**Table 5.3.2-3**

**Summary of Maximum Anticipated Impacts to Benthic Habitat-Proposed Action**

| Current Scour Protection Scenario | Area of Impact (square feet) | Area of Impact (acres) | Area of Impact (square meters) | Percent of Project Area* | Percent of Nantucket Sound** |
|---|---|---|---|---|---|
| **OUTSIDE 3-MILE LIMIT - FEDERAL WATERS** | | | | | |
| Inner-array cables (66.7 miles) | | | | | |
| Inner array cables | 2,113,056 | 48.51 | 196,309 | 0.303 | 0.0135 |
| Pontoon impacts | 2,113,056 | 48.51 | 196,309 | 0.303 | 0.0135 |
| Anchoring to install cables | 227,781 | 5.23 | 21,162 | 0.033 | 0.0015 |
| Anchor line sweep for installation | 20,802,396 | 477.56 | 1,932,606 | 2.985 | 0.1332 |
| Barge to hold Cables | 1,260 | 0.03 | 117 | 0.00018 | 0.000008 |
| **Sub-total** | **25,257,549** | **580** | **2,346,503** | **3.6** | **0.16** |
| **Submarine cable system (4.9 miles)** | | | | | |
| 115kV submarine cable system | 310,464 | 7.13 | 28,843.1 | 0.045 | 0.002 |
| Pontoon impacts | 310,464 | 7.13 | 28,843.1 | 0.045 | 0.002 |
| Anchoring to install cable system | 71,707 | 1.65 | 6,661.8 | 0.010 | 0.00054 |
| Anchor line sweep for installation | 3,056,424 | 70.17 | 283,951.1 | 0.439 | 0.02232 |
| **Sub-total** | **3,749,059** | **86** | **348,299** | **0.54** | **0.03** |
| Construction of WTGs and ESP | | | | | |
| Jack-up Barges for WTGs | 402,995 | 9.25 | 37,439 | 0.0578 | 0.0026 |
| Barges for ESP | 8,138 | 0.19 | 756 | 0.0012 | 0.0001 |
| **Sub-total** | **411,133** | **9.4** | **38,195** | **0.06** | **0.003** |
| **Scour Control** | | | | | |
| WTG scour control mats | 85,529 | 1.96 | 7,946 | 0.012 | 0.00054 |
| Anchoring to Install WTG Scour Mats | 17,681 | 0.4 | 1,642.62 | 0.0024 | 0.00011 |
| ESP scour control mats | 4,871 | 0.1 | 452.51 | 0.0007 | 0.00003 |
| Anchoring to Install ESP Scour Mats | 1,001 | 0.0 | 92.98 | 0.0001 | 0.00001 |
| **WTG Rock Armoring** | **381,216** | **8.75** | **35,417** | **.056** | **0.0025** |
| **Barge for Installing WTG Rock Armoring** | **2,289** | **0.05** | **212.7** | **0.0003** | **0.00001** |
| **Sub-total** | **492,595** | **11** | **45,764** | **0.071** | **0.003** |
| **Total Impacts Outside the 3-mile Limit** | 29,910,336 | **686** | **2,778,761** | **4.27** | **0.196** |

| All Rock Armor Scenario | Area of Impact (square feet) | Area of Impact (acres) | Area of Impact (square meters) | Percent of Project Area* | Percent of Nantucket Sound** |
|---|---|---|---|---|---|
| **OUTSIDE 3-MILE LIMIT - FEDERAL WATERS** | | | | | |
| Inner-array cables (66.7 miles) | | | | | |
| Inner array cables | 2,113,056 | 48.51 | 196,309 | 0.303 | 0.0135 |
| Pontoon impacts | 2,113,056 | 48.51 | 196,309 | 0.303 | 0.0135 |
| Anchoring to install cables | 227,781 | 5.23 | 21,162 | 0.033 | 0.0015 |
| Anchor line sweep for installation | 20,802,396 | 477.56 | 1,932,606 | 2.985 | 0.1332 |
| Barge to hold Cables | 1,260 | 0.03 | 117 | 0.00018 | 0.000008 |
| **Sub-total** | **25,257,549** | **580** | **2,346,503** | **3.6** | **0.16** |
| **Submarine cable system (4.9 miles)** | | | | | |
| 115kV submarine cable system | 310,464 | 7.13 | 28,843.1 | 0.045 | 0.002 |
| Pontoon impacts | 310,464 | 7.13 | 28,843.1 | 0.045 | 0.002 |
| Anchoring to install cable system | 71,707 | 1.65 | 6,661.8 | 0.010 | 0.00054 |
| Anchor line sweep for installation | 3,056,424 | 70.17 | 283,951.1 | 0.439 | 0.02232 |
| **Sub-total** | **3,749,059** | **86** | **348,299** | **0.54** | **0.03** |
| Construction of WTGs and ESP | | | | | |
| Jack-up Barges for WTGs | 402,995 | 9.25 | 37,439 | 0.0578 | 0.0026 |
| Barges for ESP | 8,138 | 0.19 | 756 | 0.0012 | 0.0001 |
| **Sub-total** | **411,133** | **9.4** | **38,195** | **0.06** | **0.003** |
| **Rock Armoring** | | | | | |
| WTG Rock Armoring | 2,064,964 | 47.41 | 191841.44 | 0.2963 | 0.01323 |
| Barge for Installing WTG Rock Armoring | 402,995 | 9.25 | 37439.44 | 0.0578 | 0.00258 |
| ESP Rock Armoring | 17,664 | 0.41 | 1641.04 | 0.0025 | 0.00011 |
| Barge for Installing ESP Rock Armoring | 12,400 | 0.28 | 1151.98 | 0.0018 | 0.00008 |
| **Sub-total** | **2,498,023** | **57** | **232,074** | **0.4** | **0.02** |
| **Total Impacts Outside the 3-mile Limit** | **31,915,763** | **733** | **2,965,071** | **4.6** | **0.21** |

**Table 5.3.2-3**

**Summary of Maximum Anticipated Impacts to Benthic Habitat-Proposed Action**

| Current Scour Protection Scenario | Area of Impact (square feet) | Area of Impact (acres) | Area of Impact (square meters) | Percent of Project Area* | Percent of Nantucket Sound** |
|---|---|---|---|---|---|
| **INSIDE 3-MILE LIMIT - STATE WATERS** | | | | | |
| Submarine cable system (7.6 miles) | | | | | |
| 115kV submarine cable system | 481,536 | 11.05 | 44,736 | 0.0691 | 0.0031 |
| Pontoon impacts | 481,536 | 11.05 | 44,736 | 0.0691 | 0.0031 |
| Anchoring to install cable | 111,218 | 2.55 | 10,333 | 0.0160 | 0.0007 |
| Anchor line sweep for installation | 4,740,576 | 108.83 | 440,414 | 0.6802 | 0.0304 |
| Sub-total | 5,814,866 | 133 | 540,219 | 0.83 | 0.037 |
| HDD Operation | | | | | |
| Pre-excavation pit for HDD | 2,925 | 0.067 | 272 | 0.0004 | 0.00002 |
| Barges for HDD Operation | 2,513 | 0.058 | 233 | 0.0004 | 0.00002 |
| **Sub-total** | **5,438** | **0.12** | **505** | **0.0008** | **0.00003** |
| **Total Impacts Inside the 3-mile Limit** | **5,820,304** | **134** | **540,724** | **0.84** | **0.037** |
| **TOTAL CABLE/SCOUR PROTECTION IMPACTS** | **35,730,340** | **820** | **3,319,485** | **5.1** | **0.23** |
| **Monopile Impacts** | | | | | |
| WTG and ESP pilings | | | | | |
| 111 WTGs (16.75' diameter pile) (0-39 feet) | 24,459 | 0.56 | 2272.30 | 0.0035 | 0.0002 |
| 19 WTGs (18.0' diameter pile) (40-> feet) | 4,835 | 0.11 | 449.18 | 0.0007 | 0.00003 |
| 6 ESP Piles | 58 | 0.0013 | 5.3512 | 0.00001 | 0.0000004 |
| | | | | | |
| **Total Pile Impacts** | **29,351** | **0.67** | **2727** | **0.0042** | **0.0002** |
| | | | | | |
| **TOTAL FOR ALL IMPACTS** | **35,759,991** | **821** | **3,322,212** | **5.1** | **0.23** |

*Project Area ≅ 25 square miles (~65 $km^2$)
**Area of Nantucket Sound ≅ 560 square miles (1,450 $km^2$)

| All Rock Armor Scenario | Area of Impact (square feet) | Area of Impact (acres) | Area of Impact (square meters) | Percent of Project Area* | Percent of Nantucket Sound** |
|---|---|---|---|---|---|
| **INSIDE 3-MILE LIMIT - STATE WATERS** | | | | | |
| Submarine cable system (7.6 miles) | | | | | |
| 115kV submarine cable system | 481,536 | 11.05 | 44,736 | 0.0691 | 0.0031 |
| Pontoon impacts | 481,536 | 11.05 | 44,736 | 0.0691 | 0.0031 |
| Anchoring to install cable | 111,218 | 2.55 | 10,333 | 0.0160 | 0.0007 |
| Anchor line sweep for installation | 4,740,576 | 108.83 | 440,414 | 0.6802 | 0.0304 |
| Sub-total | 5,814,866 | 133 | 540,219 | 0.83 | 0.037 |
| HDD Operation | | | | | |
| Pre-excavation pit for HDD | 2,925 | 0.067 | 272 | 0.0004 | 0.00002 |
| Barges for HDD Operation | 2,513 | 0.058 | 233 | 0.0004 | 0.00002 |
| **Sub-total** | **5,438** | **0.12** | **505** | **0.0008** | **0.00003** |
| **Total Impacts Inside the 3-mile Limit** | **5,820,304** | **134** | **540,724** | **0.84** | **0.037** |
| **TOTAL CABLE/SCOUR PROTECTION IMPACTS** | **37,736,067** | **866** | **3,505,795** | **5.4** | **0.24** |
| **Monopile Impacts** | | | | | |
| WTG and ESP pilings | | | | | |
| 111 WTGs (16.75' diameter pile) (0-39 feet) | 24,459 | 0.56 | 2272.30 | 0.0035 | 0.0002 |
| 19 WTGs (18.0' diameter pile) (40-> feet) | 4,835 | 0.11 | 449.18 | 0.0007 | 0.00003 |
| 6 ESP Piles | 58 | 0.0013 | 5.3512 | 0.00001 | 0.0000004 |
| | | | | | |
| **Total Pile Impacts** | **29,351** | **0.67** | **2,727** | **0.0042** | **0.0002** |
| | | | | | |
| **TOTAL FOR ALL IMPACTS** | **37,765,418** | **867** | **3,508,522** | **5.4** | **0.24** |

*Project Area ≅ 25 square miles (~65 $km^2$)
**Area of Nantucket Sound ≅ 560 square miles (1,450 $km^2$)