

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vd

| Sampling Date | Tide | Station | Time | Depth | Depth (m) | Current Direction | Current Velocity (m/s) | Water Temp (°C) | Salinity (ppt) | D.O. Saturation (%) | D.O. (mg/L) | Turbidity (NTU) | pH | SS (mg/L) |
|---------------|------|---------|----------|-------|-----------|-------------------|------------------------|-----------------|----------------|---------------------|-------------|-----------------|------|-----------|
| 2015/10/12 | ME | MW1 | 0.462766 | B | 18.9 | 241.9 | 0.25 | 27.54 | 30.99 | 79.86 | 5.3 | 7.37 | 7.85 | 8.0 |
| 2015/10/12 | ME | MW1 | 0.463229 | M | 10.7 | 76.1 | 0.42 | 27.51 | 30.95 | 79.75 | 5.3 | 6.97 | 7.87 | 10.3 |
| 2015/10/12 | ME | MW1 | 0.463715 | T | 1.1 | 80.5 | 0.41 | 27.48 | 30.86 | 80.34 | 5.34 | 6.47 | 7.89 | 12.2 |
| 2015/10/12 | ME | MW1 | 0.464421 | B | 18.8 | 168.9 | 0.26 | 27.53 | 30.96 | 79.04 | 5.25 | 7.47 | 7.9 | 8.4 |
| 2015/10/12 | ME | MW1 | 0.464942 | M | 10.6 | 98.1 | 0.33 | 27.51 | 30.93 | 79.43 | 5.28 | 7.57 | 7.91 | 10.6 |
| 2015/10/12 | ME | MW1 | 0.465463 | T | 1.1 | 98.2 | 0.69 | 27.49 | 30.85 | 80.12 | 5.33 | 6.37 | 7.92 | 11.9 |
| 2015/10/12 | ME | DS1 | 0.517292 | B | 5.9 | 106.1 | 0.82 | 26.99 | 28.98 | 79.58 | 5.39 | 24.43 | 7.92 | 34.8 |
| 2015/10/12 | ME | DS1 | 0.517627 | M | 4.3 | 103.8 | 1 | 26.86 | 28.81 | 80.46 | 5.47 | 20.94 | 7.93 | 41.5 |
| 2015/10/12 | ME | DS1 | 0.517975 | T | 1 | 140.7 | 0.82 | 26.55 | 28.29 | 83.43 | 5.72 | 8.76 | 7.95 | 9.4 |
| 2015/10/12 | ME | DS1 | 0.518426 | B | 5.8 | 110.9 | 0.97 | 26.91 | 28.88 | 81.05 | 5.5 | 22.54 | 7.93 | 33.2 |
| 2015/10/12 | ME | DS1 | 0.518715 | M | 4 | 146.2 | 0.72 | 26.73 | 28.58 | 81.74 | 5.57 | 15.05 | 7.94 | 39.4 |
| 2015/10/12 | ME | DS1 | 0.519005 | T | 1.1 | 130.9 | 0.99 | 26.5 | 28.28 | 84.5 | 5.79 | 7.47 | 7.95 | 9.9 |
| 2015/10/12 | ME | DS2 | 0.522234 | B | 6.2 | 89.8 | 0.7 | 27.13 | 29.15 | 85.05 | 5.74 | 13.85 | 7.89 | 41.5 |
| 2015/10/12 | ME | DS2 | 0.522488 | M | 3.9 | 111.5 | 0.73 | 27.09 | 29.05 | 80.6 | 5.45 | 14.05 | 7.89 | 11.6 |
| 2015/10/12 | ME | DS2 | 0.522836 | T | 1.2 | 92.2 | 0.58 | 26.95 | 28.71 | 80.79 | 5.49 | 10.26 | 7.9 | 16.6 |
| 2015/10/12 | ME | DS2 | 0.523194 | B | 6.1 | 178 | 0.32 | 27.14 | 29.18 | 79.01 | 5.33 | 16.55 | 7.9 | 43.3 |
| 2015/10/12 | ME | DS2 | 0.523461 | M | 4.2 | 139.4 | 0.45 | 27.1 | 29.08 | 78.81 | 5.33 | 15.25 | 7.9 | 11.1 |
| 2015/10/12 | ME | DS2 | 0.523715 | T | 1.2 | 99 | 0.95 | 26.9 | 28.64 | 79.99 | 5.44 | 10.96 | 7.91 | 16.5 |
| 2015/10/12 | ME | DS3 | 0.526829 | B | 5.6 | 102.1 | 0.79 | 26.95 | 28.68 | 86.48 | 5.87 | 7.57 | 7.89 | 10.4 |
| 2015/10/12 | ME | DS3 | 0.527072 | M | 3.7 | 86.5 | 0.52 | 26.92 | 28.59 | 82.22 | 5.59 | 7.76 | 7.89 | 10.1 |
| 2015/10/12 | ME | DS3 | 0.527431 | T | 1.3 | 89.1 | 0.74 | 26.89 | 28.54 | 81.63 | 5.55 | 7.57 | 7.9 | 14.1 |
| 2015/10/12 | ME | DS3 | 0.527778 | B | 5.8 | 107.3 | 0.64 | 27.01 | 28.88 | 80.44 | 5.45 | 8.96 | 7.9 | 11.0 |
| 2015/10/12 | ME | DS3 | 0.528102 | M | 3.8 | 61.7 | 0.74 | 26.95 | 28.64 | 79.74 | 5.42 | 8.16 | 7.9 | 9.7 |
| 2015/10/12 | ME | DS3 | 0.528461 | T | 1.1 | 95.7 | 0.87 | 26.93 | 28.6 | 80.33 | 5.46 | 7.86 | 7.9 | 13.2 |
| 2015/10/12 | ME | DS4 | 0.531817 | B | 6 | 95.8 | 0.48 | 26.85 | 28.61 | 87.1 | 5.93 | 7.27 | 7.89 | 9.5 |
| 2015/10/12 | ME | DS4 | 0.532269 | M | 3.5 | 89.3 | 0.77 | 26.75 | 28.37 | 83.44 | 5.69 | 6.57 | 7.9 | 8.1 |
| 2015/10/12 | ME | DS4 | 0.532593 | T | 0.9 | 97.4 | 0.73 | 26.68 | 28.24 | 84.03 | 5.75 | 6.17 | 7.9 | 8.2 |
| 2015/10/12 | ME | DS4 | 0.53294 | B | 6.2 | 85.5 | 0.68 | 26.92 | 28.76 | 82.25 | 5.58 | 10.16 | 7.9 | 10.0 |
| 2015/10/12 | ME | DS4 | 0.533206 | M | 3.5 | 95.7 | 0.69 | 26.75 | 28.37 | 82.05 | 5.6 | 7.67 | 7.89 | 8.0 |
| 2015/10/12 | ME | DS4 | 0.533542 | T | 0.9 | 112.8 | 0.9 | 26.69 | 28.21 | 83.33 | 5.7 | 6.27 | 7.9 | 7.9 |
| 2015/10/12 | ME | DS5 | 0.536806 | B | 7.5 | 125.9 | 0.53 | 27.19 | 29.35 | 83.28 | 5.61 | 10.76 | 7.88 | 24.3 |
| 2015/10/12 | ME | DS5 | 0.537153 | M | 5.1 | 113 | 0.63 | 26.92 | 28.65 | 80.71 | 5.48 | 7.07 | 7.88 | 8.8 |
| 2015/10/12 | ME | DS5 | 0.537488 | T | 1.1 | 105 | 0.66 | 26.75 | 28.26 | 82.39 | 5.63 | 6.17 | 7.89 | 7.1 |
| 2015/10/12 | ME | DS5 | 0.53787 | B | 7.9 | 127.1 | 0.79 | 27.18 | 29.31 | 79.72 | 5.37 | 10.66 | 7.88 | 25.1 |
| 2015/10/12 | ME | DS5 | 0.538252 | M | 5.1 | 93.8 | 0.84 | 26.84 | 28.53 | 80.4 | 5.47 | 7.27 | 7.89 | 8.8 |
| 2015/10/12 | ME | DS5 | 0.538588 | T | 1.1 | 109.8 | 0.69 | 26.77 | 28.28 | 81.78 | 5.58 | 6.17 | 7.9 | 7.0 |
| 2015/10/12 | ME | US1 | 0.548264 | B | 7.8 | 358.5 | 0.15 | 26.7 | 29.13 | 88.26 | 6 | 69.34 | 7.92 | 43.7 |
| 2015/10/12 | ME | US1 | 0.548565 | M | 4.4 | 143.8 | 0.46 | 26.65 | 28.87 | 85.5 | 5.83 | 48.48 | 7.92 | 10.2 |
| 2015/10/12 | ME | US1 | 0.54919 | T | 1.1 | 100.5 | 0.5 | 26.56 | 28.18 | 85.49 | 5.86 | 8.56 | 7.91 | 15.2 |
| 2015/10/12 | ME | US1 | 0.549838 | B | 8.1 | 36.5 | 0.23 | 26.71 | 29.21 | 83.71 | 5.69 | 79.32 | 7.92 | 41.0 |
| 2015/10/12 | ME | US1 | 0.550231 | B | 8.3 | 120 | 0.33 | 26.7 | 29.29 | 83.5 | 5.67 | 87.11 | 7.92 | - |
| 2015/10/12 | ME | US1 | 0.550729 | M | 5.3 | 118.8 | 0.44 | 26.69 | 29.02 | 83.5 | 5.68 | 43.99 | 7.92 | 9.9 |
| 2015/10/12 | ME | US1 | 0.551065 | M | 4.7 | 81.7 | 0.7 | 26.7 | 29.07 | 83.4 | 5.67 | 45.19 | 7.92 | 0.0 |
| 2015/10/12 | ME | US1 | 0.551516 | T | 1.1 | 120.4 | 1.09 | 26.59 | 27.93 | 84.57 | 5.8 | 9.26 | 7.9 | 15.6 |
| 2015/10/12 | ME | US2 | 0.554549 | B | 7.2 | 125.7 | 0.6 | 26.71 | 29.29 | 88.57 | 6.02 | 26.83 | 7.91 | 36.0 |
| 2015/10/12 | ME | US2 | 0.554988 | M | 4.2 | 113.4 | 0.64 | 26.64 | 28.8 | 84.92 | 5.79 | 19.74 | 7.9 | 18.2 |
| 2015/10/12 | ME | US2 | 0.555532 | T | 1.3 | 109.7 | 0.87 | 26.6 | 27.74 | 84.42 | 5.8 | 6.47 | 7.88 | 8.1 |
| 2015/10/12 | ME | US2 | 0.556019 | B | 6.8 | 102 | 0.68 | 26.67 | 29.16 | 84.02 | 5.72 | 26.43 | 7.92 | 34.3 |
| 2015/10/12 | ME | US2 | 0.556343 | M | 4.6 | 99.2 | 0.75 | 26.63 | 28.64 | 84.11 | 5.74 | 19.04 | 7.91 | 17.3 |
| 2015/10/12 | ME | US2 | 0.556782 | T | 0.9 | 124 | 0.65 | 26.59 | 27.61 | 84.5 | 5.81 | 6.47 | 7.88 | 8.1 |
| 2015/10/12 | MF | DS1 | 0.734676 | B | 5.8 | 287.2 | 0.51 | 26.75 | 28.63 | 86.05 | 5.86 | 9.66 | 7.87 | 12.0 |
| 2015/10/12 | MF | DS1 | 0.735116 | M | 3.9 | 238.9 | 0.4 | 26.77 | 28.42 | 84.25 | 5.75 | 5.97 | 7.86 | 8.4 |
| 2015/10/12 | MF | DS1 | 0.735498 | T | 1 | 257.2 | 0.45 | 26.78 | 28.46 | 83.96 | 5.72 | 5.77 | 7.86 | 8.4 |
| 2015/10/12 | MF | DS1 | 0.735914 | B | 6.1 | 281.2 | 0.79 | 26.73 | 28.53 | 83.96 | 5.73 | 7.86 | 7.87 | 11.4 |
| 2015/10/12 | MF | DS1 | 0.736273 | M | 4 | 297.3 | 0.74 | 26.76 | 28.46 | 83.86 | 5.72 | 6.47 | 7.87 | 8.3 |
| 2015/10/12 | MF | DS1 | 0.736794 | T | 1 | 281.6 | 0.51 | 26.73 | 28.51 | 84.17 | 5.74 | 7.96 | 7.87 | 8.1 |
| 2015/10/12 | MF | DS2 | 0.740197 | B | 5.8 | 261.4 | 0.92 | 26.73 | 28.68 | 84.79 | 5.78 | 32.22 | 7.88 | 20.9 |
| 2015/10/12 | MF | DS2 | 0.740463 | B | 5.8 | 246.6 | 0.74 | 26.73 | 28.68 | 84.39 | 5.75 | 23.83 | 7.88 | 0.0 |

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| | | | | | | | | | | | | | | |
|------------|----|-----|----------|---|------|-------|------|-------|-------|-------|------|-------|------|------|
| 2015/10/12 | MF | DS2 | 0.740833 | M | 4.2 | 270 | 0.73 | 26.73 | 28.68 | 84.3 | 5.75 | 15.75 | 7.88 | 23.8 |
| 2015/10/12 | MF | DS2 | 0.741215 | T | 1.3 | 281.2 | 0.72 | 26.77 | 28.47 | 84 | 5.73 | 7.57 | 7.87 | 7.6 |
| 2015/10/12 | MF | DS2 | 0.741979 | B | 5.8 | 289.3 | 0.4 | 26.74 | 28.7 | 83.8 | 5.71 | 19.74 | 7.89 | 21.7 |
| 2015/10/12 | MF | DS2 | 0.742419 | M | 4.1 | 275.6 | 0.82 | 26.75 | 28.67 | 83.81 | 5.71 | 15.55 | 7.88 | 24.5 |
| 2015/10/12 | MF | DS2 | 0.742882 | T | 0.9 | 277.6 | 1.31 | 26.76 | 28.45 | 83.71 | 5.71 | 6.57 | 7.87 | 7.9 |
| 2015/10/12 | MF | DS3 | 0.747176 | B | 17.4 | 298.6 | 0.42 | 26.78 | 28.68 | 83.44 | 5.68 | 20.64 | 7.87 | 25.8 |
| 2015/10/12 | MF | DS3 | 0.747743 | M | 10.1 | 291.8 | 0.24 | 26.75 | 28.51 | 83.64 | 5.7 | 16.55 | 7.87 | 30.0 |
| 2015/10/12 | MF | DS3 | 0.748345 | T | 0.9 | 88.1 | 0.25 | 26.72 | 28.42 | 84.25 | 5.75 | 9.46 | 7.87 | 19.2 |
| 2015/10/12 | MF | DS3 | 0.749306 | B | 17.4 | 314.2 | 0.31 | 26.75 | 28.54 | 83.15 | 5.67 | 19.44 | 7.87 | 25.6 |
| 2015/10/12 | MF | DS3 | 0.74985 | M | 9.9 | 278.1 | 0.48 | 26.75 | 28.52 | 83.46 | 5.69 | 17.65 | 7.87 | 30.1 |
| 2015/10/12 | MF | DS3 | 0.75037 | T | 1 | 307.5 | 0.41 | 26.74 | 28.49 | 84.06 | 5.73 | 14.75 | 7.87 | 18.1 |
| 2015/10/12 | MF | DS4 | 0.753773 | B | 22.9 | 262.1 | 0.4 | 26.82 | 28.72 | 82.89 | 5.64 | 19.94 | 7.87 | 30.6 |
| 2015/10/12 | MF | DS4 | 0.754306 | M | 12.5 | 319.3 | 0.42 | 26.82 | 28.54 | 82.99 | 5.65 | 17.35 | 7.87 | 17.7 |
| 2015/10/12 | MF | DS4 | 0.754884 | T | 1.3 | 302 | 0.48 | 26.78 | 28.3 | 83.8 | 5.72 | 10.56 | 7.87 | 12.8 |
| 2015/10/12 | MF | DS4 | 0.755706 | B | 22.9 | 252.5 | 0.26 | 26.81 | 28.72 | 82.3 | 5.6 | 20.64 | 7.88 | 31.3 |
| 2015/10/12 | MF | DS4 | 0.756273 | M | 12.4 | 164.5 | 0.13 | 26.77 | 28.46 | 83.2 | 5.67 | 16.55 | 7.87 | 18.9 |
| 2015/10/12 | MF | DS4 | 0.756933 | T | 1.3 | 278.6 | 0.28 | 26.75 | 28.43 | 83.91 | 5.72 | 12.26 | 7.87 | 12.5 |
| 2015/10/12 | MF | DS5 | 0.76037 | B | 6.5 | 300.2 | 0.34 | 26.91 | 28.61 | 84.44 | 5.74 | 24.13 | 7.86 | 31.3 |
| 2015/10/12 | MF | DS5 | 0.760718 | M | 4.4 | 295.6 | 0.53 | 26.91 | 28.47 | 83.04 | 5.65 | 18.34 | 7.86 | 22.8 |
| 2015/10/12 | MF | DS5 | 0.7611 | T | 1.1 | 266.2 | 0.68 | 26.84 | 28.06 | 83.54 | 5.7 | 8.96 | 7.85 | 12.3 |
| 2015/10/12 | MF | DS5 | 0.761574 | B | 6.6 | 256.9 | 0.39 | 26.9 | 28.58 | 82.64 | 5.62 | 25.83 | 7.87 | 33.2 |
| 2015/10/12 | MF | DS5 | 0.761863 | M | 4.7 | 288 | 0.41 | 26.9 | 28.45 | 82.54 | 5.62 | 19.14 | 7.87 | 24.0 |
| 2015/10/12 | MF | DS5 | 0.762269 | T | 1.3 | 297.5 | 0.67 | 26.85 | 28.17 | 83.25 | 5.68 | 9.36 | 7.86 | 12.8 |
| 2015/10/12 | MF | US1 | 0.774421 | B | 7.2 | 287.6 | 0.98 | 26.89 | 29.07 | 82.43 | 5.59 | 58.36 | 7.86 | 21.2 |
| 2015/10/12 | MF | US1 | 0.774699 | B | 7.6 | 292.5 | 0.54 | 26.89 | 29.07 | 82.33 | 5.58 | 69.64 | 7.86 | 0.0 |
| 2015/10/12 | MF | US1 | 0.77515 | M | 4.4 | 273.7 | 0.81 | 26.83 | 28.94 | 83.04 | 5.64 | 30.92 | 7.87 | 18.7 |
| 2015/10/12 | MF | US1 | 0.77544 | M | 5.2 | 288.4 | 0.78 | 26.82 | 28.93 | 83.24 | 5.66 | 24.03 | 7.87 | 0.0 |
| 2015/10/12 | MF | US1 | 0.775868 | T | 1.5 | 302 | 0.87 | 26.8 | 28.92 | 83.75 | 5.69 | 16.05 | 7.87 | 21.6 |
| 2015/10/12 | MF | US1 | 0.776505 | B | 7.9 | 283.7 | 0.8 | 26.84 | 28.96 | 82.95 | 5.63 | 52.28 | 7.87 | 20.6 |
| 2015/10/12 | MF | US1 | 0.776771 | B | 7.7 | 286.3 | 0.8 | 26.83 | 28.94 | 82.95 | 5.64 | 54.57 | 7.87 | 0.0 |
| 2015/10/12 | MF | US1 | 0.777153 | M | 5.8 | 274.1 | 0.94 | 26.8 | 28.88 | 83.35 | 5.67 | 24.33 | 7.87 | 18.0 |
| 2015/10/12 | MF | US1 | 0.777697 | T | 0.9 | 302.9 | 0.84 | 26.67 | 28.59 | 84.46 | 5.77 | 10.76 | 7.87 | 21.4 |
| 2015/10/12 | MF | US2 | 0.780579 | B | 6.6 | 323.8 | 0.26 | 26.81 | 28.81 | 84.59 | 5.75 | 26.83 | 7.86 | 29.0 |
| 2015/10/12 | MF | US2 | 0.7811 | M | 4 | 269.4 | 0.58 | 26.79 | 28.78 | 83.58 | 5.69 | 27.72 | 7.86 | 31.0 |
| 2015/10/12 | MF | US2 | 0.781516 | T | 0.8 | 338 | 0.4 | 26.77 | 28.79 | 83.59 | 5.69 | 24.13 | 7.86 | 45.4 |
| 2015/10/12 | MF | US2 | 0.782164 | B | 6 | 273.3 | 0.56 | 26.89 | 29.02 | 82.39 | 5.59 | 29.32 | 7.86 | 29.1 |
| 2015/10/12 | MF | US2 | 0.782419 | B | 5.9 | 245.2 | 0.7 | 26.9 | 29.03 | 82.29 | 5.58 | 28.52 | 7.86 | 0.0 |
| 2015/10/12 | MF | US2 | 0.782778 | M | 4 | 225 | 0.38 | 26.89 | 29.01 | 82.39 | 5.59 | 26.53 | 7.86 | 30.7 |