## Coastal Flood Exposure Analysis Process Overview

### Table 3b. One Foot Increment Projected Water Levels for Exposure Analysis at Atlantic City, NJ (MHHW)

<table>
<thead>
<tr>
<th>Water Level</th>
<th>What High Water Level Condition Does This Height Represent?</th>
<th>2017 Frequency</th>
</tr>
</thead>
</table>
| 1 ft.       | • Permanent Inundation (MHHW) in 2030 using Central HE/LE Scenarios (0.8 ft.)  
              • Permanent Inundation (MHHW) in 2030 using 1-in-20 Chance HE Scenario (1.1 ft.)  
              • Permanent Inundation (MHHW) in 2050 using Central HE/LE Scenarios (1.4 ft.) | • In 2017, daily HHW met or exceeded this planning level 52 times. |
| 2 ft.       | • Current Annual (99% AEP) flood (1.6 ft.)  
              • Current Annual (99% AEP) flood in 2050 using Central HE/LE Scenarios (2.0 ft.)  
              • Permanent Inundation (MHHW) in 2100 using Central LE Scenario (2.3 ft.)  
              • Annual (99% AEP) flood in 2030 using Central HE/LE Scenarios (2.4 ft.) | • In 2017, daily HHW met or exceeded this planning level 9 times. |
| 3 ft.       | • Current Sandy Storm Tide (4.1 ft.)  
              • 10-year (10% AEP) flood in 2030 using Central HE/LE Scenarios (4.1 ft.)  
              • 10-year (10% AEP) flood in 2030 using a 1-in-20 HE Scenario (4.4 ft.)  
              • Annual (99% AEP) flood in 2050 using a 1-in-20 HE Scenario (3.6 ft.)  
              • Annual (99% AEP) flood in 2100 using a Central HE Scenario (3.4 ft.) | • In 2017, daily HHW met or exceeded this planning level 1 time (3/14/2017). |
| 4 ft.       | • Sandy Storm Tide in 2030 using Central HE/LE Scenarios (4.9 ft.)  
              • Sandy Storm Tide in 2030 using a 1-in-20 HE Scenario (5.2 ft.)  
              • Current 100-year (1% AEP) flood (4.8 ft.)  
              • 10-year (10% AEP) flood in 2050 using Central HE/LE Scenarios (4.7 ft.)  
              • 10-year (10% AEP) flood in 2050 using a 1-in-20 HE Scenario (5.3 ft.)  
              • Annual (99% AEP) flood in 2100 using Central HE Scenario (5.0 ft.)  
              • Permanent Inundation (MHHW) in 2100 using a 1-in-20 HE Scenario (5.3 ft.) | • In 2017, daily HHW did not meet or exceed this planning level. The highest water level experienced in Atlantic City during the period of record is 4.28 ft. above MHHW (12/11/1992). |
| 5 ft.       | • 100-year (1% AEP) flood in 2030 using Central HE/LE Scenarios (5.6 ft.)  
              • 100-year (1% AEP) flood in 2030 using a 1-in-20 HE Scenario (5.9 ft.)  
              • 100-year (1% AEP) flood in 2050 using Central HE/LE Scenarios (6.2 ft.)  
              • Sandy Storm Tide in 2050 using Central HE/LE Scenarios (5.5 ft.)  
              • Sandy Storm Tide in 2050 using a 1-in-20 HE Scenario (6.1 ft.)  
              • Sandy Storm Tide in 2100 using Central LE Scenario (6.4 ft.)  
              • 10-year (10% AEP) flood in 2100 using a Central LE Scenario (5.6 ft.) | • Atlantic City, NJ has never experienced a water level this high during the period of record. |
| 6 ft.       | • 100-year (1% AEP) flood in 2030 using Central HE/LE Scenarios (6.8 ft.)  
              • 100-year (1% AEP) flood in 2030 using a 1-in-20 HE Scenario (6.9 ft.)  
              • 100-year (1% AEP) flood in 2100 using Central LE Scenario (7.1 ft.)  
              • Sandy Storm Tide in 2050 using Central HE/LE Scenarios (5.5 ft.)  
              • Sandy Storm Tide in 2050 using a 1-in-20 HE Scenario (6.1 ft.)  
              • Sandy Storm Tide in 2100 using Central LE Scenario (6.4 ft.)  
              • 10-year (10% AEP) flood in 2100 using a Central LE Scenario (5.6 ft.) | |
| 7 ft.       | • 100-year (1% AEP) flood in 2050 using a 1-in-20 HE Scenario (6.8 ft.)  
              • 100-year (1% AEP) flood in 2100 using a Central LE Scenario (7.1 ft.)  
              • 10-year (10% AEP) flood in 2100 using a Central HE Scenario (6.7 ft.)  
              • Annual (99% AEP) flood in 2100 using a 1-in-20 HE Scenario (6.9 ft.) | |
| 8 ft.       | • Sandy Storm Tide in 2100 using Central HE Scenario (7.5 ft.)  
              • 100-year (1% AEP) flood in 2100 using a Central HE Scenario (8.2 ft.) | |
| 9 ft.       | • Sandy Storm Tide in 2100 using 1-in-20 HE Scenario (9.4 ft.)  
              • 10-year (10% AEP) flood in 2100 using a 1-in-20 HE Scenario (8.6 ft.) | |
| 10 ft.      | • 100-year (1% AEP) flood in 2100 using 1-in-20 HE Scenario (10.1 ft.) | |

**Notes:** MHHW = Mean Higher High Water, HHW = Daily Higher High Water, HE = High Emissions, LE = Low Emissions