

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vc

| 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) |
|---------------|------|---------|-------|-------|-----------|-------------------|------------------------|-----------------|----------------|---------------------|-------------|-----------------|------|-----------|
| 2022/03/25 | ME | US1 | 17:12 | B | 10.0 | 110.0 | 0.58 | 20.60 | 28.76 | 94.41 | 7.17 | 2.92 | 8.01 | 8.8 |
| 2022/03/25 | ME | US1 | 17:13 | M | 5.9 | 111.8 | 0.83 | 20.67 | 28.44 | 94.41 | 7.17 | 2.12 | 8.02 | 4.5 |
| 2022/03/25 | ME | US1 | 17:13 | T | 1.0 | 115.0 | 0.97 | 21.02 | 27.12 | 96.82 | 7.36 | 2.32 | 8.05 | 4.6 |
| 2022/03/25 | ME | US1 | 17:14 | B | 9.7 | 146.2 | 0.64 | 20.71 | 28.78 | 95.12 | 7.20 | 2.72 | 8.02 | 9.2 |
| 2022/03/25 | ME | US1 | 17:15 | M | 6.2 | 109.2 | 0.68 | 20.64 | 28.54 | 94.72 | 7.19 | 2.02 | 8.03 | 4.5 |
| 2022/03/25 | ME | US1 | 17:15 | T | 1.1 | 156.1 | 0.25 | 20.98 | 27.17 | 97.22 | 7.40 | 2.12 | 8.05 | 4.5 |
| 2022/03/25 | ME | US2 | 17:21 | B | 8.8 | 77.3 | 0.48 | 20.51 | 28.95 | 93.33 | 7.09 | 4.82 | 8.00 | 7.6 |
| 2022/03/25 | ME | US2 | 17:22 | M | 5.5 | 139.8 | 0.61 | 20.60 | 28.61 | 93.53 | 7.10 | 2.22 | 8.01 | 4.5 |
| 2022/03/25 | ME | US2 | 17:22 | T | 1.1 | 132.6 | 0.85 | 20.91 | 27.34 | 95.73 | 7.28 | 2.12 | 8.04 | 3.1 |
| 2022/03/25 | ME | US2 | 17:23 | B | 9.2 | 147.6 | 0.51 | 20.52 | 28.93 | 93.93 | 7.13 | 3.92 | 8.02 | 7.6 |
| 2022/03/25 | ME | US2 | 17:24 | M | 5.8 | 126.1 | 0.62 | 20.61 | 28.55 | 93.93 | 7.14 | 2.22 | 8.02 | 4.5 |
| 2022/03/25 | ME | US2 | 17:24 | T | 1.0 | 110.8 | 0.86 | 20.98 | 27.15 | 96.44 | 7.34 | 2.12 | 8.05 | 3.0 |
| 2022/03/25 | ME | DS1 | 17:31 | B | 11.0 | 270.9 | 0.13 | 20.38 | 29.36 | 92.24 | 7.00 | 9.91 | 7.99 | 15.7 |
| 2022/03/25 | ME | DS1 | 17:32 | M | 6.5 | 142.6 | 0.86 | 20.62 | 28.65 | 92.94 | 7.06 | 3.32 | 8.00 | 8.4 |
| 2022/03/25 | ME | DS1 | 17:32 | T | 1.2 | 150.1 | 0.29 | 20.93 | 27.44 | 95.55 | 7.26 | 2.12 | 8.02 | 5.0 |
| 2022/03/25 | ME | DS1 | 17:33 | B | 10.8 | 11.9 | 0.49 | 20.36 | 29.39 | 92.45 | 7.02 | 7.31 | 8.00 | 15.5 |
| 2022/03/25 | ME | DS1 | 17:34 | M | 6.6 | 132.8 | 0.45 | 20.61 | 28.71 | 92.75 | 7.04 | 2.92 | 8.01 | 8.7 |
| 2022/03/25 | ME | DS1 | 17:34 | T | 1.1 | 150.1 | 0.29 | 20.93 | 27.34 | 95.45 | 7.26 | 2.92 | 8.04 | 5.1 |
| 2022/03/25 | ME | DS2 | 17:38 | B | 10.1 | 212.7 | 0.33 | 20.41 | 29.25 | 93.36 | 7.09 | 5.71 | 7.99 | 12.3 |
| 2022/03/25 | ME | DS2 | 17:39 | M | 6.2 | 172.5 | 0.62 | 20.64 | 28.55 | 92.96 | 7.06 | 2.52 | 8.00 | 5.5 |
| 2022/03/25 | ME | DS2 | 17:39 | T | 0.9 | 110.7 | 0.73 | 21.00 | 27.28 | 96.36 | 7.32 | 2.22 | 8.03 | 7.7 |
| 2022/03/25 | ME | DS2 | 17:40 | B | 9.8 | 97.4 | 0.48 | 20.41 | 29.23 | 93.06 | 7.07 | 5.81 | 8.00 | 12.4 |
| 2022/03/25 | ME | DS2 | 17:40 | M | 5.9 | 123.6 | 0.84 | 20.65 | 28.52 | 93.46 | 7.10 | 2.32 | 8.01 | 5.3 |
| 2022/03/25 | ME | DS2 | 17:41 | T | 1.2 | 100.8 | 0.98 | 21.01 | 27.19 | 96.17 | 7.31 | 1.92 | 8.04 | 7.5 |
| 2022/03/25 | ME | DS3 | 17:45 | B | 15.0 | 200.7 | 0.40 | 20.39 | 29.29 | 92.27 | 7.01 | 5.21 | 8.00 | 11.5 |
| 2022/03/25 | ME | DS3 | 17:45 | M | 8.4 | 75.0 | 0.72 | 20.54 | 28.87 | 92.37 | 7.01 | 3.32 | 8.01 | 5.4 |
| 2022/03/25 | ME | DS3 | 17:46 | T | 0.9 | 108.4 | 1.24 | 20.99 | 27.23 | 95.37 | 7.25 | 2.02 | 8.04 | 5.9 |
| 2022/03/25 | ME | DS3 | 17:50 | B | 15.1 | 56.8 | 0.46 | 20.45 | 29.10 | 92.78 | 7.05 | 5.81 | 8.00 | 12.0 |
| 2022/03/25 | ME | DS3 | 17:51 | M | 8.4 | 94.8 | 0.88 | 20.55 | 28.81 | 92.58 | 7.03 | 3.32 | 8.00 | 5.6 |
| 2022/03/25 | ME | DS3 | 17:51 | T | 0.9 | 110.9 | 0.59 | 21.01 | 27.13 | 95.98 | 7.30 | 2.02 | 8.03 | 5.7 |
| 2022/03/25 | ME | DS4 | 17:55 | B | 9.8 | 55.7 | 0.45 | 20.56 | 28.84 | 94.09 | 7.14 | 4.52 | 8.00 | 8.4 |
| 2022/03/25 | ME | DS4 | 17:56 | M | 6.0 | 61.1 | 0.73 | 20.61 | 28.66 | 93.09 | 7.07 | 3.22 | 8.00 | 7.4 |
| 2022/03/25 | ME | DS4 | 17:56 | T | 1.1 | 32.7 | 0.87 | 21.00 | 27.25 | 95.79 | 7.28 | 2.12 | 8.03 | 4.0 |
| 2022/03/25 | ME | DS4 | 17:57 | B | 10.1 | 120.0 | 0.29 | 20.56 | 28.82 | 93.89 | 7.13 | 5.31 | 8.01 | 8.5 |
| 2022/03/25 | ME | DS4 | 17:57 | M | 5.9 | 117.8 | 0.84 | 20.58 | 28.75 | 92.99 | 7.06 | 4.02 | 8.01 | 7.3 |
| 2022/03/25 | ME | DS4 | 17:58 | T | 1.1 | 106.0 | 0.91 | 21.02 | 27.17 | 92.49 | 7.03 | 4.02 | 8.04 | 4.0 |
| 2022/03/25 | ME | DS5 | 18:01 | B | 9.9 | 99.5 | 0.47 | 20.58 | 28.80 | 93.90 | 7.13 | 5.31 | 8.00 | 7.4 |
| 2022/03/25 | ME | DS5 | 18:02 | M | 6.1 | 96.5 | 0.94 | 20.67 | 28.53 | 93.50 | 7.10 | 3.52 | 8.01 | 9.4 |
| 2022/03/25 | ME | DS5 | 18:02 | T | 1.1 | 97.3 | 1.07 | 21.02 | 27.25 | 95.50 | 7.26 | 2.02 | 8.03 | 3.9 |
| 2022/03/25 | ME | DS5 | 18:03 | B | 10.1 | 74.9 | 0.70 | 20.59 | 28.75 | 94.30 | 7.16 | 5.31 | 8.01 | 7.5 |
| 2022/03/25 | ME | DS5 | 18:04 | M | 6.2 | 86.4 | 0.85 | 20.69 | 28.46 | 93.30 | 7.08 | 3.32 | 8.01 | 8.9 |
| 2022/03/25 | ME | DS5 | 18:04 | T | 1.1 | 111.5 | 0.70 | 20.99 | 27.26 | 96.01 | 7.30 | 2.12 | 8.04 | 4.1 |
| 2022/03/25 | ME | MW1 | 18:40 | B | 19.1 | 351.4 | 0.47 | 20.48 | 29.46 | 93.56 | 7.09 | 2.42 | 7.97 | 3.5 |
| 2022/03/25 | ME | MW1 | 18:41 | M | 10.4 | 193.7 | 0.04 | 20.53 | 29.34 | 93.46 | 7.08 | 2.32 | 7.97 | 3.0 |
| 2022/03/25 | ME | MW1 | 18:42 | T | 0.8 | 87.9 | 0.40 | 20.68 | 29.08 | 94.37 | 7.14 | 1.82 | 7.98 | 2.5 |
| 2022/03/25 | ME | MW1 | 18:43 | B | 18.9 | 42.0 | 0.15 | 20.39 | 29.70 | 93.07 | 7.05 | 2.92 | 7.98 | 3.6 |
| 2022/03/25 | ME | MW1 | 18:44 | M | 10.4 | 22.4 | 0.70 | 20.49 | 29.44 | 92.87 | 7.03 | 2.22 | 7.98 | 3.0 |
| 2022/03/25 | ME | MW1 | 18:44 | T | 0.9 | 73.0 | 0.93 | 20.66 | 29.04 | 94.47 | 7.15 | 1.82 | 7.98 | 2.5 |

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| 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) |
|---------------|------|---------|-------|-------|-----------|-------------------|------------------------|-----------------|----------------|---------------------|-------------|-----------------|------|-----------|
| 2022/03/25 | MF | MW1 | 05:02 | B | 19.0 | 102.1 | 0.50 | 20.07 | 30.59 | 91.65 | 6.95 | 2.52 | 8.00 | 5.8 |
| 2022/03/25 | MF | MW1 | 05:02 | M | 10.4 | 147.5 | 0.13 | 20.07 | 30.54 | 91.35 | 6.93 | 2.52 | 8.00 | 7.5 |
| 2022/03/25 | MF | MW1 | 05:03 | T | 1.1 | 308.0 | 0.31 | 20.15 | 30.09 | 91.76 | 6.97 | 1.62 | 8.00 | 4.3 |
| 2022/03/25 | MF | MW1 | 05:04 | B | 19.0 | 0.0 | 0.44 | 20.07 | 30.62 | 90.86 | 6.89 | 3.02 | 8.00 | 5.5 |
| 2022/03/25 | MF | MW1 | 05:05 | M | 10.5 | 332.1 | 0.04 | 20.07 | 30.55 | 91.06 | 6.91 | 3.12 | 8.01 | 6.9 |
| 2022/03/25 | MF | MW1 | 05:06 | T | 0.9 | 314.0 | 0.33 | 20.16 | 30.03 | 91.56 | 6.95 | 1.62 | 7.99 | 4.2 |
| 2022/03/25 | MF | DS1 | 06:24 | B | 8.9 | 51.8 | 0.13 | 20.51 | 28.51 | 94.49 | 7.19 | 2.32 | 8.03 | 4.8 |
| 2022/03/25 | MF | DS1 | 06:24 | M | 5.3 | 6.0 | 0.11 | 20.47 | 28.49 | 94.60 | 7.21 | 2.22 | 8.02 | 3.2 |
| 2022/03/25 | MF | DS1 | 06:25 | T | 1.0 | 189.4 | 0.76 | 20.48 | 28.44 | 94.60 | 7.21 | 2.62 | 8.02 | 6.5 |
| 2022/03/25 | MF | DS1 | 06:26 | B | 8.9 | 259.8 | 0.26 | 20.48 | 28.61 | 94.00 | 7.16 | 2.82 | 8.02 | 4.8 |
| 2022/03/25 | MF | DS1 | 06:26 | M | 5.6 | 128.4 | 0.36 | 20.50 | 28.50 | 93.90 | 7.15 | 2.22 | 8.02 | 3.1 |
| 2022/03/25 | MF | DS1 | 06:27 | T | 1.2 | 65.3 | 0.13 | 20.49 | 28.45 | 94.30 | 7.18 | 2.52 | 8.02 | 6.8 |
| 2022/03/25 | MF | DS2 | 06:32 | B | 8.9 | 203.0 | 0.35 | 20.46 | 28.90 | 93.51 | 7.11 | 6.51 | 8.01 | 13.3 |
| 2022/03/25 | MF | DS2 | 06:32 | M | 5.4 | 232.6 | 0.32 | 20.49 | 28.48 | 92.91 | 7.08 | 3.32 | 8.02 | 8.1 |
| 2022/03/25 | MF | DS2 | 06:33 | T | 1.1 | 254.2 | 0.29 | 20.51 | 28.34 | 93.72 | 7.14 | 3.02 | 8.02 | 8.8 |
| 2022/03/25 | MF | DS2 | 06:34 | B | 8.9 | 145.7 | 0.14 | 20.46 | 28.92 | 91.71 | 6.97 | 6.11 | 8.01 | 12.8 |
| 2022/03/25 | MF | DS2 | 06:34 | M | 5.6 | 9.5 | 0.39 | 20.48 | 28.59 | 91.51 | 6.97 | 3.82 | 8.02 | 7.6 |
| 2022/03/25 | MF | DS2 | 06:35 | T | 1.0 | 176.8 | 0.23 | 20.51 | 28.33 | 92.92 | 7.08 | 3.42 | 8.02 | 9.0 |
| 2022/03/25 | MF | DS3 | 06:40 | B | 8.1 | 101.4 | 0.86 | 20.48 | 28.77 | 94.44 | 7.18 | 4.12 | 8.01 | 9.1 |
| 2022/03/25 | MF | DS3 | 06:40 | M | 5.1 | 149.5 | 0.31 | 20.52 | 28.21 | 93.34 | 7.12 | 3.72 | 8.02 | 4.4 |
| 2022/03/25 | MF | DS3 | 06:41 | T | 1.0 | 83.4 | 0.35 | 20.57 | 27.51 | 94.34 | 7.22 | 3.02 | 8.01 | 6.7 |
| 2022/03/25 | MF | DS3 | 06:42 | B | 8.0 | 172.4 | 0.61 | 20.49 | 28.59 | 93.04 | 7.08 | 4.02 | 8.01 | 9.1 |
| 2022/03/25 | MF | DS3 | 06:42 | M | 5.1 | 171.1 | 0.05 | 20.52 | 28.17 | 93.34 | 7.12 | 3.52 | 8.01 | 4.3 |
| 2022/03/25 | MF | DS3 | 06:43 | T | 1.0 | 101.8 | 0.41 | 20.59 | 27.35 | 94.15 | 7.21 | 3.02 | 8.01 | 6.7 |
| 2022/03/25 | MF | DS4 | 06:48 | B | 8.0 | 351.4 | 0.26 | 20.46 | 28.96 | 94.46 | 7.18 | 4.02 | 8.01 | 10.7 |
| 2022/03/25 | MF | DS4 | 06:48 | M | 5.0 | 216.7 | 0.19 | 20.53 | 28.26 | 93.16 | 7.10 | 3.52 | 8.01 | 5.9 |
| 2022/03/25 | MF | DS4 | 06:49 | T | 1.1 | 310.5 | 0.46 | 20.59 | 27.59 | 93.87 | 7.17 | 2.72 | 8.01 | 5.5 |
| 2022/03/25 | MF | DS4 | 06:49 | B | 8.1 | 162.8 | 0.26 | 20.49 | 28.77 | 92.86 | 7.06 | 3.72 | 8.01 | 10.8 |
| 2022/03/25 | MF | DS4 | 06:50 | M | 4.9 | 52.1 | 0.38 | 20.53 | 28.27 | 92.96 | 7.09 | 3.62 | 8.01 | 6.2 |
| 2022/03/25 | MF | DS4 | 06:50 | T | 0.9 | 150.1 | 0.47 | 20.58 | 27.79 | 93.57 | 7.14 | 2.82 | 8.01 | 5.3 |
| 2022/03/25 | MF | DS5 | 06:55 | B | 7.9 | 199.4 | 0.10 | 20.49 | 28.78 | 94.39 | 7.18 | 3.22 | 8.01 | 5.1 |
| 2022/03/25 | MF | DS5 | 06:56 | M | 4.9 | 164.0 | 0.30 | 20.55 | 28.11 | 93.69 | 7.14 | 3.12 | 8.01 | 5.1 |
| 2022/03/25 | MF | DS5 | 06:56 | T | 1.0 | 157.8 | 0.14 | 20.61 | 27.49 | 94.19 | 7.20 | 2.72 | 8.01 | 8.2 |
| 2022/03/25 | MF | DS5 | 06:57 | B | 7.9 | 122.4 | 0.58 | 20.49 | 28.80 | 92.89 | 7.06 | 3.72 | 8.01 | 5.4 |
| 2022/03/25 | MF | DS5 | 06:58 | M | 5.1 | 199.1 | 0.31 | 20.51 | 28.49 | 92.69 | 7.06 | 3.32 | 8.01 | 5.3 |
| 2022/03/25 | MF | DS5 | 06:58 | T | 1.0 | 172.8 | 0.24 | 20.61 | 27.51 | 93.69 | 7.16 | 2.92 | 8.01 | 8.3 |
| 2022/03/25 | MF | US1 | 07:11 | B | 10.1 | 295.9 | 0.04 | 20.46 | 28.73 | 94.83 | 7.22 | 2.92 | 8.00 | 3.5 |
| 2022/03/25 | MF | US1 | 07:11 | M | 6.0 | 162.7 | 0.12 | 20.48 | 28.61 | 94.23 | 7.17 | 2.42 | 8.00 | 3.6 |
| 2022/03/25 | MF | US1 | 07:12 | T | 0.9 | 125.3 | 0.24 | 20.50 | 28.52 | 94.34 | 7.18 | 2.32 | 8.00 | 4.5 |
| 2022/03/25 | MF | US1 | 07:13 | B | 10.1 | 158.8 | 0.15 | 20.45 | 28.78 | 93.33 | 7.10 | 2.92 | 8.00 | 3.5 |
| 2022/03/25 | MF | US1 | 07:13 | M | 6.1 | 343.1 | 0.23 | 20.46 | 28.68 | 93.13 | 7.09 | 2.52 | 8.00 | 3.6 |
| 2022/03/25 | MF | US1 | 07:14 | T | 1.0 | 32.7 | 0.80 | 20.50 | 28.51 | 93.94 | 7.15 | 2.12 | 8.00 | 4.4 |
| 2022/03/25 | MF | US2 | 07:18 | B | 8.1 | 197.0 | 0.12 | 20.42 | 29.06 | 93.75 | 7.13 | 5.71 | 8.00 | 9.0 |
| 2022/03/25 | MF | US2 | 07:19 | M | 5.1 | 29.6 | 0.28 | 20.43 | 28.73 | 93.35 | 7.11 | 2.72 | 8.00 | 4.8 |
| 2022/03/25 | MF | US2 | 07:19 | T | 1.1 | 32.8 | 0.21 | 20.43 | 28.60 | 94.16 | 7.18 | 2.22 | 8.00 | 3.4 |
| 2022/03/25 | MF | US2 | 07:20 | B | 8.0 | 50.8 | 0.46 | 20.41 | 29.17 | 92.15 | 7.00 | 4.22 | 8.00 | 9.6 |
| 2022/03/25 | MF | US2 | 07:20 | M | 5.2 | 229.9 | 0.23 | 20.44 | 28.73 | 92.55 | 7.05 | 2.52 | 8.00 | 4.8 |
| 2022/03/25 | MF | US2 | 07:21 | T | 0.9 | 111.7 | 0.37 | 20.43 | 28.62 | 93.46 | 7.12 | 2.42 | 8.00 | 3.5 |