

Annex G3

Monitoring Results for Water Quality

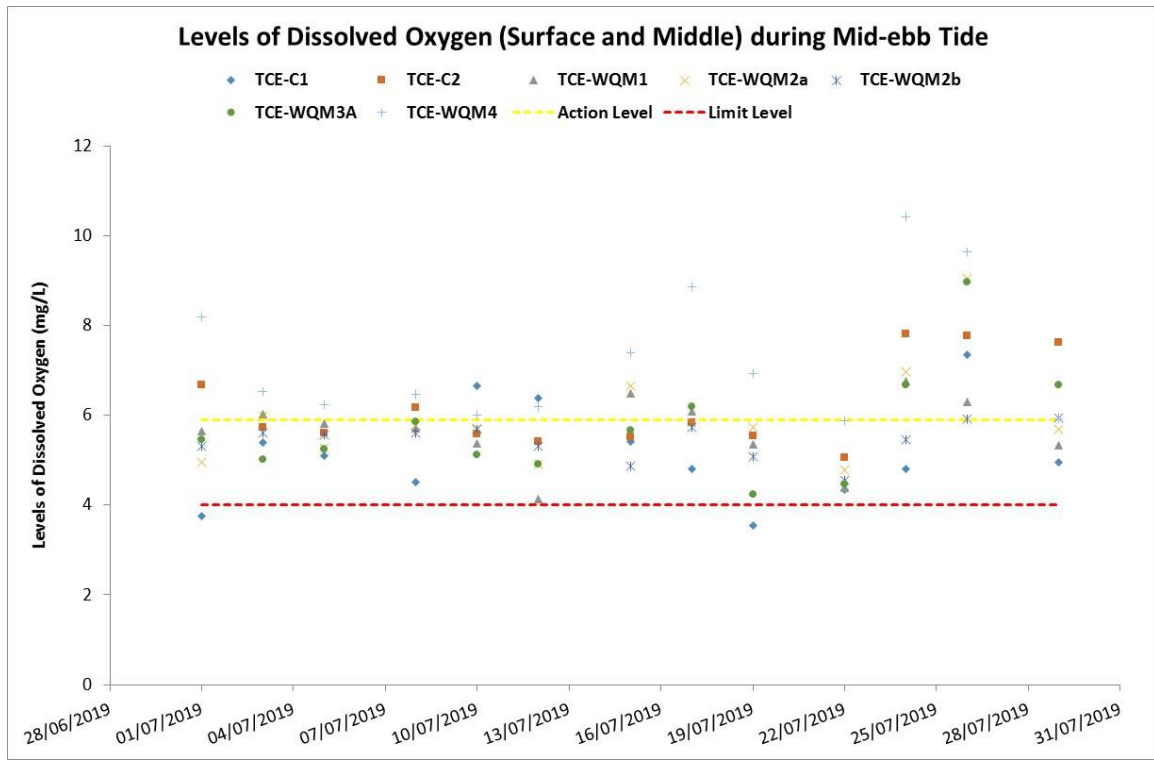


Figure 1: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2019

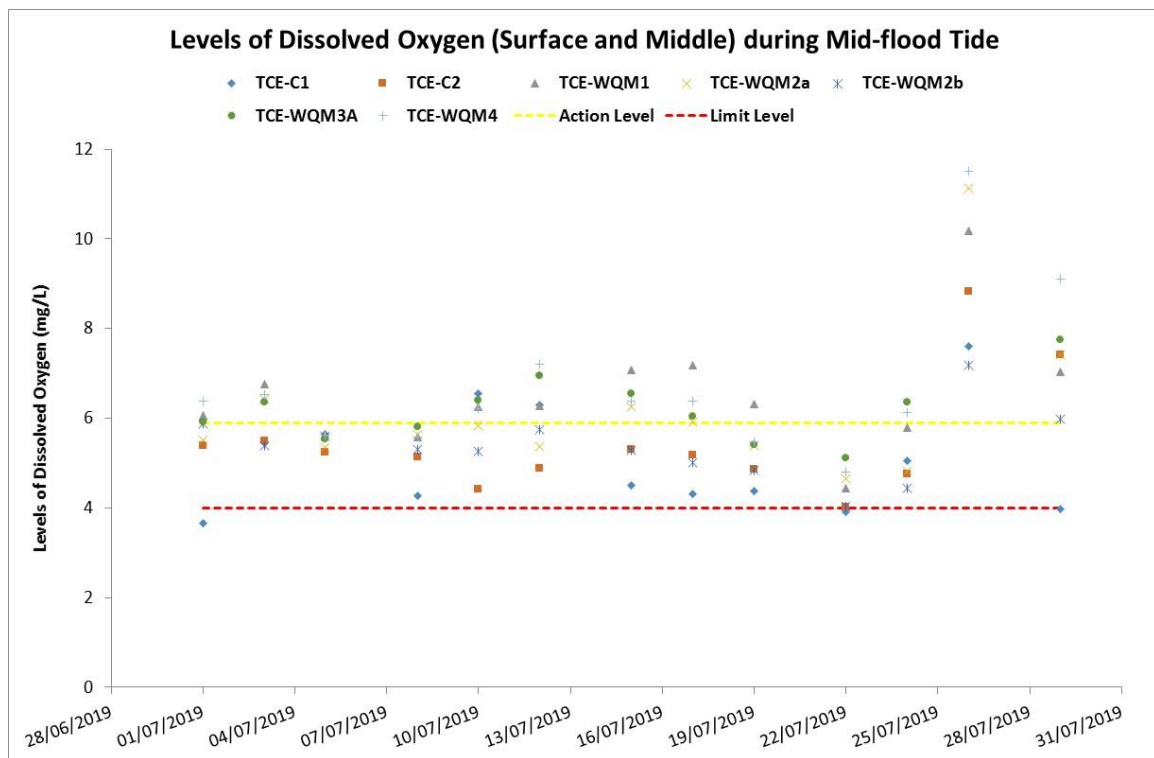


Figure 2: Levels of Dissolved Oxygen (Surface and Middle) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2019

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2019

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 Resources
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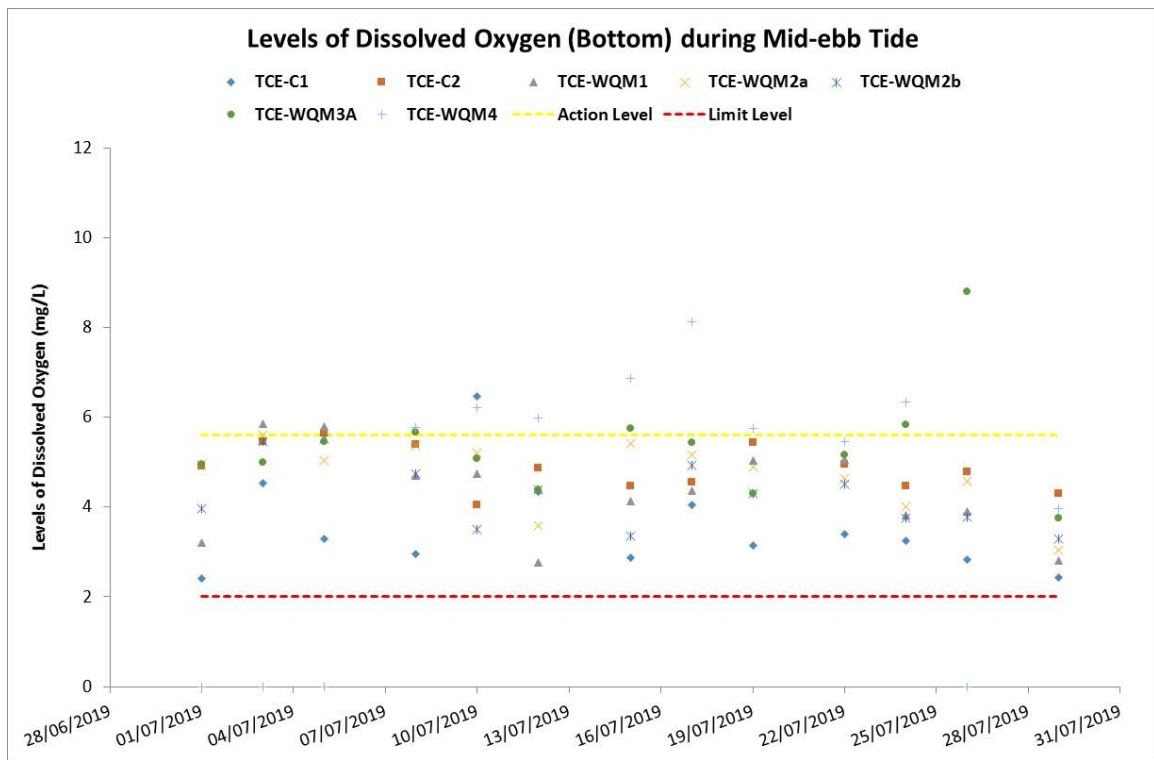


Figure 3: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2019

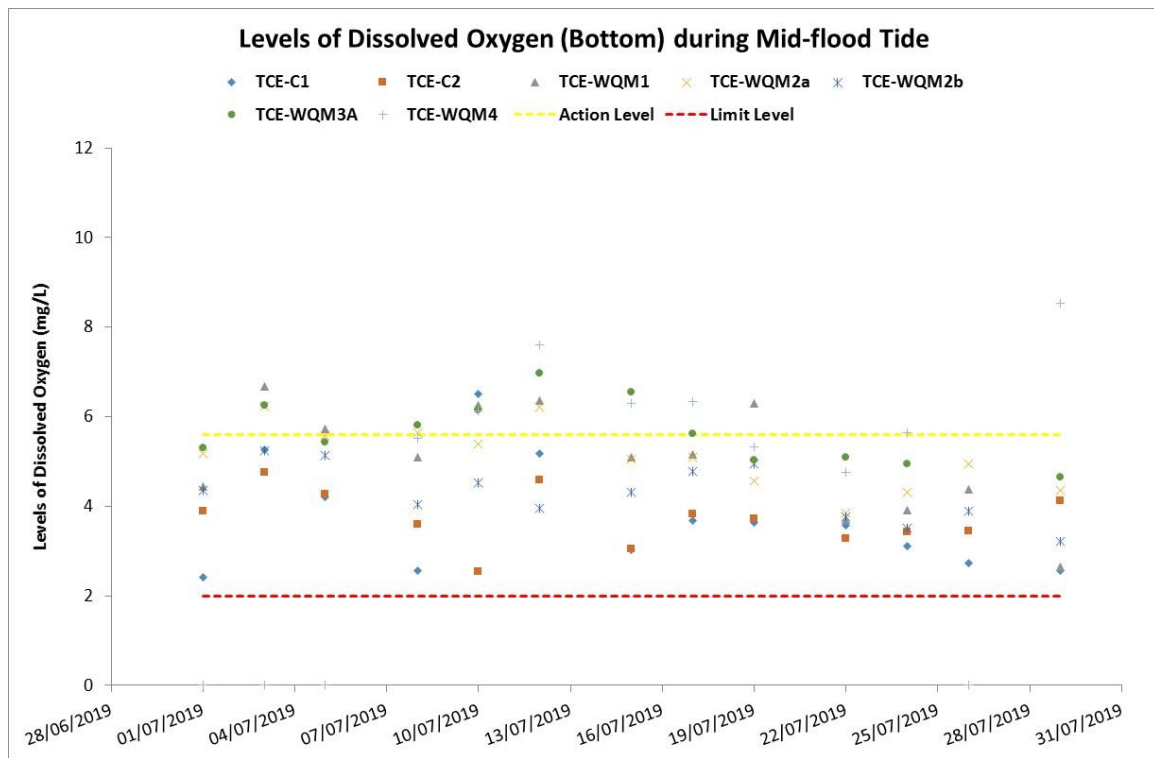


Figure 4: Levels of Dissolved Oxygen (Bottom) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2019

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2019

Environmental Resources Management



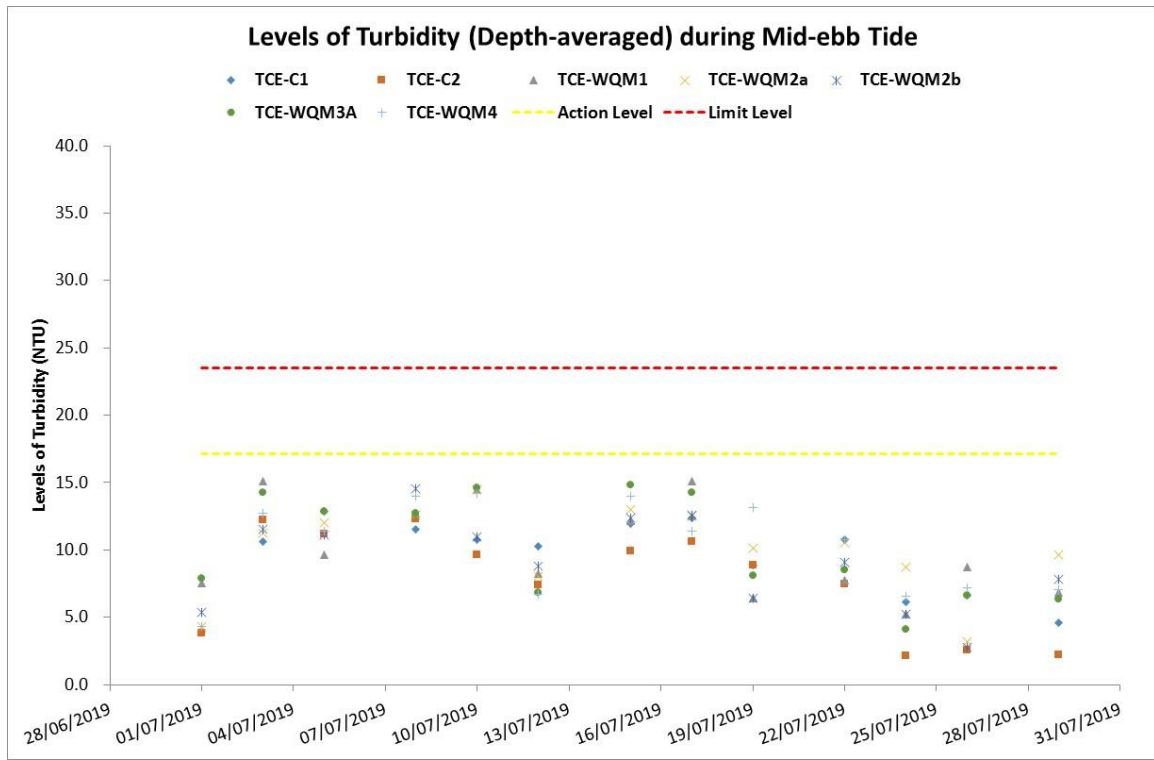


Figure 5: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2019

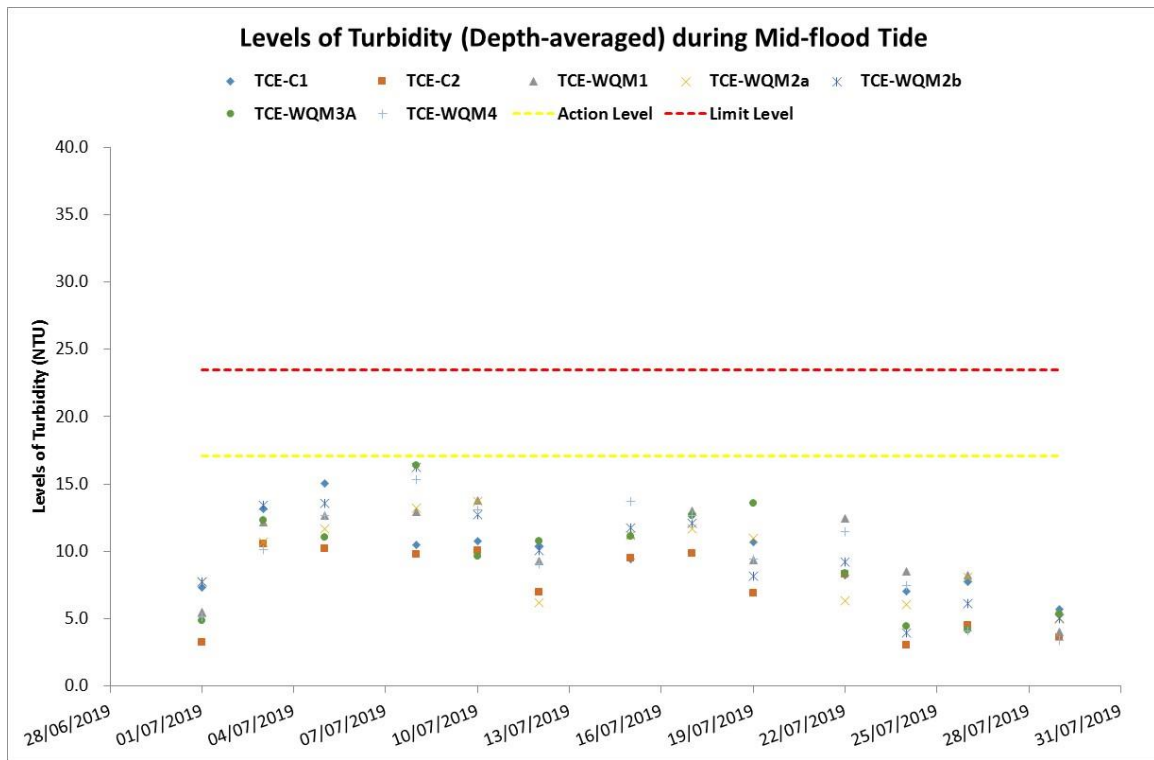


Figure 6: Levels of Turbidity (Depth-averaged) (NTU) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2019

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2019

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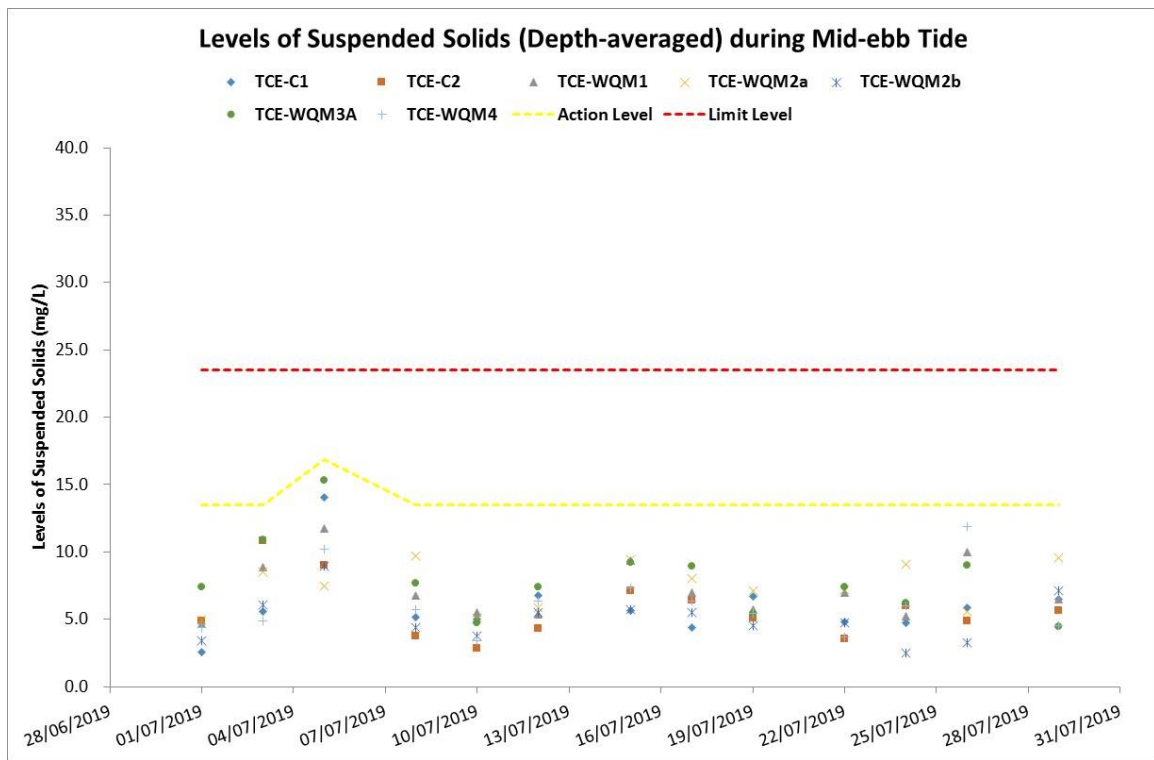


Figure 7: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-ebb Tide during the Water Quality Monitoring between 1 and 31 July 2019

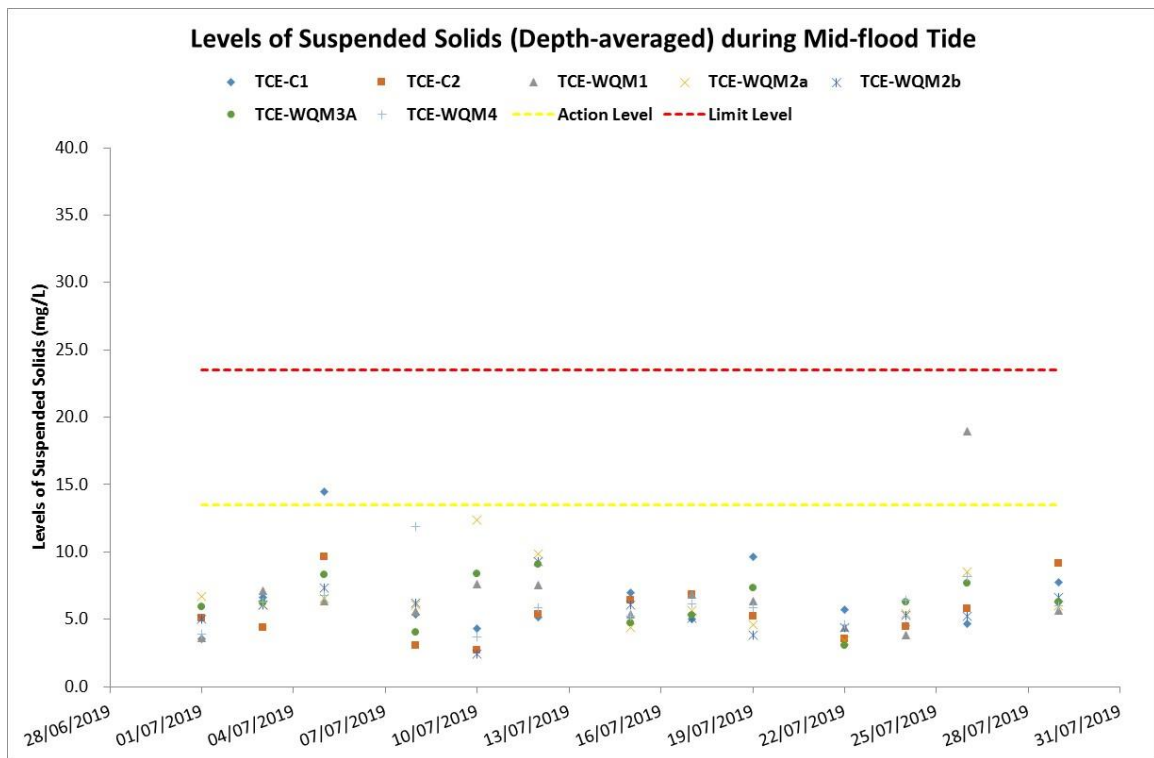


Figure 8: Levels of Suspended Solids (Depth-averaged) (mg/L) recorded at Mid-flood Tide during the Water Quality Monitoring between 1 and 31 July 2019

Source: P:\Projects\0445700 CEDD ET for Tung Chung.JT\02_Deliverable\10 Monthly EM&A Report\
 Date: July 2019

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| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 01-07-2019 | Mid-Ebb | TCE-C1 | Fine | Moderate | 10:15 | 8.0 | Surface | 1.0 | 1 | 28.0 | 7.8 | 19.7 | 5.3 | 75.2 | 3.0 | 3.0 | 3.8 | 3.9 | 2.6 |
| | | | | | | | | | 2 | 28.1 | 7.8 | 19.7 | 5.3 | 75.4 | 3.0 | 2.3 | | | |
| | | | | | | | Middle | 4.0 | 1 | 26.1 | 7.6 | 31.1 | 2.2 | 33.0 | 3.9 | 3.1 | | | |
| | | | | | | | | | 2 | 26.1 | 7.6 | 31.3 | 2.2 | 33.0 | 4.1 | 2.5 | | | |
| | | | | | | | Bottom | 7.0 | 1 | 26.0 | 7.6 | 31.6 | 2.3 | 34.4 | 4.5 | 1.9 | | | |
| | | | | | | | | | 2 | 26.0 | 7.6 | 31.6 | 2.5 | 36.7 | 4.8 | 2.6 | | | |
| | | | | 2 | 26.0 | 7.6 | 31.6 | 2.5 | 36.7 | 4.8 | 2.6 | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 12:25 | 12.5 | Surface | 1.0 | 1 | 28.7 | 8.1 | 17.3 | 7.9 | 112.3 | 4.1 | 4.4 | 6.7 | 3.8 | 4.9 |
| | | | | | | | | | 2 | 28.7 | 8.0 | 17.4 | 7.9 | 111.9 | 4.0 | 4.6 | | | |
| | | | | | | | Middle | 6.3 | 1 | 27.9 | 7.8 | 19.3 | 5.5 | 77.9 | 3.7 | 4.6 | | | |
| | | | | | | | | | 2 | 27.9 | 7.8 | 19.3 | 5.5 | 77.8 | 3.7 | 4.8 | | | |
| | | | | | | | Bottom | 11.5 | 1 | 27.6 | 7.8 | 21.1 | 4.9 | 69.9 | 3.8 | 5.0 | | | |
| | | | | | | | | 2 | 27.6 | 7.8 | 21.1 | 4.9 | 70.1 | 3.6 | 5.9 | | | | |
| | | | 2 | 27.6 | 7.8 | 21.1 | 4.9 | 70.1 | 3.6 | 5.9 | | | | | | | | | |
| | TCE-WQM1 | Fine | Calm | 11:11 | 7.8 | Surface | 1.0 | 1 | 29.1 | 8.1 | 15.7 | 8.2 | 116.5 | 4.2 | 4.6 | 5.7 | 7.5 | 4.7 | |
| | | | | | | | | 2 | 29.1 | 8.1 | 15.7 | 8.2 | 117.0 | 4.1 | 3.6 | | | | |
| | | | | | | Middle | 3.9 | 1 | 27.2 | 7.6 | 24.5 | 3.1 | 44.5 | 8.2 | 5.1 | | | | |
| | | | | | | | | 2 | 27.2 | 7.6 | 24.6 | 3.1 | 44.6 | 8.6 | 4.6 | | | | |
| | | | | | | Bottom | 6.8 | 1 | 27.1 | 7.6 | 25.3 | 3.2 | 45.7 | 10.1 | 4.9 | | | | |
| | | | | | | | | 2 | 27.1 | 7.6 | 25.3 | 3.3 | 47.2 | 9.9 | 5.3 | | | | |
| | | | 2 | 27.1 | 7.6 | 25.3 | 3.3 | 47.2 | 9.9 | 5.3 | | | | | | | | | |
| | TCE-WQM2a | Fine | Moderate | 11:49 | 7.8 | Surface | 1.0 | 1 | 27.9 | 7.8 | 20.3 | 5.1 | 72.2 | 4.7 | 5.3 | 4.9 | 4.3 | 5.0 | |
| | | | | | | | | 2 | 27.9 | 7.8 | 20.3 | 5.1 | 72.2 | 4.7 | 4.4 | | | | |
| | | | | | | Middle | 3.9 | 1 | 27.4 | 7.8 | 22.5 | 4.8 | 68.8 | 4.2 | 4.5 | | | | |
| | | | | | | | 2 | 27.3 | 7.8 | 22.6 | 4.8 | 69.3 | 4.0 | 5.5 | | | | | |
| Bottom | | | | | | 6.8 | 1 | 27.1 | 7.8 | 24.3 | 5.0 | 71.3 | 4.1 | 5.4 | | | | | |
| | | | | | | | 2 | 27.1 | 7.8 | 24.4 | 5.0 | 71.4 | 4.3 | 4.6 | | | | | |
| | | 2 | 27.1 | 7.8 | 24.4 | 5.0 | 71.4 | 4.3 | 4.6 | | | | | | | | | | |
| TCE-WQM2b | Fine | Moderate | 12:01 | 10.3 | Surface | 1.0 | 1 | 28.4 | 7.9 | 17.1 | 6.8 | 95.8 | 2.9 | 3.8 | 5.3 | 5.4 | 3.4 | | |
| | | | | | | | 2 | 28.4 | 7.9 | 17.1 | 6.8 | 95.7 | 2.9 | 2.9 | | | | | |
| | | | | | Middle | 5.2 | 1 | 27.4 | 7.7 | 22.2 | 3.9 | 55.3 | 4.9 | 2.9 | | | | | |
| | | | | | | | 2 | 27.4 | 7.7 | 22.1 | 3.9 | 55.2 | 5.1 | 2.6 | | | | | |
| | | | | | Bottom | 9.3 | 1 | 27.2 | 7.7 | 23.3 | 4.0 | 56.6 | 8.1 | 4.1 | | | | | |
| | | | | | | | 2 | 27.2 | 7.7 | 23.3 | 4.0 | 56.9 | 8.3 | 3.9 | | | | | |
| | | 2 | 27.2 | 7.7 | 23.3 | 4.0 | 56.9 | 8.3 | 3.9 | | | | | | | | | | |
| TCE-WQM3A | Fine | Calm | 11:37 | 3.8 | Surface | 1.0 | 1 | 28.1 | 7.8 | 18.8 | 5.4 | 77.3 | 7.1 | 9.5 | 5.4 | 7.9 | 7.4 | | |
| | | | | | | | 2 | 28.1 | 7.8 | 18.7 | 5.5 | 77.4 | 7.0 | 8.4 | | | | | |
| | | | | | Bottom | 2.8 | 1 | 27.5 | 7.7 | 21.9 | 4.9 | 70.4 | 8.7 | 6.1 | | | | | |
| | | | | | | | 2 | 27.5 | 7.7 | 21.9 | 5.0 | 71.2 | 8.8 | 5.5 | | | | | |
| | | | | | | | 2 | 27.5 | 7.7 | 21.9 | 5.0 | 71.2 | 8.8 | 5.5 | | | | | |
| | | | | | | | 2 | 27.5 | 7.7 | 21.9 | 5.0 | 71.2 | 8.8 | 5.5 | | | | | |
| TCE-WQM4 | Fine | Calm | 11:24 | 2.6 | Middle | 1.3 | 1 | 28.7 | 8.1 | 16.2 | 8.2 | 116.1 | 4.3 | 4.1 | 8.2 | 4.3 | 4.4 | | |
| | | | | | | | 2 | 28.7 | 8.1 | 16.2 | 8.2 | 115.3 | 4.3 | 4.6 | | | | | |
| | | | | | | | 2 | 28.7 | 8.1 | 16.2 | 8.2 | 115.3 | 4.3 | 4.6 | | | | | |
| | | | | | | | 2 | 28.7 | 8.1 | 16.2 | 8.2 | 115.3 | 4.3 | 4.6 | | | | | |
| | | | | | | | 2 | 28.7 | 8.1 | 16.2 | 8.2 | 115.3 | 4.3 | 4.6 | | | | | |
| | | | | | | | 2 | 28.7 | 8.1 | 16.2 | 8.2 | 115.3 | 4.3 | 4.6 | | | | | |
| 01-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 5:51 | 8.2 | Surface | 1.0 | 1 | 28.3 | 7.8 | 16.6 | 5.3 | 74.6 | 3.2 | 3.8 | 3.7 | 7.3 | 3.6 |
| | | | | | | | | | 2 | 28.3 | 7.8 | 16.6 | 5.3 | 74.3 | 3.2 | 4.6 | | | |
| | | | | | | | Middle | 4.1 | 1 | 26.2 | 7.6 | 30.3 | 2.0 | 29.9 | 5.4 | 3.0 | | | |
| | | | | | | | | | 2 | 26.2 | 7.6 | 30.3 | 2.1 | 30.1 | 5.4 | 3.7 | | | |
| | | | | | | | Bottom | 7.2 | 1 | 26.2 | 7.6 | 31.2 | 2.4 | 35.2 | 13.4 | 3.6 | | | |
| | | | | | | | | | 2 | 26.3 | 7.6 | 31.0 | 2.4 | 36.0 | 13.4 | 2.7 | | | |
| | | | | 2 | 26.3 | 7.6 | 31.0 | 2.4 | 36.0 | 13.4 | 2.7 | | | | | | | | |
| | | TCE-C2 | Cloudy | Calm | 3:55 | 12.3 | Surface | 1.0 | 1 | 28.2 | 7.9 | 18.0 | 6.5 | 92.2 | 3.4 | 5.1 | 5.4 | 3.2 | 5.1 |
| | | | | | | | | | 2 | 28.2 | 7.9 | 18.0 | 6.5 | 91.7 | 3.3 | 4.2 | | | |
| | | | | | | | Middle | 6.2 | 1 | 26.7 | 7.6 | 25.7 | 4.3 | 61.8 | 2.8 | 5.1 | | | |
| | | | | | | | | | 2 | 26.7 | 7.6 | 25.7 | 4.3 | 61.7 | 2.8 | 4.5 | | | |
| | | | | | | | Bottom | 11.3 | 1 | 25.8 | 7.6 | 29.5 | 3.9 | 55.9 | 3.6 | 6.3 | | | |
| | | | | | | | | 2 | 25.8 | 7.6 | 29.5 | 4.0 | 57.3 | 3.5 | 5.5 | | | | |
| | | | 2 | 25.8 | 7.6 | 29.5 | 4.0 | 57.3 | 3.5 | 5.5 | | | | | | | | | |
| | TCE-WQM1 | Cloudy | Calm | 5:10 | 8.3 | Surface | 1.0 | 1 | 28.8 | 8.1 | 13.9 | 7.7 | 108.3 | 3.3 | 2.8 | 6.1 | 5.5 | 3.6 | |
| | | | | | | | | 2 | 28.8 | 8.1 | 13.9 | 7.7 | 108.1 | 3.3 | 3.9 | | | | |
| | | | | | | Middle | 4.2 | 1 | 27.5 | 7.7 | 21.0 | 4.4 | 62.4 | 5.5 | 3.2 | | | | |
| | | | | | | | | 2 | 27.4 | 7.7 | 21.1 | 4.4 | 62.3 | 5.8 | 4.2 | | | | |
| | | | | | | Bottom | 7.3 | 1 | 27.1 | 7.7 | 23.6 | 4.4 | 62.7 | 7.5 | 4.1 | | | | |
| | | | | | | | | 2 | 27.1 | 7.7 | 23.6 | 4.5 | 64.7 | 7.5 | 4.1 | | | | |
| | | | 2 | 27.1 | 7.7 | 23.6 | 4.5 | 64.7 | 7.5 | 4.1 | | | | | | | | | |
| | TCE-WQM2a | Rainy | Moderate | 4:34 | 7.6 | Surface | 1.0 | 1 | 28.2 | 7.9 | 18.0 | 6.0 | 84.3 | 4.1 | 4.2 | 5.5 | 7.8 | 6.7 | |
| | | | | | | | | 2 | 28.2 | 7.9 | 18.0 | 6.0 | 84.3 | 4.1 | 4.8 | | | | |
| | | | | | | Middle | 3.8 | 1 | 27.4 | 7.8 | 22.1 | 5.1 | 72.6 | 8.0 | 5.2 | | | | |
| | | | | | | | 2 | 27.4 | 7.8 | 22.1 | 5.1 | 72.7 | 8.6 | 4.8 | | | | | |
| Bottom | | | | | | 6.6 | 1 | 27.4 | 7.8 | 22.1 | 5.2 | 73.8 | 10.9 | 11.1 | | | | | |
| | | | | | | | 2 | 27.4 | 7.8 | 22.1 | 5.2 | 74.2 | 11.0 | 10.0 | | | | | |
| | | 2 | 27.4 | 7.8 | 22.1 | 5.2 | 74.2 | 11.0 | 10.0 | | | | | | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 4:21 | 10.5 | Surface | 1.0 | 1 | 28.2 | 7.8 | 16.5 | 6.1 | 85.2 | 4.0 | 4.4 | 5.9 | 7.7 | 5.0 | | |
| | | | | | | | 2 | 28.1 | 7.8 | 16.6 | 6.1 | 84.8 | 4.2 | 3.3 | | | | | |
| | | | | | Middle | 5.3 | 1 | 27.8 | 7.8 | 19.6 | 5.7 | 81.0 | 6.8 | 4.3 | | | | | |
| | | | | | | | 2 | 27.8 | 7.8 | 19.6 | 5.7 | 80.7 | 6.9 | 4.5 | | | | | |
| | | | | | Bottom | 9.5 | 1 | 27.0 | 7.7 | 27.2 | 4.3 | 62.8 | 12.3 | 6.2 | | | | | |
| | | | | | | | 2 | 27.0 | 7.7 | 27.1 | 4.4 | 64.3 | 12.0 | 7.5 | | | | | |
| | | 2 | 27.0 | 7.7 | 27.1 | 4.4 | 64.3 | 12.0 | 7.5 | | | | | | | | | | |
| TCE-WQM3A | Rainy | Calm | 4:47 | 3.7 | Surface | 1.0 | 1 | 28.3 | 7.8 | 17.3 | 5.9 | 83.3 | 4.3 | 4.9 | 5.9 | 4.9 | 5.9 | | |
| | | | | | | | 2 | 28.3 | 7.8 | 17.2 | 5.9 | 83.5 | 4.5 | 4.3 | | | | | |
| | | | | | Bottom | 2.7 | 1 | 27.9 | 7.7 | 19.1 | 5.3 | 74.9 | 5.4 | 6.1 | | | | | |
| | | | | | | | 2 | 27.9 | 7.7 | 19.2 | 5.3 | 75.3 | 5.3 | 8.3 | | | | | |
| | | | | | | | 2 | 27.9 | 7.7 | 19.2 | 5.3 | 75.3 | 5.3 | 8.3 | | | | | |
| | | | | | | | 2 | 27.9 | 7.7 | 19.2 | 5.3 | 75.3 | 5.3 | 8.3 | | | | | |
| TCE-WQM4 | Rainy | Calm | 4:58 | 2.8 | Middle | 1.4 | 1 | 28.4 | 7.9 | 16.1 | 6.4 | 89.6 | 5.0 | 3.6 | 6.4 | 5.1 | 3.9 | | |
| | | | | | | | 2 | 28.3 | 7.9 | 16.2 | 6.4 | 89.4 | 5.3 | 4.2 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | |
| 03-07-2019 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 11:40 | 8.1 | Surface | 1.0 | 1 | 28.3 | 8.0 | 22.1 | 6.3 | 91.3 | 9.2 | 5.1 | 5.4 | 10.6 | 5.6 | |
| | | | | | | | | | 2 | 28.3 | 8.0 | 22.1 | 6.3 | 91.2 | 9.2 | 4.8 | | | | |
| | | | | | | | Middle | 4.1 | 1 | 28.0 | 7.9 | 24.9 | 4.5 | 66.2 | 10.8 | 6.1 | | | | |
| | | | | | | | | | 2 | 28.0 | 7.9 | 24.8 | 4.5 | 66.1 | 10.9 | 5.8 | | | | |
| | | | | | | | Bottom | 7.1 | 1 | 27.8 | 7.9 | 26.1 | 4.5 | 66.4 | 11.8 | 6.0 | | | | |
| | | | | | | | | | 2 | 27.8 | 7.9 | 26.1 | 4.5 | 66.7 | 11.8 | 5.6 | | | | |
| | | TCE-C2 | Cloudy | Moderate | 13:39 | 13.7 | Surface | 1.0 | 1 | 28.1 | 8.0 | 22.2 | 6.1 | 88.1 | 10.6 | 10.6 | 5.7 | 12.3 | 10.8 | |
| | | | | | | | | | 2 | 28.1 | 8.0 | 22.2 | 6.1 | 88.0 | 10.7 | 10.5 | | | | |
| | | | | | | | Middle | 6.9 | 1 | 28.0 | 8.0 | 22.9 | 5.4 | 78.2 | 12.6 | 10.9 | | | | |
| | | | | | | | | | 2 | 28.0 | 8.0 | 22.9 | 5.4 | 78.0 | 12.6 | 10.7 | | | | |
| | | | | | | | Bottom | 12.7 | 1 | 27.5 | 8.0 | 26.1 | 5.4 | 79.5 | 13.5 | 10.9 | | | | |
| | | | | | | | | | 2 | 27.5 | 8.0 | 26.1 | 5.5 | 80.2 | 13.5 | 11.2 | | | | |
| | | TCE-WQM1 | Cloudy | Moderate | 12:26 | 8.4 | Surface | 1.0 | 1 | 28.2 | 7.9 | 19.9 | 6.1 | 87.7 | 13.3 | 9.3 | 6.0 | 15.1 | 8.9 | |
| | | | | | | | | | 2 | 28.2 | 7.9 | 19.9 | 6.1 | 87.3 | 13.5 | 8.8 | | | | |
| | | | | | | | Middle | 4.2 | 1 | 28.2 | 8.0 | 20.5 | 6.0 | 85.7 | 14.4 | 8.7 | | | | |
| | | | | | | | | | 2 | 28.2 | 8.0 | 20.5 | 5.9 | 85.3 | 14.7 | 8.8 | | | | |
| | | | | | | | Bottom | 7.4 | 1 | 28.2 | 8.0 | 21.1 | 5.8 | 84.2 | 17.3 | 8.8 | | | | |
| | | | | | | | | | 2 | 28.2 | 8.0 | 21.1 | 5.9 | 84.4 | 17.2 | 8.8 | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 13:05 | 7.5 | Surface | 1.0 | 1 | 28.1 | 8.0 | 22.0 | 6.3 | 91.2 | 11.0 | 8.2 | 6.0 | 11.3 | 8.5 | |
| | | | | | | | | | 2 | 28.1 | 8.0 | 22.0 | 6.3 | 91.2 | 11.0 | 8.6 | | | | |
| | | | | | | | Middle | 3.8 | 1 | 28.0 | 7.9 | 22.8 | 5.7 | 82.3 | 11.1 | 7.9 | | | | |
| | | | | | | | | | 2 | 28.0 | 7.9 | 22.8 | 5.7 | 82.0 | 11.1 | 8.4 | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 27.9 | 7.9 | 23.9 | 5.6 | 81.3 | 11.7 | 9.0 | | | | |
| | | | | | | | | | 2 | 27.9 | 7.9 | 23.9 | 5.6 | 81.5 | 11.7 | 9.1 | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 13:18 | 10.5 | Surface | 1.0 | 1 | 28.2 | 7.9 | 21.7 | 6.0 | 86.2 | 8.1 | 5.9 | 5.6 | 11.5 | 6.1 | | |
| | | | | | | | | 2 | 28.2 | 7.9 | 21.7 | 6.0 | 86.0 | 8.4 | 5.5 | | | | | |
| | | | | | | Middle | 5.3 | 1 | 28.0 | 7.8 | 22.7 | 5.3 | 76.3 | 11.9 | 5.8 | | | | | |
| | | | | | | | | 2 | 28.0 | 7.8 | 22.7 | 5.3 | 76.1 | 11.6 | 5.7 | | | | | |
| | | | | | | Bottom | 9.5 | 1 | 28.0 | 7.8 | 22.9 | 5.5 | 79.0 | 14.5 | 6.6 | | | | | |
| | | | | | | | | 2 | 28.0 | 7.8 | 22.9 | 5.5 | 79.3 | 14.6 | 7.0 | | | | | |
| | TCE-WQM3A | Cloudy | Calm | 12:52 | 4.0 | Surface | 1.0 | 1 | 28.1 | 7.8 | 21.4 | 5.0 | 72.4 | 13.5 | 9.7 | 5.0 | 14.3 | 10.9 | | |
| | | | | | | | | 2 | 28.1 | 7.8 | 21.4 | 5.0 | 72.2 | 13.6 | 9.7 | | | | | |
| | | | | | | Bottom | 3.0 | 1 | 28.0 | 7.8 | 23.7 | 5.0 | 72.5 | 14.9 | 12.1 | | | | | |
| | | | | | | | | 2 | 28.0 | 7.8 | 23.7 | 5.0 | 72.8 | 15.0 | 12.1 | | | | | |
| | | | | | | Middle | 1.3 | 1 | 28.3 | 7.9 | 20.6 | 6.5 | 93.9 | 12.7 | 4.7 | | | | | |
| | | | | | | | | 2 | 28.3 | 7.9 | 20.6 | 6.5 | 94.2 | 12.8 | 5.0 | | | | | |
| | TCE-WQM4 | Rainy | Calm | 12:40 | 2.6 | Surface | 1.0 | 1 | 28.1 | 7.8 | 21.4 | 5.0 | 72.4 | 13.5 | 9.7 | 5.0 | 14.3 | 10.9 | | |
| | | | | | | | | 2 | 28.1 | 7.8 | 21.4 | 5.0 | 72.2 | 13.6 | 9.7 | | | | | |
| | | | | | | Bottom | 3.0 | 1 | 28.0 | 7.8 | 23.7 | 5.0 | 72.5 | 14.9 | 12.1 | | | | | |
| | | | | | | | | 2 | 28.0 | 7.8 | 23.7 | 5.0 | 72.8 | 15.0 | 12.1 | | | | | |
| | | | | | | Middle | 1.3 | 1 | 28.3 | 7.9 | 20.6 | 6.5 | 93.9 | 12.7 | 4.7 | | | | | |
| | | | | | | | | 2 | 28.3 | 7.9 | 20.6 | 6.5 | 94.2 | 12.8 | 5.0 | | | | | |
| | 03-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 7:43 | 8.2 | Surface | 1.0 | 1 | 28.3 | 8.0 | 21.2 | 5.7 | 81.7 | 11.1 | 4.2 | 5.4 | 13.1 | 6.6 |
| | | | | | | | | | | 2 | 28.3 | 8.0 | 21.3 | 5.6 | 81.3 | 11.2 | 4.4 | | | |
| | | | | | | | | Middle | 4.1 | 1 | 28.2 | 8.0 | 22.9 | 5.3 | 76.8 | 13.4 | 6.7 | | | |
| | | | | | | | | | | 2 | 28.2 | 8.0 | 22.9 | 5.2 | 76.4 | 13.6 | 7.0 | | | |
| | | | | | | | | Bottom | 7.2 | 1 | 28.1 | 8.1 | 23.4 | 5.3 | 76.6 | 14.8 | 8.9 | | | |
| | | | | | | | | | | 2 | 28.1 | 8.1 | 23.4 | 5.3 | 76.5 | 14.7 | 8.6 | | | |
| TCE-C2 | | | Rainy | Moderate | 5:30 | 13.5 | Surface | 1.0 | 1 | 28.3 | 7.9 | 20.7 | 5.8 | 83.2 | 9.4 | 3.0 | 5.5 | 10.6 | 4.4 | |
| | | | | | | | | | 2 | 28.3 | 7.9 | 20.7 | 5.8 | 82.8 | 9.5 | 3.3 | | | | |
| | | | | | | | Middle | 6.8 | 1 | 27.8 | 7.9 | 23.8 | 5.2 | 75.9 | 10.3 | 3.6 | | | | |
| | | | | | | | | | 2 | 27.8 | 7.9 | 23.8 | 5.2 | 75.8 | 10.3 | 4.0 | | | | |
| | | | | | | | Bottom | 12.5 | 1 | 27.1 | 7.8 | 28.1 | 4.8 | 70.0 | 12.0 | 6.3 | | | | |
| | | | | | | | | | 2 | 27.1 | 7.8 | 28.2 | 4.8 | 70.0 | 11.9 | 6.1 | | | | |
| TCE-WQM1 | | | Rainy | Moderate | 6:46 | 8.3 | Surface | 1.0 | 1 | 28.4 | 8.1 | 20.2 | 6.8 | 98.5 | 11.5 | 6.7 | 6.8 | 12.2 | 7.1 | |
| | | | | | | | | | 2 | 28.4 | 8.1 | 20.2 | 6.8 | 98.4 | 11.8 | 6.8 | | | | |
| | | | | | | | Middle | 4.2 | 1 | 28.7 | 8.0 | 21.4 | 6.7 | 97.3 | 12.9 | 7.0 | | | | |
| | | | | | | | | | 2 | 28.6 | 8.0 | 21.4 | 6.7 | 96.9 | 12.7 | 6.8 | | | | |
| | | | | | | | Bottom | 7.3 | 1 | 28.6 | 8.0 | 21.6 | 6.7 | 97.0 | 12.1 | 7.6 | | | | |
| | | | | | | | | | 2 | 28.6 | 8.0 | 21.6 | 6.7 | 97.4 | 12.1 | 7.9 | | | | |
| TCE-WQM2a | | | Rainy | Moderate | 6:10 | 7.6 | Surface | 1.0 | 1 | 28.3 | 8.0 | 21.0 | 6.6 | 94.6 | 9.9 | 5.3 | 6.4 | 10.7 | 6.1 | |
| | | | | | | | | | 2 | 28.3 | 8.0 | 21.0 | 6.6 | 94.6 | 9.9 | 5.1 | | | | |
| | | | | | | | Middle | 3.8 | 1 | 28.4 | 8.0 | 21.8 | 6.3 | 91.0 | 11.3 | 5.8 | | | | |
| | | | | | | | | | 2 | 28.4 | 8.0 | 21.8 | 6.3 | 90.9 | 11.3 | 6.1 | | | | |
| | | | | | | | Bottom | 6.6 | 1 | 28.1 | 7.9 | 22.8 | 6.2 | 90.4 | 10.8 | 7.0 | | | | |
| | | | | | | | | | 2 | 28.1 | 7.9 | 22.8 | 6.2 | 90.7 | 10.8 | 7.2 | | | | |
| TCE-WQM2b | | | Rainy | Moderate | 5:56 | 10.4 | Surface | 1.0 | 1 | 28.0 | 7.9 | 22.2 | 5.6 | 81.2 | 11.9 | 5.0 | 5.4 | 13.4 | 6.1 | |
| | | | | | | | | | 2 | 28.0 | 7.9 | 22.2 | 5.6 | 80.7 | 12.1 | 5.3 | | | | |
| | | | | | | | Middle | 5.2 | 1 | 27.8 | 7.9 | 23.8 | 5.2 | 75.3 | 12.6 | 6.2 | | | | |
| | | | | | | | | | 2 | 27.8 | 7.9 | 23.7 | 5.2 | 75.3 | 12.6 | 6.4 | | | | |
| | | | | | | | Bottom | 9.4 | 1 | 27.7 | 8.0 | 24.8 | 5.3 | 76.5 | 15.6 | 6.6 | | | | |
| | | | | | | | | | 2 | 27.7 | 8.0 | 24.8 | 5.3 | 76.5 | 15.7 | 7.0 | | | | |
| TCE-WQM3A | | | Rainy | Calm | 6:22 | 3.6 | Surface | 1.0 | 1 | 28.3 | 8.0 | 21.6 | 6.4 | 92.0 | 11.2 | 5.4 | 6.4 | 12.3 | 6.2 | |
| | | | | | | | | | 2 | 28.3 | 8.0 | 21.6 | 6.4 | 92.3 | 11.4 | 5.8 | | | | |
| | | | | | | | Bottom | 2.6 | 1 | 28.3 | 8.0 | 21.7 | 6.3 | 90.7 | 13.4 | 6.6 | | | | |
| | | | | | | | | | 2 | 28.3 | 8.0 | 21.8 | 6.2 | 90.3 | 13.3 | 6.9 | | | | |
| | | | | | | | Middle | 1.4 | 1 | 28.2 | 7.9 | 21.5 | 6.5 | 93.8 | 10.1 | 6.4 | | | | |
| | | | | | | | | | 2 | 28.2 | 7.9 | 21.5 | 6.6 | 94.6 | 10.1 | 6.1 | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 05-07-2019 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 13:11 | 7.5 | Surface | 1.0 | 1 | 28.9 | 7.7 | 15.5 | 6.1 | 85.7 | 11.5 | 11.3 | 5.1 | 12.9 | 14.0 |
| | | | | | | | | | 2 | 28.9 | 7.7 | 15.5 | 6.1 | 85.6 | 11.5 | 11.4 | | | |
| | | | | | | | Middle | 3.8 | 1 | 28.4 | 7.8 | 17.5 | 4.2 | 59.1 | 12.9 | 14.8 | | | |
| | | | | | | | | | 2 | 28.3 | 7.8 | 17.6 | 4.1 | 58.2 | 12.8 | 15.1 | | | |
| | | | | | | | Bottom | 6.5 | 1 | 27.2 | 7.7 | 26.9 | 3.2 | 46.8 | 14.2 | 15.9 | | | |
| | | | | | | | | | 2 | 27.1 | 7.7 | 28.8 | 3.4 | 50.2 | 14.2 | 15.6 | | | |
| | | TCE-C2 | Sunny | Moderate | 15:02 | 13.6 | Surface | 1.0 | 1 | 29.0 | 7.6 | 16.4 | 5.6 | 79.7 | 11.5 | 8.8 | 5.6 | 11.2 | 9.0 |
| | | | | | | | | | 2 | 29.0 | 7.6 | 16.4 | 5.6 | 79.7 | 11.6 | 8.7 | | | |
| | | | | | | | Middle | 6.8 | 1 | 29.0 | 7.6 | 16.4 | 5.6 | 80.0 | 9.9 | 8.6 | | | |
| | | | | | | | | | 2 | 29.0 | 7.6 | 16.4 | 5.6 | 79.9 | 9.9 | 9.1 | | | |
| | | | | | | | Bottom | 12.6 | 1 | 29.0 | 7.6 | 16.4 | 5.6 | 80.2 | 12.0 | 9.3 | | | |
| | | | | | | | | | 2 | 29.0 | 7.6 | 16.4 | 5.6 | 80.1 | 12.0 | 9.5 | | | |
| | TCE-WQM1 | Sunny | Moderate | 13:55 | 8.5 | Surface | 1.0 | 1 | 28.9 | 7.7 | 16.4 | 5.9 | 83.5 | 8.8 | 10.6 | 5.8 | 9.6 | 11.8 | |
| | | | | | | | | 2 | 28.9 | 7.7 | 16.4 | 5.8 | 83.0 | 8.8 | 10.5 | | | | |
| | | | | | | Middle | 4.3 | 1 | 28.8 | 7.7 | 17.2 | 5.8 | 81.8 | 9.6 | 11.7 | | | | |
| | | | | | | | | 2 | 28.8 | 7.7 | 17.2 | 5.7 | 81.7 | 9.6 | 11.6 | | | | |
| | | | | | | Bottom | 7.5 | 1 | 28.6 | 7.8 | 18.2 | 5.8 | 82.1 | 10.4 | 13.2 | | | | |
| | | | | | | | | 2 | 28.6 | 7.8 | 18.2 | 5.8 | 83.0 | 10.4 | 13.0 | | | | |
| | TCE-WQM2a | Sunny | Moderate | 14:29 | 8.8 | Surface | 1.0 | 1 | 29.3 | 7.7 | 19.0 | 5.4 | 78.6 | 10.6 | 7.0 | 5.3 | 12.0 | 7.5 | |
| | | | | | | | | 2 | 29.3 | 7.7 | 19.0 | 5.4 | 78.6 | 10.6 | 7.3 | | | | |
| | | | | | | Middle | 4.4 | 1 | 28.4 | 7.7 | 19.9 | 5.1 | 73.4 | 12.1 | 7.2 | | | | |
| | | | | | | | | 2 | 28.4 | 7.7 | 19.9 | 5.1 | 73.3 | 12.2 | 7.5 | | | | |
| | | | | | | Bottom | 7.8 | 1 | 28.2 | 7.7 | 20.9 | 5.0 | 72.2 | 13.3 | 8.0 | | | | |
| | | | | | | | | 2 | 28.2 | 7.7 | 20.9 | 5.0 | 72.6 | 13.4 | 7.8 | | | | |
| TCE-WQM2b | Sunny | Moderate | 14:21 | 11.9 | Surface | 1.0 | 1 | 29.0 | 7.7 | 15.4 | 5.6 | 79.9 | 11.6 | 6.8 | 5.6 | 11.1 | 9.0 | | |
| | | | | | | | 2 | 29.0 | 7.7 | 15.4 | 5.6 | 79.9 | 11.6 | 7.2 | | | | | |
| | | | | | Middle | 6.0 | 1 | 28.8 | 7.7 | 16.5 | 5.5 | 77.7 | 8.4 | 9.3 | | | | | |
| | | | | | | | 2 | 28.8 | 7.7 | 16.5 | 5.5 | 77.7 | 8.4 | 9.0 | | | | | |
| | | | | | Bottom | 10.9 | 1 | 28.7 | 7.7 | 16.7 | 5.5 | 78.0 | 13.3 | 10.8 | | | | | |
| | | | | | | | 2 | 28.8 | 7.8 | 16.7 | 5.5 | 78.5 | 13.3 | 10.6 | | | | | |
| TCE-WQM3A | Sunny | Moderate | 14:17 | 3.7 | Surface | 1.0 | 1 | 29.0 | 7.6 | 17.4 | 5.2 | 74.9 | 11.2 | 13.5 | 5.2 | 12.9 | 15.3 | | |
| | | | | | | | 2 | 29.0 | 7.6 | 17.4 | 5.2 | 75.0 | 11.2 | 13.8 | | | | | |
| | | | | | Bottom | 2.7 | 1 | 28.6 | 7.6 | 18.8 | 5.4 | 76.8 | 14.5 | 17.1 | | | | | |
| | | | | | | | 2 | 28.6 | 7.6 | 18.8 | 5.6 | 79.7 | 14.5 | 16.7 | | | | | |
| | | | | | Middle | 1.5 | 1 | 29.2 | 7.6 | 17.6 | 6.2 | 89.6 | 11.4 | 10.4 | | | | | |
| | | | | | | | 2 | 29.2 | 7.6 | 17.6 | 6.2 | 89.6 | 11.4 | 10.0 | | | | | |
| TCE-WQM4 | Sunny | Moderate | 14:06 | 2.9 | Surface | 1.0 | 1 | 29.0 | 7.6 | 17.4 | 5.2 | 74.9 | 11.2 | 13.5 | 5.2 | 12.9 | 15.3 | | |
| | | | | | | | 2 | 29.0 | 7.6 | 17.4 | 5.2 | 75.0 | 11.2 | 13.8 | | | | | |
| | | | | | Bottom | 2.7 | 1 | 28.6 | 7.6 | 18.8 | 5.4 | 76.8 | 14.5 | 17.1 | | | | | |
| | | | | | | | 2 | 28.6 | 7.6 | 18.8 | 5.6 | 79.7 | 14.5 | 16.7 | | | | | |
| | | | | | Middle | 1.5 | 1 | 29.2 | 7.6 | 17.6 | 6.2 | 89.6 | 11.4 | 10.4 | | | | | |
| | | | | | | | 2 | 29.2 | 7.6 | 17.6 | 6.2 | 89.6 | 11.4 | 10.0 | | | | | |
| 05-07-2019 | Mid-Flood | TCE-C1 | Rainy | Rough | 9:33 | 7.8 | Surface | 1.0 | 1 | 28.4 | 7.8 | 14.3 | 5.8 | 81.3 | 12.3 | 9.9 | 5.6 | 15.1 | 14.5 |
| | | | | | | | | | 2 | 28.4 | 7.8 | 14.3 | 5.8 | 81.2 | 12.3 | 9.6 | | | |
| | | | | | | | Middle | 3.9 | 1 | 28.4 | 7.8 | 15.1 | 5.5 | 76.7 | 13.5 | 11.5 | | | |
| | | | | | | | | | 2 | 28.4 | 7.8 | 14.9 | 5.4 | 75.8 | 13.5 | 11.8 | | | |
| | | | | | | | Bottom | 6.8 | 1 | 28.0 | 7.8 | 20.7 | 4.2 | 60.4 | 19.3 | 22.3 | | | |
| | | | | | | | | | 2 | 28.0 | 7.8 | 20.7 | 4.2 | 60.3 | 19.4 | 21.9 | | | |
| | | TCE-C2 | Rainy | Moderate | 7:18 | 15.7 | Surface | 1.0 | 1 | 28.5 | 7.7 | 17.4 | 5.4 | 76.2 | 9.9 | 7.6 | 5.2 | 10.2 | 9.6 |
| | | | | | | | | | 2 | 28.5 | 7.7 | 17.4 | 5.4 | 76.1 | 9.8 | 7.8 | | | |
| | | | | | | | Middle | 7.9 | 1 | 28.5 | 7.7 | 17.8 | 5.2 | 73.4 | 10.1 | 9.9 | | | |
| | | | | | | | | | 2 | 28.5 | 7.7 | 17.8 | 5.1 | 72.5 | 10.1 | 10.1 | | | |
| | | | | | | | Bottom | 14.7 | 1 | 27.7 | 7.7 | 24.2 | 4.3 | 62.0 | 10.6 | 10.8 | | | |
| | | | | | | | | | 2 | 27.7 | 7.7 | 24.2 | 4.3 | 62.2 | 10.6 | 11.4 | | | |
| | TCE-WQM1 | Rainy | Moderate | 8:35 | 10.7 | Surface | 1.0 | 1 | 28.5 | 7.7 | 18.4 | 5.7 | 80.6 | 10.6 | 5.8 | 5.6 | 12.7 | 6.3 | |
| | | | | | | | | 2 | 28.5 | 7.7 | 18.4 | 5.7 | 80.8 | 10.6 | 6.0 | | | | |
| | | | | | | Middle | 5.4 | 1 | 28.4 | 7.7 | 18.7 | 5.6 | 80.3 | 11.1 | 5.7 | | | | |
| | | | | | | | | 2 | 28.4 | 7.7 | 18.7 | 5.6 | 80.3 | 11.2 | 6.0 | | | | |
| | | | | | | Bottom | 9.7 | 1 | 28.4 | 7.8 | 19.8 | 5.7 | 81.3 | 16.3 | 7.0 | | | | |
| | | | | | | | | 2 | 28.4 | 7.8 | 19.8 | 5.8 | 83.0 | 16.2 | 7.4 | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 8:00 | 8.7 | Surface | 1.0 | 1 | 28.6 | 7.7 | 17.0 | 5.4 | 76.4 | 10.6 | 6.2 | 5.4 | 11.7 | 6.5 | |
| | | | | | | | | 2 | 28.6 | 7.7 | 17.0 | 5.4 | 76.4 | 10.6 | 6.5 | | | | |
| | | | | | | Middle | 4.4 | 1 | 28.4 | 7.7 | 18.5 | 5.3 | 76.0 | 11.8 | 6.5 | | | | |
| | | | | | | | | 2 | 28.4 | 7.7 | 18.5 | 5.3 | 76.1 | 11.9 | 6.2 | | | | |
| | | | | | | Bottom | 7.7 | 1 | 28.5 | 7.7 | 18.9 | 5.5 | 79.1 | 12.7 | 7.1 | | | | |
| | | | | | | | | 2 | 28.5 | 7.7 | 18.8 | 5.6 | 80.4 | 12.6 | 6.7 | | | | |
| TCE-WQM2b | Cloudy | Moderate | 7:46 | 10.6 | Surface | 1.0 | 1 | 28.3 | 7.7 | 16.5 | 6.2 | 86.9 | 10.1 | 6.3 | 5.6 | 13.6 | 7.3 | | |
| | | | | | | | 2 | 28.3 | 7.7 | 16.5 | 6.2 | 87.4 | 10.1 | 6.1 | | | | | |
| | | | | | Middle | 5.3 | 1 | 28.4 | 7.8 | 18.2 | 5.0 | 71.4 | 14.6 | 6.6 | | | | | |
| | | | | | | | 2 | 28.4 | 7.8 | 18.2 | 5.0 | 71.2 | 14.6 | 6.8 | | | | | |
| | | | | | Bottom | 9.6 | 1 | 28.3 | 7.8 | 19.2 | 5.1 | 73.4 | 16.1 | 9.3 | | | | | |
| | | | | | | | 2 | 28.3 | 7.8 | 19.2 | 5.2 | 73.6 | 16.1 | 8.9 | | | | | |
| TCE-WQM3A | Cloudy | Moderate | 8:12 | 4.3 | Surface | 1.0 | 1 | 28.6 | 7.8 | 16.3 | 5.5 | 78.1 | 10.8 | 8.2 | 5.5 | 11.1 | 8.3 | | |
| | | | | | | | 2 | 28.6 | 7.8 | 16.3 | 5.5 | 78.2 | 10.8 | 8.4 | | | | | |
| | | | | | Bottom | 3.3 | 1 | 28.5 | 7.9 | 16.8 | 5.4 | 76.8 | 11.3 | 8.4 | | | | | |
| | | | | | | | 2 | 28.5 | 7.9 | 16.7 | 5.4 | 76.5 | 11.3 | 8.2 | | | | | |
| | | | | | Middle | 1.4 | 1 | 28.6 | 7.7 | 17.1 | 5.6 | 79.8 | 12.6 | 6.6 | | | | | |
| | | | | | | | 2 | 28.6 | 7.7 | 17.2 | 5.6 | 79.9 | 12.7 | 6.9 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (°C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|---------|---------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|------------------------|-----|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 08-07-2019 | Mid-Ebb | TCE-C1 | Rainy | Moderate | 15:43 | 8.4 | Surface | 1.0 | 1 | 29.2 | 8.0 | 14.3 | 6.2 | 87.9 | 10.7 | 4.9 | 4.5 | 11.5 | 5.2 |
| | | | | | | | | | 2 | 29.2 | 8.0 | 14.3 | 6.2 | 87.9 | 10.7 | 4.5 | | | |
| | | | | | | | Middle | 4.2 | 1 | 27.3 | 8.0 | 23.3 | 2.8 | 40.2 | 11.4 | 4.6 | | | |
| | | | | | | | | | 2 | 27.3 | 8.0 | 23.3 | 2.8 | 40.2 | 11.4 | 5.0 | | | |
| | | | | | | | Bottom | 7.4 | 1 | 26.4 | 8.0 | 30.2 | 3.0 | 43.5 | 12.4 | 5.8 | | | |
| | | | | | | | | | 2 | 26.4 | 8.0 | 30.2 | 3.0 | 43.5 | 12.4 | 6.3 | | | |
| | | | | 2 | 29.6 | 8.0 | 13.3 | 6.5 | 91.5 | 9.7 | 3.1 | | | | | | | | |
| | | | | 2 | 29.6 | 8.0 | 13.3 | 6.5 | 91.5 | 9.7 | 2.7 | | | | | | | | |
| | | Middle | 6.2 | 1 | 29.3 | 8.0 | 14.5 | 5.9 | 82.8 | 11.3 | 4.0 | | | | | | | | |
| | | | | 2 | 29.3 | 8.0 | 14.5 | 5.9 | 82.8 | 11.3 | 3.7 | | | | | | | | |
| | | Bottom | 11.4 | 1 | 28.8 | 7.9 | 17.3 | 5.4 | 77.0 | 15.9 | 4.5 | | | | | | | | |
| | | | | 2 | 28.8 | 7.9 | 17.3 | 5.4 | 77.0 | 15.9 | 4.7 | | | | | | | | |
| | | | 2 | 29.4 | 8.0 | 15.5 | 6.1 | 86.4 | 10.7 | 6.2 | | | | | | | | | |
| | | | 2 | 29.4 | 8.0 | 15.5 | 6.1 | 86.4 | 10.7 | 5.8 | | | | | | | | | |
| | Middle | 4.1 | 1 | 29.1 | 7.9 | 16.0 | 5.3 | 76.0 | 12.2 | 6.4 | | | | | | | | | |
| | | | 2 | 29.1 | 7.9 | 16.0 | 5.3 | 76.0 | 12.2 | 6.3 | | | | | | | | | |
| | Bottom | 7.2 | 1 | 28.7 | 7.9 | 18.0 | 4.7 | 67.0 | 15.3 | 8.1 | | | | | | | | | |
| | | | 2 | 28.7 | 7.9 | 18.0 | 4.7 | 67.0 | 15.3 | 7.8 | | | | | | | | | |
| | | | 2 | 29.2 | 8.0 | 15.9 | 6.0 | 85.0 | 15.0 | 8.0 | | | | | | | | | |
| | | | 2 | 29.2 | 8.0 | 15.9 | 6.0 | 85.0 | 15.0 | 7.7 | | | | | | | | | |
| | Middle | 3.8 | 1 | 29.1 | 8.0 | 16.2 | 5.6 | 79.4 | 11.2 | 9.4 | | | | | | | | | |
| | | | 2 | 29.1 | 8.0 | 16.2 | 5.6 | 79.4 | 11.2 | 9.2 | | | | | | | | | |
| | Bottom | 6.6 | 1 | 28.7 | 8.0 | 18.2 | 5.4 | 76.6 | 11.5 | 12.3 | | | | | | | | | |
| | | | 2 | 28.7 | 8.0 | 18.2 | 5.4 | 76.6 | 11.5 | 11.7 | | | | | | | | | |
| | | 2 | 29.6 | 8.1 | 12.7 | 6.1 | 85.8 | 10.4 | 4.8 | | | | | | | | | | |
| | | 2 | 29.6 | 8.1 | 12.7 | 6.1 | 85.8 | 10.4 | 4.8 | | | | | | | | | | |
| Middle | 5.2 | 1 | 29.0 | 8.1 | 14.9 | 5.1 | 72.1 | 13.8 | 3.9 | | | | | | | | | | |
| | | 2 | 29.0 | 8.1 | 14.9 | 5.1 | 72.1 | 13.8 | 3.6 | | | | | | | | | | |
| Bottom | 9.3 | 1 | 28.4 | 8.0 | 24.1 | 4.8 | 69.9 | 19.5 | 4.8 | | | | | | | | | | |
| | | 2 | 28.4 | 8.0 | 24.1 | 4.8 | 69.9 | 19.5 | 4.5 | | | | | | | | | | |
| | | 2 | 29.5 | 7.9 | 15.3 | 5.9 | 83.4 | 11.8 | 6.1 | | | | | | | | | | |
| | | 2 | 29.5 | 7.9 | 15.3 | 5.9 | 83.4 | 11.8 | 6.3 | | | | | | | | | | |
| Bottom | 2.9 | 1 | 29.0 | 7.8 | 15.9 | 5.7 | 80.3 | 13.7 | 9.0 | | | | | | | | | | |
| | | 2 | 29.0 | 7.8 | 15.9 | 5.7 | 80.3 | 13.7 | 9.4 | | | | | | | | | | |
| | | 2 | 29.7 | 8.1 | 15.1 | 6.5 | 92.5 | 11.6 | 3.4 | | | | | | | | | | |
| | | 2 | 29.7 | 8.1 | 15.1 | 6.5 | 92.5 | 11.6 | 3.1 | | | | | | | | | | |
| Bottom | 2.4 | 1 | 29.2 | 8.0 | 15.9 | 5.8 | 82.0 | 16.3 | 8.0 | | | | | | | | | | |
| | | 2 | 29.2 | 8.0 | 15.9 | 5.8 | 82.0 | 16.3 | 8.3 | | | | | | | | | | |
| | | 2 | 29.1 | 7.8 | 12.2 | 6.2 | 85.6 | 10.8 | 4.3 | | | | | | | | | | |
| | | 2 | 29.1 | 7.8 | 12.2 | 6.2 | 85.6 | 10.8 | 3.9 | | | | | | | | | | |
| Middle | 4.6 | 1 | 27.0 | 7.8 | 26.0 | 2.4 | 34.8 | 11.5 | 5.0 | | | | | | | | | | |
| | | 2 | 27.0 | 7.8 | 26.0 | 2.4 | 34.8 | 11.5 | 4.8 | | | | | | | | | | |
| Bottom | 8.2 | 1 | 26.7 | 7.8 | 28.8 | 2.6 | 37.6 | 9.1 | 7.3 | | | | | | | | | | |
| | | 2 | 26.7 | 7.8 | 28.8 | 2.6 | 37.6 | 9.1 | 6.9 | | | | | | | | | | |
| | | 2 | 28.9 | 7.8 | 14.3 | 5.5 | 77.5 | 9.3 | 2.6 | | | | | | | | | | |
| | | 2 | 28.9 | 7.8 | 14.3 | 5.5 | 77.5 | 9.3 | 2.8 | | | | | | | | | | |
| Middle | 6.1 | 1 | 28.6 | 7.8 | 17.1 | 4.8 | 67.4 | 9.8 | 3.0 | | | | | | | | | | |
| | | 2 | 28.6 | 7.8 | 17.1 | 4.8 | 67.4 | 9.8 | 2.6 | | | | | | | | | | |
| Bottom | 11.2 | 1 | 27.1 | 7.8 | 26.5 | 3.6 | 52.3 | 10.3 | 3.6 | | | | | | | | | | |
| | | 2 | 27.1 | 7.8 | 26.5 | 3.6 | 52.3 | 10.3 | 3.9 | | | | | | | | | | |
| | | 2 | 29.1 | 7.8 | 15.3 | 5.7 | 81.2 | 11.0 | 2.7 | | | | | | | | | | |
| | | 2 | 29.1 | 7.8 | 15.3 | 5.7 | 81.2 | 11.0 | 3.1 | | | | | | | | | | |
| Middle | 4.2 | 1 | 29.0 | 7.8 | 15.9 | 5.4 | 76.7 | 15.0 | 6.1 | | | | | | | | | | |
| | | 2 | 29.0 | 7.8 | 15.9 | 5.4 | 76.7 | 15.0 | 5.9 | | | | | | | | | | |
| Bottom | 7.4 | 1 | 28.7 | 7.8 | 17.7 | 5.1 | 72.7 | 12.8 | 7.9 | | | | | | | | | | |
| | | 2 | 28.7 | 7.8 | 17.7 | 5.1 | 72.7 | 12.8 | 7.8 | | | | | | | | | | |
| | | 2 | 29.0 | 7.7 | 14.8 | 5.7 | 80.8 | 11.3 | 4.1 | | | | | | | | | | |
| | | 2 | 29.0 | 7.7 | 14.8 | 5.7 | 80.8 | 11.3 | 4.0 | | | | | | | | | | |
| Middle | 3.8 | 1 | 28.9 | 7.7 | 15.4 | 5.6 | 78.5 | 13.6 | 5.7 | | | | | | | | | | |
| | | 2 | 28.9 | 7.7 | 15.4 | 5.6 | 78.5 | 13.6 | 6.1 | | | | | | | | | | |
| Bottom | 6.6 | 1 | 28.8 | 7.7 | 15.7 | 5.6 | 79.8 | 14.8 | 8.1 | | | | | | | | | | |
| | | 2 | 28.8 | 7.7 | 15.7 | 5.6 | 79.8 | 14.8 | 8.4 | | | | | | | | | | |
| | | 2 | 29.1 | 7.8 | 13.6 | 5.8 | 80.8 | 15.7 | 3.0 | | | | | | | | | | |
| | | 2 | 29.1 | 7.8 | 13.6 | 5.8 | 80.8 | 15.9 | 3.3 | | | | | | | | | | |
| Middle | 5.2 | 1 | 28.6 | 7.8 | 16.5 | 4.9 | 68.7 | 17.2 | 5.5 | | | | | | | | | | |
| | | 2 | 28.6 | 7.8 | 16.5 | 4.9 | 68.7 | 17.2 | 5.8 | | | | | | | | | | |
| Bottom | 9.4 | 1 | 27.8 | 7.8 | 22.2 | 4.0 | 58.0 | 15.6 | 9.9 | | | | | | | | | | |
| | | 2 | 27.8 | 7.8 | 22.2 | 4.0 | 58.0 | 15.6 | 9.7 | | | | | | | | | | |
| | | 2 | 29.1 | 7.7 | 14.5 | 5.8 | 81.9 | 15.4 | 3.9 | | | | | | | | | | |
| | | 2 | 29.1 | 7.7 | 14.5 | 5.8 | 81.9 | 15.4 | 3.9 | | | | | | | | | | |
| Bottom | 3.1 | 1 | 29.0 | 7.7 | 14.8 | 5.8 | 81.9 | 17.3 | 4.4 | | | | | | | | | | |
| | | 2 | 29.0 | 7.7 | 14.8 | 5.8 | 81.9 | 17.3 | 4.0 | | | | | | | | | | |
| | | 2 | 28.9 | 7.9 | 14.9 | 5.6 | 78.7 | 14.6 | 9.6 | | | | | | | | | | |
| | | 2 | 28.9 | 7.9 | 14.9 | 5.6 | 78.7 | 14.6 | 9.9 | | | | | | | | | | |
| Bottom | 2.6 | 1 | 28.9 | 7.9 | 15.2 | 5.5 | 77.8 | 16.1 | 14.1 | | | | | | | | | | |
| | | 2 | 28.9 | 7.9 | 15.2 | 5.5 | 77.8 | 16.1 | 14.0 | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppH) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|---------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|------|------|------|-----|-----|------|-----|------|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | | | | |
| 10-07-2019 | Mid-Ebb | TCE-C1 | Rainy | Moderate | 9:23 | 8.1 | Surface | 1.0 | 1 | 29.2 | 8.3 | 8.0 | 6.7 | 91.8 | 11.1 | 4.8 | 6.6 | 10.8 | 5.0 | | | | | | | | | |
| | | | | | | | | | 2 | 29.2 | 8.3 | 8.0 | 6.7 | 91.7 | 11.1 | 5.1 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 29.2 | 8.2 | 9.5 | 6.6 | 90.2 | 10.8 | 4.7 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.2 | 8.2 | 9.5 | 6.6 | 90.0 | 10.8 | 5.3 | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.1 | 1 | 29.0 | 8.2 | 12.1 | 6.5 | 90.0 | 10.4 | 5.2 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.0 | 8.2 | 12.1 | 6.5 | 90.0 | 10.4 | 5.1 | | | | | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 7:20 | 12.4 | Surface | 1.0 | 1 | 29.1 | 8.1 | 12.7 | 5.9 | 82.6 | 9.6 | 2.9 | 5.6 | 9.6 | 2.8 | | | | | | | | | |
| | | | | | | | | | 2 | 29.1 | 8.1 | 12.7 | 5.9 | 82.6 | 9.6 | 2.5 | | | | | | | | | | | | |
| | | | | | | | Middle | 6.2 | 1 | 28.9 | 8.0 | 16.1 | 5.2 | 74.3 | 9.5 | 2.6 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.9 | 8.0 | 16.1 | 5.2 | 74.3 | 9.5 | 2.7 | | | | | | | | | | | | |
| | | | | | | | Bottom | 11.4 | 1 | 27.8 | 8.1 | 22.8 | 4.1 | 58.5 | 9.7 | 3.2 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.8 | 8.1 | 22.8 | 4.1 | 58.5 | 9.7 | 3.0 | | | | | | | | | | | | |
| | | TCE-WQM1 | Cloudy | Calm | 8:43 | 8.4 | Surface | 1.0 | 1 | 29.1 | 8.1 | 14.3 | 5.7 | 79.9 | 12.2 | 4.8 | 5.4 | 14.4 | 5.5 | | | | | | | | | |
| | | | | | | | | | 2 | 29.1 | 8.1 | 14.3 | 5.7 | 79.9 | 12.2 | 5.3 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.2 | 1 | 29.0 | 8.1 | 15.5 | 5.1 | 71.9 | 16.7 | 5.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.0 | 8.1 | 15.5 | 5.1 | 71.9 | 16.7 | 5.3 | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.4 | 1 | 28.5 | 8.0 | 18.7 | 4.7 | 67.9 | 14.4 | 6.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.5 | 8.0 | 18.7 | 4.7 | 67.9 | 14.4 | 6.0 | | | | | | | | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 8:07 | 7.2 | Surface | 1.0 | 1 | 29.1 | 7.9 | 15.3 | 5.8 | 81.6 | 13.8 | 5.2 | 5.7 | 14.5 | 5.1 | | | | | | | | | |
| | | | | | | | | | 2 | 29.1 | 7.9 | 15.3 | 5.8 | 81.6 | 13.8 | 5.1 | | | | | | | | | | | | |
| | | | | | | | Middle | 3.6 | 1 | 29.0 | 7.9 | 15.4 | 5.7 | 80.2 | 15.0 | 4.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.0 | 7.9 | 15.4 | 5.7 | 80.2 | 15.0 | 5.0 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.2 | 1 | 28.8 | 7.9 | 16.8 | 5.2 | 74.0 | 14.7 | 5.2 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.8 | 7.9 | 16.8 | 5.2 | 74.0 | 14.7 | 4.9 | | | | | | | | | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 7:54 | 10.3 | Surface | 1.0 | 1 | 29.3 | 8.1 | 10.2 | 6.1 | 84.1 | 10.1 | 3.3 | 5.7 | 11.0 | 3.8 | | | | | | | | | | |
| | | | | | | | | 2 | 29.3 | 8.1 | 10.2 | 6.1 | 84.1 | 10.1 | 3.5 | | | | | | | | | | | | | |
| | | | | | | Middle | 5.2 | 1 | 29.2 | 8.1 | 11.9 | 5.3 | 73.9 | 10.7 | 3.8 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 29.2 | 8.1 | 11.9 | 5.3 | 73.9 | 10.7 | 3.9 | | | | | | | | | | | | | |
| | | | | | | Bottom | 9.3 | 1 | 27.0 | 8.1 | 26.9 | 3.5 | 51.0 | 12.2 | 4.1 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.0 | 8.1 | 26.9 | 3.5 | 51.0 | 12.2 | 3.9 | | | | | | | | | | | | | |
| | TCE-WQM3A | Cloudy | Calm | 8:19 | 3.7 | Surface | 1.0 | 1 | 29.0 | 8.0 | 15.5 | 5.1 | 72.4 | 13.5 | 4.3 | 5.1 | 14.6 | 4.8 | | | | | | | | | | |
| | | | | | | | | 2 | 29.0 | 8.0 | 15.5 | 5.1 | 72.4 | 13.5 | 4.4 | | | | | | | | | | | | | |
| | | | | | | Bottom | 2.7 | 1 | 28.9 | 8.0 | 16.0 | 5.1 | 72.0 | 15.7 | 5.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.9 | 8.0 | 16.0 | 5.1 | 72.0 | 15.7 | 5.3 | | | | | | | | | | | | | |
| | | | | | | TCE-WQM4 | Cloudy | Calm | 8:31 | 3.3 | Surface | 1.0 | 1 | 29.0 | 7.9 | | | | 14.2 | 6.0 | 84.4 | 12.4 | 2.9 | 6.0 | 14.2 | 3.4 | | |
| | | | | | | | | | | | | | 2 | 29.0 | 7.9 | | | | 14.2 | 6.0 | 84.4 | 12.4 | 3.2 | | | | | |
| | Bottom | 2.3 | 1 | 29.0 | 7.9 | | | | | | 14.6 | 6.2 | 87.5 | 16.0 | 3.9 | | | | | | | | | | | | | |
| | | | 2 | 29.0 | 7.9 | | | | | | 14.6 | 6.2 | 87.5 | 16.0 | 3.6 | | | | | | | | | | | | | |
| | 10-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Moderate | | | | | | 11:46 | 8.3 | Surface | 1.0 | 1 | 29.2 | 8.3 | 8.1 | 6.7 | 91.3 | 11.0 | 4.3 | 6.5 | | | | 10.7 | 4.3 |
| | | | | | | | | | | | | | | | 2 | 29.2 | 8.3 | 8.1 | 6.7 | 91.2 | 11.0 | 4.3 | | | | | | |
| | | | | | | Middle | 4.2 | 1 | 29.1 | 8.3 | | | 9.4 | 6.4 | 87.9 | 10.6 | 4.2 | | | | | | | | | | | |
| | | | | | | | | 2 | 29.1 | 8.3 | | | 9.5 | 6.4 | 87.7 | 10.6 | 4.5 | | | | | | | | | | | |
| | | | | | | Bottom | 7.3 | 1 | 29.1 | 8.2 | | | 12.1 | 6.5 | 90.3 | 10.6 | 4.3 | | | | | | | | | | | |
| | | | | | | | | 2 | 29.1 | 8.2 | | | 12.1 | 6.5 | 90.7 | 10.6 | 4.4 | | | | | | | | | | | |
| | | | TCE-C2 | Rainy | Moderate | 13:45 | 12.8 | Surface | 1.0 | 1 | 29.1 | 8.1 | 13.5 | 6.0 | 84.2 | 9.3 | 2.7 | 4.4 | 10.1 | 2.7 | | | | | | | | |
| | | | | | | | | | | 2 | 29.1 | 8.1 | 13.5 | 6.0 | 84.2 | 9.3 | 2.9 | | | | | | | | | | | |
| | | | | | | | | Middle | 6.4 | 1 | 27.0 | 8.1 | 26.2 | 2.9 | 41.4 | 9.8 | 3.0 | | | | | | | | | | | |
| | | | | | | | | | | 2 | 27.0 | 8.1 | 26.2 | 2.9 | 41.4 | 9.8 | 2.8 | | | | | | | | | | | |
| Bottom | | | | | | | | 11.8 | 1 | 25.8 | 8.1 | 31.8 | 2.6 | 37.4 | 11.1 | 2.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.8 | 8.1 | 31.8 | 2.6 | 37.4 | 11.1 | 2.3 | | | | | | | | | | | | |
| TCE-WQM1 | | | Cloudy | Moderate | 12:31 | 8.2 | Surface | 1.0 | 1 | 29.1 | 7.9 | 14.3 | 6.4 | 89.8 | 11.7 | 9.4 | 6.3 | 13.8 | 7.6 | | | | | | | | | |
| | | | | | | | | | 2 | 29.1 | 7.9 | 14.3 | 6.4 | 89.8 | 11.7 | 9.0 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 29.0 | 7.9 | 14.9 | 6.1 | 86.7 | 14.7 | 7.8 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.0 | 7.9 | 14.9 | 6.1 | 86.7 | 14.7 | 7.7 | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.2 | 1 | 29.0 | 8.0 | 15.3 | 6.3 | 88.5 | 15.0 | 5.7 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.0 | 8.0 | 15.3 | 6.3 | 88.5 | 15.0 | 6.0 | | | | | | | | | | | | |
| TCE-WQM2a | | | Cloudy | Moderate | 13:00 | 7.3 | Surface | 1.0 | 1 | 29.1 | 7.9 | 13.3 | 5.9 | 82.9 | 12.1 | 12.1 | 5.8 | 13.7 | 12.4 | | | | | | | | | |
| | | | | | | | | | 2 | 29.1 | 7.9 | 13.3 | 5.9 | 82.9 | 12.1 | 12.3 | | | | | | | | | | | | |
| | | | | | | | Middle | 3.7 | 1 | 29.0 | 7.8 | 14.3 | 5.8 | 80.9 | 13.2 | 12.1 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.0 | 7.8 | 14.3 | 5.8 | 80.9 | 13.2 | 12.4 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.3 | 1 | 28.8 | 7.8 | 16.2 | 5.4 | 76.2 | 15.9 | 12.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.8 | 7.8 | 16.2 | 5.4 | 76.2 | 15.9 | 12.6 | | | | | | | | | | | | |
| TCE-WQM2b | | Cloudy | Moderate | 13:17 | 10.6 | Surface | 1.0 | 1 | 29.0 | 7.9 | 13.5 | 5.7 | 79.6 | 10.0 | 2.2 | 5.3 | 12.7 | 2.4 | | | | | | | | | | |
| | | | | | | | | 2 | 29.0 | 7.9 | 13.5 | 5.7 | 79.6 | 10.0 | 2.1 | | | | | | | | | | | | | |
| | | | | | | Middle | 5.3 | 1 | 28.7 | 7.9 | 16.2 | 4.8 | 68.5 | 13.4 | 2.1 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.7 | 7.9 | 16.2 | 4.8 | 68.5 | 13.4 | 2.3 | | | | | | | | | | | | | |
| | | | | | | Bottom | 9.6 | 1 | 27.9 | 7.9 | 21.8 | 4.5 | 65.2 | 14.8 | 3.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.9 | 7.9 | 21.8 | 4.5 | 65.2 | 14.8 | 2.9 | | | | | | | | | | | | | |
| TCE-WQM3A | | Cloudy | Moderate | 12:55 | 3.7 | Surface | 1.0 | 1 | 29.2 | 7.9 | 12.9 | 6.4 | 89.6 | 9.4 | 7.9 | 6.4 | 9.7 | 8.4 | | | | | | | | | | |
| | | | | | | | | 2 | 29.2 | 7.9 | 12.9 | 6.4 | 89.5 | 9.4 | 8.2 | | | | | | | | | | | | | |
| | | | | | | Bottom | 2.7 | 1 | 29.2 | 7.9 | 13.2 | 6.1 | 86.1 | 9.9 | 8.8 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 29.2 | 7.9 | 13.2 | 6.1 | 86.1 | 9.9 | 8.5 | | | | | | | | | | | | | |
| | | | | | | TCE-WQM4 | Cloudy | Moderate | 12:43 | 3.3 | Surface | 1.0 | 1 | 29.1 | 7.9 | | | | 13.2 | 6.2 | 87.2 | 11.7 | 3.6 | 6.2 | 13.1 | 3.7 | | |
| | | | | | | | | | | | | | 2 | 29.1 | 7.9 | | | | 13.2 | 6.2 | 87.2 | 11.7 | 3.6 | | | | | |
| Bottom | | 2.3 | 1 | 29.1 | 8.0 | | | | | | 13.6 | 6.1 | 86.0 | 14.5 | 3.6 | | | | | | | | | | | | | |
| | | | 2 | 29.1 | 8.0 | | | | | | 13.6 | 6.1 | 86.0 | 14.5 | 3.8 | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppH) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-------|-----|-----|-----|-----|-----|------|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | | | |
| 12-07-2019 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 11:00 | 7.9 | Surface | 1.0 | 1 | 29.7 | 7.9 | 7.6 | 6.6 | 90.8 | 9.4 | 5.5 | 6.4 | 10.3 | 6.8 | | | | | | | | |
| | | | | | | | | | 2 | 29.7 | 7.9 | 7.6 | 6.6 | 90.7 | 9.4 | 5.1 | | | | | | | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 29.5 | 7.9 | 8.2 | 6.2 | 84.6 | 10.3 | 6.1 | | | | | | | | | | | |
| | | | | | | | | | 2 | 29.5 | 7.9 | 8.2 | 6.1 | 84.2 | 10.2 | 5.7 | | | | | | | | | | | |
| | | | | | | | Bottom | 6.9 | 1 | 26.8 | 7.9 | 26.5 | 4.3 | 62.9 | 11.1 | 9.3 | | | | | | | | | | | |
| | | | | | | | | | 2 | 26.8 | 7.9 | 26.4 | 4.4 | 63.0 | 11.2 | 8.9 | | | | | | | | | | | |
| | | TCE-C2 | Sunny | Moderate | 8:50 | 15.4 | Surface | 1.0 | 1 | 29.1 | 7.6 | 11.2 | 5.9 | 81.1 | 5.5 | 3.8 | 5.4 | 7.4 | 4.3 | | | | | | | | |
| | | | | | | | | | 2 | 29.1 | 7.6 | 11.2 | 5.9 | 81.1 | 5.5 | 4.0 | | | | | | | | | | | |
| | | | | | | | Middle | 7.7 | 1 | 28.3 | 7.7 | 18.2 | 5.0 | 70.6 | 7.6 | 4.3 | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.3 | 7.7 | 18.2 | 5.0 | 70.7 | 7.6 | 4.2 | | | | | | | | | | | |
| | | | | | | | Bottom | 14.4 | 1 | 28.1 | 7.7 | 18.7 | 4.9 | 69.1 | 9.0 | 4.7 | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.1 | 7.8 | 18.8 | 4.9 | 69.2 | 9.0 | 4.8 | | | | | | | | | | | |
| | TCE-WQM1 | Sunny | Moderate | 10:08 | 10.2 | Surface | 1.0 | 1 | 29.0 | 7.9 | 13.6 | 4.8 | 66.9 | 10.7 | 4.1 | 4.1 | 8.3 | 5.4 | | | | | | | | | |
| | | | | | | | | 2 | 29.0 | 7.9 | 13.6 | 4.7 | 66.5 | 10.8 | 4.3 | | | | | | | | | | | | |
| | | | | | | Middle | 5.1 | 1 | 27.8 | 7.8 | 20.9 | 3.5 | 50.0 | 5.6 | 5.8 | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.8 | 7.8 | 20.9 | 3.5 | 49.9 | 5.7 | 5.6 | | | | | | | | | | | | |
| | | | | | | Bottom | 9.2 | 1 | 26.3 | 7.9 | 29.3 | 2.8 | 40.1 | 8.4 | 6.0 | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.3 | 7.9 | 29.3 | 2.8 | 40.5 | 8.4 | 6.3 | | | | | | | | | | | | |
| | TCE-WQM2a | Sunny | Moderate | 9:32 | 9.0 | Surface | 1.0 | 1 | 28.8 | 7.9 | 15.4 | 5.3 | 75.0 | 5.2 | 5.6 | 4.9 | 8.0 | 5.9 | | | | | | | | | |
| | | | | | | | | 2 | 28.8 | 7.9 | 15.4 | 5.3 | 75.0 | 5.2 | 5.8 | | | | | | | | | | | | |
| | | | | | | Middle | 4.5 | 1 | 28.4 | 7.8 | 17.4 | 4.5 | 63.7 | 8.7 | 5.8 | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.4 | 7.8 | 17.4 | 4.5 | 63.8 | 8.7 | 5.6 | | | | | | | | | | | | |
| | | | | | | Bottom | 8.0 | 1 | 27.1 | 7.9 | 24.6 | 3.6 | 51.7 | 10.2 | 6.0 | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.1 | 7.9 | 24.6 | 3.6 | 51.9 | 10.2 | 6.3 | | | | | | | | | | | | |
| TCE-WQM2b | Sunny | Moderate | 9:19 | 11.8 | Surface | 1.0 | 1 | 29.6 | 7.7 | 9.2 | 5.8 | 80.1 | 6.6 | 4.8 | 5.3 | 8.8 | 5.5 | | | | | | | | | | |
| | | | | | | | 2 | 29.6 | 7.7 | 9.1 | 5.8 | 79.9 | 6.6 | 4.6 | | | | | | | | | | | | | |
| | | | | | Middle | 5.9 | 1 | 28.8 | 7.7 | 14.1 | 4.8 | 67.7 | 9.8 | 6.2 | | | | | | | | | | | | | |
| | | | | | | | 2 | 28.8 | 7.7 | 14.1 | 4.8 | 67.3 | 9.7 | 5.8 | | | | | | | | | | | | | |
| | | | | | Bottom | 10.8 | 1 | 28.0 | 7.7 | 20.0 | 4.4 | 62.3 | 10.1 | 5.6 | | | | | | | | | | | | | |
| | | | | | | | 2 | 28.0 | 7.7 | 20.0 | 4.4 | 62.6 | 10.1 | 6.0 | | | | | | | | | | | | | |
| TCE-WQM3A | Sunny | Moderate | 9:44 | 4.6 | Surface | 1.0 | 1 | 28.7 | 7.8 | 15.4 | 4.9 | 69.4 | 4.9 | 7.1 | 4.9 | 6.9 | 7.4 | | | | | | | | | | |
| | | | | | | | 2 | 28.7 | 7.8 | 15.3 | 4.9 | 69.0 | 4.9 | 6.8 | | | | | | | | | | | | | |
| | | | | | Bottom | 3.6 | 1 | 28.5 | 7.8 | 16.9 | 4.4 | 62.0 | 8.8 | 8.0 | | | | | | | | | | | | | |
| | | | | | | | 2 | 28.5 | 7.8 | 16.9 | 4.4 | 62.0 | 8.8 | 7.7 | | | | | | | | | | | | | |
| | | | | | TCE-WQM4 | Sunny | Moderate | 9:55 | 3.9 | Surface | 1.0 | 1 | 29.1 | 8.0 | | | | 13.4 | 6.2 | 87.0 | 9.7 | 6.4 | 6.2 | 6.7 | 6.4 | | |
| | | | | | | | | | | | | 2 | 29.1 | 8.0 | | | | 13.4 | 6.2 | 86.9 | 9.8 | 6.1 | | | | | |
| Bottom | 2.9 | 1 | 29.1 | 7.9 | | | | | | 13.5 | 6.0 | 83.9 | 3.6 | 6.3 | | | | | | | | | | | | | |
| | | 2 | 29.1 | 7.9 | | | | | | 13.5 | 6.0 | 83.9 | 3.6 | 6.3 | | | | | | | | | | | | | |
| 12-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Rough | | | | | | 14:48 | 7.5 | Surface | 1.0 | 1 | 30.0 | 7.8 | 7.9 | 6.3 | 87.6 | 8.9 | 4.2 | 6.3 | | | | 10.4 | 5.2 |
| | | | | | | | | | | | | | | 2 | 30.0 | 7.8 | 7.9 | 6.3 | 87.3 | 8.9 | 4.6 | | | | | | |
| | | | | | Middle | 3.8 | 1 | 30.0 | 7.8 | | | 8.1 | 6.3 | 86.6 | 10.9 | 4.7 | | | | | | | | | | | |
| | | | | | | | 2 | 30.0 | 7.8 | | | 8.1 | 6.3 | 86.7 | 10.9 | 5.0 | | | | | | | | | | | |
| | | | | | Bottom | 6.5 | 1 | 27.8 | 7.9 | | | 21.1 | 5.1 | 73.5 | 11.4 | 6.3 | | | | | | | | | | | |
| | | | | | | | 2 | 27.8 | 7.9 | | | 21.0 | 5.2 | 74.5 | 11.3 | 6.1 | | | | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 16:36 | 13.6 | Surface | 1.0 | 1 | 30.0 | 7.9 | 11.0 | 6.4 | 90.1 | 4.3 | 5.1 | 4.9 | 7.0 | 5.4 | | | | | | | | |
| | | | | | | | | | 2 | 30.0 | 7.9 | 10.9 | 6.4 | 89.9 | 4.3 | 5.0 | | | | | | | | | | | |
| | | | | | | | Middle | 6.8 | 1 | 26.9 | 7.9 | 26.8 | 3.4 | 48.7 | 6.5 | 5.0 | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.0 | 7.9 | 26.4 | 3.4 | 49.2 | 6.5 | 5.4 | | | | | | | | | | | |
| | | | | | | | Bottom | 12.6 | 1 | 25.8 | 7.9 | 30.9 | 4.6 | 67.0 | 10.3 | 5.7 | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.9 | 7.9 | 30.8 | 4.6 | 67.1 | 10.1 | 5.9 | | | | | | | | | | | |
| | TCE-WQM1 | Cloudy | Moderate | 15:24 | 8.5 | Surface | 1.0 | 1 | 29.8 | 8.0 | 13.6 | 6.6 | 93.8 | 7.8 | 6.3 | 6.3 | 9.3 | 7.6 | | | | | | | | | |
| | | | | | | | | 2 | 29.8 | 8.0 | 13.6 | 6.6 | 93.5 | 7.9 | 6.6 | | | | | | | | | | | | |
| | | | | | | Middle | 4.3 | 1 | 29.2 | 8.0 | 15.1 | 6.0 | 84.8 | 8.6 | 7.0 | | | | | | | | | | | | |
| | | | | | | | | 2 | 29.2 | 8.0 | 15.1 | 6.0 | 84.5 | 8.6 | 6.9 | | | | | | | | | | | | |
| | | | | | | Bottom | 7.5 | 1 | 28.9 | 8.1 | 17.1 | 6.4 | 90.6 | 11.5 | 9.2 | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.9 | 8.1 | 17.1 | 6.4 | 91.0 | 11.5 | 9.3 | | | | | | | | | | | | |
| | TCE-WQM2a | Rainy | Rough | 15:58 | 7.2 | Surface | 1.0 | 1 | 29.5 | 7.9 | 11.3 | 5.8 | 81.1 | 5.2 | 9.4 | 5.4 | 6.2 | 9.9 | | | | | | | | | |
| | | | | | | | | 2 | 29.5 | 7.9 | 11.3 | 5.8 | 81.1 | 5.2 | 9.1 | | | | | | | | | | | | |
| | | | | | | Middle | 3.6 | 1 | 28.4 | 7.9 | 15.7 | 4.9 | 68.9 | 6.2 | 9.7 | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.4 | 7.9 | 15.7 | 4.9 | 69.0 | 6.2 | 9.5 | | | | | | | | | | | | |
| | | | | | | Bottom | 6.2 | 1 | 28.1 | 7.9 | 21.5 | 6.2 | 89.7 | 7.2 | 10.7 | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.9 | 7.9 | 20.3 | 6.2 | 90.0 | 7.1 | 10.8 | | | | | | | | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 16:10 | 9.8 | Surface | 1.0 | 1 | 29.9 | 7.9 | 8.9 | 6.1 | 84.1 | 8.7 | 7.6 | 5.8 | 10.1 | 9.3 | | | | | | | | | | |
| | | | | | | | 2 | 29.9 | 7.9 | 8.8 | 6.1 | 83.9 | 8.7 | 7.7 | | | | | | | | | | | | | |
| | | | | | Middle | 4.9 | 1 | 29.5 | 7.9 | 13.1 | 5.5 | 76.9 | 9.6 | 9.2 | | | | | | | | | | | | | |
| | | | | | | | 2 | 29.5 | 7.9 | 13.1 | 5.4 | 76.6 | 9.6 | 9.5 | | | | | | | | | | | | | |
| | | | | | Bottom | 8.8 | 1 | 27.8 | 7.8 | 20.3 | 4.0 | 56.3 | 11.9 | 10.7 | | | | | | | | | | | | | |
| | | | | | | | 2 | 27.8 | 7.8 | 20.3 | 4.0 | 56.2 | 11.9 | 10.9 | | | | | | | | | | | | | |
| TCE-WQM3A | Rainy | Moderate | 15:47 | 3.3 | Surface | 1.0 | 1 | 29.9 | 8.0 | 12.6 | 6.9 | 98.1 | 10.4 | 8.3 | 6.9 | 10.8 | 9.1 | | | | | | | | | | |
| | | | | | | | 2 | 29.9 | 8.0 | 12.6 | 6.9 | 98.1 | 10.4 | 8.2 | | | | | | | | | | | | | |
| | | | | | Bottom | 2.3 | 1 | 29.7 | 8.1 | 13.4 | 7.0 | 99.0 | 11.1 | 9.8 | | | | | | | | | | | | | |
| | | | | | | | 2 | 29.7 | 8.1 | 13.4 | 7.0 | 98.8 | 11.2 | 10.1 | | | | | | | | | | | | | |
| | | | | | TCE-WQM4 | Cloudy | Moderate | 15:36 | 3.1 | Surface | 1.0 | 1 | 29.9 | 8.0 | | | | 13.7 | 7.2 | 102.7 | 8.5 | 5.6 | 7.2 | 9.1 | 5.9 | | |
| | | | | | | | | | | | | 2 | 29.9 | 8.0 | | | | 13.7 | 7.2 | 102.5 | 8.5 | 6.2 | | | | | |
| Bottom | 2.1 | 1 | 29.8 | 8.0 | | | | | | 14.0 | 7.6 | 107.9 | 9.7 | 5.9 | | | | | | | | | | | | | |
| | | 2 | 29.8 | 8.0 | | | | | | 14.0 | 7.6 | 108.5 | 9.7 | 5.7 | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppH) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | |
|------------|-----------|----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) |
| 15-07-2019 | Mid-Ebb | TCE-C1 | Fine | Moderate | 10:24 | 8.5 | Surface | 1.0 | 1 | 29.1 | 8.1 | 10.7 | 5.9 | 81.1 | 10.0 | 4.7 | 5.4 | 11.9 | 5.6 |
| | | | | | | | | | 2 | 29.2 | 8.2 | 9.8 | 5.9 | 81.1 | 10.1 | 4.8 | | | |
| | | | | | | | Middle | 4.3 | 1 | 27.8 | 8.2 | 17.6 | 5.0 | 69.6 | 10.0 | 5.9 | | | |
| | | | | | | | | | 2 | 27.8 | 8.2 | 17.4 | 5.0 | 69.4 | 10.0 | 5.9 | | | |
| | | | | | | | Bottom | 7.5 | 1 | 25.3 | 8.2 | 32.6 | 2.9 | 41.8 | 15.9 | 6.3 | | | |
| | | | | | | | | | 2 | 25.3 | 8.2 | 32.7 | 2.9 | 42.4 | 15.5 | 6.2 | | | |
| | | | | 2 | 25.3 | 8.2 | 32.7 | 2.9 | 42.4 | 15.5 | 6.3 | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 12:25 | 13.2 | Surface | 1.0 | 1 | 29.5 | 8.0 | 9.9 | 6.3 | 86.6 | 9.8 | 7.9 | 5.5 | 9.9 | 7.1 |
| | | | | | | | | | 2 | 29.5 | 8.0 | 9.9 | 6.2 | 85.9 | 9.8 | 8.0 | | | |
| | | | | | | | Middle | 6.6 | 1 | 28.0 | 8.1 | 17.4 | 4.8 | 68.0 | 9.9 | 6.8 | | | |
| | | | | | | | | | 2 | 28.0 | 8.1 | 17.4 | 4.8 | 67.8 | 9.9 | 6.5 | | | |
| | | | | | | | Bottom | 12.2 | 1 | 26.5 | 8.2 | 27.4 | 4.4 | 64.4 | 10.0 | 6.8 | | | |
| | | | | | | | | 2 | 26.5 | 8.2 | 27.3 | 4.5 | 65.2 | 10.0 | 6.7 | | | | |
| | | | 2 | 26.5 | 8.2 | 27.3 | 4.5 | 65.2 | 10.0 | 6.7 | | | | | | | | | |
| | TCE-WQM1 | Fine | Calm | 11:15 | 8.0 | Surface | 1.0 | 1 | 30.0 | 8.2 | 10.5 | 7.3 | 101.7 | 10.7 | 9.3 | 6.5 | 12.2 | 9.3 | |
| | | | | | | | | 2 | 30.0 | 8.2 | 10.5 | 7.2 | 100.3 | 10.5 | 9.2 | | | | |
| | | | | | | Middle | 4.0 | 1 | 28.9 | 8.2 | 14.3 | 5.7 | 80.7 | 12.8 | 9.5 | | | | |
| | | | | | | | | 2 | 28.9 | 8.2 | 14.2 | 5.8 | 80.8 | 12.9 | 9.6 | | | | |
| | | | | | | Bottom | 7.0 | 1 | 27.0 | 8.1 | 24.0 | 4.1 | 59.2 | 13.1 | 9.1 | | | | |
| | | | | | | | | 2 | 27.0 | 8.1 | 24.0 | 4.1 | 59.5 | 13.1 | 9.3 | | | | |
| | | | 2 | 27.0 | 8.1 | 24.0 | 4.1 | 59.5 | 13.1 | 9.3 | | | | | | | | | |
| | TCE-WQM2a | Fine | Moderate | 11:49 | 7.3 | Surface | 1.0 | 1 | 29.6 | 8.2 | 11.4 | 7.3 | 101.7 | 11.0 | 7.6 | 6.7 | 13.0 | 9.4 | |
| | | | | | | | | 2 | 29.6 | 8.2 | 11.4 | 7.3 | 101.7 | 11.0 | 8.0 | | | | |
| | | | | | | Middle | 3.7 | 1 | 29.1 | 8.2 | 12.6 | 6.1 | 84.7 | 11.7 | 9.1 | | | | |
| | | | | | | | 2 | 29.1 | 8.2 | 13.4 | 6.0 | 83.9 | 11.9 | 9.4 | | | | | |
| Bottom | | | | | | 6.3 | 1 | 27.9 | 8.3 | 19.2 | 5.4 | 76.5 | 16.2 | 11.1 | | | | | |
| | | | | | | | 2 | 27.9 | 8.3 | 19.2 | 5.4 | 76.8 | 16.2 | 11.3 | | | | | |
| | | 2 | 27.9 | 8.3 | 19.2 | 5.4 | 76.8 | 16.2 | 11.3 | | | | | | | | | | |
| TCE-WQM2b | Fine | Moderate | 12:01 | 10.0 | Surface | 1.0 | 1 | 30.0 | 8.1 | 7.9 | 6.5 | 89.2 | 9.7 | 5.6 | 4.9 | 12.4 | 5.7 | | |
| | | | | | | | 2 | 30.0 | 8.1 | 7.9 | 6.4 | 88.8 | 9.7 | 5.8 | | | | | |
| | | | | | Middle | 5.0 | 1 | 26.8 | 8.3 | 26.0 | 3.3 | 47.7 | 13.3 | 5.8 | | | | | |
| | | | | | | | 2 | 26.9 | 8.3 | 25.4 | 3.3 | 47.9 | 13.3 | 5.6 | | | | | |
| | | | | | Bottom | 9.0 | 1 | 25.8 | 8.3 | 29.0 | 3.3 | 48.3 | 14.1 | 5.6 | | | | | |
| | | | | | | | 2 | 25.8 | 8.3 | 29.0 | 3.4 | 48.5 | 14.1 | 5.8 | | | | | |
| | | 2 | 25.8 | 8.3 | 29.0 | 3.4 | 48.5 | 14.1 | 5.8 | | | | | | | | | | |
| TCE-WQM3A | Fine | Calm | 11:38 | 3.8 | Surface | 1.0 | 1 | 29.5 | 8.3 | 11.8 | 5.7 | 79.5 | 14.1 | 8.1 | 5.7 | 14.8 | 9.2 | | |
| | | | | | | | 2 | 29.5 | 8.3 | 11.7 | 5.6 | 78.9 | 14.2 | 8.4 | | | | | |
| | | | | | Bottom | 2.8 | 1 | 28.9 | 8.3 | 14.2 | 5.6 | 79.2 | 15.5 | 10.0 | | | | | |
| | | | | | | | 2 | 28.8 | 8.3 | 14.4 | 5.9 | 82.4 | 15.4 | 10.3 | | | | | |
| | | | | | | | 2 | 28.8 | 8.3 | 14.4 | 5.9 | 82.4 | 15.4 | 10.3 | | | | | |
| | | | | | | | 2 | 28.8 | 8.3 | 14.4 | 5.9 | 82.4 | 15.4 | 10.3 | | | | | |
| TCE-WQM4 | Fine | Calm | 11:28 | 3.4 | Surface | 1.0 | 1 | 29.8 | 8.1 | 10.2 | 7.4 | 103.2 | 11.7 | 7.6 | 7.4 | 14.0 | 7.3 | | |
| | | | | | | | 2 | 29.8 | 8.1 | 10.2 | 7.4 | 102.6 | 12.0 | 8.1 | | | | | |
| | | | | | Bottom | 2.4 | 1 | 29.3 | 8.2 | 13.0 | 6.9 | 96.1 | 16.1 | 6.7 | | | | | |
| | | | | | | | 2 | 29.3 | 8.2 | 13.0 | 6.9 | 96.5 | 16.0 | 6.9 | | | | | |
| | | | | | | | 2 | 29.3 | 8.2 | 13.0 | 6.9 | 96.5 | 16.0 | 6.9 | | | | | |
| | | | | | | | 2 | 29.3 | 8.2 | 13.0 | 6.9 | 96.5 | 16.0 | 6.9 | | | | | |
| 15-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Moderate | 6:07 | 8.1 | Surface | 1.0 | 1 | 29.0 | 8.2 | 8.2 | 6.1 | 83.0 | 6.6 | 6.7 | 4.5 | 9.5 | 7.0 |
| | | | | | | | | | 2 | 29.0 | 8.2 | 8.2 | 6.1 | 83.0 | 6.7 | 6.5 | | | |
| | | | | | | | Middle | 4.1 | 1 | 25.7 | 8.3 | 30.2 | 2.9 | 42.3 | 7.4 | 7.1 | | | |
| | | | | | | | | | 2 | 25.7 | 8.3 | 30.3 | 2.9 | 42.5 | 7.7 | 7.3 | | | |
| | | | | | | | Bottom | 7.1 | 1 | 25.4 | 8.3 | 32.0 | 3.0 | 44.1 | 14.2 | 7.0 | | | |
| | | | | | | | | | 2 | 25.4 | 8.3 | 32.0 | 3.0 | 44.4 | 14.1 | 7.2 | | | |
| | | | | 2 | 25.4 | 8.3 | 32.0 | 3.0 | 44.4 | 14.1 | 7.2 | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 4:11 | 13.5 | Surface | 1.0 | 1 | 29.3 | 8.1 | 9.1 | 6.2 | 84.8 | 9.4 | 6.1 | 5.3 | 9.5 | 6.4 |
| | | | | | | | | | 2 | 29.3 | 8.1 | 9.1 | 6.2 | 84.6 | 9.3 | 6.3 | | | |
| | | | | | | | Middle | 6.8 | 1 | 27.7 | 8.1 | 19.9 | 4.4 | 62.9 | 9.6 | 6.0 | | | |
| | | | | | | | | | 2 | 27.7 | 8.1 | 19.9 | 4.4 | 62.8 | 9.6 | 6.1 | | | |
| | | | | | | | Bottom | 12.5 | 1 | 25.2 | 8.3 | 32.1 | 3.0 | 44.4 | 9.6 | 6.9 | | | |
| | | | | | | | | 2 | 25.2 | 8.3 | 32.1 | 3.1 | 44.5 | 9.6 | 7.1 | | | | |
| | | | 2 | 25.2 | 8.3 | 32.1 | 3.1 | 44.5 | 9.6 | 7.1 | | | | | | | | | |
| | TCE-WQM1 | Cloudy | Calm | 5:24 | 8.3 | Surface | 1.0 | 1 | 29.5 | 8.3 | 9.7 | 7.0 | 97.3 | 9.6 | 5.3 | 7.1 | 11.3 | 5.4 | |
| | | | | | | | | 2 | 29.5 | 8.3 | 9.7 | 7.1 | 97.5 | 9.7 | 5.2 | | | | |
| | | | | | | Middle | 4.2 | 1 | 29.6 | 8.4 | 10.4 | 7.1 | 98.9 | 10.2 | 4.4 | | | | |
| | | | | | | | | 2 | 29.6 | 8.4 | 10.4 | 7.1 | 98.8 | 10.2 | 4.8 | | | | |
| | | | | | | Bottom | 7.3 | 1 | 28.2 | 8.1 | 19.4 | 5.1 | 72.3 | 14.0 | 6.1 | | | | |
| | | | | | | | | 2 | 28.2 | 8.1 | 19.4 | 5.1 | 72.9 | 14.0 | 6.4 | | | | |
| | | | 2 | 28.2 | 8.1 | 19.4 | 5.1 | 72.9 | 14.0 | 6.4 | | | | | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 4:49 | 7.5 | Surface | 1.0 | 1 | 29.5 | 8.3 | 9.0 | 6.6 | 90.9 | 9.6 | 4.2 | 6.3 | 11.2 | 4.4 | |
| | | | | | | | | 2 | 29.5 | 8.3 | 9.0 | 6.6 | 90.9 | 9.6 | 3.9 | | | | |
| | | | | | | Middle | 3.8 | 1 | 29.3 | 8.2 | 11.7 | 5.9 | 82.1 | 10.3 | 4.0 | | | | |
| | | | | | | | 2 | 29.3 | 8.2 | 11.4 | 5.9 | 82.2 | 10.5 | 4.4 | | | | | |
| Bottom | | | | | | 6.5 | 1 | 28.7 | 8.2 | 15.8 | 5.0 | 71.1 | 13.5 | 4.8 | | | | | |
| | | | | | | | 2 | 28.7 | 8.2 | 15.8 | 5.1 | 71.3 | 13.5 | 4.9 | | | | | |
| | | 2 | 28.7 | 8.2 | 15.8 | 5.1 | 71.3 | 13.5 | 4.9 | | | | | | | | | | |
| TCE-WQM2b | Cloudy | Rough | 4:37 | 9.9 | Surface | 1.0 | 1 | 29.2 | 8.2 | 9.4 | 5.8 | 79.6 | 10.2 | 6.0 | 5.3 | 11.8 | 6.1 | | |
| | | | | | | | 2 | 29.2 | 8.2 | 9.4 | 5.8 | 79.3 | 10.3 | 5.9 | | | | | |
| | | | | | Middle | 5.0 | 1 | 28.4 | 8.2 | 16.4 | 4.8 | 67.4 | 11.3 | 5.9 | | | | | |
| | | | | | | | 2 | 28.5 | 8.2 | 16.2 | 4.8 | 67.7 | 11.3 | 6.1 | | | | | |
| | | | | | Bottom | 8.9 | 1 | 27.2 | 8.2 | 22.2 | 4.3 | 61.4 | 13.8 | 6.2 | | | | | |
| | | | | | | | 2 | 27.2 | 8.2 | 22.8 | 4.3 | 61.7 | 13.7 | 6.4 | | | | | |
| | | 2 | 27.2 | 8.2 | 22.8 | 4.3 | 61.7 | 13.7 | 6.4 | | | | | | | | | | |
| TCE-WQM3A | Cloudy | Calm | 5:00 | 4.0 | Surface | 1.0 | 1 | 29.4 | 8.2 | 9.3 | 6.6 | 90.4 | 10.1 | 4.5 | 6.6 | 11.1 | 4.8 | | |
| | | | | | | | 2 | 29.4 | 8.2 | 9.3 | 6.6 | 90.2 | 10.2 | 4.6 | | | | | |
| | | | | | Bottom | 3.0 | 1 | 29.4 | 8.2 | 9.4 | 6.5 | 90.1 | 12.0 | 4.9 | | | | | |
| | | | | | | | 2 | 29.4 | 8.2 | 9.5 | 6.6 | 90.5 | 12.2 | 5.0 | | | | | |
| | | | | | | | 2 | 29.4 | 8.2 | 9.5 | 6.6 | 90.5 | 12.2 | 5.0 | | | | | |
| | | | | | | | 2 | 29.4 | 8.2 | 9.5 | 6.6 | 90.5 | 12.2 | 5.0 | | | | | |
| TCE-WQM4 | Cloudy | Moderate | 5:12 | 3.5 | Surface | 1.0 | 1 | 29.4 | 8.2 | 10.1 | 6.4 | 88.4 | 12.4 | 4.8 | 6.4 | 13.7 | 5.2 | | |
| | | | | | | | 2 | 29.4 | 8.2 | 10.0 | 6.4 | 88.2 | 12.4 | 5.0 | | | | | |
| | | | | | Bottom | 2.5 | 1 | 29.4 | 8.2 | 10.7 | 6.3 | 87.4 | 15.0 | 5.6 | | | | | |
| | | | | | | | 2 | 29.4 | 8.2 | 10.6 | 6.3 | 87.5 | 15.1 | 5.5 | | | | | |
| | | | | | | | 2 | 29.4 | 8.2 | 10.6 | 6.3 | 87.5 | 15.1 | 5.5 | | | | | |
| | | | | | | | 2 | 29.4 | 8.2 | 10.6 | 6.3 | 87.5 | 15.1 | 5.5 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppH) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|---------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|------|-------|------|-----|------|------|-----|------|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | | | | |
| 17-07-2019 | Mid-Ebb | TCE-C1 | Fine | Moderate | 11:43 | 8.0 | Surface | 1.0 | 1 | 29.9 | 7.9 | 13.4 | 5.9 | 84.1 | 9.6 | 3.7 | 4.8 | 12.4 | 4.4 | | | | | | | | | |
| | | | | | | | | | 2 | 29.9 | 7.9 | 13.2 | 5.9 | 83.7 | 9.7 | 3.8 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.0 | 1 | 25.9 | 7.8 | 29.9 | 3.7 | 54.0 | 11.2 | 4.0 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 26.0 | 7.8 | 30.2 | 3.7 | 54.2 | 11.2 | 4.3 | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.0 | 1 | 25.2 | 7.8 | 32.5 | 4.0 | 58.8 | 16.3 | 5.1 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.2 | 7.8 | 32.5 | 4.1 | 59.6 | 16.1 | 5.4 | | | | | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 13:38 | 12.6 | Surface | 1.0 | 1 | 29.6 | 7.6 | 13.3 | 6.9 | 97.7 | 10.3 | 6.0 | 5.8 | 10.7 | 6.4 | | | | | | | | | |
| | | | | | | | | | 2 | 29.6 | 7.6 | 13.3 | 6.9 | 96.7 | 10.4 | 6.4 | | | | | | | | | | | | |
| | | | | | | | Middle | 6.3 | 1 | 27.7 | 7.7 | 20.6 | 4.8 | 68.5 | 10.4 | 6.2 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.7 | 7.7 | 20.6 | 4.8 | 68.6 | 10.4 | 6.4 | | | | | | | | | | | | |
| | | | | | | | Bottom | 11.6 | 1 | 25.8 | 7.8 | 29.3 | 4.5 | 65.6 | 11.2 | 6.6 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.8 | 7.8 | 29.3 | 4.6 | 66.2 | 11.2 | 6.9 | | | | | | | | | | | | |
| | | TCE-WQM1 | Fine | Calm | 12:31 | 7.7 | Surface | 1.0 | 1 | 30.0 | 7.8 | 14.1 | 8.2 | 117.3 | 11.9 | 6.3 | 6.1 | 15.1 | 7.0 | | | | | | | | | |
| | | | | | | | | | 2 | 30.0 | 7.8 | 14.1 | 8.2 | 116.5 | 11.9 | 6.1 | | | | | | | | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 27.2 | 7.7 | 23.7 | 4.0 | 56.9 | 17.7 | 6.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.2 | 7.7 | 23.7 | 4.0 | 57.0 | 17.8 | 7.2 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.7 | 1 | 26.6 | 7.8 | 26.8 | 4.3 | 62.9 | 15.5 | 7.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 26.6 | 7.8 | 26.8 | 4.4 | 63.4 | 15.7 | 7.6 | | | | | | | | | | | | |
| | | TCE-WQM2a | Cloudy | Moderate | 13:06 | 7.2 | Surface | 1.0 | 1 | 28.5 | 7.7 | 18.3 | 6.3 | 90.2 | 12.2 | 8.2 | 5.8 | 12.5 | 8.0 | | | | | | | | | |
| | | | | | | | | | 2 | 28.5 | 7.7 | 18.3 | 6.3 | 90.2 | 12.2 | 7.8 | | | | | | | | | | | | |
| | | | | | | | Middle | 3.6 | 1 | 28.1 | 7.7 | 19.8 | 5.3 | 76.3 | 12.2 | 8.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 28.1 | 7.7 | 19.8 | 5.3 | 75.8 | 12.2 | 8.1 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.2 | 1 | 27.4 | 7.8 | 24.2 | 5.1 | 74.4 | 13.2 | 7.5 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.4 | 7.8 | 24.0 | 5.2 | 74.6 | 13.1 | 8.1 | | | | | | | | | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 13:16 | 10.8 | Surface | 1.0 | 1 | 29.1 | 7.6 | 13.4 | 6.1 | 85.4 | 9.9 | 5.4 | 5.7 | 12.6 | 5.5 | | | | | | | | | | |
| | | | | | | | | 2 | 29.1 | 7.6 | 13.4 | 6.1 | 84.8 | 9.9 | 5.3 | | | | | | | | | | | | | |
| | | | | | | Middle | 5.4 | 1 | 28.7 | 7.7 | 15.7 | 5.4 | 76.3 | 10.6 | 5.3 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.7 | 7.7 | 15.7 | 5.4 | 75.6 | 10.8 | 5.1 | | | | | | | | | | | | | |
| | | | | | | Bottom | 9.8 | 1 | 26.7 | 7.7 | 25.6 | 4.9 | 70.6 | 17.3 | 6.1 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.7 | 7.7 | 25.8 | 5.0 | 71.5 | 16.8 | 5.9 | | | | | | | | | | | | | |
| | TCE-WQM3A | Cloudy | Calm | 12:54 | 3.6 | Surface | 1.0 | 1 | 29.1 | 7.6 | 16.3 | 6.2 | 88.7 | 13.3 | 7.6 | 6.2 | 14.2 | 9.0 | | | | | | | | | | |
| | | | | | | | | 2 | 29.1 | 7.6 | 16.3 | 6.2 | 87.9 | 13.4 | 7.8 | | | | | | | | | | | | | |
| | | | | | | Bottom | 2.6 | 1 | 28.2 | 7.6 | 19.4 | 5.4 | 77.5 | 15.1 | 10.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.2 | 7.6 | 19.4 | 5.5 | 77.8 | 15.1 | 10.4 | | | | | | | | | | | | | |
| | | | | | | TCE-WQM4 | Cloudy | Calm | 12:43 | 3.3 | Surface | 1.0 | 1 | 29.6 | 7.8 | | | | 14.4 | 8.9 | 125.8 | 11.2 | 5.7 | 8.9 | 11.4 | 6.3 | | |
| | | | | | | | | | | | | | 2 | 29.6 | 7.8 | | | | 14.4 | 8.9 | 125.7 | 11.3 | 5.8 | | | | | |
| | Bottom | 2.3 | 1 | 29.6 | 7.7 | | | | | | 14.6 | 8.1 | 115.6 | 11.5 | 7.0 | | | | | | | | | | | | | |
| | | | 2 | 29.6 | 7.6 | | | | | | 14.6 | 8.1 | 115.7 | 11.5 | 6.8 | | | | | | | | | | | | | |
| | 17-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Moderate | | | | | | 7:30 | 8.3 | Surface | 1.0 | 1 | 28.6 | 7.7 | 10.9 | 5.4 | 74.3 | 11.1 | 5.1 | 4.3 | | | | 12.8 | 5.0 |
| | | | | | | | | | | | | | | | 2 | 28.6 | 7.7 | 10.9 | 5.4 | 74.2 | 11.1 | 5.3 | | | | | | |
| | | | | | | Middle | 4.2 | 1 | 25.8 | 8.1 | | | 29.5 | 3.2 | 46.7 | 12.1 | 5.0 | | | | | | | | | | | |
| | | | | | | | | 2 | 25.7 | 8.1 | | | 29.7 | 3.2 | 46.7 | 12.3 | 4.7 | | | | | | | | | | | |
| | | | | | | Bottom | 7.3 | 1 | 25.4 | 8.0 | | | 32.0 | 3.7 | 53.4 | 15.3 | 4.9 | | | | | | | | | | | |
| | | | | | | | | 2 | 25.4 | 8.0 | | | 32.0 | 3.7 | 53.9 | 15.0 | 5.2 | | | | | | | | | | | |
| | | | TCE-C2 | Cloudy | Moderate | 5:36 | 12.8 | Surface | 1.0 | 1 | 28.8 | 7.8 | 15.9 | 5.9 | 83.5 | 9.3 | 6.0 | 5.2 | 9.8 | 6.8 | | | | | | | | |
| | | | | | | | | | | 2 | 28.8 | 7.8 | 16.0 | 5.9 | 83.6 | 9.3 | 5.9 | | | | | | | | | | | |
| | | | | | | | | Middle | 6.4 | 1 | 27.0 | 8.0 | 24.7 | 4.5 | 64.2 | 9.9 | 7.3 | | | | | | | | | | | |
| | | | | | | | | | | 2 | 27.0 | 8.0 | 24.6 | 4.5 | 64.2 | 10.0 | 7.2 | | | | | | | | | | | |
| Bottom | | | | | | | | 11.8 | 1 | 25.1 | 8.1 | 31.7 | 3.8 | 55.6 | 10.2 | 7.4 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.1 | 8.1 | 31.7 | 3.8 | 55.6 | 10.2 | 7.1 | | | | | | | | | | | | |
| TCE-WQM1 | | Cloudy | Moderate | 6:47 | 8.1 | Surface | 1.0 | 1 | 29.5 | 7.9 | 12.7 | 7.3 | 102.8 | 11.3 | 6.7 | 7.2 | 13.0 | 6.9 | | | | | | | | | | |
| | | | | | | | | 2 | 29.5 | 7.9 | 12.8 | 7.3 | 102.8 | 11.4 | 6.8 | | | | | | | | | | | | | |
| | | | | | | Middle | 4.1 | 1 | 29.6 | 7.9 | 13.9 | 7.0 | 99.8 | 12.8 | 6.9 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 29.6 | 7.9 | 13.8 | 7.0 | 99.6 | 12.9 | 6.6 | | | | | | | | | | | | | |
| | | | | | | Bottom | 7.1 | 1 | 27.8 | 7.7 | 20.5 | 5.1 | 73.4 | 14.9 | 7.2 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.8 | 7.7 | 20.5 | 5.2 | 74.2 | 14.8 | 6.9 | | | | | | | | | | | | | |
| TCE-WQM2a | | Cloudy | Moderate | 6:13 | 7.4 | Surface | 1.0 | 1 | 29.2 | 7.7 | 13.7 | 6.3 | 88.2 | 10.8 | 4.3 | 5.9 | 11.7 | 5.6 | | | | | | | | | | |
| | | | | | | | | 2 | 29.2 | 7.7 | 13.7 | 6.3 | 88.2 | 10.8 | 4.0 | | | | | | | | | | | | | |
| | | | | | | Middle | 3.7 | 1 | 28.7 | 7.7 | 16.3 | 5.6 | 78.7 | 10.9 | 5.7 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.7 | 7.7 | 16.3 | 5.6 | 78.6 | 11.0 | 5.5 | | | | | | | | | | | | | |
| | | | | | | Bottom | 6.4 | 1 | 28.0 | 7.7 | 19.7 | 5.1 | 72.3 | 13.2 | 7.3 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 28.0 | 7.7 | 19.7 | 5.1 | 72.7 | 13.2 | 6.9 | | | | | | | | | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 6:02 | 11.2 | Surface | 1.0 | 1 | 28.5 | 7.7 | 16.4 | 5.2 | 73.8 | 10.2 | 4.2 | 5.0 | 12.1 | 5.1 | | | | | | | | | | | |
| | | | | | | | 2 | 28.5 | 7.7 | 16.5 | 5.2 | 73.3 | 10.3 | 4.4 | | | | | | | | | | | | | | |
| | | | | | Middle | 5.6 | 1 | 28.2 | 7.7 | 18.5 | 4.8 | 68.1 | 11.3 | 5.3 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 28.2 | 7.7 | 18.4 | 4.8 | 67.9 | 11.5 | 4.9 | | | | | | | | | | | | | | |
| | | | | | Bottom | 10.2 | 1 | 27.0 | 7.6 | 25.0 | 4.7 | 68.4 | 14.7 | 5.6 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 27.0 | 7.6 | 25.0 | 4.8 | 69.3 | 14.4 | 5.9 | | | | | | | | | | | | | | |
| TCE-WQM3A | Cloudy | Calm | 6:26 | 3.8 | Surface | 1.0 | 1 | 29.2 | 7.7 | 13.3 | 6.1 | 85.0 | 11.4 | 5.2 | 6.1 | 12.7 | 5.3 | | | | | | | | | | | |
| | | | | | | | 2 | 29.2 | 7.7 | 13.2 | 6.0 | 84.7 | 11.5 | 5.4 | | | | | | | | | | | | | | |
| | | | | | Bottom | 2.8 | 1 | 29.0 | 7.6 | 14.8 | 5.6 | 79.3 | 13.8 | 5.2 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 29.0 | 7.6 | 14.8 | 5.6 | 79.3 | 13.9 | 5.3 | | | | | | | | | | | | | | |
| | | | | | TCE-WQM4 | Cloudy | Calm | 6:37 | 3.2 | Surface | 1.0 | 1 | 29.2 | 7.7 | | | | 13.1 | 6.4 | 89.6 | 12.4 | 6.1 | 6.4 | 12.7 | 6.1 | | | |
| | | | | | | | | | | | | 2 | 29.2 | 7.7 | | | | 13.1 | 6.4 | 89.1 | 12.3 | 6.3 | | | | | | |
| Bottom | 2.2 | 1 | 29.1 | 7.6 | | | | | | 13.5 | 6.3 | 88.8 | 13.0 | 6.1 | | | | | | | | | | | | | | |
| | | 2 | 29.1 | 7.6 | | | | | | 13.5 | 6.3 | 88.9 | 12.9 | 5.9 | | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppH) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | |
|------------|---------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|-------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|------|------|------|------|------|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | |
| 19-07-2019 | Mid-Ebb | TCE-C1 | Cloudy | Rough | 12:57 | 9.5 | Surface | 1.0 | 1 | 27.6 | 7.4 | 19.4 | 4.0 | 56.8 | 6.1 | 7.0 | 3.5 | 8.9 | 6.7 | | | | | | |
| | | | | | | | | | 2 | 27.5 | 7.4 | 19.2 | 4.0 | 56.5 | 6.2 | 6.6 | | | | | | | | | |
| | | | | | | | Middle | 4.8 | 1 | 25.3 | 7.5 | 31.5 | 3.1 | 44.8 | 8.8 | 6.5 | | | | | | | | | |
| | | | | | | | | | 2 | 25.3 | 7.5 | 31.5 | 3.1 | 44.8 | 8.8 | 6.8 | | | | | | | | | |
| | | | | | | | Bottom | 8.5 | 1 | 25.2 | 7.6 | 31.9 | 3.1 | 45.7 | 11.7 | 6.6 | | | | | | | | | |
| | | | | | | | | | 2 | 25.2 | 7.6 | 31.9 | 3.2 | 45.8 | 11.7 | 6.8 | | | | | | | | | |
| | | | | 3.1 | | | | | | | | | | | | | | | | | | | | | |
| | | | | TCE-C2 | Cloudy | Rough | 14:41 | 14.6 | Surface | 1.0 | 1 | 29.0 | 7.2 | 15.2 | 5.8 | 82.3 | 6.1 | 4.0 | 5.5 | 8.9 | 5.1 | | | | |
| | | | | | | | | | 2 | 29.0 | 7.2 | 15.2 | 5.8 | 82.2 | 6.1 | 3.7 | | | | | | | | | |
| | | Middle | 7.3 | | | | | | 1 | 28.4 | 7.2 | 17.9 | 5.3 | 75.1 | 9.4 | 5.0 | | | | | | | | | |
| | | | | | | | | | 2 | 28.4 | 7.2 | 17.9 | 5.3 | 74.8 | 9.5 | 5.3 | | | | | | | | | |
| | | Bottom | 13.6 | | | | | | 1 | 26.9 | 7.2 | 24.8 | 5.4 | 77.8 | 11.1 | 6.2 | | | | | | | | | |
| | | | | | | | | | 2 | 27.0 | 7.2 | 24.8 | 5.5 | 78.6 | 11.1 | 6.3 | | | | | | | | | |
| | | | | 5.4 | | | | | | | | | | | | | | | | | | | | | |
| | | | | TCE-WQM1 | Cloudy | Moderate | 13:34 | 8.4 | Surface | 1.0 | 1 | 29.1 | 7.7 | 17.6 | 6.4 | 91.1 | 3.7 | 5.7 | 5.4 | 6.4 | 5.7 | | | | |
| | | | | | | | | | 2 | 29.0 | 7.7 | 17.6 | 6.3 | 90.9 | 3.6 | 5.6 | | | | | | | | | |
| | | Middle | 4.2 | | | | | | 1 | 27.2 | 8.0 | 23.0 | 4.4 | 62.2 | 5.1 | 5.5 | | | | | | | | | |
| | | | | | | | | | 2 | 27.1 | 8.0 | 23.0 | 4.4 | 62.4 | 5.1 | 5.9 | | | | | | | | | |
| | | Bottom | 7.4 | | | | | | 1 | 26.8 | 8.0 | 25.9 | 5.0 | 72.3 | 10.4 | 5.7 | | | | | | | | | |
| | | | | | | | | | 2 | 26.8 | 8.0 | 25.9 | 5.1 | 73.3 | 10.4 | 5.9 | | | | | | | | | |
| | | | | 5.0 | | | | | | | | | | | | | | | | | | | | | |
| | | | | TCE-WQM2a | Cloudy | Moderate | 14:08 | 7.2 | Surface | 1.0 | 1 | 29.0 | 7.4 | 18.3 | 6.6 | 94.1 | 5.1 | 6.7 | 5.7 | 10.1 | 7.1 | | | | |
| | | | | | | | | | 2 | 29.0 | 7.4 | 18.3 | 6.6 | 94.1 | 5.1 | 6.9 | | | | | | | | | |
| | | Middle | 3.6 | | | | | | 1 | 27.8 | 7.3 | 20.6 | 4.9 | 70.5 | 10.4 | 7.4 | | | | | | | | | |
| | | | 2 | | | | | | 27.7 | 7.3 | 20.7 | 4.9 | 70.1 | 10.4 | 7.3 | | | | | | | | | | |
| | Bottom | 6.2 | 1 | | | | | | 26.8 | 7.2 | 24.4 | 4.9 | 70.1 | 14.9 | 7.0 | | | | | | | | | | |
| | | | 2 | | | | | | 26.8 | 7.2 | 25.1 | 4.9 | 70.2 | 14.9 | 7.3 | | | | | | | | | | |
| | | | 4.9 | | | | | | | | | | | | | | | | | | | | | | |
| | | | TCE-WQM2b | Cloudy | Moderate | 14:20 | 10.1 | Surface | 1.0 | 1 | 28.8 | 7.2 | 15.8 | 5.4 | 76.5 | 3.5 | 3.6 | 5.1 | 6.4 | 4.6 | | | | | |
| | | | | | | | | 2 | 28.8 | 7.2 | 15.8 | 5.4 | 76.5 | 3.6 | 3.7 | | | | | | | | | | |
| | Middle | 5.1 | | | | | | 1 | 28.3 | 7.2 | 17.6 | 4.8 | 67.4 | 5.2 | 5.0 | | | | | | | | | | |
| | | | | | | | | 2 | 28.3 | 7.2 | 17.6 | 4.7 | 67.0 | 5.3 | 5.2 | | | | | | | | | | |
| | Bottom | 9.1 | | | | | | 1 | 27.1 | 7.2 | 23.9 | 4.3 | 61.7 | 10.4 | 4.7 | | | | | | | | | | |
| | | | | | | | | 2 | 27.1 | 7.2 | 23.9 | 4.3 | 61.9 | 10.5 | 5.1 | | | | | | | | | | |
| | | | 4.3 | | | | | | | | | | | | | | | | | | | | | | |
| | | | TCE-WQM3A | Cloudy | Moderate | 13:57 | 3.6 | Surface | 1.0 | 1 | 27.8 | 7.2 | 21.4 | 4.2 | 60.7 | 5.3 | 4.9 | 4.2 | 8.1 | 5.4 | | | | | |
| | | | | | | | | 2 | 27.8 | 7.2 | 21.4 | 4.2 | 60.8 | 5.3 | 4.8 | | | | | | | | | | |
| | Bottom | 2.6 | | | | | | 1 | 27.3 | 7.2 | 23.5 | 4.3 | 61.9 | 10.9 | 5.8 | | | | | | | | | | |
| | | | | | | | | 2 | 27.3 | 7.2 | 23.5 | 4.3 | 62.0 | 10.9 | 6.2 | | | | | | | | | | |
| | | | | | | | | 4.3 | | | | | | | | | | | | | | | | | |
| | | | | | | | | TCE-WQM4 | Cloudy | Moderate | 13:46 | 3.2 | Surface | 1.0 | 1 | 29.2 | 7.4 | | | | 16.8 | 6.9 | 99.5 | 11.5 | 4.7 |
| | | | 2 | 29.2 | 7.4 | 16.8 | 6.9 | | | | | | 99.0 | 11.5 | 4.5 | | | | | | | | | | |
| | Bottom | 2.2 | 1 | 28.8 | 7.3 | 18.4 | 5.8 | | | | | | 82.5 | 14.8 | 6.4 | | | | | | | | | | |
| | | | 2 | 28.8 | 7.3 | 18.4 | 5.8 | | | | | | 82.5 | 14.8 | 6.1 | | | | | | | | | | |
| | | | 5.8 | | | | | | | | | | | | | | | | | | | | | | |
| | | | TCE-C1 | Fine | Rough | 9:03 | 8.0 | | | | | | Surface | 1.0 | 1 | 27.2 | 7.5 | 22.7 | 5.5 | 77.6 | 7.3 | 9.2 | 4.4 | 10.7 | 9.7 |
| | | | | | | | | 2 | 27.2 | 7.5 | 22.7 | 5.5 | 77.6 | 7.3 | 9.3 | | | | | | | | | | |
| | Middle | 4.0 | | | | | | 1 | 25.4 | 7.6 | 31.3 | 3.3 | 47.9 | 10.4 | 9.7 | | | | | | | | | | |
| | | 2 | | | | | | 25.4 | 7.7 | 31.3 | 3.3 | 47.9 | 10.4 | 9.9 | | | | | | | | | | | |
| Bottom | 7.0 | 1 | | | | | | 25.3 | 7.7 | 31.7 | 3.6 | 52.8 | 14.3 | 9.8 | | | | | | | | | | | |
| | | 2 | | | | | | 25.3 | 7.7 | 31.7 | 3.7 | 53.1 | 14.3 | 10.1 | | | | | | | | | | | |
| | | 3.6 | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-C2 | Fine | Moderate | 7:09 | 15.6 | Surface | 1.0 | 1 | 28.3 | 7.4 | 18.8 | 5.4 | 76.5 | 4.6 | 5.1 | 4.9 | 6.9 | 5.3 | | | | | | |
| | | | | | | | 2 | 28.3 | 7.4 | 18.8 | 5.4 | 76.4 | 4.6 | 4.5 | | | | | | | | | | | |
| Middle | 7.8 | | | | | | 1 | 27.9 | 7.5 | 20.7 | 4.4 | 62.7 | 6.5 | 5.1 | | | | | | | | | | | |
| | | | | | | | 2 | 27.9 | 7.5 | 20.7 | 4.3 | 62.1 | 6.5 | 5.1 | | | | | | | | | | | |
| Bottom | 14.6 | | | | | | 1 | 25.9 | 7.6 | 28.8 | 3.7 | 53.9 | 9.5 | 5.7 | | | | | | | | | | | |
| | | | | | | | 2 | 25.9 | 7.6 | 28.8 | 3.7 | 54.0 | 9.5 | 6.0 | | | | | | | | | | | |
| | | 3.7 | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM1 | Fine | Moderate | 8:17 | 10.5 | Surface | 1.0 | 1 | 29.1 | 7.4 | 16.4 | 6.5 | 92.2 | 7.2 | 5.6 | 6.3 | 9.4 | 6.3 | | | | | | |
| | | | | | | | 2 | 29.1 | 7.4 | 16.4 | 6.5 | 92.1 | 7.2 | 5.8 | | | | | | | | | | | |
| Middle | 5.3 | | | | | | 1 | 29.0 | 7.4 | 17.2 | 6.2 | 88.4 | 9.6 | 5.8 | | | | | | | | | | | |
| | | | | | | | 2 | 29.0 | 7.4 | 17.2 | 6.2 | 88.4 | 9.6 | 6.2 | | | | | | | | | | | |
| Bottom | 9.5 | | | | | | 1 | 29.0 | 7.4 | 17.7 | 6.3 | 89.7 | 11.4 | 7.2 | | | | | | | | | | | |
| | | | | | | | 2 | 29.0 | 7.4 | 17.5 | 6.3 | 90.6 | 11.2 | 7.3 | | | | | | | | | | | |
| | | 6.3 | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM2a | Fine | Moderate | 7:44 | 8.7 | Surface | 1.0 | 1 | 28.8 | 7.3 | 16.6 | 5.8 | 82.1 | 8.3 | 3.7 | 5.4 | 11.0 | 4.6 | | | | | | |
| | | | | | | | 2 | 28.8 | 7.3 | 16.6 | 5.8 | 82.1 | 8.3 | 3.9 | | | | | | | | | | | |
| Middle | 4.4 | | | | | | 1 | 28.1 | 7.3 | 19.8 | 5.0 | 71.2 | 11.0 | 4.6 | | | | | | | | | | | |
| | | | | | | | 2 | 28.1 | 7.3 | 19.8 | 5.0 | 71.2 | 11.0 | 4.9 | | | | | | | | | | | |
| Bottom | 7.7 | | | | | | 1 | 27.3 | 7.3 | 23.2 | 4.6 | 65.4 | 13.7 | 5.2 | | | | | | | | | | | |
| | | | | | | | 2 | 27.3 | 7.2 | 23.2 | 4.6 | 65.6 | 13.6 | 5.4 | | | | | | | | | | | |
| | | 4.6 | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM2b | Fine | Moderate | 7:32 | 11.8 | Surface | 1.0 | 1 | 28.2 | 7.2 | 18.8 | 5.0 | 70.4 | 5.2 | 4.0 | 4.8 | 8.2 | 3.8 | | | | | | |
| | | | | | | | 2 | 28.2 | 7.2 | 18.8 | 4.9 | 70.3 | 5.3 | 4.1 | | | | | | | | | | | |
| Middle | 5.9 | | | | | | 1 | 27.4 | 7.3 | 22.3 | 4.7 | 67.6 | 8.4 | 3.9 | | | | | | | | | | | |
| | | | | | | | 2 | 27.4 | 7.3 | 22.3 | 4.7 | 67.7 | 8.6 | 3.6 | | | | | | | | | | | |
| Bottom | 10.8 | | | | | | 1 | 27.5 | 7.2 | 22.3 | 4.9 | 70.7 | 10.7 | 3.8 | | | | | | | | | | | |
| | | | | | | | 2 | 27.5 | 7.2 | 22.3 | 5.0 | 70.9 | 10.7 | 3.6 | | | | | | | | | | | |
| | | 4.9 | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM3A | Fine | Moderate | 7:55 | 4.9 | Surface | 1.0 | 1 | 28.8 | 7.2 | 15.6 | 5.4 | 76.3 | 12.0 | 6.6 | 5.4 | 13.6 | 7.3 | | | | | | |
| | | | | | | | 2 | 28.8 | 7.2 | 15.6 | 5.4 | 76.4 | 12.1 | 6.7 | | | | | | | | | | | |
| Bottom | 3.9 | | | | | | 1 | 28.4 | 7.2 | 19.0 | 5.0 | 71.7 | 15.0 | 8.1 | | | | | | | | | | | |
| | | | | | | | 2 | 28.4 | 7.2 | 19.0 | 5.0 | 71.9 | 15.1 | 7.8 | | | | | | | | | | | |
| | | | | | | | 5.0 | | | | | | | | | | | | | | | | | | |
| | | | | | | | TCE-WQM4 | Fine | Moderate | 8:06 | 3.8 | Surface | 1.0 | 1 | 28.7 | 7.3 | | | | 16.4 | 5.5 | 77.5 | 6.4 | 5.0 | 5.5 |
| | | 2 | 28.7 | 7.3 | 16.4 | 5.5 | | | | | | 77.4 | 6.4 | 5.2 | | | | | | | | | | | |
| Bottom | 2.8 | 1 | 28.5 | 7.3 | 17.8 | 5.3 | | | | | | 75.9 | 12.5 | 6.7 | | | | | | | | | | | |
| | | 2 | 28.5 | 7.3 | 17.8 | 5.3 | | | | | | 75.8 | 12.5 | 6.5 | | | | | | | | | | | |
| | | 5.3 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppH) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|---------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|------|------|-----|-----|------|------|-----|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | | | | |
| 22-07-2019 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 14:33 | 7.5 | Surface | 1.0 | 1 | 27.3 | 6.9 | 20.8 | 4.8 | 67.5 | 8.5 | 3.5 | 4.3 | 10.7 | 4.8 | | | | | | | | | |
| | | | | | | | | | 2 | 27.3 | 6.9 | 20.8 | 4.8 | 67.4 | 8.5 | 3.8 | | | | | | | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 25.9 | 7.0 | 27.6 | 3.9 | 56.4 | 9.0 | 4.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.9 | 7.0 | 27.7 | 3.9 | 56.3 | 9.0 | 4.6 | | | | | | | | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 24.9 | 7.1 | 31.9 | 3.4 | 48.8 | 14.7 | 5.6 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 24.9 | 7.1 | 32.0 | 3.4 | 49.8 | 14.7 | 6.2 | | | | | | | | | | | | |
| | | TCE-C2 | Sunny | Moderate | 16:48 | 14.5 | Surface | 1.0 | 1 | 28.2 | 6.8 | 16.5 | 5.4 | 75.9 | 6.3 | 2.6 | 5.1 | 7.5 | 3.5 | | | | | | | | | |
| | | | | | | | | | 2 | 28.2 | 6.8 | 16.5 | 5.4 | 75.8 | 6.4 | 2.5 | | | | | | | | | | | | |
| | | | | | | | Middle | 7.3 | 1 | 27.4 | 6.8 | 19.1 | 4.7 | 66.2 | 5.6 | 2.5 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.3 | 6.8 | 19.2 | 4.7 | 66.3 | 5.7 | 2.9 | | | | | | | | | | | | |
| | | | | | | | Bottom | 13.5 | 1 | 26.9 | 6.8 | 23.8 | 5.0 | 70.8 | 10.3 | 5.3 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.0 | 6.8 | 23.8 | 5.0 | 71.3 | 10.4 | 5.4 | | | | | | | | | | | | |
| | TCE-WQM1 | Sunny | Moderate | 15:37 | 8.0 | Surface | 1.0 | 1 | 28.4 | 6.9 | 18.5 | 4.8 | 68.4 | 4.4 | 6.0 | 4.4 | 7.7 | 7.0 | | | | | | | | | | |
| | | | | | | | | 2 | 28.4 | 6.9 | 18.5 | 4.8 | 67.9 | 4.5 | 5.9 | | | | | | | | | | | | | |
| | | | | | | Middle | 4.0 | 1 | 26.3 | 6.9 | 25.7 | 4.0 | 57.4 | 8.5 | 6.7 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.3 | 6.9 | 25.7 | 4.0 | 57.5 | 8.6 | 6.9 | | | | | | | | | | | | | |
| | | | | | | Bottom | 7.0 | 1 | 26.4 | 6.8 | 26.1 | 5.0 | 72.4 | 10.2 | 8.4 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.4 | 6.8 | 26.0 | 5.1 | 73.2 | 10.1 | 8.1 | | | | | | | | | | | | | |
| | TCE-WQM2a | Sunny | Moderate | 16:12 | 7.5 | Surface | 1.0 | 1 | 28.3 | 6.9 | 18.4 | 5.2 | 74.2 | 8.3 | 6.1 | 4.8 | 10.5 | 7.2 | | | | | | | | | | |
| | | | | | | | | 2 | 28.3 | 6.9 | 18.4 | 5.2 | 74.2 | 8.3 | 6.4 | | | | | | | | | | | | | |
| | | | | | | Middle | 3.8 | 1 | 27.0 | 6.9 | 20.9 | 4.3 | 61.2 | 10.3 | 6.4 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.9 | 6.9 | 21.0 | 4.3 | 61.0 | 10.5 | 6.3 | | | | | | | | | | | | | |
| | | | | | | Bottom | 6.5 | 1 | 26.6 | 6.8 | 26.4 | 4.6 | 66.9 | 12.8 | 9.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.6 | 6.8 | 26.4 | 4.7 | 67.4 | 12.9 | 8.8 | | | | | | | | | | | | | |
| | TCE-WQM2b | Sunny | Moderate | 16:23 | 10.2 | Surface | 1.0 | 1 | 28.3 | 6.8 | 15.4 | 4.9 | 69.1 | 6.3 | 3.2 | 4.6 | 9.1 | 4.7 | | | | | | | | | | |
| | | | | | | | | 2 | 28.3 | 6.8 | 15.4 | 4.9 | 68.9 | 6.4 | 3.3 | | | | | | | | | | | | | |
| | | | | | | Middle | 5.1 | 1 | 26.7 | 6.8 | 23.7 | 4.2 | 59.4 | 9.2 | 4.8 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.7 | 6.8 | 23.7 | 4.2 | 59.6 | 9.3 | 5.0 | | | | | | | | | | | | | |
| | | | | | | Bottom | 9.2 | 1 | 26.7 | 6.8 | 23.7 | 4.5 | 64.0 | 11.6 | 6.2 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.7 | 6.8 | 23.7 | 4.5 | 64.3 | 11.6 | 5.9 | | | | | | | | | | | | | |
| | TCE-WQM3A | Sunny | Moderate | 16:01 | 3.6 | Surface | 1.0 | 1 | 27.6 | 6.8 | 20.0 | 4.5 | 63.3 | 6.6 | 5.3 | 4.5 | 8.5 | 7.4 | | | | | | | | | | |
| | | | | | | | | 2 | 27.6 | 6.8 | 20.1 | 4.5 | 63.4 | 6.5 | 5.1 | | | | | | | | | | | | | |
| | | | | | | Bottom | 2.6 | 1 | 27.2 | 6.8 | 22.1 | 5.1 | 73.2 | 10.4 | 9.6 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.2 | 6.8 | 22.1 | 5.2 | 73.9 | 10.5 | 9.6 | | | | | | | | | | | | | |
| | | | | | | TCE-WQM4 | Sunny | Moderate | 15:49 | 3.2 | Surface | 1.0 | 1 | 28.4 | 6.9 | | | | 18.1 | 5.9 | 83.7 | 9.9 | 3.1 | 5.9 | 10.8 | 3.7 | | |
| | | | | | | | | | | | | | 2 | 28.4 | 6.9 | | | | 18.1 | 5.9 | 83.3 | 9.9 | 3.3 | | | | | |
| | Bottom | 2.2 | 1 | 28.2 | 6.9 | | | | | | 18.3 | 5.5 | 77.5 | 11.6 | 4.1 | | | | | | | | | | | | | |
| | | | 2 | 28.2 | 6.9 | | | | | | 18.2 | 5.5 | 77.4 | 11.6 | 4.2 | | | | | | | | | | | | | |
| | 22-07-2019 | Mid-Flood | TCE-C1 | Fine | Moderate | | | | | | 10:49 | 8.0 | Surface | 1.0 | 1 | 27.7 | 6.9 | 17.0 | 4.5 | 63.2 | 4.2 | 4.2 | 3.9 | | | | 8.2 | 5.7 |
| | | | | | | | | | | | | | | | 2 | 27.7 | 6.9 | 17.0 | 4.5 | 62.9 | 4.3 | 3.9 | | | | | | |
| | | | | | | Middle | 4.0 | 1 | 25.2 | 7.1 | | | 30.0 | 3.3 | 47.6 | 7.8 | 5.1 | | | | | | | | | | | |
| | | | | | | | | 2 | 25.1 | 7.1 | | | 30.1 | 3.3 | 47.7 | 7.9 | 5.3 | | | | | | | | | | | |
| | | | | | | Bottom | 7.0 | 1 | 24.9 | 7.1 | | | 32.0 | 3.6 | 51.6 | 12.5 | 7.8 | | | | | | | | | | | |
| | | | | | | | | 2 | 24.9 | 7.1 | | | 32.0 | 3.6 | 51.9 | 12.7 | 8.1 | | | | | | | | | | | |
| | | | TCE-C2 | Fine | Moderate | 8:30 | 16.0 | Surface | 1.0 | 1 | 27.6 | 6.9 | 17.9 | 4.4 | 61.6 | 7.2 | 3.2 | 4.0 | 8.3 | 3.6 | | | | | | | | |
| | | | | | | | | | | 2 | 27.6 | 6.9 | 17.8 | 4.4 | 61.4 | 7.3 | 3.0 | | | | | | | | | | | |
| | | | | | | | | Middle | 8.0 | 1 | 26.7 | 7.0 | 23.5 | 3.7 | 52.0 | 8.2 | 3.7 | | | | | | | | | | | |
| | | | | | | | | | | 2 | 26.7 | 7.0 | 23.5 | 3.6 | 51.8 | 8.2 | 3.8 | | | | | | | | | | | |
| Bottom | | | | | | | | 15.0 | 1 | 25.3 | 7.1 | 30.1 | 3.3 | 47.5 | 9.5 | 3.9 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.3 | 7.1 | 30.1 | 3.3 | 47.4 | 9.6 | 3.7 | | | | | | | | | | | | |
| TCE-WQM1 | Fine | Moderate | 9:42 | 10.4 | Surface | 1.0 | 1 | 28.4 | 6.8 | 17.2 | 5.0 | 70.9 | 9.0 | 3.4 | 4.4 | 12.4 | 4.4 | | | | | | | | | | | |
| | | | | | | | 2 | 28.4 | 6.8 | 17.3 | 5.0 | 70.8 | 9.0 | 3.0 | | | | | | | | | | | | | | |
| | | | | | Middle | 5.2 | 1 | 27.4 | 6.8 | 18.5 | 3.9 | 54.2 | 13.2 | 3.7 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 27.3 | 6.8 | 18.5 | 3.9 | 53.8 | 13.4 | 3.9 | | | | | | | | | | | | | | |
| | | | | | Bottom | 9.4 | 1 | 26.7 | 6.8 | 24.3 | 3.7 | 53.0 | 15.0 | 6.3 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 26.7 | 6.8 | 24.3 | 3.7 | 53.2 | 15.0 | 6.1 | | | | | | | | | | | | | | |
| TCE-WQM2a | Fine | Moderate | 9:09 | 8.7 | Surface | 1.0 | 1 | 28.3 | 6.8 | 15.6 | 5.2 | 72.7 | 4.6 | 2.3 | 4.7 | 6.4 | 3.4 | | | | | | | | | | | |
| | | | | | | | 2 | 28.3 | 6.8 | 15.6 | 5.2 | 72.7 | 4.6 | 2.2 | | | | | | | | | | | | | | |
| | | | | | Middle | 4.4 | 1 | 27.3 | 6.7 | 20.8 | 4.1 | 58.5 | 5.2 | 3.7 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 27.3 | 6.7 | 20.8 | 4.1 | 58.5 | 5.2 | 4.0 | | | | | | | | | | | | | | |
| | | | | | Bottom | 7.7 | 1 | 26.7 | 6.8 | 24.1 | 3.8 | 54.9 | 9.2 | 4.1 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 26.7 | 6.8 | 24.1 | 3.9 | 55.1 | 9.3 | 4.0 | | | | | | | | | | | | | | |
| TCE-WQM2b | Fine | Moderate | 8:57 | 11.7 | Surface | 1.0 | 1 | 27.7 | 6.7 | 18.6 | 4.5 | 63.5 | 7.6 | 3.9 | 4.0 | 9.2 | 4.4 | | | | | | | | | | | |
| | | | | | | | 2 | 27.7 | 6.7 | 18.5 | 4.5 | 63.4 | 7.6 | 3.7 | | | | | | | | | | | | | | |
| | | | | | Middle | 5.9 | 1 | 26.3 | 6.8 | 25.7 | 3.6 | 51.1 | 9.8 | 4.4 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 26.3 | 6.8 | 25.6 | 3.6 | 51.9 | 9.8 | 4.1 | | | | | | | | | | | | | | |
| | | | | | Bottom | 10.7 | 1 | 26.1 | 6.8 | 26.6 | 3.8 | 53.9 | 10.3 | 4.9 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 26.1 | 6.8 | 26.6 | 3.8 | 54.0 | 10.3 | 5.1 | | | | | | | | | | | | | | |
| TCE-WQM3A | Fine | Moderate | 9:20 | 4.5 | Surface | 1.0 | 1 | 28.1 | 6.8 | 16.0 | 5.1 | 71.5 | 7.3 | 2.3 | 5.1 | 8.4 | 3.1 | | | | | | | | | | | |
| | | | | | | | 2 | 28.1 | 6.8 | 16.0 | 5.1 | 71.5 | 7.2 | 2.4 | | | | | | | | | | | | | | |
| | | | | | Bottom | 3.5 | 1 | 28.1 | 6.8 | 16.1 | 5.1 | 71.2 | 9.5 | 3.7 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 28.1 | 6.8 | 16.1 | 5.1 | 71.1 | 9.5 | 3.9 | | | | | | | | | | | | | | |
| | | | | | TCE-WQM4 | Fine | Moderate | 9:31 | 4.0 | Surface | 1.0 | 1 | 27.9 | 6.8 | | | | 17.4 | 4.8 | 67.5 | 10.6 | 3.1 | 4.8 | 11.5 | 4.6 | | | |
| | | | | | | | | | | | | 2 | 27.9 | 6.8 | | | | 17.4 | 4.8 | 67.5 | 10.7 | 3.3 | | | | | | |
| Bottom | 3.0 | 1 | 27.7 | 6.8 | | | | | | 19.0 | 4.8 | 67.1 | 12.3 | 5.9 | | | | | | | | | | | | | | |
| | | 2 | 27.7 | 6.8 | | | | | | 19.0 | 4.8 | 67.0 | 12.3 | 6.2 | | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | |
|------------|-----------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|-----|--|--|--|--|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | |
| 24-07-2019 | Mid-Ebb | TCE-C1 | Sunny | Moderate | 15:52 | 7.5 | Surface | 1.0 | 1 | 28.2 | 8.0 | 14.0 | 6.5 | 90.7 | 2.6 | 4.3 | 4.8 | 6.1 | 4.7 | | | | | | |
| | | | | | | | | | 2 | 28.1 | 8.0 | 14.0 | 6.5 | 90.0 | 2.7 | 4.0 | | | | | | | | | |
| | | | | | | | Middle | 3.8 | 1 | 24.2 | 7.8 | 32.0 | 3.1 | 43.6 | 7.5 | 5.1 | | | | | | | | | |
| | | | | | | | | | 2 | 24.2 | 7.8 | 32.0 | 3.1 | 43.9 | 7.6 | 4.9 | | | | | | | | | |
| | | | | | | | Bottom | 6.5 | 1 | 24.2 | 7.8 | 32.1 | 3.2 | 46.3 | 8.3 | 4.7 | | | | | | | | | |
| | | | | | | | | | 2 | 24.2 | 7.8 | 32.1 | 3.3 | 46.7 | 8.3 | 5.3 | | | | | | | | | |
| | | | | | | | | | | | 3.2 | | | | | | | | | | | | | | |
| | | | TCE-C2 | Sunny | Moderate | 17:47 | 14.9 | Surface | 1.0 | 1 | 28.1 | 8.2 | 20.2 | 10.4 | 148.2 | 2.8 | 5.2 | 7.8 | 2.1 | 6.0 | | | | | |
| | | | | | | | | 2 | 28.1 | 8.2 | 20.2 | 10.3 | 147.9 | 2.8 | 5.3 | | | | | | | | | | |
| | Middle | 7.5 | | | | | | 1 | 26.4 | 7.8 | 23.6 | 5.3 | 75.0 | 2.0 | 6.0 | | | | | | | | | | |
| | | | | | | | | 2 | 26.4 | 7.8 | 23.6 | 5.3 | 74.7 | 2.1 | 6.2 | | | | | | | | | | |
| | Bottom | 13.9 | | | | | | 1 | 26.0 | 7.7 | 24.7 | 4.5 | 63.1 | 1.6 | 6.6 | | | | | | | | | | |
| | | | | | | | | 2 | 26.0 | 7.7 | 24.7 | 4.5 | 63.4 | 1.6 | 6.7 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | TCE-WQM1 | Sunny | Moderate | 16:36 | 9.4 | Surface | 1.0 | 1 | 27.7 | 8.0 | 18.8 | 7.4 | 104.4 | 3.7 | 5.0 | 6.8 | 5.2 | 5.2 | | | | | |
| | | | | | | | | 2 | 27.6 | 8.0 | 18.8 | 7.3 | 102.9 | 3.8 | 4.8 | | | | | | | | | | |
| | Middle | 4.7 | | | | | | 1 | 27.4 | 7.9 | 20.9 | 6.2 | 87.8 | 5.0 | 5.0 | | | | | | | | | | |
| | | | | | | | | 2 | 27.4 | 7.9 | 20.9 | 6.2 | 87.4 | 5.0 | 5.1 | | | | | | | | | | |
| | Bottom | 8.4 | | | | | | 1 | 25.6 | 7.7 | 27.0 | 3.8 | 54.3 | 6.9 | 5.6 | | | | | | | | | | |
| | | | | | | | | 2 | 25.6 | 7.7 | 27.0 | 3.8 | 54.7 | 6.9 | 5.7 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | TCE-WQM2a | Sunny | Moderate | 17:10 | 7.8 | Surface | 1.0 | 1 | 27.7 | 8.1 | 21.3 | 8.3 | 118.4 | 6.0 | 8.2 | 7.0 | 8.7 | 9.1 | | | | | |
| | | | | | | | | 2 | 27.7 | 8.1 | 21.3 | 8.3 | 118.4 | 6.0 | 8.1 | | | | | | | | | | |
| | Middle | 3.9 | | | | | | 1 | 26.9 | 7.9 | 22.5 | 5.7 | 80.7 | 8.7 | 9.2 | | | | | | | | | | |
| | | 2 | | | | | | 26.9 | 7.9 | 22.5 | 5.7 | 80.4 | 8.7 | 9.3 | | | | | | | | | | | |
| Bottom | 6.8 | 1 | | | | | | 25.6 | 7.7 | 26.9 | 4.0 | 57.0 | 11.5 | 9.6 | | | | | | | | | | | |
| | | 2 | | | | | | 25.5 | 7.7 | 27.2 | 4.0 | 56.8 | 11.6 | 9.9 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM2b | Sunny | Moderate | 17:22 | 10.6 | Surface | 1.0 | 1 | 27.7 | 7.8 | 18.0 | 6.2 | 86.5 | 1.9 | 2.4 | 5.4 | 5.2 | 2.5 | | | | | | |
| | | | | | | | 2 | 27.8 | 7.8 | 17.9 | 6.1 | 86.0 | 1.9 | 2.2 | | | | | | | | | | | |
| Middle | 5.3 | | | | | | 1 | 27.0 | 7.8 | 21.0 | 4.8 | 68.1 | 5.6 | 2.2 | | | | | | | | | | | |
| | | | | | | | 2 | 27.0 | 7.8 | 21.0 | 4.7 | 66.2 | 5.6 | 2.4 | | | | | | | | | | | |
| Bottom | 9.6 | | | | | | 1 | 25.5 | 7.7 | 26.8 | 3.8 | 53.4 | 8.0 | 2.8 | | | | | | | | | | | |
| | | | | | | | 2 | 25.5 | 7.7 | 26.8 | 3.8 | 53.7 | 8.1 | 3.0 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM3A | Sunny | Moderate | 16:59 | 3.7 | Surface | 1.0 | 1 | 27.3 | 8.0 | 21.5 | 6.8 | 96.5 | 3.7 | 5.5 | 6.7 | 4.1 | 6.2 | | | | | | |
| | | | | | | | 2 | 27.3 | 8.0 | 21.5 | 6.5 | 92.9 | 3.8 | 5.7 | | | | | | | | | | | |
| Bottom | 2.7 | | | | | | 1 | 26.7 | 7.8 | 22.3 | 5.8 | 82.6 | 4.5 | 6.9 | | | | | | | | | | | |
| | | | | | | | 2 | 26.7 | 7.8 | 22.4 | 5.9 | 82.8 | 4.5 | 6.6 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM4 | Sunny | Moderate | 16:47 | 3.8 | Surface | 1.0 | 1 | 28.6 | 8.2 | 19.8 | 10.4 | 150.1 | 3.6 | 5.6 | 10.4 | 6.6 | 6.0 | | | | | | |
| | | | | | | | 2 | 28.6 | 8.2 | 19.8 | 10.4 | 149.8 | 3.6 | 5.7 | | | | | | | | | | | |
| Bottom | 2.8 | | | | | | 1 | 27.1 | 7.9 | 21.3 | 6.3 | 89.8 | 9.6 | 6.2 | | | | | | | | | | | |
| | | | | | | | 2 | 27.1 | 7.9 | 21.3 | 6.4 | 90.1 | 9.6 | 6.4 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Rough | 12:56 | 7.8 | Surface | 1.0 | 1 | 27.7 | 7.8 | 14.0 | 6.0 | 83.0 | 3.5 | 4.4 | 5.1 | 7.0 | 4.5 | | | | | | |
| | | | | | | | | | 2 | 27.8 | 7.8 | 13.8 | 6.0 | 82.9 | 3.5 | 4.2 | | | | | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 25.5 | 7.7 | 26.3 | 4.1 | 57.8 | 4.6 | 4.0 | | | | | | | | | |
| | | | | | | | | | 2 | 25.6 | 7.7 | 26.1 | 4.1 | 57.7 | 4.6 | 4.4 | | | | | | | | | |
| | | | | | | | Bottom | 6.8 | 1 | 24.3 | 7.7 | 31.8 | 3.1 | 44.5 | 13.0 | 4.9 | | | | | | | | | |
| | | | | | | | | | 2 | 24.3 | 7.7 | 31.8 | 3.1 | 44.9 | 13.1 | 5.2 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | TCE-C2 | Cloudy | Moderate | 10:57 | 15.4 | Surface | 1.0 | 1 | 26.7 | 7.7 | 22.1 | 5.2 | 73.1 | 1.6 | 4.4 | 4.8 | 3.1 | 4.5 | | | | |
| | | | | | | | | | 2 | 26.7 | 7.7 | 22.1 | 5.2 | 72.9 | 1.7 | 4.3 | | | | | | | | | |
| | | Middle | 7.7 | | | | | | 1 | 26.0 | 7.7 | 24.9 | 4.4 | 61.8 | 3.3 | 4.6 | | | | | | | | | |
| | | | | | | | | | 2 | 26.0 | 7.7 | 24.9 | 4.3 | 61.6 | 3.4 | 4.7 | | | | | | | | | |
| | | Bottom | 14.4 | | | | | | 1 | 24.6 | 7.6 | 30.5 | 3.4 | 49.0 | 4.2 | 4.3 | | | | | | | | | |
| | | | | | | | | | 2 | 24.6 | 7.6 | 30.5 | 3.4 | 49.3 | 4.2 | 4.4 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | TCE-WQM1 | Cloudy | Moderate | 12:05 | 10.5 | Surface | 1.0 | 1 | 27.8 | 7.9 | 19.5 | 7.2 | 102.3 | 2.8 | 2.7 | 5.8 | 8.5 | 3.8 | | | | |
| | | | | | | | | | 2 | 27.8 | 7.9 | 19.5 | 7.2 | 102.0 | 2.8 | 3.1 | | | | | | | | | |
| | | Middle | 5.3 | | | | | | 1 | 27.1 | 7.8 | 21.6 | 4.5 | 64.1 | 10.7 | 3.7 | | | | | | | | | |
| | | | | | | | | | 2 | 27.1 | 7.7 | 21.7 | 4.2 | 59.8 | 10.6 | 4.1 | | | | | | | | | |
| | | Bottom | 9.5 | | | | | | 1 | 25.8 | 7.7 | 26.2 | 3.9 | 55.4 | 12.2 | 4.8 | | | | | | | | | |
| | | | | | | | | | 2 | 25.8 | 7.7 | 26.2 | 3.9 | 55.8 | 12.1 | 4.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | TCE-WQM2a | Cloudy | Moderate | 11:32 | 8.6 | Surface | 1.0 | 1 | 27.2 | 7.8 | 20.2 | 5.4 | 76.2 | 4.9 | 5.0 | 4.8 | 6.0 | 5.4 | | | | |
| | | | | | | | | | 2 | 27.2 | 7.8 | 20.2 | 5.4 | 76.2 | 4.9 | 4.7 | | | | | | | | | |
| | | Middle | 4.3 | | | | | | 1 | 26.0 | 7.7 | 24.7 | 4.2 | 59.9 | 6.1 | 5.3 | | | | | | | | | |
| | | 2 | 26.0 | | | | | | 7.7 | 24.8 | 4.2 | 60.0 | 6.2 | 5.2 | | | | | | | | | | | |
| Bottom | 7.6 | 1 | 25.9 | | | | | | 7.7 | 25.0 | 4.3 | 60.9 | 7.1 | 6.1 | | | | | | | | | | | |
| | | 2 | 25.9 | | | | | | 7.7 | 25.0 | 4.3 | 61.2 | 7.0 | 6.3 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM2b | Cloudy | Moderate | 11:21 | 11.8 | Surface | 1.0 | 1 | 27.0 | 7.7 | 20.5 | 5.1 | 71.3 | 2.3 | 5.1 | 4.4 | 4.0 | 5.3 | | | | | | |
| | | | | | | | 2 | 27.0 | 7.7 | 20.5 | 5.1 | 71.1 | 2.4 | 4.7 | | | | | | | | | | | |
| Middle | 5.9 | | | | | | 1 | 25.8 | 7.7 | 25.4 | 3.8 | 54.4 | 4.3 | 5.4 | | | | | | | | | | | |
| | | | | | | | 2 | 25.8 | 7.7 | 25.4 | 3.8 | 54.3 | 4.3 | 5.2 | | | | | | | | | | | |
| Bottom | 10.8 | | | | | | 1 | 25.3 | 7.6 | 27.5 | 3.5 | 50.0 | 5.3 | 5.9 | | | | | | | | | | | |
| | | | | | | | 2 | 25.3 | 7.7 | 27.6 | 3.5 | 50.2 | 5.3 | 5.6 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM3A | Cloudy | Moderate | 11:43 | 4.2 | Surface | 1.0 | 1 | 27.4 | 7.9 | 19.7 | 6.4 | 89.9 | 3.4 | 5.7 | 6.4 | 4.4 | 6.3 | | | | | | |
| | | | | | | | 2 | 27.3 | 7.9 | 19.8 | 6.4 | 89.5 | 3.4 | 5.8 | | | | | | | | | | | |
| Bottom | 3.2 | | | | | | 1 | 26.7 | 7.7 | 22.0 | 4.9 | 69.8 | 5.4 | 7.0 | | | | | | | | | | | |
| | | | | | | | 2 | 26.7 | 7.7 | 22.0 | 5.0 | 70.2 | 5.4 | 6.6 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | TCE-WQM4 | Cloudy | Moderate | 11:54 | 3.9 | Surface | 1.0 | 1 | 27.4 | 7.8 | 19.8 | 6.1 | 86.5 | 4.7 | 6.7 | 6.1 | 7.5 | 6.4 | | | | | | |
| | | | | | | | 2 | 27.4 | 7.8 | 19.8 | 6.1 | 86.4 | 4.8 | 6.9 | | | | | | | | | | | |
| Bottom | 2.9 | | | | | | 1 | 27.0 | 7.8 | 21.0 | 5.6 | 79.7 | 10.2 | 5.8 | | | | | | | | | | | |
| | | | | | | | 2 | 27.0 | 7.8 | 21.0 | 5.7 | 79.9 | 10.2 | 6.2 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppH) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | |
|------------|---------|------------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|-----|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | |
| 26-07-2019 | Mid-Ebb | TCE-C1 | Fine | Moderate | 9:45 | 7.7 | Surface | 1.0 | 1 | 29.6 | 8.1 | 5.7 | 7.8 | 105.7 | 4.2 | 6.5 | 7.3 | 6.6 | 5.9 | | |
| | | | | | | | | | 2 | 29.6 | 8.1 | 5.7 | 7.8 | 105.5 | 4.2 | 5.5 | | | | | |
| | | | | | | | Middle | 3.9 | 1 | 29.4 | 8.0 | 8.3 | 6.9 | 94.5 | 3.2 | 6.1 | | | | | |
| | | | | | | | | | 2 | 29.4 | 8.0 | 8.3 | 6.9 | 94.2 | 3.2 | 6.7 | | | | | |
| | | | | | | | Bottom | 6.7 | 1 | 25.1 | 7.7 | 29.9 | 2.8 | 40.3 | 12.6 | 5.4 | | | | | |
| | | | | | | | | | 2 | 25.1 | 7.7 | 29.9 | 2.9 | 41.1 | 12.6 | 4.9 | | | | | |
| | | TCE-C2 | Fine | Moderate | 7:28 | 12.6 | Surface | 1.0 | 1 | 29.0 | 8.1 | 12.8 | 8.0 | 112.1 | 2.8 | 4.5 | 7.8 | 2.6 | 4.9 | | |
| | | | | | | | | | 2 | 29.0 | 8.1 | 12.8 | 8.0 | 112.0 | 2.8 | 4.2 | | | | | |
| | | | | | | | Middle | 6.3 | 1 | 28.4 | 8.0 | 18.8 | 7.5 | 107.2 | 2.2 | 5.9 | | | | | |
| | | | | | | | | | 2 | 28.4 | 8.0 | 18.8 | 7.5 | 107.1 | 2.0 | 5.0 | | | | | |
| | | | | | | | Bottom | 11.6 | 1 | 25.3 | 7.8 | 30.4 | 4.8 | 68.9 | 2.8 | 5.0 | | | | | |
| | | | | | | | | | 2 | 25.3 | 7.8 | 30.4 | 4.8 | 69.5 | 2.8 | 4.5 | | | | | |
| | | TCE-WQM1 | Fine | Moderate | 8:57 | 8.3 | Surface | 1.0 | 1 | 29.0 | 8.1 | 15.3 | 8.8 | 124.4 | 4.1 | 4.3 | 6.3 | 8.7 | 10.0 | | |
| | | | | | | | | | 2 | 29.0 | 8.1 | 15.2 | 8.8 | 124.1 | 4.0 | 5.6 | | | | | |
| | | | | | | | Middle | 4.2 | 1 | 26.4 | 7.7 | 25.6 | 3.8 | 54.1 | 10.1 | 8.2 | | | | | |
| | | | | | | | | | 2 | 26.4 | 7.8 | 25.6 | 3.8 | 55.0 | 10.1 | 8.7 | | | | | |
| | | | | | | | Bottom | 7.3 | 1 | 25.9 | 7.7 | 27.4 | 3.8 | 55.2 | 12.0 | 17.7 | | | | | |
| | | | | | | | | | 2 | 25.9 | 7.7 | 27.4 | 4.0 | 57.0 | 12.1 | 15.6 | | | | | |
| | | TCE-WQM2a | Fine | Moderate | 8:22 | 7.2 | Surface | 1.0 | 1 | 28.9 | 8.2 | 16.3 | 9.4 | 134.2 | 3.1 | 5.2 | 9.1 | 3.2 | 5.6 | | |
| | | | | | | | | | 2 | 28.9 | 8.2 | 16.3 | 9.4 | 134.2 | 3.1 | 4.9 | | | | | |
| | | | | | | | Middle | 3.6 | 1 | 28.8 | 8.1 | 17.6 | 8.7 | 124.0 | 3.7 | 6.1 | | | | | |
| | | | | | | | | | 2 | 28.8 | 8.1 | 17.6 | 8.6 | 123.4 | 3.5 | 5.6 | | | | | |
| | | | | | | | Bottom | 6.2 | 1 | 26.9 | 7.8 | 25.1 | 4.5 | 65.4 | 2.7 | 5.6 | | | | | |
| | | | | | | | | | 2 | 27.0 | 7.8 | 25.1 | 4.6 | 66.4 | 2.8 | 5.9 | | | | | |
| | | TCE-WQM2b | Fine | Moderate | 8:06 | 11.3 | Surface | 1.0 | 1 | 29.0 | 8.0 | 12.4 | 7.4 | 103.1 | 2.8 | 2.5 | 5.9 | 2.8 | 3.3 | | |
| | | | | | | | | | 2 | 29.0 | 8.0 | 12.4 | 7.4 | 102.9 | 2.8 | 2.9 | | | | | |
| | | | | | | | Middle | 5.7 | 1 | 26.5 | 7.8 | 25.9 | 4.3 | 62.0 | 2.7 | 3.3 | | | | | |
| | | | | | | | | | 2 | 26.7 | 7.8 | 25.8 | 4.6 | 65.9 | 2.6 | 2.8 | | | | | |
| | | | | | | | Bottom | 10.3 | 1 | 24.9 | 7.7 | 31.0 | 3.7 | 52.9 | 3.0 | 4.4 | | | | | |
| | | | | | | | | | 2 | 24.9 | 7.7 | 30.9 | 3.9 | 55.5 | 2.8 | 3.6 | | | | | |
| | | TCE-WQM3A | Fine | Moderate | 8:34 | 3.2 | Surface | 1.0 | 1 | 29.0 | 8.1 | 15.4 | 9.0 | 127.0 | 8.1 | 5.4 | 9.0 | 6.6 | 9.0 | | |
| | | | | | | | | | 2 | 29.0 | 8.1 | 15.4 | 9.0 | 126.8 | 8.3 | 5.4 | | | | | |
| | | | | | | | Bottom | 2.2 | 1 | 28.9 | 8.1 | 15.4 | 8.8 | 124.8 | 5.1 | 12.8 | | | | | |
| | | | | | | | | | 2 | 28.8 | 8.1 | 15.4 | 8.8 | 123.7 | 4.9 | 12.4 | | | | | |
| | | | | | | | Middle | 1.4 | 1 | 29.1 | 8.2 | 16.5 | 9.7 | 137.6 | 7.3 | 13.5 | | | | | |
| | | | | | | | | | 2 | 29.1 | 8.2 | 16.6 | 9.6 | 137.2 | 7.1 | 10.3 | | | | | |
| | | TCE-WQM4 | Fine | Moderate | 8:45 | 2.7 | Surface | 1.0 | 1 | 29.1 | 8.2 | 16.5 | 9.7 | 137.6 | 7.3 | 13.5 | 9.6 | 7.2 | 11.9 | | |
| | | | | | | | | | 2 | 29.1 | 8.2 | 16.6 | 9.6 | 137.2 | 7.1 | 10.3 | | | | | |
| | | | | | | | Middle | 1.4 | 1 | 29.1 | 8.2 | 16.5 | 9.7 | 137.6 | 7.3 | 13.5 | | | | | |
| | | | | | | | | | 2 | 29.1 | 8.2 | 16.6 | 9.6 | 137.2 | 7.1 | 10.3 | | | | | |
| | | | | | | | Bottom | 1.4 | 1 | 29.1 | 8.2 | 16.5 | 9.7 | 137.6 | 7.3 | 13.5 | | | | | |
| | | | | | | | | | 2 | 29.1 | 8.2 | 16.6 | 9.6 | 137.2 | 7.1 | 10.3 | | | | | |
| | | 26-07-2019 | Mid-Flood | TCE-C1 | Fine | Moderate | 12:23 | 7.8 | Surface | 1.0 | 1 | 30.0 | 8.1 | 4.9 | 8.0 | 109.0 | 4.7 | 4.8 | 7.6 | 7.7 | 4.7 |
| | | | | | | | | | | | 2 | 29.9 | 8.1 | 4.9 | 8.0 | 108.9 | 4.7 | 5.4 | | | |
| | | | | | | | | | Middle | 3.9 | 1 | 29.2 | 8.0 | 7.9 | 7.2 | 98.1 | 3.7 | 5.1 | | | |
| | | | | | | | | | | | 2 | 29.2 | 8.0 | 7.9 | 7.2 | 97.6 | 3.7 | 4.1 | | | |
| | | | | | | | | | Bottom | 6.8 | 1 | 25.4 | 7.7 | 28.6 | 2.7 | 39.3 | 14.7 | 4.2 | | | |
| | | | | | | | | | | | 2 | 25.4 | 7.7 | 28.6 | 2.7 | 39.3 | 14.8 | 4.4 | | | |
| TCE-C2 | Fine | | | Moderate | 14:21 | 13.0 | Surface | 1.0 | 1 | 30.2 | 8.4 | 13.3 | 13.8 | 197.2 | 2.6 | 4.8 | 8.8 | 4.5 | 5.8 | | |
| | | | | | | | | | 2 | 30.2 | 8.4 | 13.4 | 13.8 | 196.8 | 2.6 | 3.8 | | | | | |
| | | | | | | | Middle | 6.5 | 1 | 25.6 | 7.8 | 28.3 | 3.8 | 55.2 | 5.3 | 5.0 | | | | | |
| | | | | | | | | | 2 | 25.5 | 7.8 | 28.4 | 3.9 | 55.1 | 5.2 | 5.5 | | | | | |
| | | | | | | | Bottom | 12.0 | 1 | 24.7 | 7.8 | 31.8 | 3.4 | 49.3 | 5.7 | 8.1 | | | | | |
| | | | | | | | | | 2 | 24.8 | 7.8 | 31.7 | 3.5 | 50.0 | 5.7 | 7.7 | | | | | |
| TCE-WQM1 | Fine | | | Moderate | 13:06 | 8.2 | Surface | 1.0 | 1 | 29.4 | 8.4 | 16.0 | 11.8 | 168.4 | 7.8 | 10.8 | 10.2 | 8.3 | 19.0 | | |
| | | | | | | | | | 2 | 29.4 | 8.4 | 16.0 | 11.7 | 167.5 | 7.4 | 9.2 | | | | | |
| | | | | | | | Middle | 4.1 | 1 | 28.8 | 8.2 | 18.1 | 8.6 | 123.4 | 10.7 | 19.1 | | | | | |
| | | | | | | | | | 2 | 28.8 | 8.2 | 18.1 | 8.6 | 123.4 | 10.6 | 14.4 | | | | | |
| | | | | | | | Bottom | 7.2 | 1 | 26.4 | 7.8 | 25.7 | 4.4 | 63.4 | 6.7 | 29.5 | | | | | |
| | | | | | | | | | 2 | 26.5 | 7.8 | 25.8 | 4.4 | 62.5 | 6.3 | 30.8 | | | | | |
| TCE-WQM2a | Fine | | | Moderate | 13:43 | 7.3 | Surface | 1.0 | 1 | 29.7 | 8.5 | 13.8 | 13.4 | 190.6 | 4.6 | 8.7 | 11.1 | 8.1 | 8.5 | | |
| | | | | | | | | | 2 | 29.7 | 8.5 | 13.8 | 13.4 | 190.6 | 4.6 | 8.8 | | | | | |
| | | | | | | | Middle | 3.7 | 1 | 28.9 | 8.1 | 15.9 | 8.9 | 125.6 | 6.1 | 8.9 | | | | | |
| | | | | | | | | | 2 | 28.9 | 8.1 | 16.0 | 8.8 | 125.0 | 6.2 | 7.8 | | | | | |
| | | | | | | | Bottom | 6.3 | 1 | 27.3 | 7.8 | 22.7 | 4.9 | 70.7 | 13.2 | 8.6 | | | | | |
| | | | | | | | | | 2 | 27.3 | 7.8 | 22.7 | 5.0 | 71.0 | 13.8 | 8.4 | | | | | |
| TCE-WQM2b | Fine | | | Moderate | 13:54 | 11.1 | Surface | 1.0 | 1 | 29.9 | 8.1 | 8.3 | 8.3 | 115.3 | 3.9 | 4.5 | 7.2 | 6.1 | 5.2 | | |
| | | | | | | | | | 2 | 29.9 | 8.1 | 8.3 | 8.4 | 115.5 | 3.8 | 4.6 | | | | | |
| | | | | | | | Middle | 5.6 | 1 | 27.7 | 7.9 | 20.6 | 6.0 | 85.8 | 2.9 | 5.4 | | | | | |
| | | | | | | | | | 2 | 27.7 | 7.9 | 20.8 | 6.0 | 85.5 | 3.3 | 4.5 | | | | | |
| | | | | | | | Bottom | 10.1 | 1 | 25.8 | 7.7 | 27.6 | 3.9 | 55.4 | 11.5 | 6.3 | | | | | |
| | | | | | | | | | 2 | 25.8 | 7.8 | 27.6 | 3.9 | 56.0 | 11.2 | 6.0 | | | | | |
| TCE-WQM3A | Fine | | | Moderate | 13:31 | 3.3 | Surface | 1.0 | 1 | 30.8 | 8.5 | 11.9 | 13.2 | 188.2 | 3.9 | 6.5 | 13.2 | 4.2 | 7.7 | | |
| | | | | | | | | | 2 | 30.8 | 8.5 | 11.9 | 13.2 | 188.1 | 3.9 | 6.4 | | | | | |
| | | | | | | | Bottom | 2.3 | 1 | 30.7 | 8.4 | 12.2 | 13.0 | 185.2 | 4.5 | 8.2 | | | | | |
| | | | | | | | | | 2 | 30.7 | 8.4 | 12.1 | 12.9 | 185.0 | 4.5 | 9.5 | | | | | |
| | | | | | | | Middle | 1.3 | 1 | 29.5 | 8.3 | 14.6 | 11.5 | 163.0 | 4.2 | 8.4 | | | | | |
| | | | | | | | | | 2 | 29.5 | 8.3 | 14.5 | 11.5 | 163.4 | 4.0 | 7.9 | | | | | |

| Date | Tide | Station | Weather Condition | Sea Condition | Sampling Time | Water Depth (m) | Water Level | Sampling depth (m) | Replicate | Water Temperature (C) | pH | Salinity (ppt) | Dissolved Oxygen (DO) (mg/L) | DO Saturation (%) | Turbidity (NTU) | Suspended Solids (SS) (mg/L) | Depth-averaged | | | | | | | | | | | |
|------------|------------|-----------|-------------------|---------------|---------------|-----------------|-------------|--------------------|-----------|-----------------------|---------|----------------|------------------------------|-------------------|-----------------|------------------------------|----------------|-----------------|-----------|-------|------|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | | | DO (mg/L) | Turbidity (NTU) | SS (mg/L) | | | | | | | | | |
| 29-07-2019 | Mid-Ebb | TCE-C1 | Cloudy | Moderate | 9:05 | 8.7 | Surface | 1.0 | 1 | 27.7 | 8.0 | 18.0 | 6.5 | 91.4 | 2.2 | 6.5 | 5.0 | 4.6 | 6.5 | | | | | | | | | |
| | | | | | | | | | 2 | 27.7 | 8.0 | 18.1 | 6.5 | 91.0 | 2.3 | 6.9 | | | | | | | | | | | | |
| | | | | | | | Middle | 4.4 | 1 | 25.7 | 7.8 | 27.6 | 3.4 | 48.9 | 2.8 | 6.3 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.7 | 7.8 | 27.5 | 3.4 | 49.0 | 2.8 | 6.9 | | | | | | | | | | | | |
| | | | | | | | Bottom | 7.7 | 1 | 24.8 | 7.7 | 31.3 | 2.4 | 34.9 | 8.7 | 6.2 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 24.8 | 7.7 | 31.3 | 2.4 | 35.1 | 8.8 | 6.2 | | | | | | | | | | | | |
| | | TCE-C2 | Cloudy | Moderate | 11:03 | 12.6 | Surface | 1.0 | 1 | 28.4 | 8.3 | 18.3 | 8.9 | 126.7 | 1.7 | 5.5 | 7.6 | 2.2 | 5.7 | | | | | | | | | |
| | | | | | | | | | 2 | 28.4 | 8.3 | 18.3 | 8.9 | 126.4 | 1.8 | 4.6 | | | | | | | | | | | | |
| | | | | | | | Middle | 6.3 | 1 | 27.5 | 8.0 | 21.8 | 6.3 | 90.7 | 2.7 | 4.8 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 27.6 | 8.0 | 21.7 | 6.4 | 91.3 | 2.6 | 5.9 | | | | | | | | | | | | |
| | | | | | | | Bottom | 11.6 | 1 | 25.6 | 7.9 | 28.9 | 4.3 | 61.8 | 2.2 | 7.0 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.6 | 7.8 | 28.9 | 4.3 | 62.0 | 2.3 | 6.1 | | | | | | | | | | | | |
| | TCE-WQM1 | Cloudy | Moderate | 9:55 | 8.2 | Surface | 1.0 | 1 | 29.0 | 8.2 | 15.7 | 7.7 | 109.4 | 2.0 | 5.8 | 5.3 | 6.8 | 6.5 | | | | | | | | | | |
| | | | | | | | | 2 | 29.0 | 8.2 | 15.7 | 7.7 | 109.2 | 2.0 | 4.8 | | | | | | | | | | | | | |
| | | | | | | Middle | 4.1 | 1 | 25.9 | 7.7 | 26.5 | 3.0 | 42.2 | 8.9 | 7.5 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 25.8 | 7.7 | 26.6 | 2.9 | 42.0 | 8.9 | 6.6 | | | | | | | | | | | | | |
| | | | | | | Bottom | 7.2 | 1 | 25.7 | 7.7 | 28.1 | 2.8 | 40.3 | 9.6 | 6.7 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 25.7 | 7.7 | 28.1 | 2.8 | 40.5 | 9.6 | 7.7 | | | | | | | | | | | | | |
| | TCE-WQM2a | Cloudy | Moderate | 10:28 | 7.5 | Surface | 1.0 | 1 | 28.7 | 8.1 | 18.0 | 7.5 | 106.7 | 4.5 | 9.5 | 5.7 | 9.7 | 9.5 | | | | | | | | | | |
| | | | | | | | | 2 | 28.7 | 8.1 | 18.0 | 7.5 | 106.7 | 4.5 | 10.6 | | | | | | | | | | | | | |
| | | | | | | Middle | 3.8 | 1 | 26.8 | 7.8 | 24.0 | 3.9 | 55.5 | 11.2 | 9.9 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.7 | 7.8 | 24.0 | 3.9 | 55.4 | 11.2 | 10.2 | | | | | | | | | | | | | |
| | | | | | | Bottom | 6.5 | 1 | 26.0 | 7.7 | 27.4 | 3.0 | 43.4 | 13.2 | 8.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.0 | 7.7 | 27.4 | 3.0 | 43.8 | 13.5 | 9.0 | | | | | | | | | | | | | |
| | TCE-WQM2b | Cloudy | Moderate | 10:40 | 10.9 | Surface | 1.0 | 1 | 28.1 | 8.1 | 18.5 | 7.7 | 108.6 | 2.2 | 6.9 | 5.9 | 7.8 | 7.1 | | | | | | | | | | |
| | | | | | | | | 2 | 28.1 | 8.1 | 18.5 | 7.7 | 108.7 | 2.3 | 7.0 | | | | | | | | | | | | | |
| | | | | | | Middle | 5.5 | 1 | 27.1 | 7.9 | 22.6 | 4.2 | 60.3 | 10.0 | 6.9 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.1 | 7.9 | 22.6 | 4.2 | 59.3 | 10.0 | 7.4 | | | | | | | | | | | | | |
| | | | | | | Bottom | 9.9 | 1 | 26.0 | 7.8 | 26.8 | 3.3 | 47.0 | 11.1 | 7.0 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 26.0 | 7.8 | 26.8 | 3.3 | 47.1 | 11.1 | 7.5 | | | | | | | | | | | | | |
| | TCE-WQM3A | Cloudy | Moderate | 10:17 | 4.3 | Surface | 1.0 | 1 | 28.7 | 8.0 | 17.8 | 6.7 | 95.3 | 3.8 | 5.8 | 6.7 | 6.4 | 4.4 | | | | | | | | | | |
| | | | | | | | | 2 | 28.6 | 8.0 | 17.8 | 6.7 | 95.3 | 3.9 | 4.7 | | | | | | | | | | | | | |
| | | | | | | Bottom | 3.3 | 1 | 27.1 | 7.7 | 23.3 | 3.8 | 53.9 | 8.9 | 3.2 | | | | | | | | | | | | | |
| | | | | | | | | 2 | 27.1 | 7.7 | 23.3 | 3.8 | 53.9 | 8.9 | 4.0 | | | | | | | | | | | | | |
| | | | | | | TCE-WQM4 | Cloudy | Moderate | 10:07 | 3.4 | Surface | 1.0 | 1 | 28.5 | 8.0 | | | | 18.7 | 5.9 | 84.5 | 5.2 | 2.5 | 5.9 | 7.1 | 4.5 | | |
| | | | | | | | | | | | | | 2 | 28.5 | 8.0 | | | | 18.6 | 5.9 | 84.8 | 5.7 | 3.2 | | | | | |
| | Bottom | 2.4 | 1 | 27.4 | 7.7 | | | | | | 22.4 | 4.0 | 56.7 | 8.7 | 6.5 | | | | | | | | | | | | | |
| | | | 2 | 27.4 | 7.7 | | | | | | 22.5 | 4.0 | 56.7 | 8.7 | 5.8 | | | | | | | | | | | | | |
| | 29-07-2019 | Mid-Flood | TCE-C1 | Cloudy | Moderate | | | | | | 4:25 | 8.3 | Surface | 1.0 | 1 | 27.4 | 7.9 | 20.2 | 5.1 | 71.6 | 2.0 | 6.8 | 4.0 | | | | 5.7 | 7.7 |
| | | | | | | | | | | | | | | | 2 | 27.4 | 7.9 | 20.2 | 5.1 | 71.5 | 2.1 | 5.8 | | | | | | |
| | | | | | | Middle | 4.2 | 1 | 25.3 | 7.7 | | | 28.8 | 2.9 | 41.5 | 4.4 | 8.3 | | | | | | | | | | | |
| | | | | | | | | 2 | 25.3 | 7.7 | | | 28.8 | 2.9 | 41.5 | 4.4 | 7.6 | | | | | | | | | | | |
| | | | | | | Bottom | 7.3 | 1 | 24.7 | 7.6 | | | 31.6 | 2.6 | 36.9 | 10.9 | 9.5 | | | | | | | | | | | |
| | | | | | | | | 2 | 24.8 | 7.6 | | | 31.5 | 2.6 | 37.2 | 10.4 | 8.4 | | | | | | | | | | | |
| | | | TCE-C2 | Cloudy | Moderate | 2:31 | 12.6 | Surface | 1.0 | 1 | 28.2 | 8.2 | 15.0 | 8.6 | 120.4 | 2.3 | 10.0 | 7.4 | 3.6 | 9.2 | | | | | | | | |
| | | | | | | | | | | 2 | 28.2 | 8.2 | 15.0 | 8.6 | 120.4 | 2.3 | 9.0 | | | | | | | | | | | |
| | | | | | | | | Middle | 6.3 | 1 | 27.3 | 8.1 | 19.9 | 6.2 | 88.6 | 4.8 | 8.1 | | | | | | | | | | | |
| | | | | | | | | | | 2 | 27.3 | 8.1 | 19.9 | 6.2 | 88.6 | 4.8 | 8.7 | | | | | | | | | | | |
| Bottom | | | | | | | | 11.6 | 1 | 25.5 | 7.8 | 27.0 | 4.1 | 58.4 | 3.6 | 9.5 | | | | | | | | | | | | |
| | | | | | | | | | 2 | 25.5 | 7.8 | 24.0 | 4.2 | 58.4 | 3.6 | 9.6 | | | | | | | | | | | | |
| TCE-WQM1 | Cloudy | Moderate | 3:44 | 8.2 | Surface | 1.0 | 1 | 29.5 | 8.4 | 14.4 | 9.3 | 132.5 | 2.3 | 4.7 | 7.0 | 4.0 | 5.6 | | | | | | | | | | | |
| | | | | | | | 2 | 29.5 | 8.4 | 14.4 | 9.3 | 131.9 | 2.4 | 5.5 | | | | | | | | | | | | | | |
| | | | | | Middle | 4.1 | 1 | 28.6 | 8.0 | 17.5 | 4.8 | 68.6 | 4.0 | 4.8 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 28.6 | 8.0 | 17.8 | 4.7 | 66.3 | 4.1 | 5.9 | | | | | | | | | | | | | | |
| | | | | | Bottom | 7.2 | 1 | 25.9 | 7.7 | 27.2 | 2.6 | 37.9 | 5.6 | 6.9 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 25.9 | 7.7 | 27.2 | 2.7 | 38.2 | 5.5 | 5.9 | | | | | | | | | | | | | | |
| TCE-WQM2a | Cloudy | Moderate | 3:10 | 7.5 | Surface | 1.0 | 1 | 28.9 | 8.3 | 15.3 | 8.9 | 125.6 | 2.7 | 5.4 | 7.4 | 5.1 | 6.0 | | | | | | | | | | | |
| | | | | | | | 2 | 28.9 | 8.3 | 15.3 | 8.9 | 125.6 | 2.7 | 6.6 | | | | | | | | | | | | | | |
| | | | | | Middle | 3.8 | 1 | 27.8 | 8.0 | 20.1 | 6.0 | 84.7 | 5.2 | 6.3 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 27.8 | 8.0 | 20.1 | 5.9 | 84.5 | 5.2 | 5.7 | | | | | | | | | | | | | | |
| | | | | | Bottom | 6.5 | 1 | 26.8 | 7.8 | 24.2 | 4.3 | 62.2 | 7.1 | 6.3 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 26.8 | 7.8 | 24.2 | 4.4 | 62.2 | 7.3 | 5.5 | | | | | | | | | | | | | | |
| TCE-WQM2b | Cloudy | Moderate | 2:58 | 11.0 | Surface | 1.0 | 1 | 28.2 | 8.1 | 17.5 | 7.4 | 103.9 | 2.2 | 6.6 | 6.0 | 5.0 | 6.6 | | | | | | | | | | | |
| | | | | | | | 2 | 28.2 | 8.1 | 17.5 | 7.3 | 103.7 | 2.2 | 6.9 | | | | | | | | | | | | | | |
| | | | | | Middle | 5.5 | 1 | 26.9 | 7.8 | 23.8 | 4.6 | 65.8 | 3.1 | 6.3 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 26.9 | 7.8 | 23.7 | 4.6 | 65.7 | 3.1 | 6.6 | | | | | | | | | | | | | | |
| | | | | | Bottom | 10.0 | 1 | 25.3 | 7.7 | 29.7 | 3.2 | 46.0 | 9.6 | 6.3 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 25.3 | 7.7 | 29.7 | 3.2 | 46.2 | 9.7 | 7.0 | | | | | | | | | | | | | | |
| TCE-WQM3A | Cloudy | Moderate | 3:22 | 4.6 | Surface | 1.0 | 1 | 29.0 | 8.1 | 16.4 | 7.7 | 109.9 | 4.5 | 6.8 | 7.7 | 5.3 | 6.3 | | | | | | | | | | | |
| | | | | | | | 2 | 28.9 | 8.1 | 16.4 | 7.8 | 110.2 | 4.6 | 5.7 | | | | | | | | | | | | | | |
| | | | | | Bottom | 3.6 | 1 | 28.0 | 7.8 | 19.8 | 4.6 | 65.9 | 6.2 | 6.7 | | | | | | | | | | | | | | |
| | | | | | | | 2 | 28.0 | 7.8 | 19.8 | 4.7 | 66.6 | 6.1 | 5.8 | | | | | | | | | | | | | | |
| | | | | | TCE-WQM4 | Cloudy | Moderate | 3:33 | 3.3 | Surface | 1.0 | 1 | 29.0 | 8.3 | | | | 15.6 | 9.1 | 129.1 | 3.6 | 6.6 | 9.1 | 3.4 | 6.0 | | | |
| | | | | | | | | | | | | 2 | 29.0 | 8.3 | | | | 15.7 | 9.1 | 128.9 | 3.7 | 6.2 | | | | | | |
| Bottom | 2.3 | 1 | 28.9 | 8.2 | | | | | | 16.2 | 8.6 | 121.4 | 3.1 | 5.2 | | | | | | | | | | | | | | |
| | | 2 | 28.9 | 8.2 | | | | | | 16.3 | 8.5 | 120.8 | 3.1 | 6.1 | | | | | | | | | | | | | | |