
Attachment E: Photosimulations: Page 89 of 289

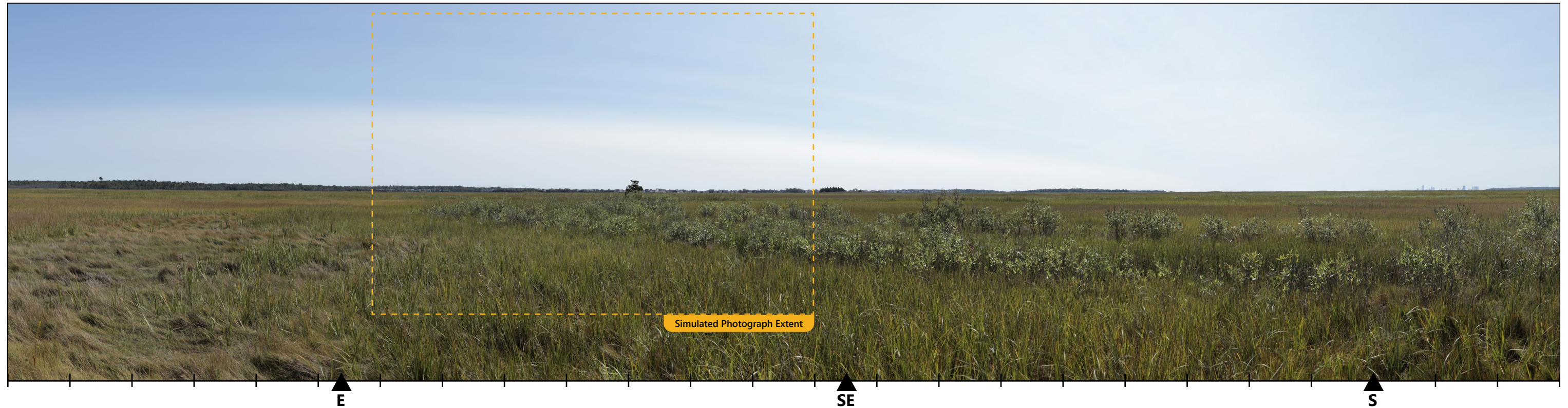
Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



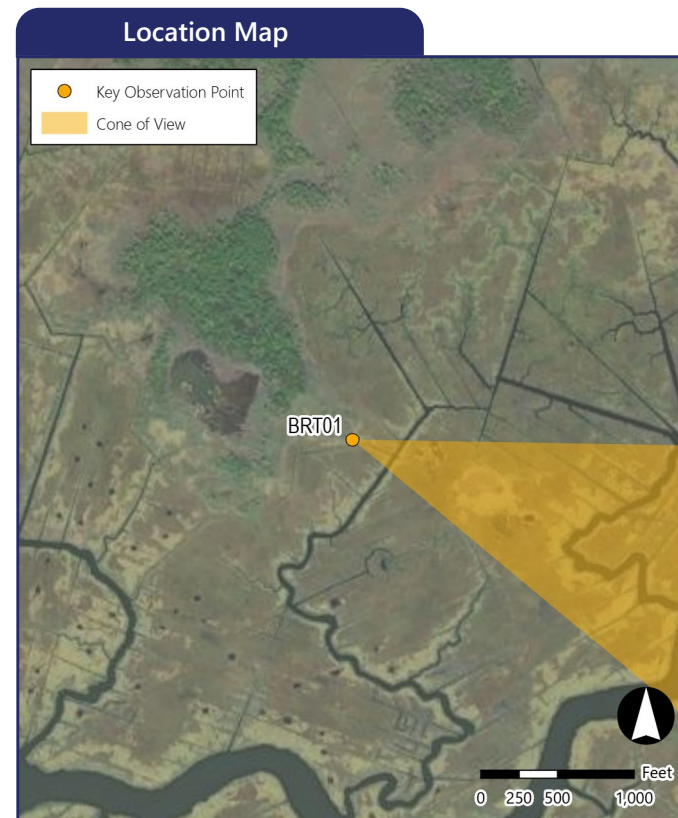
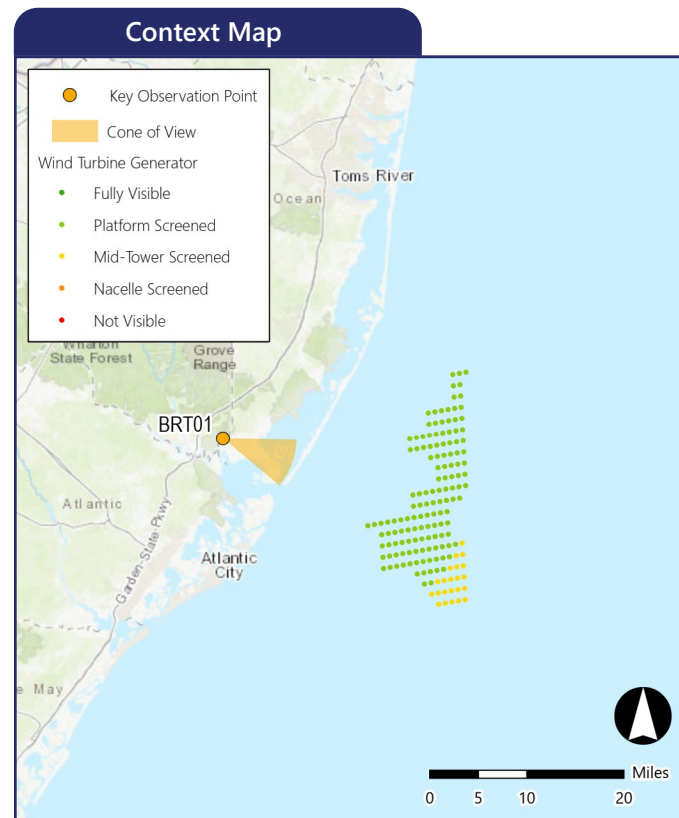
This scale is designed to insure the simulation images are printed at the intended size.

BRT01 Bass River State Forest

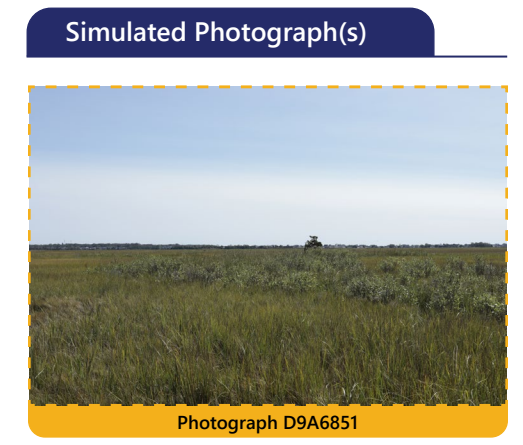
Bass River Township, Burlington County, New Jersey



The image above is a +/- 124° panorama photograph from Bass River State Forest, panning clockwise from northeast (left) to south (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



| Simulation Information | |
|---|---|
| Coordinates: | 39.57672°N, 74.40830°W |
| Character Area: | Salt Marsh (LCA) |
| User Group: | L. Residents, Tourists, S. Residents |
| Direction of View: | East-Southeast |
| Distance to Nearest Visible Turbine: | 17.4 miles |
| Sensitive Resource: | Edwin B. Forsythe NWR, Bass River State Forest, Bass River State Forest Historic District |
| Environmental Information | |
| Date Taken: | 09/22/2020 |
| Time: | 11:37 AM |
| Temperature: | 68°F |
| Humidity: | 32% |
| Visibility: | 10 miles |
| Wind Direction: | North-Northwest |
| Wind Speed: | 13 mph |
| Conditions Observed: | Fair |
| Photograph Information | |
| Camera: | Canon EOS 5D Mark IV |
| Resolution: | 30.4 Megapixels |
| Focal Length: | 50mm |
| Camera Height: | 6.9 feet AMSL |
| Notes | |
| Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches. | |



BRT01 Bass River State Forest

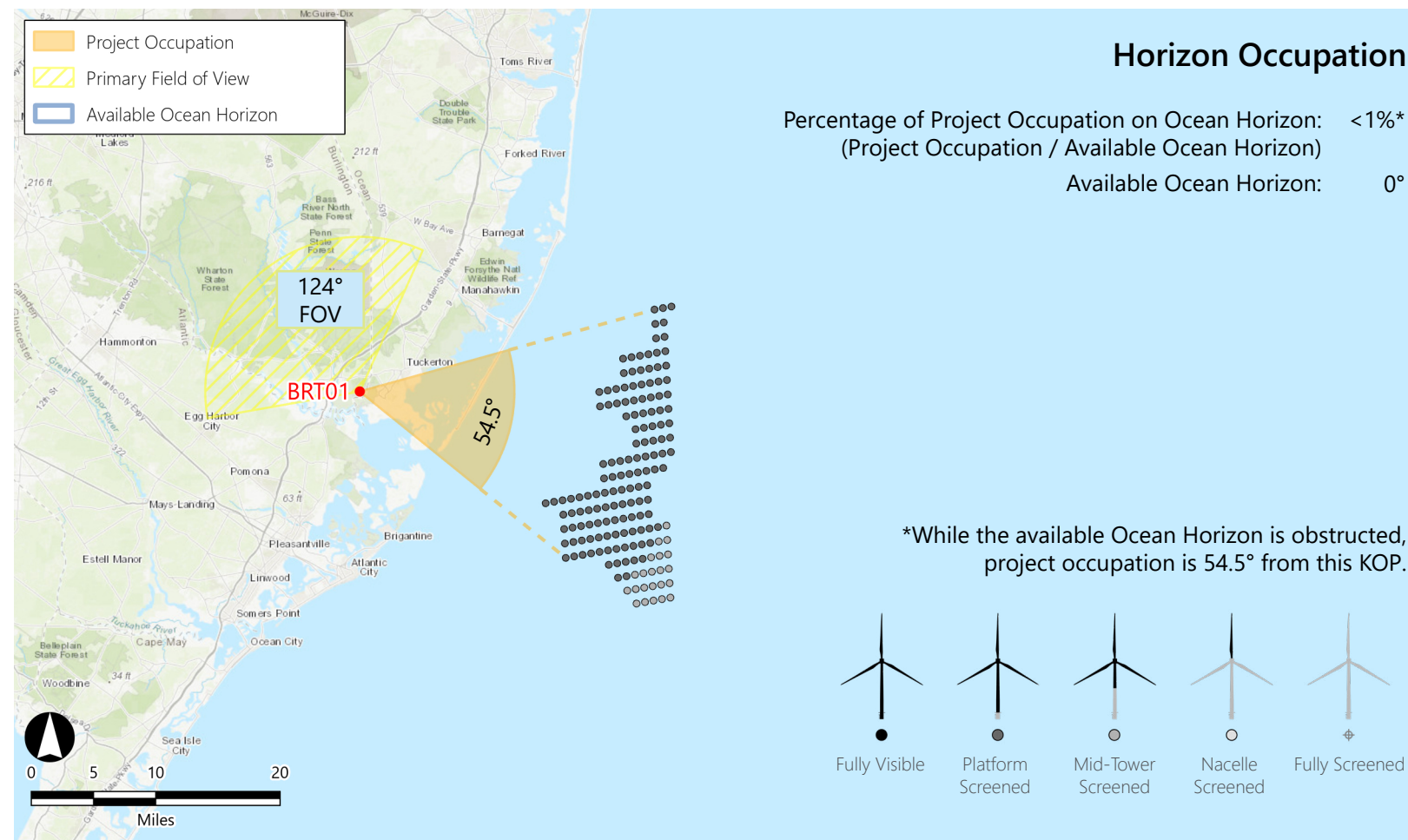
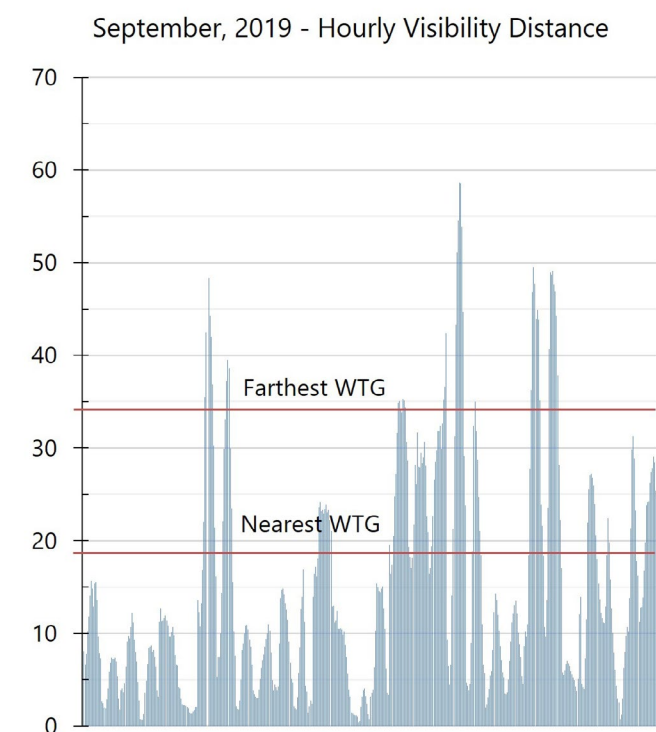
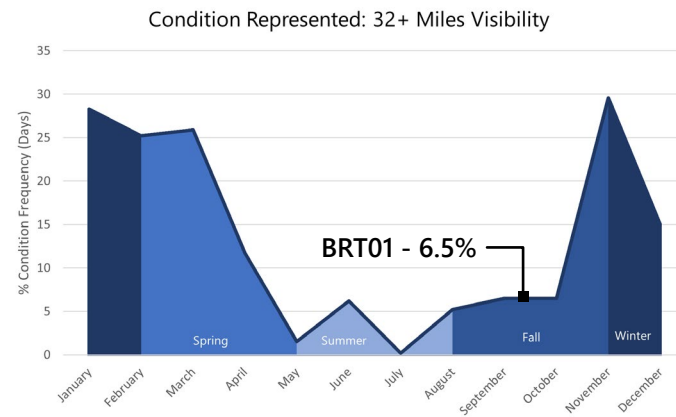
Bass River Township, Burlington County, New Jersey

KOP Information

Primary Field of View: Northwest
 Distance to Closest WTG: 17.4 miles
 Camera Height: 6.9 feet
 User Groups: L. Residents, Tourists, S.Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

Color Contrast Rating:

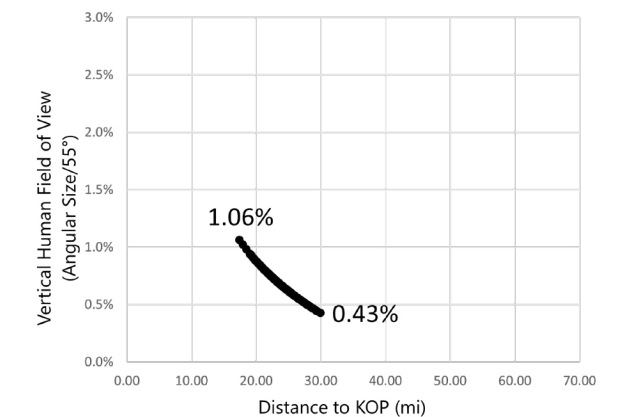
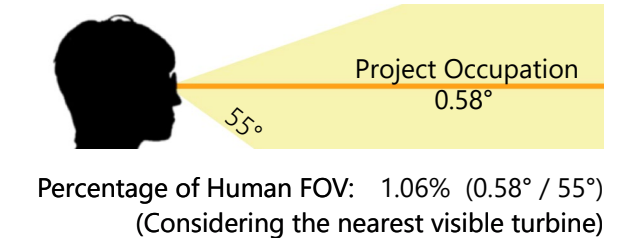
Turbine \square } 1.66
 Background \square }

Lighting Condition: Side lit
 Season: Fall
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

KOP AC02 Illustrates the project from 17.67 miles in the front lit condition. This provides an indication of how the turbines may appear from this KOP during noon conditions.

Vertical Occupation



BRT01 Bass River State Forest

Bass River Township, Burlington County, New Jersey

KOP Information

Primary Field of View/Simulation Direction: Northwest/ESE

Distance to Closest WTG: 17.4 miles

Camera Height: 6.9 ft

User Groups: L. Residents, Tourists, S. Residents

Horizon Occupation (% HFOV): Medium (54.5° 44.0%)

Vertical Occupation: Medium (0.58°, 1.06%)

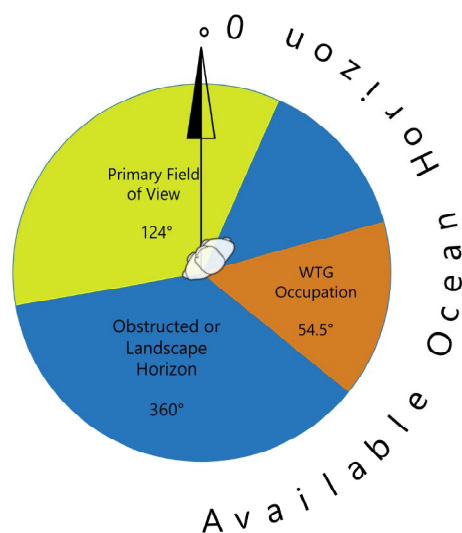
Character Area Type: Landscape

Character Area: Salt Marsh

Existing View



Field of View

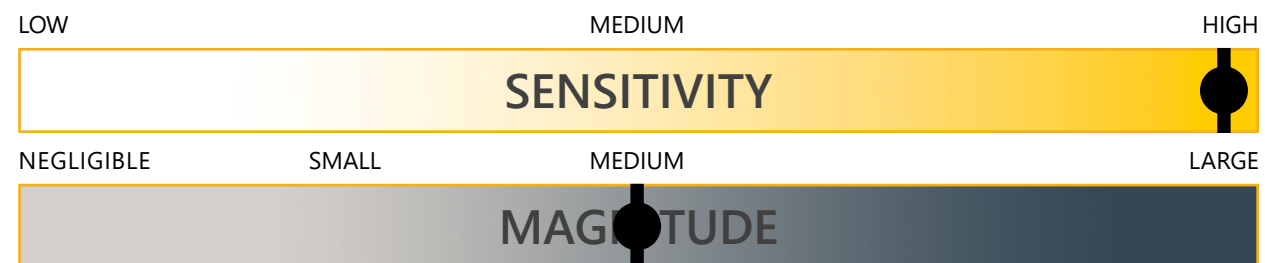


Existing Landscape/ Seascap Character Description:

The Bass River State Forest in Bass River Township, Burlington County, New Jersey is highly representative of a healthy, well-established salt marsh which is void of development or apparent intervention. Despite being advertised in local and DEP publications, the amenities are scant and the trails are not well maintained. At the time of the field visit, the woodland trails were overgrown with blow down blocking the barely visible trail. Signage was non-existent and the parking areas were in a state of disrepair. Aside from that, the forest and salt marsh landscape appears pristine and the pockets of open water, forest canopy, and then open, expansive salt marsh make for a dynamic and interesting landscape. Once out of the forest canopy, the view opens up to a dramatic sight of the dense residential development on the barrier island. While this detracts minimally from the LCA, the landscape is large and can absorb the presence of a conflicting land use.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | High | This area hosts recreationalists that place a high importance on the natural scenery as a part of their experience. |
| Value | High | The area receives moderate visitation and the Bass River State Forest is advertised in social media, local publications and on the NJDEP guide material. |
| Sensitivity Rating | High | Highly valued and susceptible landscape, resulting in high sensitivity. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Medium | While the theoretical vertical occupation is 0.58 degrees and 1.06%, the majority of WTGs are heavily screened by structures and vegetation. As such, only about 6-8 WTG nacelles would be exposed. The visual prominence rating is 3. |
| Geographic Extent | Medium | Again, the theoretical horizon occupation is 54.5 degrees, which is 44% of the human field of view, suggesting a medium geographic extent. However, a number of WTGs are screened from view by vegetation, thus reducing the perceived horizon occupation to small. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Small | Given the visual prominence rating and the small number of hubs, rotors and widest portions of the blades visible, the overall magnitude is small. |

Project Contrast:

During clear viewing conditions, blade rotation will result in the strongest contrasts with structures and vegetation. However, moderate line and form contrasts are likely with these same features as well as landform. Because the Project is not in the primary field of view, it is unlikely that a significant number of people would experience this particular view, but from the trail, motion of the rotors may attract viewer attention.

Overall Impact
Moderate

Existing Conditions



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BRT01 Bass River State Forest
Attachment E: Photosimulations; Page 94 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



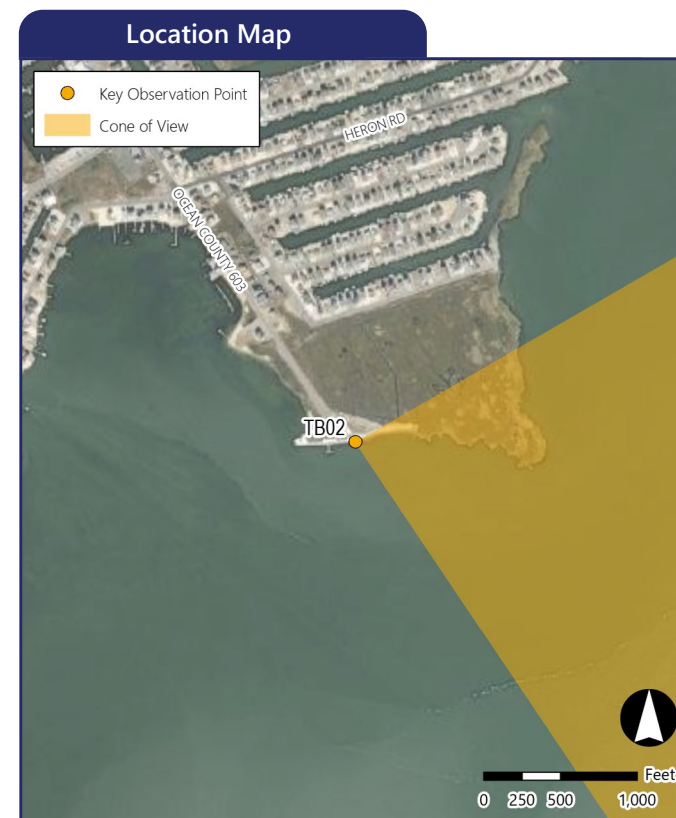
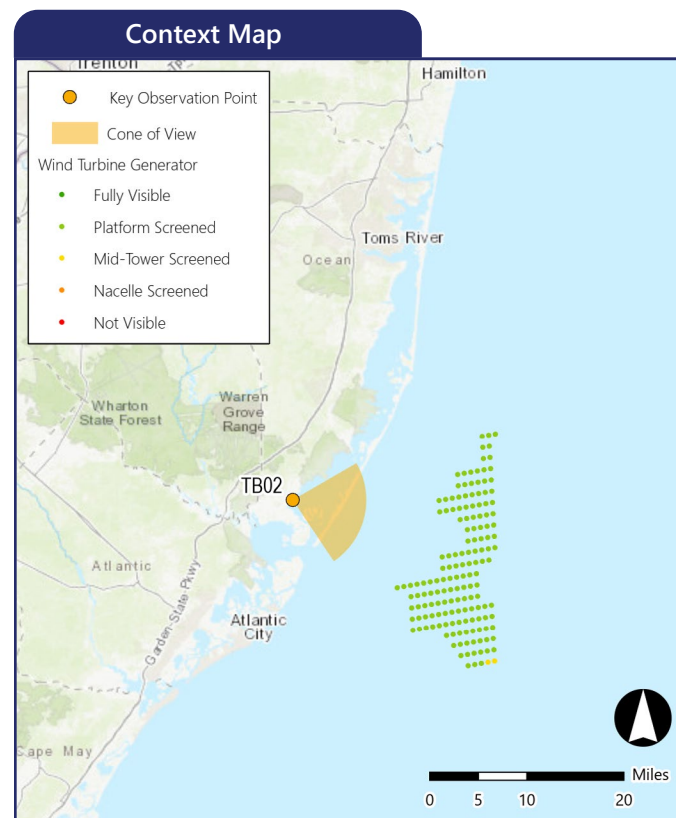
This scale is designed to insure the simulation images are printed at the intended size.

TB02 South Green Street Park

Tuckerton Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the South Green Street Park, panning clockwise from northeast-east (left) to south (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.57661°N, 74.33016°W
 Character Area: Recreation, Seascape (LCA)
 User Group: L. Residents, Tourists, Fishing Comm., S. Residents
 Direction of View: East-southeast
 Distance to Nearest Visible Turbine: 14.0 miles
 Sensitive Resource: Tuckerton Green Street Beach, New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 08/18/2020
 Time: 5:34 PM
 Temperature: 83°F
 Humidity: 49%
 Visibility: 10 miles
 Wind Direction: West-northwest
 Wind Speed: 7 mph
 Conditions Observed: Partly Cloudy

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 5.5 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



TB02 South Green Street Park

Tuckerton Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East

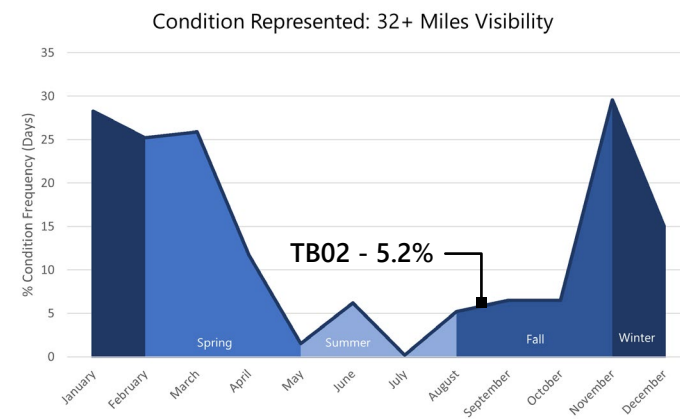
Distance to Closest WTG: 14.0 miles

Camera Height: 5.5 feet

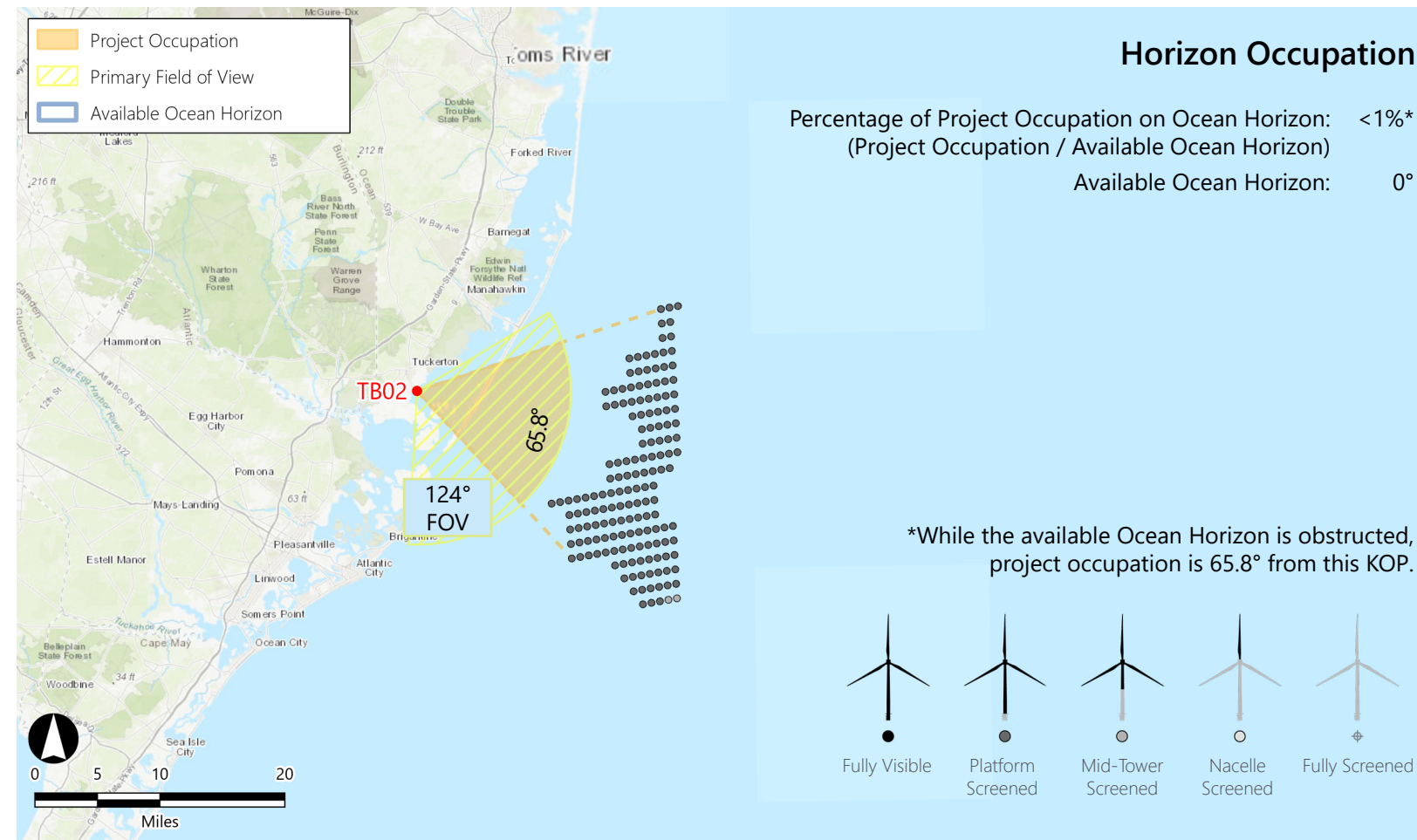
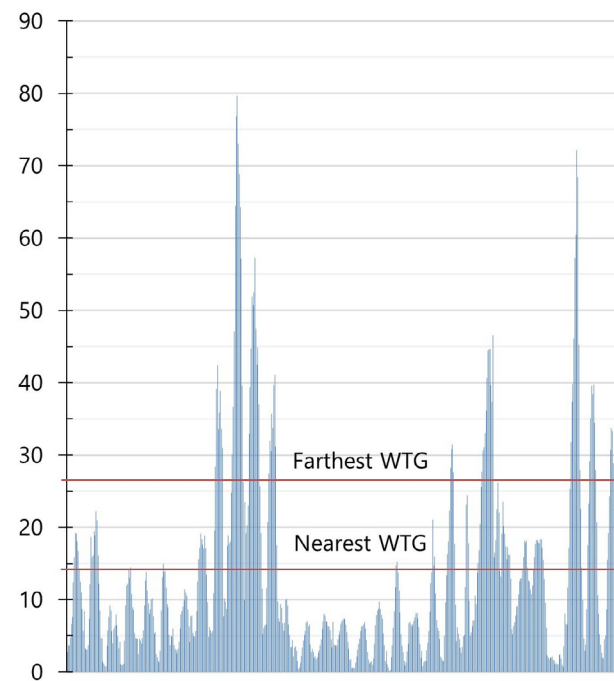
User Groups: L. Residents, Tourists, Fishing Comm., S. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



August, 2019 - Hourly Visibility Distance



WTG Color Contrast

Color Contrast Rating:



Lighting Condition: Front lit

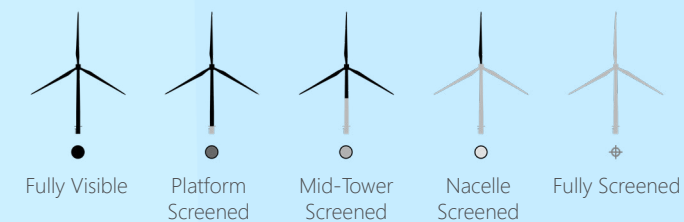
Season: Summer

Sky Condition: Partly Cloudy

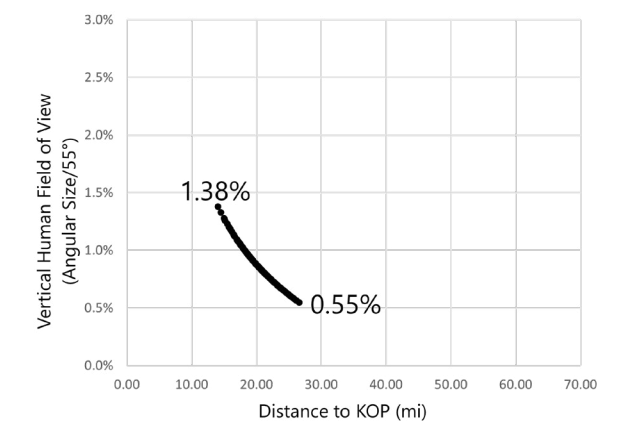
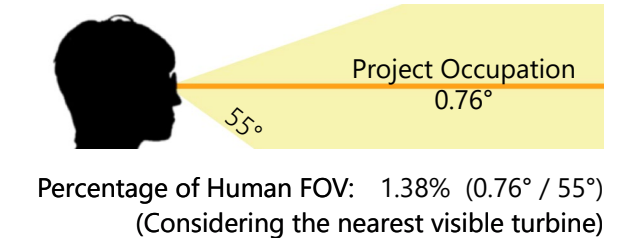
Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

KOP LEHT02 illustrates the project from 11.1 miles in the back lit condition. This provides an indication of how the turbines may appear from this KOP during morning conditions.



Vertical Occupation



TB02 South Green Street Park

Tuckerton Borough, Ocean County, New Jersey

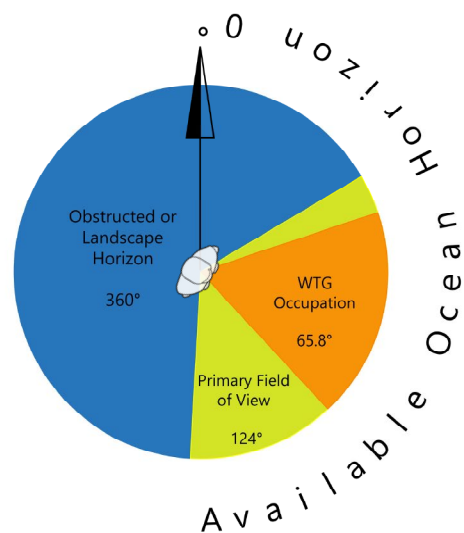
KOP Information

| | |
|---|--|
| Primary Field of View/Simulation Direction: | ESE/ESE |
| Distance to Closest WTG: | 14 miles |
| Camera Height: | 5.5 ft |
| User Groups: | L/S Residents, Tourists, Fishing Comm. |
| Horizon Occupation (% HFOV): | Large (65.8°, 53%) |
| Vertical Occupation: | Medium (0.76°, 1.38%) |
| Character Area Type: | Landscape |
| Character Area: | Recreation |

Existing View



Field of View

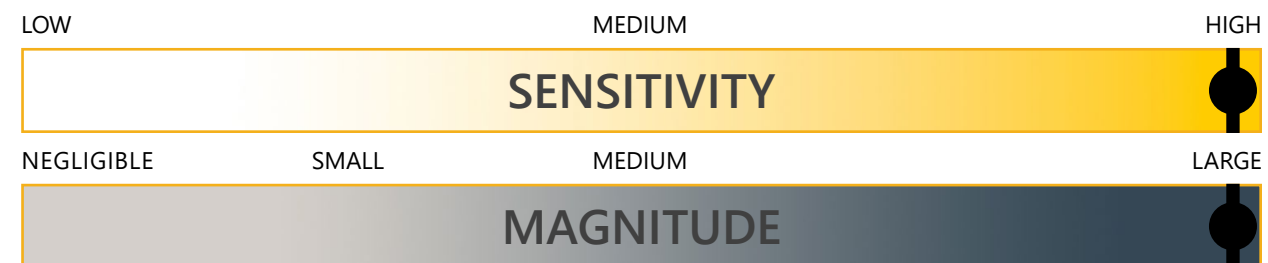


Existing Landscape/ Seascape Character Description:

This KOP is in the Recreation LCA and adjacent to the Dredged Lagoon LCA. The park is accessed via a long road (South Green Street) that extend from a small residential and commercial area, across the salt marsh and then opens to a large paved and gravel (shell) area with parking, a pavilion, bulkhead, playground, and seating areas. Inland views include a large swath of salt marsh backed by dense residential development. To the east, the view includes Little Egg Harbor Bay separated from the ocean by the barrier island of Long Beach Island. The shoreline leading up to the park is covered in detritus from former piers and docks have fallen into disrepair due to abandonment. The view across Little Egg Harbor Bay includes vast open water backed by intense barrier island development occasionally interrupted by forested areas. Water and communication towers along with derelict piles in the bay are the most notable vertical elements in the view. Given the presence of the derelict structures and messy appearance, the views integrity is somewhat compromised. However, open bay and adjoining salt marsh exhibit high scenic quality and integrity.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | High | While there are not any specific historic or cultural aspects to this viewing location, views maybe an important part of the user experience. |
| Value | Medium | Despite low attendance, no designation at the local, state, or federal level, this location is highly valued by the very small number of local residents that use the boat ramp. |
| Sensitivity Rating | High | The sensitivity is high based on susceptibility and value factors. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|--|
| Size and Scale | Medium | The vertical scale is medium, with the nearest WTGs occupying approximately 0.76 degrees or 1.38% of the vertical field of view, resulting in a visual prominence factor of 5. |
| Geographic Extent | Large | The Project would occupy approximately 53 percent or 65.8 degrees of the 124 degree human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | With a large geographic extent and medium (bordering on large) vertical scale, the overall magnitude rating is large. |

Project Contrast:

During clear viewing conditions, the WTG present strong line, form, color, and horizontal scale contrast with the inland bay. Strong color contrast reinforced by rotor motion with the structures on the barrier island. Motion and lighting will also result in strong contrast with landform and vegetation. Generally, the line, form, and color will have moderate contrast with the distant vegetation on the barrier island.

Overall Impact
Major

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: TB02 - South Green Street Park
Attachment E: Photosimulations; Page 98 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: TB02 - South Green Street Park
Attachment E: Photosimulations; Page 99 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: TB02 - South Green Street Park
Attachment E: Photosimulations; Page 100 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: TB02 - South Green Street Park
Attachment E: Photosimulations; Page 101 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



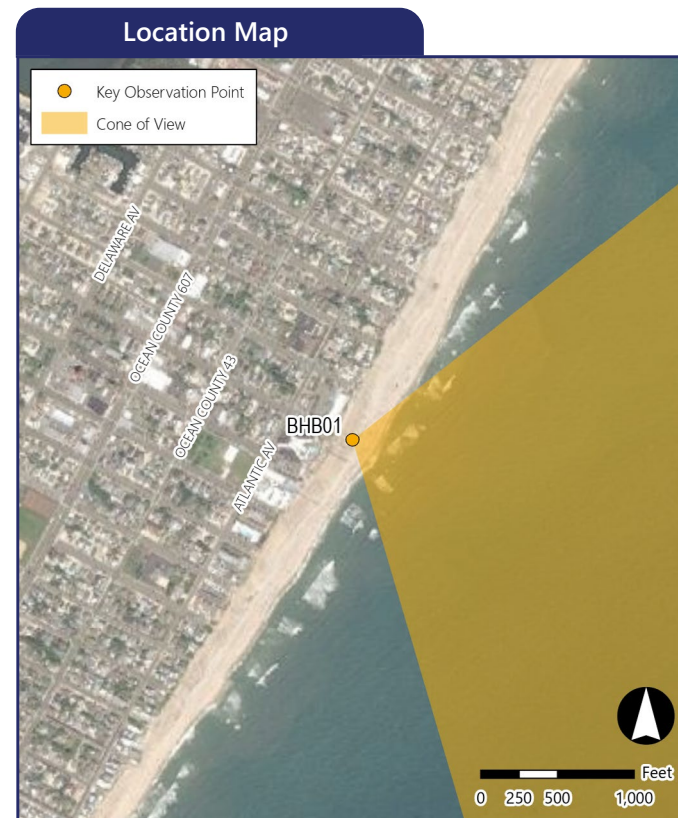
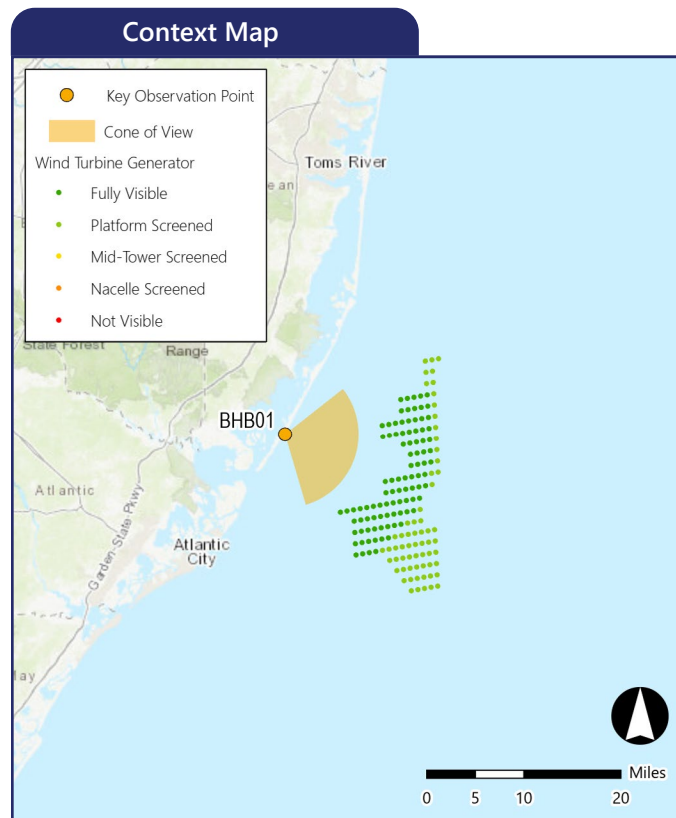
This scale is designed to insure the simulation images are printed at the intended size.

BHB01 Beach Haven Historic District

Beach Haven Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from the Beach Haven Historic District, panning clockwise from northeast (left) to southeast (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.56188°N, 74.23545°W
Character Area: Residential Beachfront, Seascape (SCA)
User Group: L. Residents, Tourists, Fishing Comm., S. Residents
Direction of View: East-southeast
Distance to Nearest Visible Turbine: 9.9 miles
Sensitive Resource: Beach Haven Borough Public Beach, Beach Haven Historic District, New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 08/19/2020
Time: 7:19 AM
Temperature: 73°F
Humidity: 87%
Visibility: 10 miles
Wind Direction: Calm
Wind Speed: 0 mph
Conditions Observed: Cloudy

Photograph Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Focal Length: 50mm
Camera Height: 17.7 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Night time simulations are digitally adjusted from daytime photographs.

Simulated Photograph(s)



BHB01 Beach Haven Historic District

Beach Haven Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East

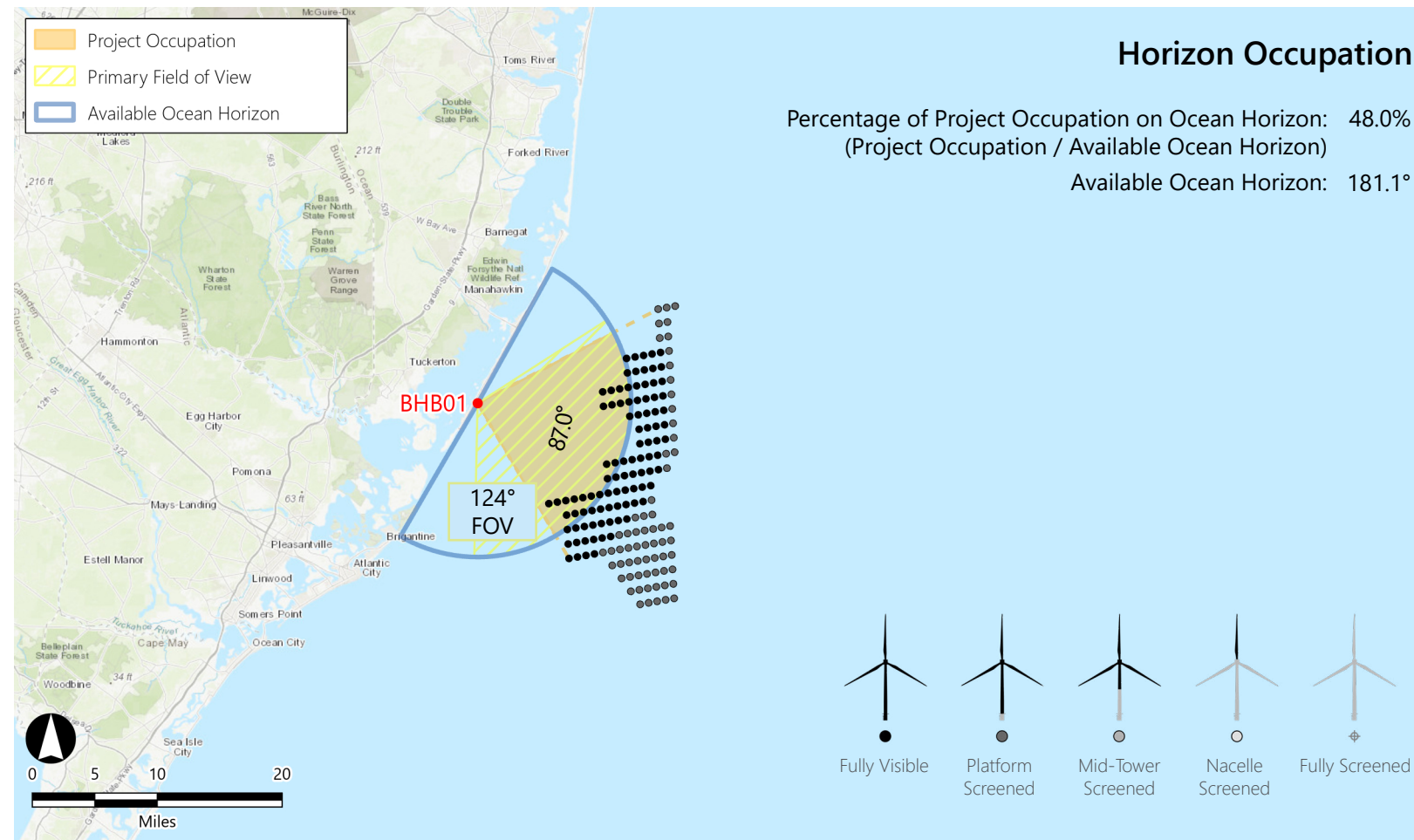
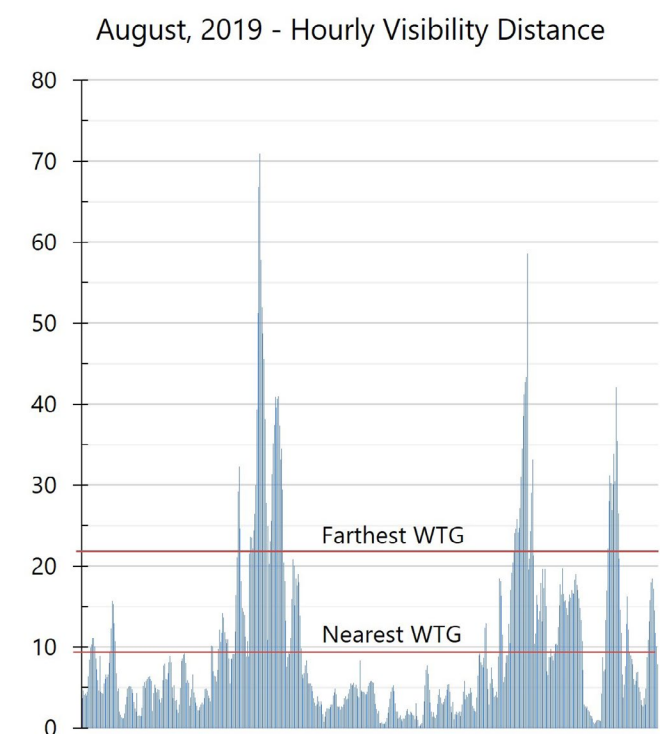
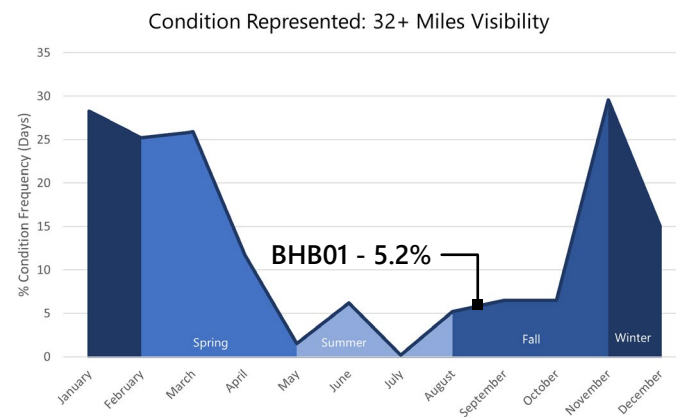
Distance to Closest WTG: 9.9 miles

Camera Height: 17.7 feet

User Groups: L. Residents, Tourists, Fishing Comm., S. Residents

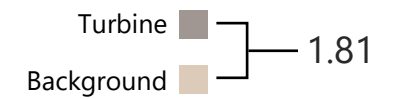
Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

Color Contrast Rating:



Lighting Condition: Back lit

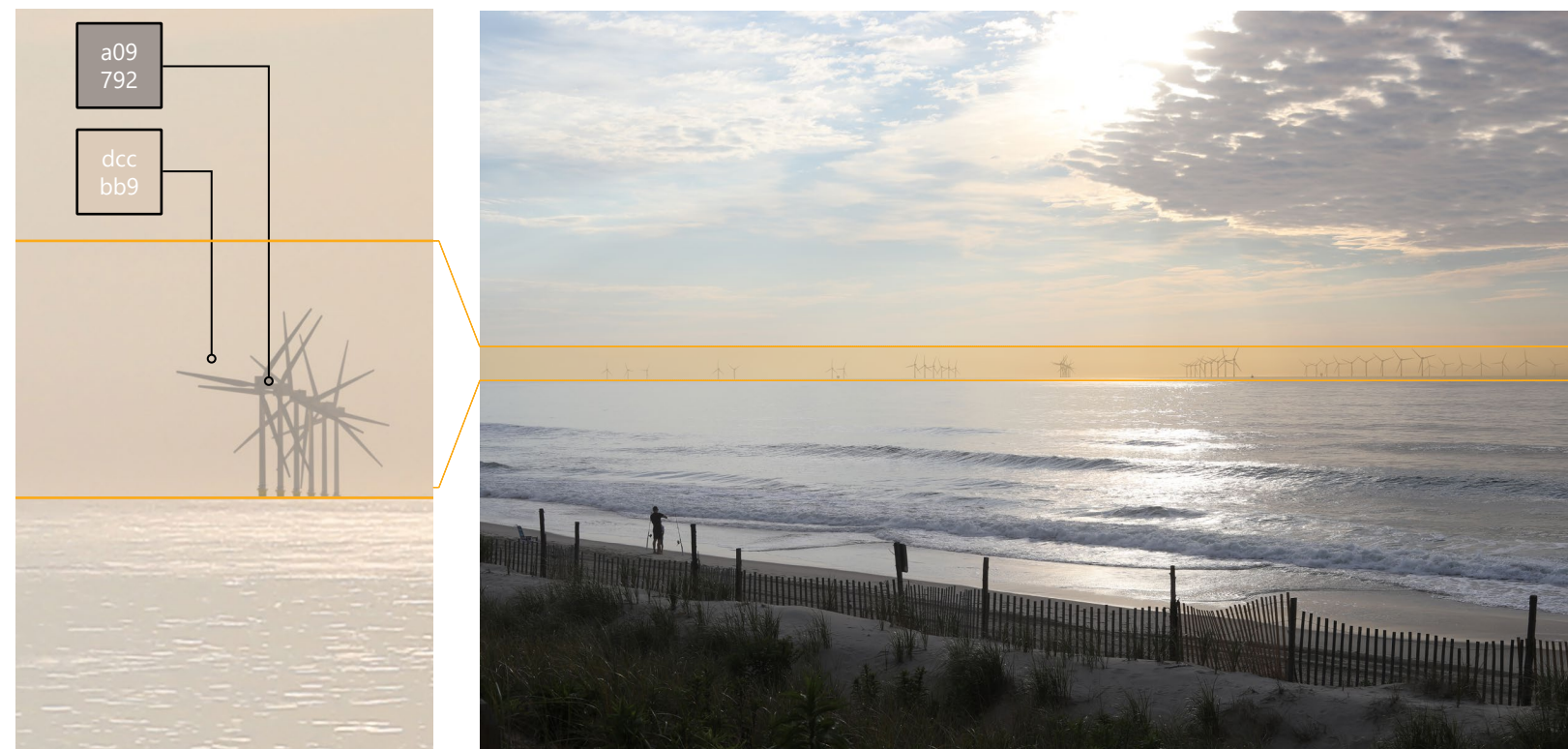
Season: Summer

Sky Condition: Cloudy

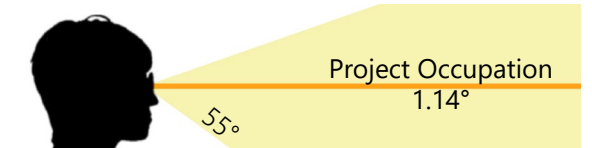
Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

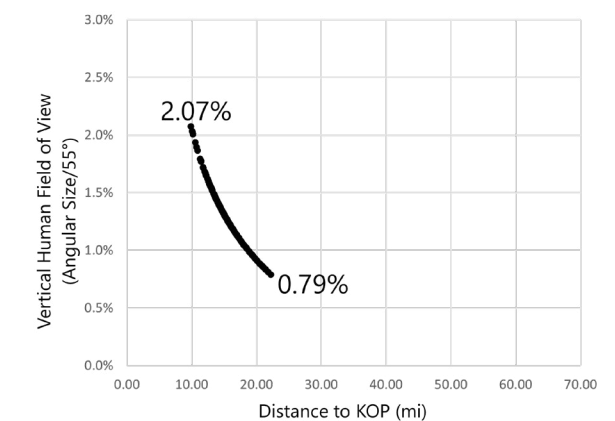
KOP BHB02 Illustrates the project from 9.84 miles in the side lit condition. This provides an indication of how the turbines may appear from this KOP during midday conditions.



Vertical Occupation



Percentage of Human FOV: 2.07% (1.14° / 55°)
(Considering the nearest visible turbine)



BHB01 Beach Haven Historic District

Beach Haven Borough, Ocean County, New Jersey

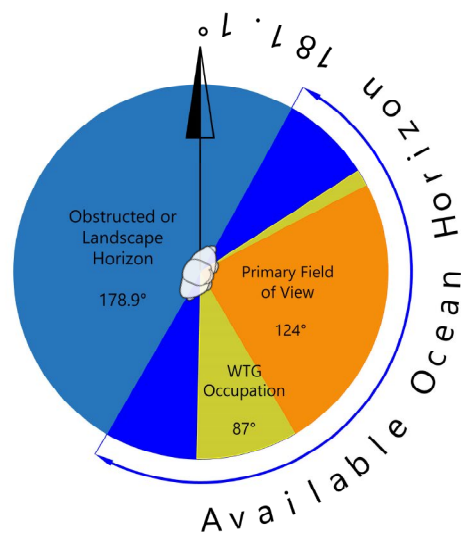
KOP Information

| | |
|---|------------------------------------|
| Primary Field of View/Simulation Direction: | ESE/ESE |
| Distance to Closest WTG: | 9.9 miles |
| Camera Height: | 17.7 ft |
| User Groups: | Residents, Tourists, Fishing Comm. |
| Horizon Occupation (% HFOV): | Large (87.0°, 70.1%) |
| Vertical Occupation: | Large (1.14°, 2.07%) |
| Character Area Type: | Seascape |
| Character Area: | Residential Beachfront (SCA) |

Existing View



Field of View

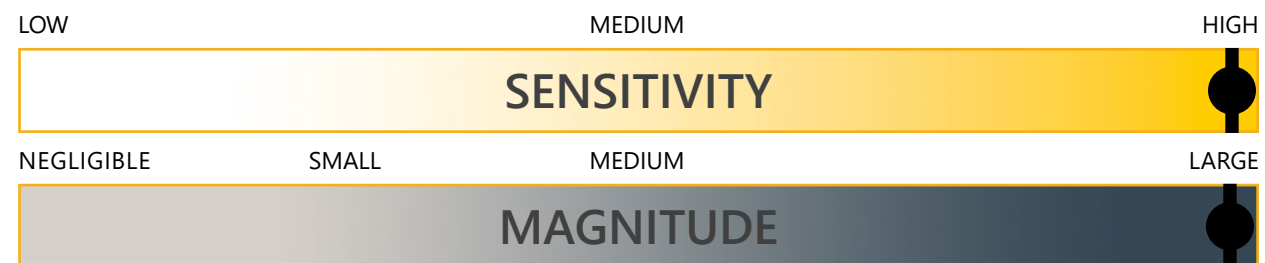


Existing Landscape/ Seascape Character Description:

This view is from the edge of the Beach Haven Historic District in the Borough of Beach Haven and within the Residential Beachfront SCA. A portion of this area was added to the National Register of Historic Places on July 14, 1983, for its significance in architecture and history as a beachfront resort during the 19th century. The district includes 149 contributing buildings. The adjacent Beach Haven Borough Public Beach is a popular swimming and sunbathing destination on Long Beach Island. In-season access requires a beach badge, and lifeguard and beach patrol services are provided. The KOP is located on one of many beach access paths that occur at the end of roads leading to the shoreline. This area is mostly comprised of typical single family residential vacation or permanent homes, but there are also three hotels and a condominium complex sandwiched between the homes. The dunes are large as with most in this area, angular paths traverse the dunes to provide beach access. Centre Street also has a large comfort station at the start of the beach path. At high tide, the beach is relatively narrow, and the ocean appears to occasionally encroach on the dunes. However, the dune structure is relatively healthy as evidenced by the established grasses.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | High | View is representative of residential viewers from the beachfront homes. It is somewhat representative of views from a nearby historic district and the ocean view is important to user experience |
| Value | High | The residents of LBI requested specific views from three locations in Beach Haven, including Centre Street, suggesting that these represent locations with high value to the residents. |
| Sensitivity Rating | High | The high susceptibility and value results in high sensitivity. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Large | The vertical scale is large, with the nearest WTGs occupying approximately 1.14 degrees or 2.07% of the vertical field of view, resulting in a visual prominence factor of 6. |
| Geographic Extent | Large | The Project would occupy approximately 70 percent or 87 degrees of the 124 degree human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | With a large geographic extent and large vertical scale, the overall magnitude rating is large. |

Project Contrast:

During clear viewing conditions, the line, form, color, occupation, motion, and lighting would strongly contrast with ocean views due to the novel form of the WTGs. Similar contrasts would occur with landform and structures and rotor motion could detract from vegetation. The presence of stacking WTGs (when WTGs rows are perfectly aligned with the viewer position) will result in discordant features on the horizon when fully visible under clear conditions.

Overall Impact
Major

Existing Conditions



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB01 - Beach Haven Historic District
Attachment E: Photosimulations: Page 106 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB01 - Beach Haven Historic District
Attachment E: Photosimulations: Page 108 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (OCS-A 0549)



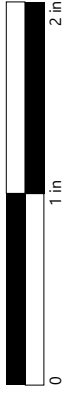
Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB01 - Beach Haven Historic District

Attachment E: Photosimulations; Page 110 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Night)



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Night) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

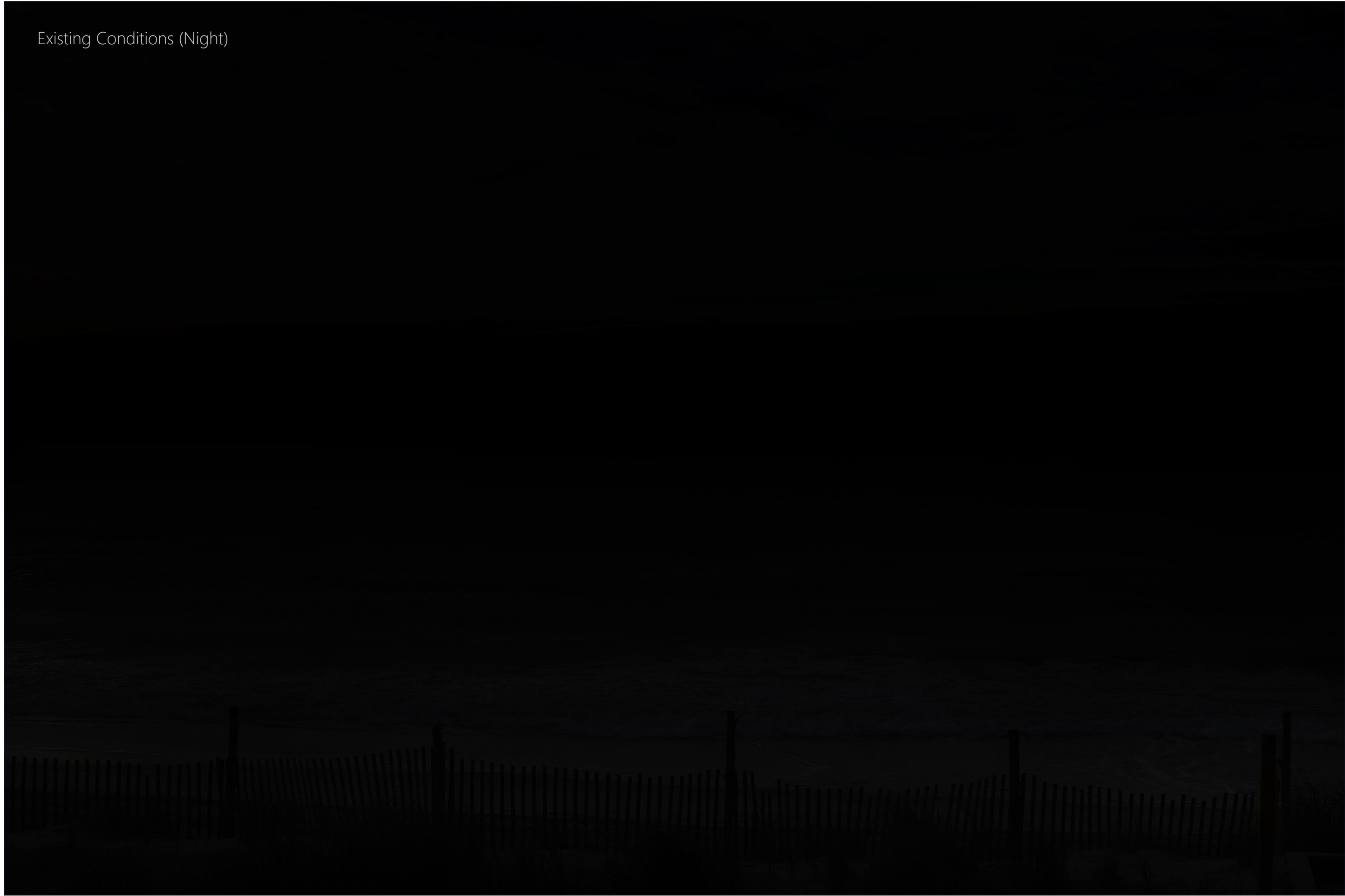
Key Observation Point: BHB01 - Beach Haven Historic District
Attachment E: Photosimulations: Page 112 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Night)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB01 - Beach Haven Historic District
Attachment E: Photosimulations: Page 113 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Night) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

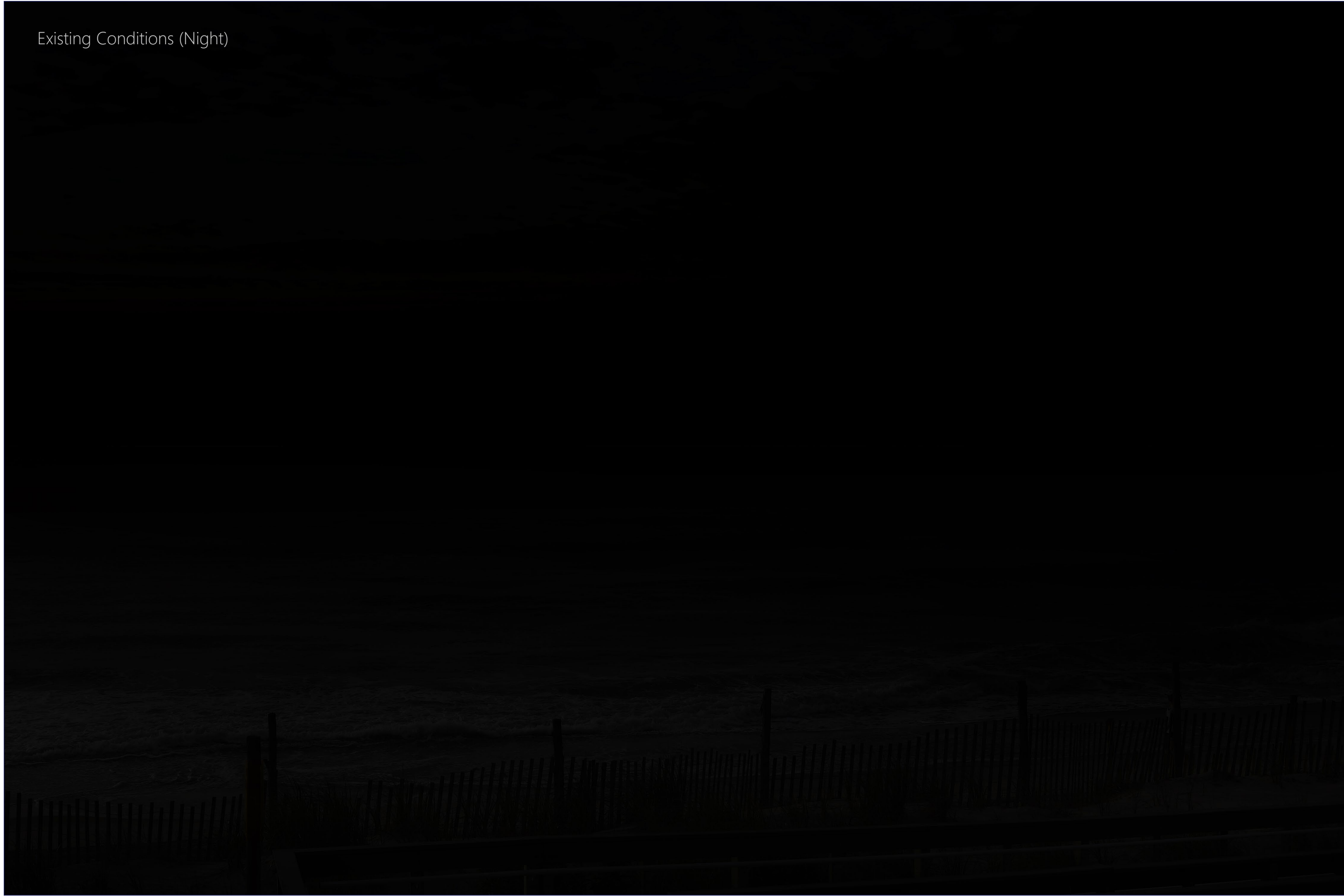
Key Observation Point: BHB01 - Beach Haven Historic District
Attachment E: Photosimulations: Page 114 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Night)



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Night) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB01 - Beach Haven Historic District
Attachment E: Photosimulations: Page 116 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



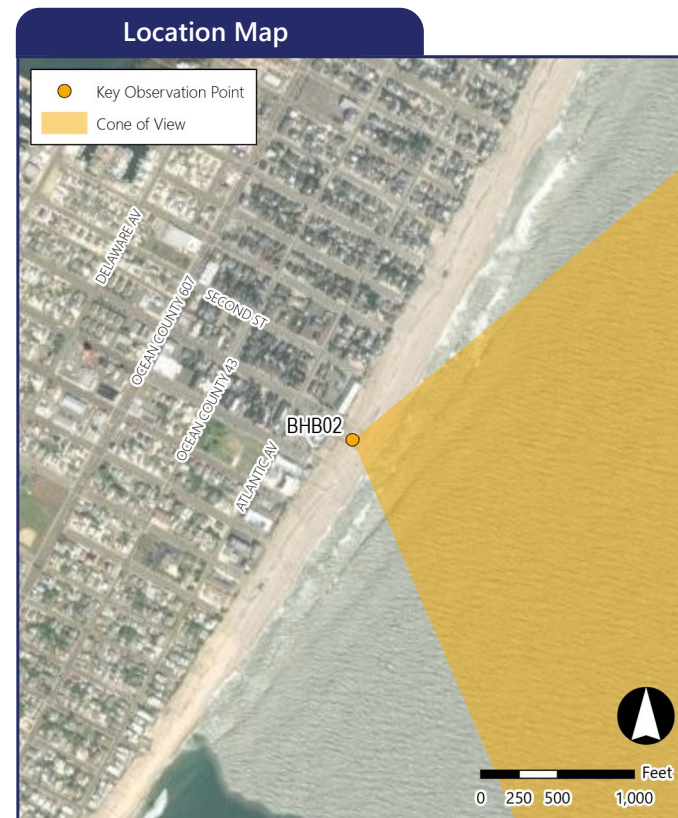
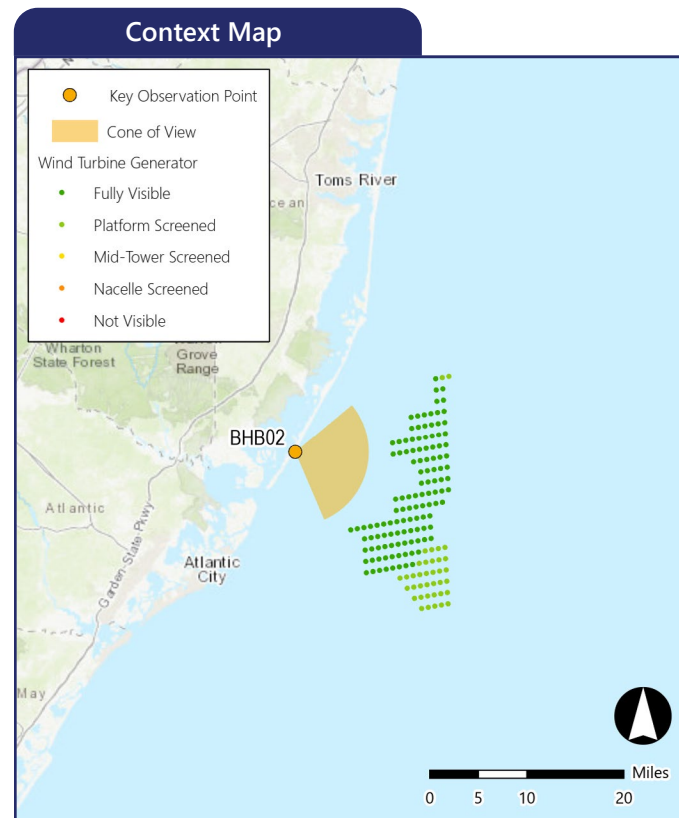
This scale is designed to insure the simulation images are printed at the intended size.

BHB02 Centre Street, Beach Haven

Beach Haven Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from Centre Street, Beach Haven, panning clockwise from northeast (left) to southeast (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.56166°N, 74.23568°W
 Character Area: Residential Beachfront, Seascape (SCA)
 User Group: L. Residents, Tourists, S. Residents
 Direction of View: East
 Distance to Nearest Visible Turbine: 9.8 miles
 Sensitive Resource: Beach Haven Borough Public Beach, Beach Haven Historic District, New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 03/02/2022
 Time: 12:03 PM
 Temperature: 54°F
 Humidity: 40%
 Visibility: 10 miles
 Wind Direction: West-northwest
 Wind Speed: 13 mph
 Conditions Observed: Fair

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 27.0 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



BHB02 Centre Street, Beach Haven

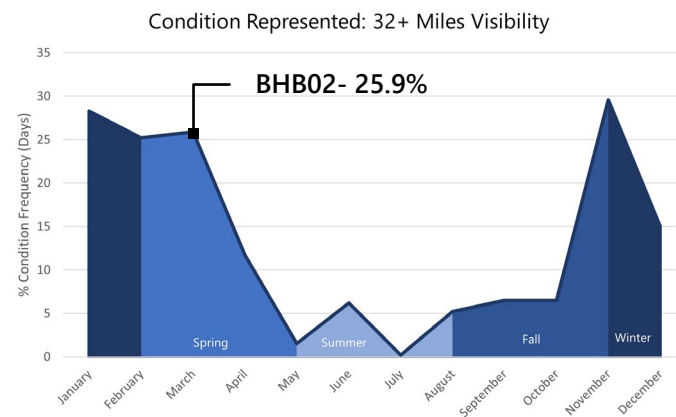
Beach Haven Borough, Ocean County, New Jersey

KOP Information

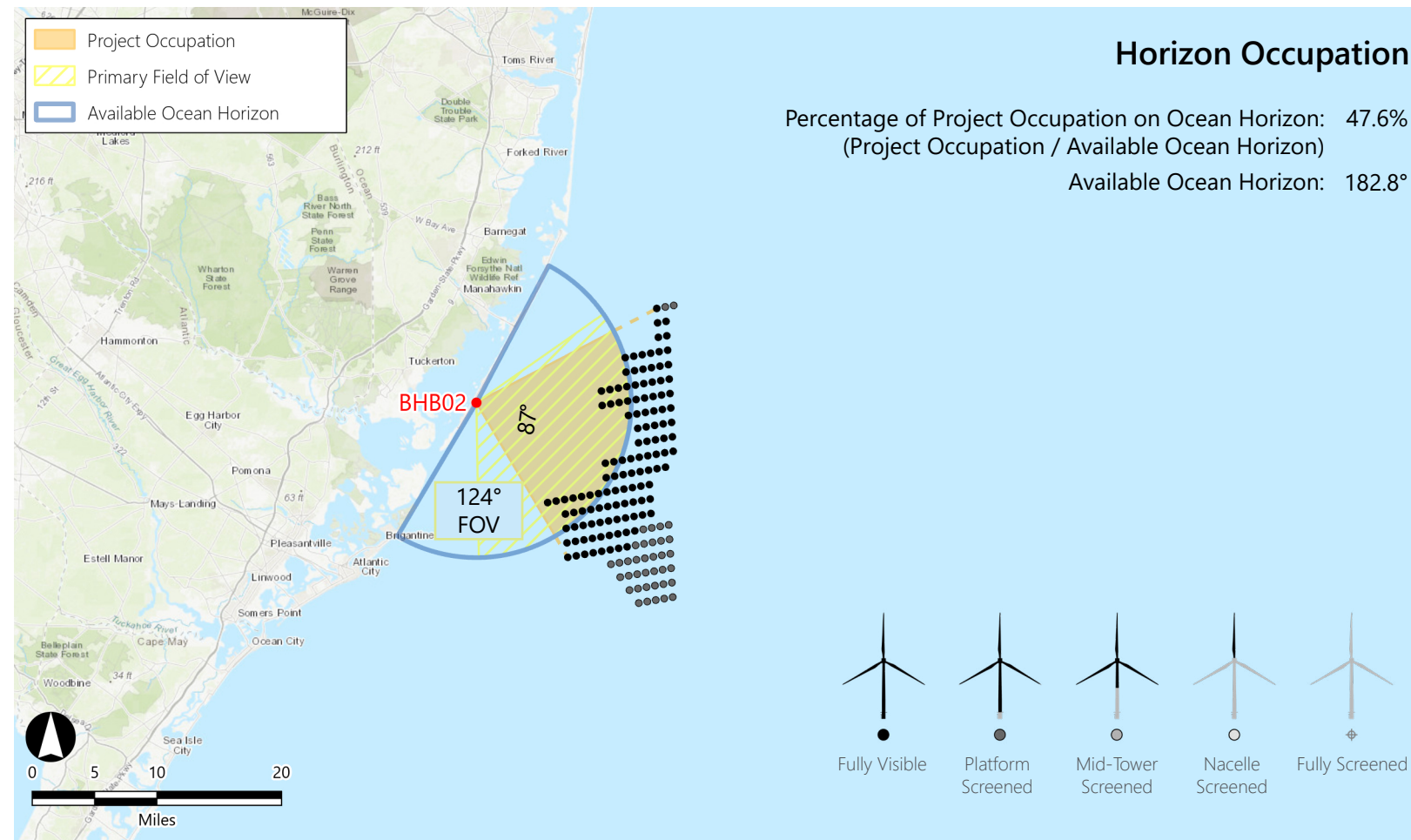
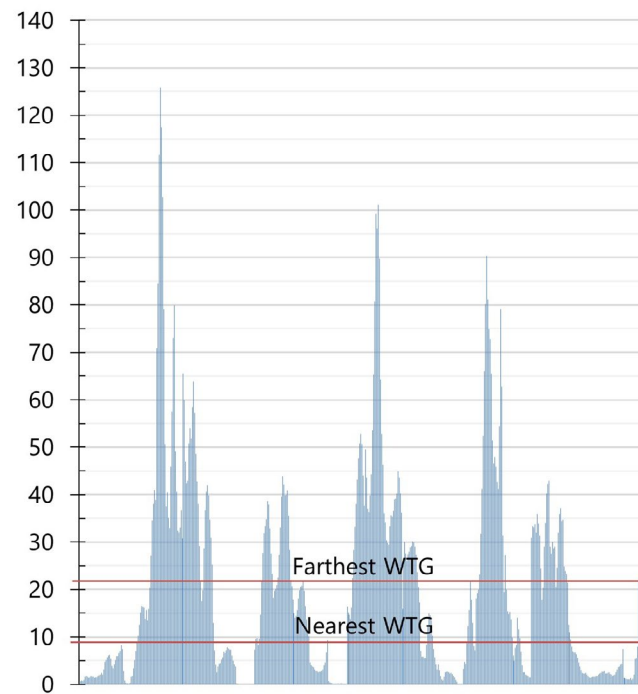
Primary Field of View: East
 Distance to Closest WTG: 9.8 miles
 Camera Height: 27.0 feet
 User Groups: L. Residents, Tourists, S. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.

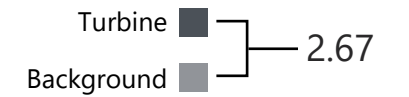


March, 2019 - Hourly Visibility Distance



WTG Color Contrast

Color Contrast Rating:

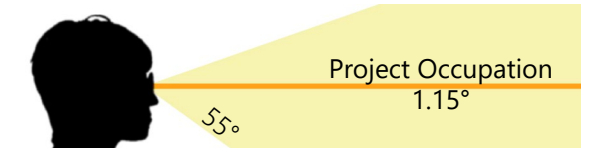


Lighting Condition: Side lit
 Season: Winter
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

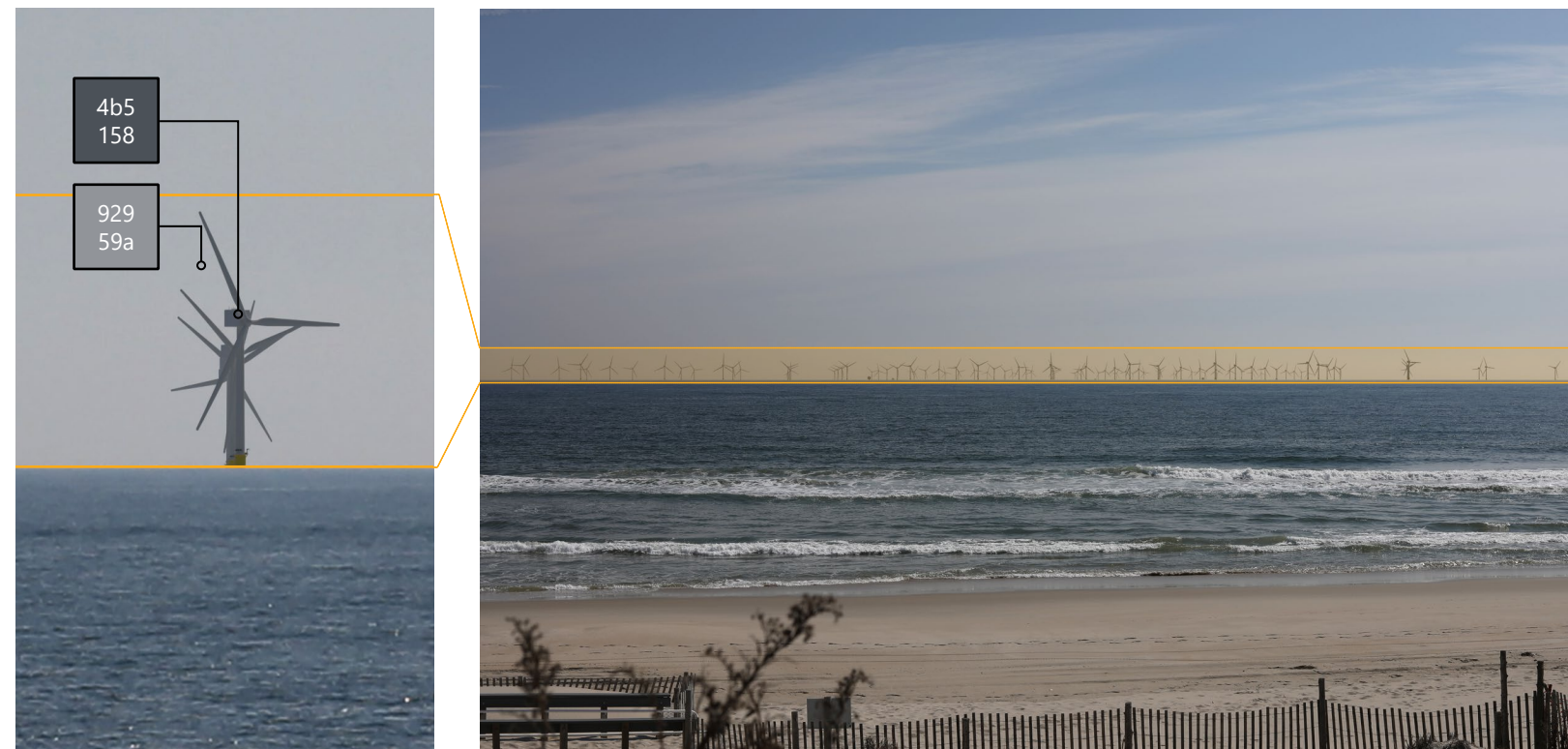
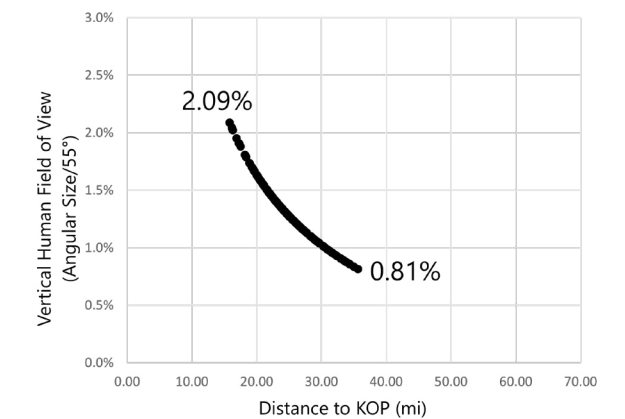
SIMILAR VIEWING PARAMETERS:

KOP BLB02 illustrates the project from 10.07 miles in the back lit condition. This provides an indication of how the turbines may appear from this KOP during midday conditions.

Vertical Occupation



Percentage of Human FOV: 2.09% (1.15° / 55°)
 (Considering the nearest visible turbine)



BHB02 Centre Street, Beach Haven

Beach Haven Borough, Ocean County, New Jersey

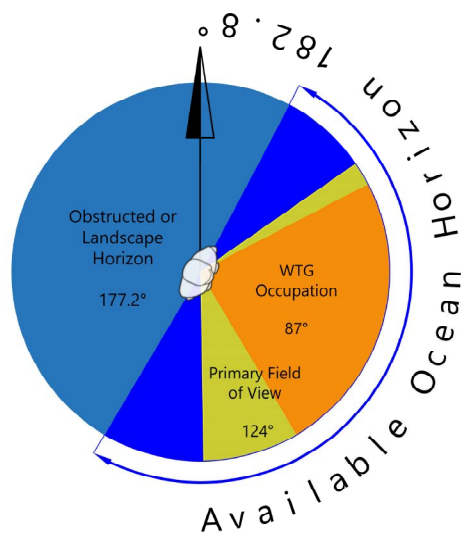
KOP Information

| | |
|---|------------------------------------|
| Primary Field of View/Simulation Direction: | ESE/ESE |
| Distance to Closest WTG: | 9.8 miles |
| Camera Height: | 27.0 ft |
| User Groups: | Residents, Tourists, Fishing Comm. |
| Horizon Occupation (% HFOV): | Large (87.0°, 70.1%) |
| Vertical Occupation: | Large (1.15°, 2.09%) |
| Character Area Type: | Seascape |
| Character Area: | Residential Beachfront |

Existing View



Field of View

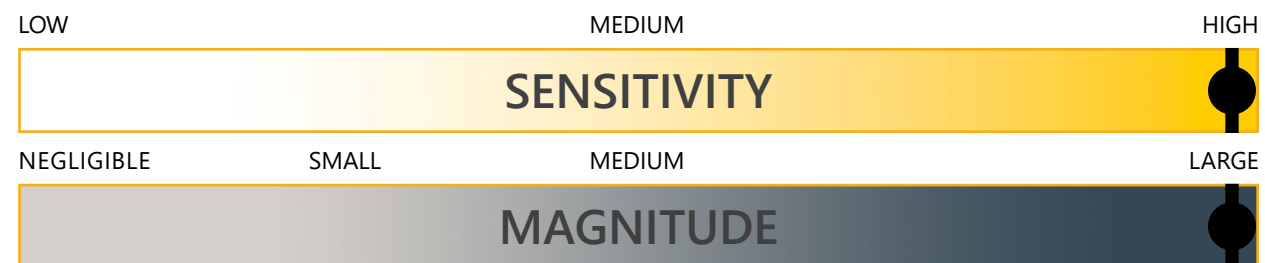


Existing Landscape/ Seascape Character Description:

Like BHB01, this view is from the edge of the Beach Haven Historic District in the Borough of Beach Haven and within the Residential Beachfront SCA. A portion of this area was added to the National Register of Historic Places on July 14, 1983, for its significance in architecture and history as a beachfront resort during the 19th century. The district includes 149 contributing buildings. The adjacent Beach Haven Borough Public Beach is a popular swimming and sunbathing destination on Long Beach Island. In-season access requires a beach badge, and lifeguard and beach patrol services are provided. The KOP is located on one of many beach access paths that occur at the end of roads leading to the shoreline. This area is mostly comprised of typical single family residential vacation or permanent homes, but there are also three hotels and a condominium complex sandwiched between the homes. The dunes are large as with most in this area, angular paths traverse the dunes to provide beach access. Centre Street also has a large comfort station at the start of the beach path. At high tide, the beach is relatively narrow, and the ocean appears to occasionally encroach on the dunes. However, the dune structure is relatively healthy as evidenced by the established grasses.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | High | View is representative of residential viewers from the beachfront homes. It is somewhat representative of views from a nearby historic district and the ocean view is important to user experience |
| Value | High | The residents of LBI requested specific views from three locations in Beach Haven, including Centre Street, suggesting that these represent locations with high value to the residents. |
| Sensitivity Rating | High | The high susceptibility and value results in high sensitivity. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Large | The vertical scale is large, with the nearest WTGs occupying approximately 1.14 degrees or 2.07% of the vertical field of view, resulting in a visual prominence factor of 6. |
| Geographic Extent | Large | The Project would occupy approximately 70 percent or 87 degrees of the 124 degree human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | With a large geographic extent and large vertical scale, the overall magnitude rating is large. |

Project Contrast:

During clear viewing conditions, the line, form, color, occupation, motion, and lighting would strongly contrast with ocean views due to the novel form of the WTGs. Similar contrasts would occur with landform and structures and rotor motion could detract from vegetation. The presence of stacking WTGs (when WTGs rows are perfectly aligned with the viewer position) will result in discordant features on the horizon when fully visible under clear conditions.

Overall Impact
Major

Existing Conditions (Morning)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 120 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (Morning) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 121 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Morning)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 122 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (Morning) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 123 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Morning)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 124 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



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Photosimulation (Morning) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 125 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Morning)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 126 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Morning) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 127 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 128 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



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Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 129 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 130 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 131 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Noon)



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 133 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 134 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 135 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Evening)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 136 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Evening) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 137 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Evening)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 138 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Evening) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 139 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Evening)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 140 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (Evening) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 141 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Evening)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 142 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Evening) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

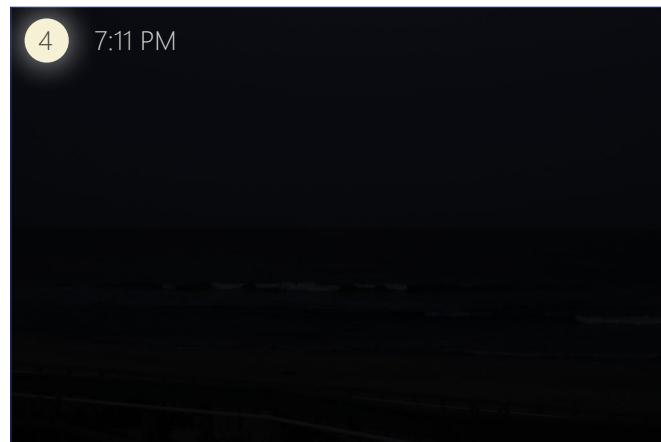
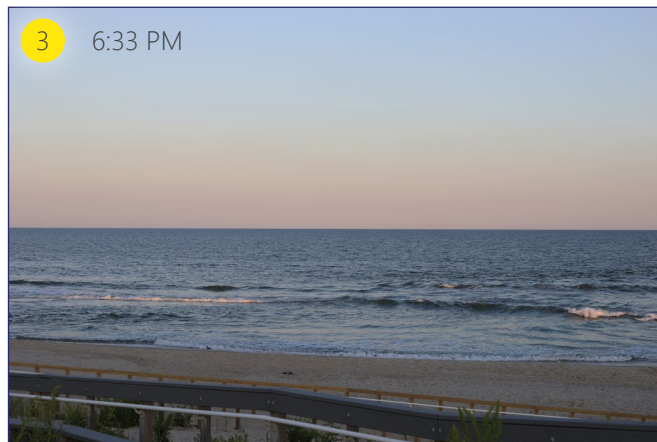
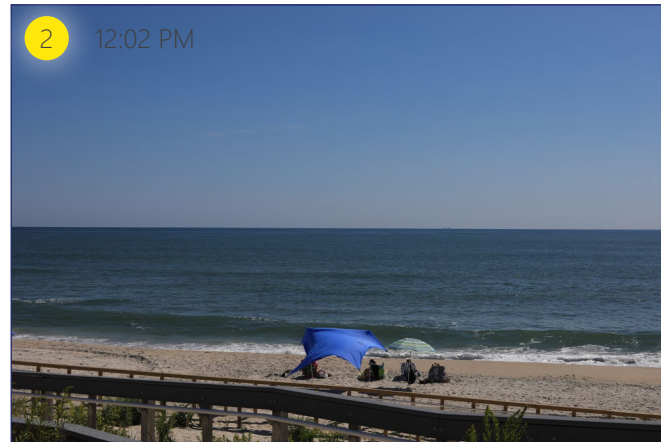
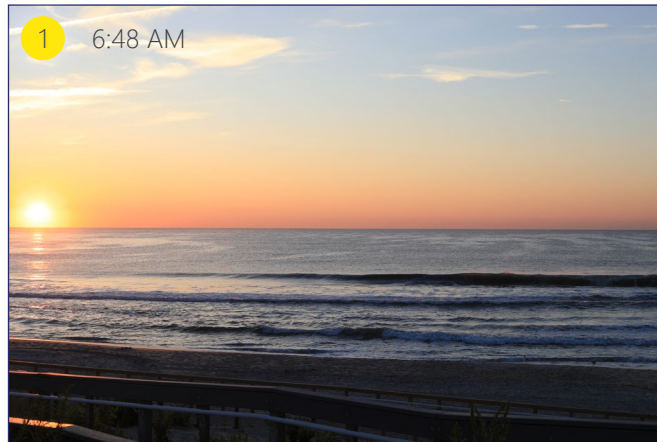
Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 143 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.

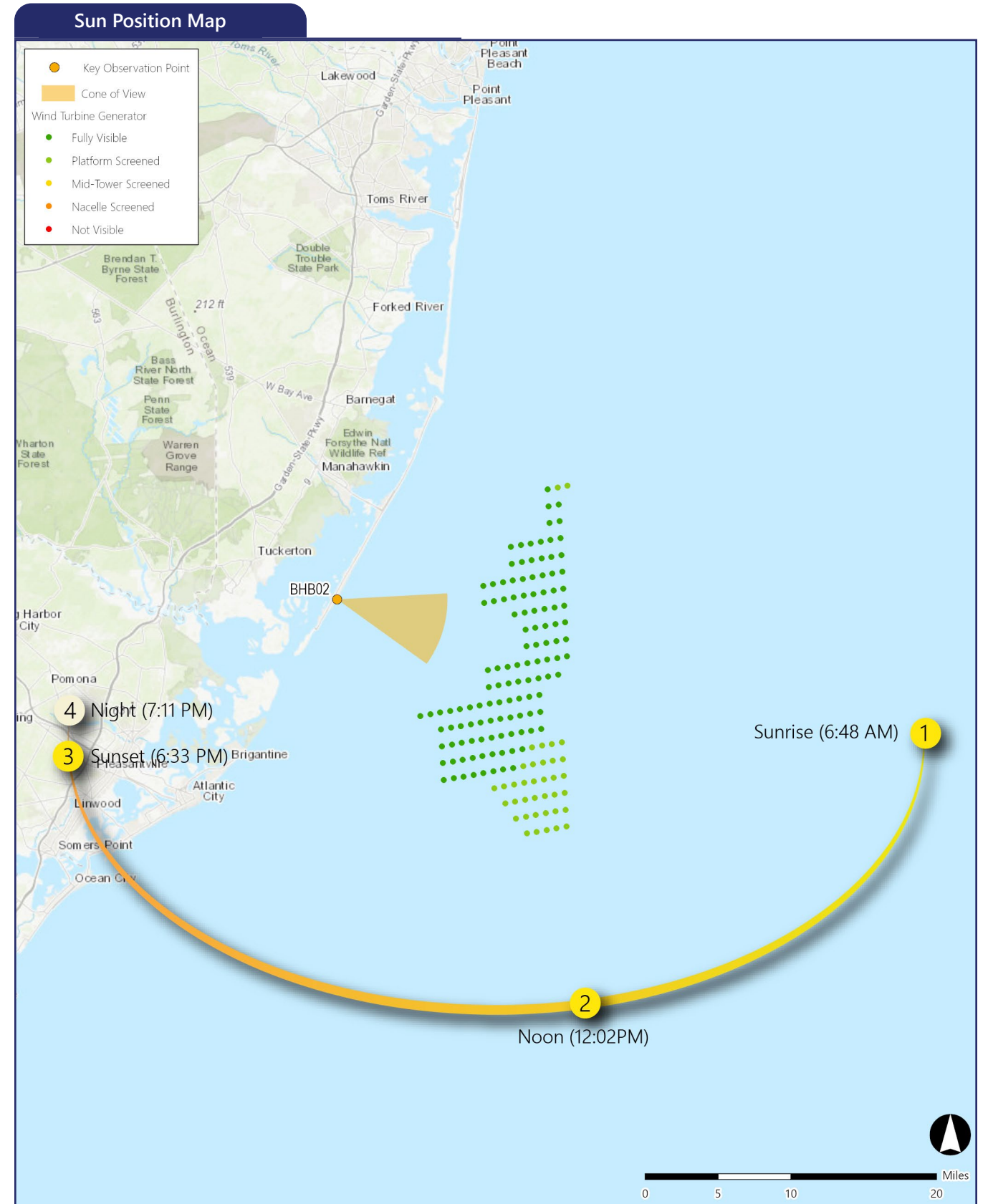


BHB02 Centre Street, Beach Haven

Beach Haven Borough, Ocean County, New Jersey



QR Code for Timelapse Video
[Timelapse Video Link](#)



Simulation Information

| | |
|--------------------------------------|---|
| Coordinates: | 39.56173°N, 74.23565°W |
| Character Area: | Residential Beachfront, Seascape (SCA) |
| User Group: | L. Residents, Tourists, S. Residents |
| Direction of View: | East-southeast |
| Distance to Nearest Visible Turbine: | 9.8 miles |
| Sensitive Resource: | Beach Haven Borough Public Beach, Beach Haven Historic District, New Jersey Coastal Heritage Trail Area |

Environmental Information

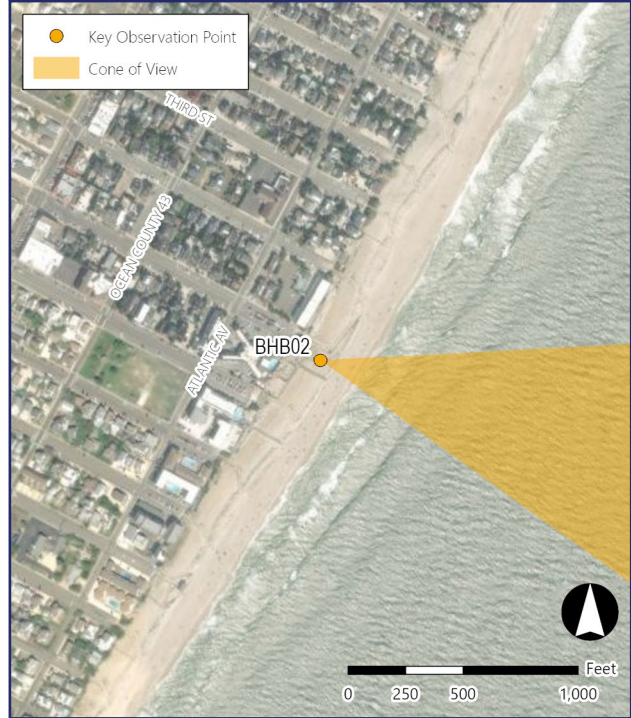
| | |
|----------------------|------------|
| Date Taken: | 09/20/2023 |
| Time: | Various |
| Temperature: | 73°F |
| Humidity: | 53% |
| Visibility: | 10 miles |
| Wind Direction: | Southwest |
| Wind Speed: | 6 mph |
| Conditions Observed: | Fair |

Photograph Information

| | |
|----------------|----------------------|
| Camera: | Canon EOS 5D Mark IV |
| Resolution: | 30.4 Megapixels |
| Focal Length: | 50mm |
| Camera Height: | 27.0 feet AMSL |

Notes
 Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Context Map



Existing Conditions (Sunrise)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 145 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (Sunrise) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 146 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 147 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 148 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

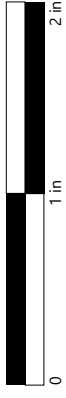
Existing Conditions (Sunset)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations; Page 149 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Sunset) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 150 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Existing Conditions (Night)



Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Night) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB02 - Centre Street, Beach Haven
Attachment E: Photosimulations: Page 152 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



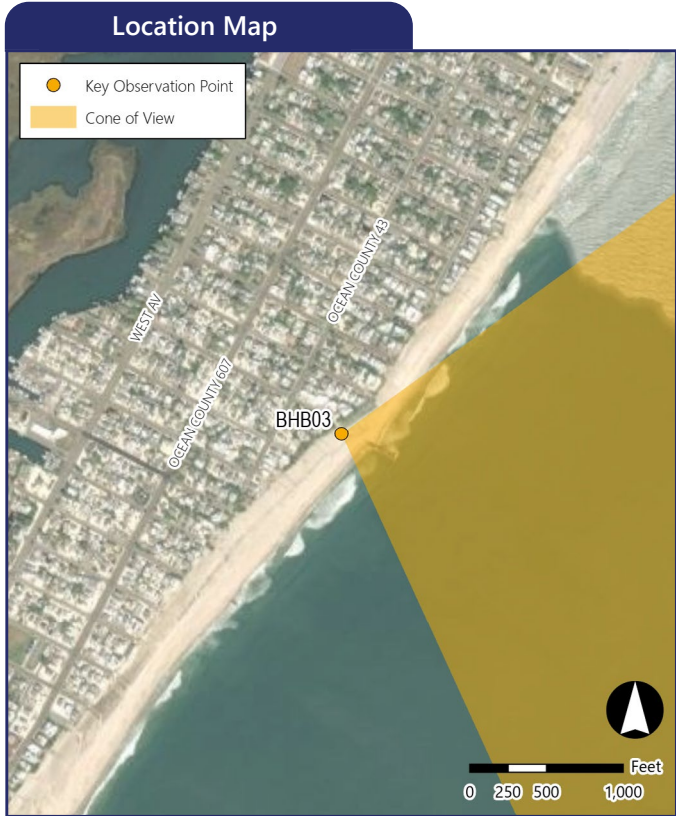
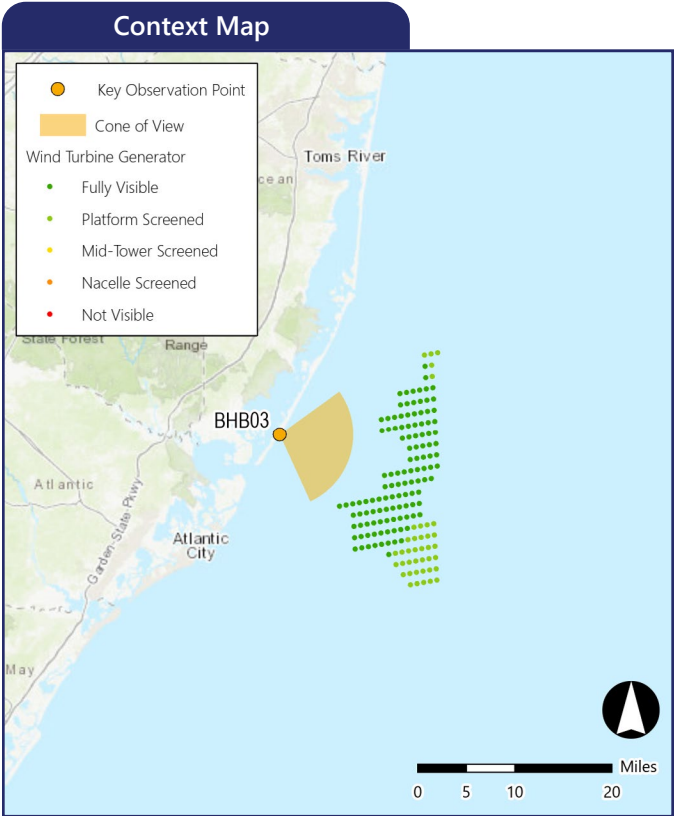
This scale is designed to insure the simulation images are printed at the intended size.

BHB03 Holyoke Avenue, Beach Haven

Beach Haven Borough, Ocean County, New Jersey



The image above is a +/- 124° panorama photograph from Holyoke Avenue, Beach Haven, panning clockwise from northeast (left) to southeast (right). The yellow rectangle within the photo represents the extent of the photosimulation photo(s).



Simulation Information

Coordinates: 39.55258°N, 74.24419°W
 Character Area: Residential Beachfront, Seascape (SCA)
 User Group: L. Residents, Tourists, S. Residents
 Direction of View: East-southeast
 Distance to Nearest Visible Turbine: 9.6 miles
 Sensitive Resource: Beach Haven Borough Public Beach, New Jersey Coastal Heritage Trail Area

Environmental Information

Date Taken: 03/02/2022
 Time: 5:23 PM
 Temperature: 55°F
 Humidity: 30%
 Visibility: 10 miles
 Wind Direction: West
 Wind Speed: 9 mph
 Conditions Observed: Fair

Photograph Information

Camera: Canon EOS 5D Mark IV
 Resolution: 30.4 Megapixels
 Focal Length: 50mm
 Camera Height: 26.9 feet AMSL

Notes

Printed at 100%, the photosimulations are 15 inches wide by 10 inches high. At this size, the photosimulation(s) should be viewed from a distance of 21 inches.

Simulated Photograph(s)



BHB03 Holyoke Avenue, Beach Haven

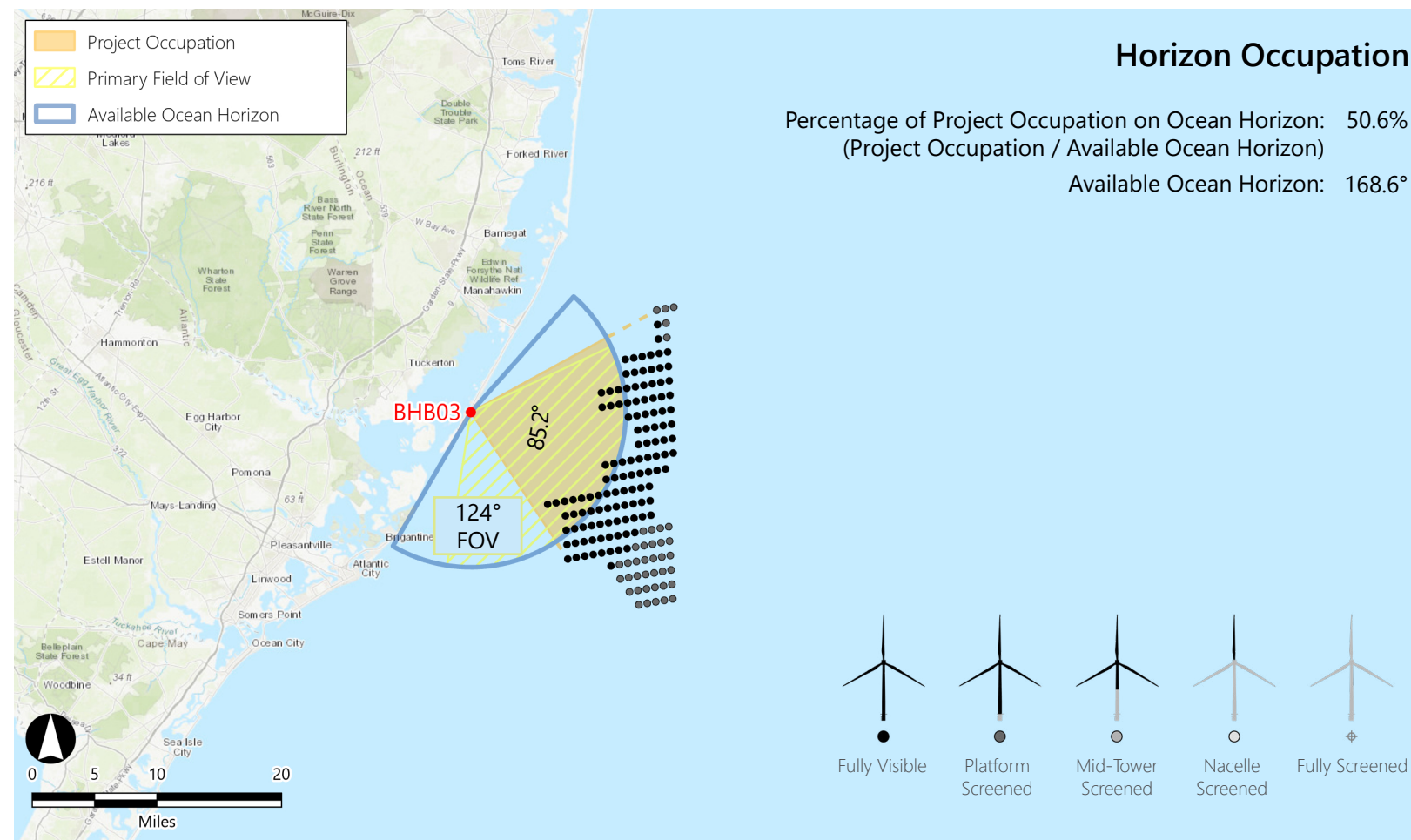
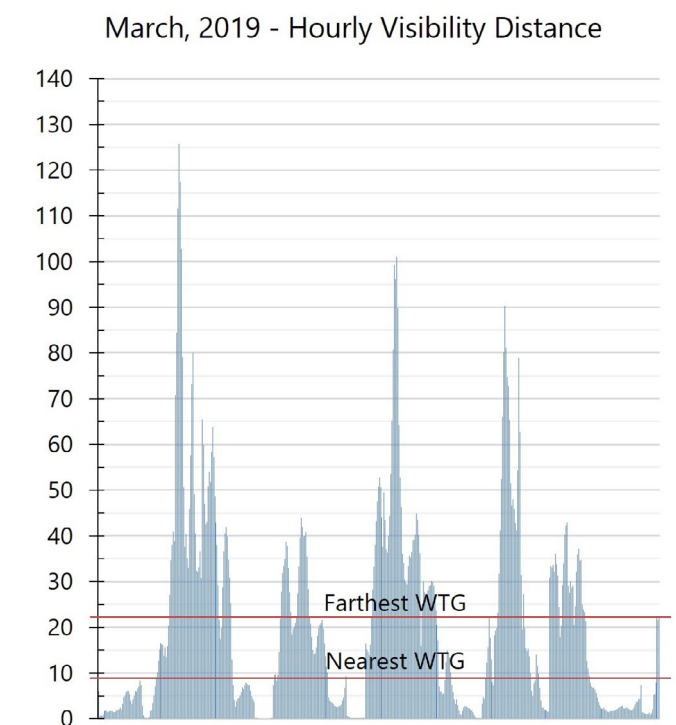
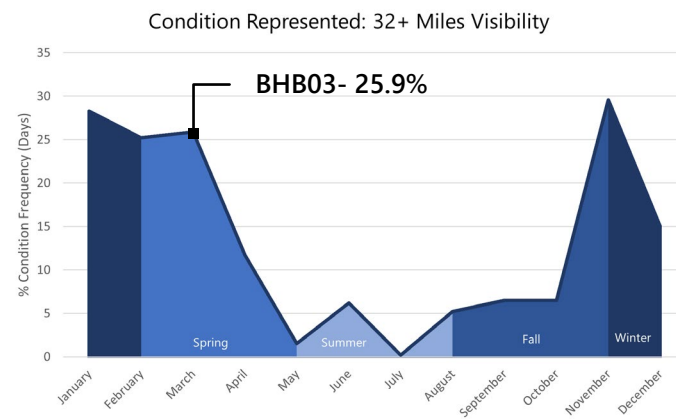
Beach Haven Borough, Ocean County, New Jersey

KOP Information

Primary Field of View: East
 Distance to Closest WTG: 9.6 miles
 Camera Height: 26.9 feet
 User Groups: L. Residents, Tourists, S. Residents

Atmospheric Perspective

The effect the atmosphere has on the appearance of an object as viewed from a distance.



WTG Color Contrast

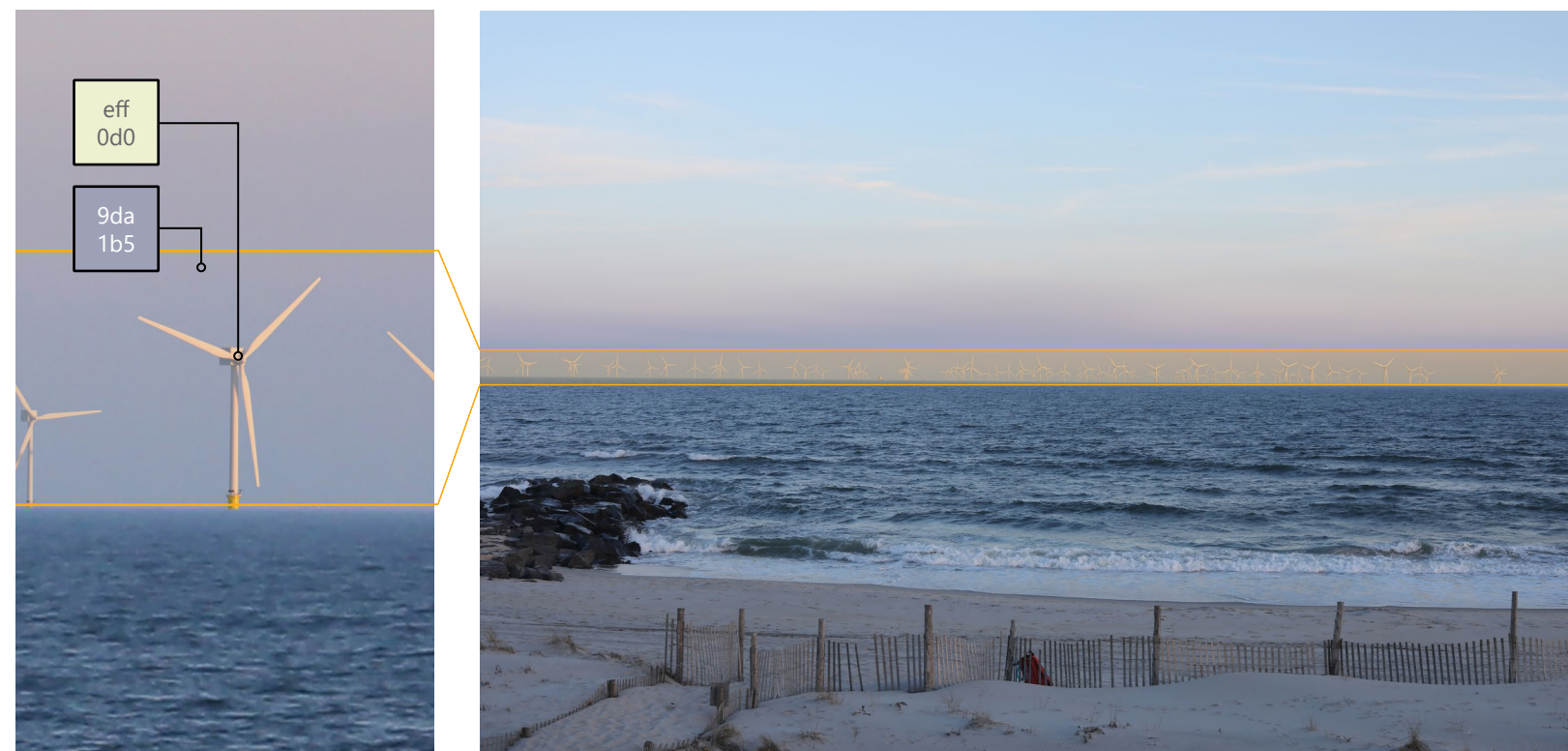
Color Contrast Rating:

Turbine: 2.20
 Background

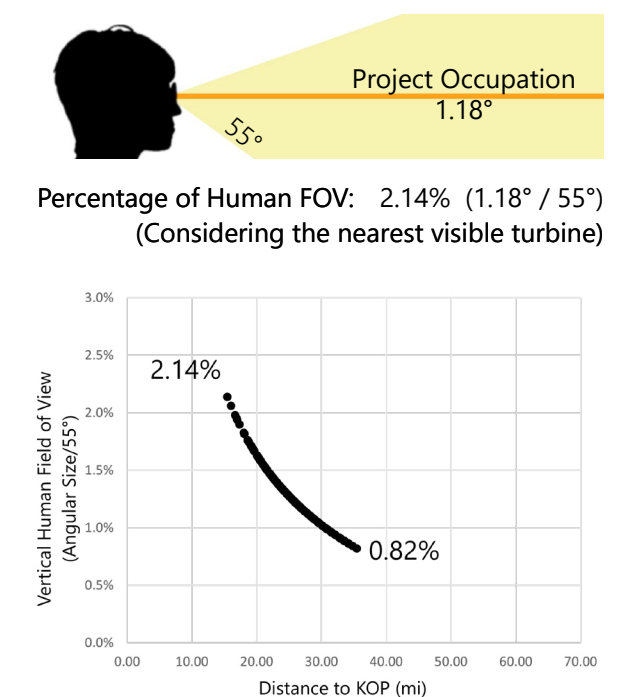
Lighting Condition: Front lit
 Season: Winter
 Sky Condition: Fair
 Atmospheric Condition: > 10 Miles

SIMILAR VIEWING PARAMETERS:

KOP BT01 Illustrates the project from 11.73 miles in the side lit condition. This provides an indication of how the turbines may appear from this KOP during morning conditions.



Vertical Occupation



BHB03 Holyoke Avenue, Beach Haven

Beach Haven Borough, Ocean County, New Jersey

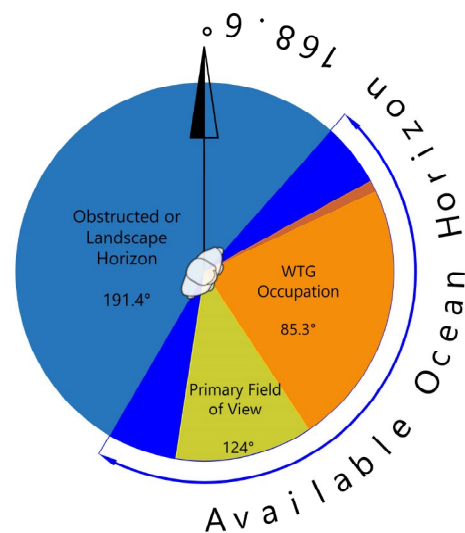
KOP Information

| | |
|---|------------------------------------|
| Primary Field of View/Simulation Direction: | ESE/ESE |
| Distance to Closest WTG: | 9.6 miles |
| Camera Height: | 26.9 ft |
| User Groups: | Residents, Tourists, Fishing Comm. |
| Horizon Occupation (% HFOV): | Large (85.2°, 68.7%) |
| Vertical Occupation: | Large (1.18°, 2.14%) |
| Character Area Type: | Seascape |
| Character Area: | Residential Beachfront |

Existing View



Field of View

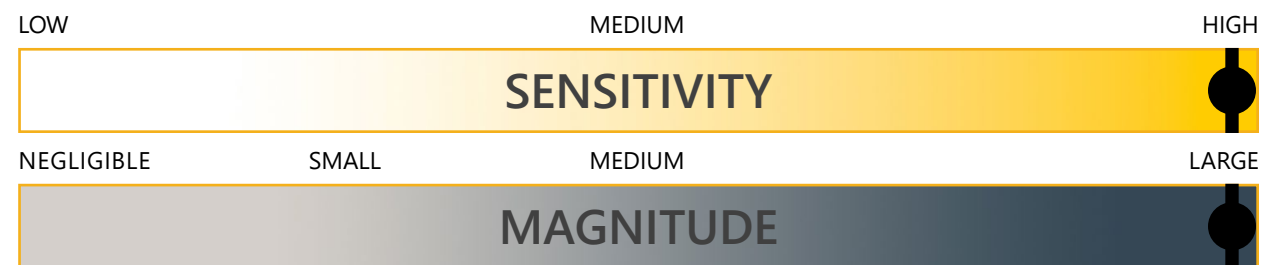


Existing Landscape/ Seascape Character Description:

This example of the residential beachfront SCA is characterized by large, modern residential homes that rise well above the large dunes. The architecture is incongruous with the natural beach environment. The view toward the ocean includes a quintessential beach scene with partially vegetated dunes, sand, and pristine ocean horizon. This KOP is at one of many beach access paths that occur at the end of roads leading to the shoreline. This area is mostly comprised of large, modern single family residential vacation or permanent homes. The dunes are large and have angular paths traversing them to provide beach access. Unlike Centre Street the Holyoke Avenue access point does not include a comfort station. At high tide, the beach is very narrow, and the ocean appears to regularly encroach on the dunes creating steep gouges at the toe of the dunes. The view toward the ocean includes a quintessential beach scene with partially vegetated dunes, sand, and pristine ocean horizon. The dune and beach view has high scenic integrity. The inland view is compromised by the development patterns.

Sensitivity

| Sensitivity Factor | Rating | Rationale |
|--------------------|--------|--|
| Susceptibility | High | View is representative of residential viewers from the beachfront homes. It is somewhat representative of views from a nearby historic district and the ocean view is important to user experience |
| Value | High | The residents of LBI requested specific views from three locations in Beach Haven, including Centre Street, suggesting that these represent locations with high value to the residents. |
| Sensitivity Rating | High | The high susceptibility and value results in high sensitivity. |



Magnitude

| Magnitude Factor | Rating | Rationale |
|-------------------------|--------|---|
| Size and Scale | Large | The vertical scale is large, with the nearest WTGs occupying approximately 1.18 degrees or 2.14% of the vertical field of view, resulting in a visual prominence factor of 6. |
| Geographic Extent | Large | The Project would occupy approximately 68.7 percent or 85.2 degrees of the 124 degree human field of view. |
| Duration/ Reversibility | Fair | Long term and fully reversible. |
| Magnitude Rating | Large | With a large geographic extent and large vertical scale, the overall magnitude rating is large. |

Project Contrast:

During clear viewing conditions, the line, form, color, occupation, motion, and lighting would strongly contrast with ocean views due to the novel form of the WTGs. Similar contrasts would occur with landform and structures and rotor motion could detract from vegetation. The presence of stacking WTGs (when WTGs rows are perfectly aligned with the viewer position) will result in discordant features on the horizon when fully visible under clear conditions.

Overall Impact
Major

Existing Conditions (Morning)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 156 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Photosimulation (Morning) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations: Page 157 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



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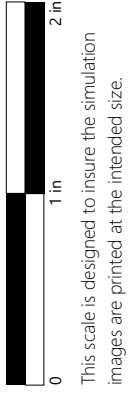
Existing Conditions (Morning)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations: Page 158 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



Photosimulation (Morning) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations: Page 159 of 289

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Existing Conditions (Morning)



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Photosimulation (Morning) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 161 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



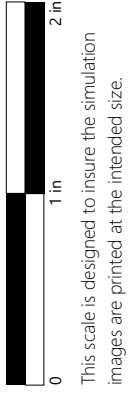
Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BHB03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 162 of 289

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Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 163 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



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Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations: Page 164 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



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Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations: Page 165 of 289

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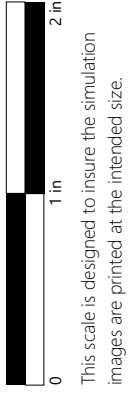
Existing Conditions (Noon)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 166 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



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Photosimulation (Noon) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 167 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



This scale is designed to insure the simulation images are printed at the intended size.

Existing Conditions (Evening)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 168 of 289

Printed at 100% the resulting simulation size is 15 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed from a distance of 21 inches.



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Photosimulation (Evening) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations; Page 169 of 289

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Existing Conditions (Evening)



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Photosimulation (Evening) (OCS-A 0549)



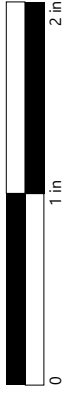
Atlantic Shores Offshore Wind: North (OCS-A 0549)

Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven

Attachment E: Photosimulations; Page 171 of 289

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Existing Conditions (Evening)



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Photosimulation (Evening) (OCS-A 0549)



Atlantic Shores Offshore Wind: North (OCS-A 0549)
Outer Continental Shelf – OCS-A 0549

Key Observation Point: BH03 - Holyoke Avenue, Beach Haven
Attachment E: Photosimulations, Page 173 of 289

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