

Cumulative Impact Sediment Chemistry at CMPs in February 2019

| 12 & 13/2019 | | As | Cd | Cr | Cu | Pb | Hg | Ni | Ag | Zn | TOC | TBT | T-DDT | 4,4'-DDE | PCBs | Low M.W. PAHs | High M.W. PAHs |
|---------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|----------|-------|---------------|----------------|
| Station | Replicate | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Limits of Reporting (LOR) | | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.2 | 200 | 0.50 | 2.00 | 2.00 | 3 | 100 | 100 |
| ESC-RNA | 1 | 11.8 | 0.09 | 27.05 | 29.65 | 32.44 | 0.25 | 17.42 | 0.23 | 87.7 | 7,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 10.4 | 0.10 | 23.36 | 24.53 | 29.61 | <0.05 | 14.52 | 0.15 | 78.5 | 9,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 10.4 | 0.09 | 25.09 | 28.24 | 30.30 | 0.06 | 16.01 | 0.17 | 84.4 | 7,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 19.4 | 0.12 | 47.44 | 45.93 | 58.14 | 0.10 | 30.61 | 0.27 | 150.5 | 8,100 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 11.9 | 0.09 | 28.06 | 27.54 | 33.47 | 0.06 | 18.17 | 0.16 | 87.7 | 8,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 12.7 | 0.10 | 30.85 | 34.23 | 36.82 | 0.07 | 20.13 | 0.18 | 99.4 | 8,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 11.7 | 0.08 | 26.95 | 29.96 | 32.67 | 0.06 | 17.70 | 0.18 | 86.3 | 7,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 10.5 | 0.08 | 25.52 | 27.36 | 29.95 | 0.06 | 16.12 | 0.18 | 82.1 | 8,800 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 10.2 | 0.07 | 25.57 | 28.49 | 30.79 | 0.06 | 16.16 | 0.17 | 83.9 | 7,600 | 9 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 13.3 | 0.10 | 31.78 | 29.81 | 38.18 | 0.08 | 20.74 | 0.19 | 98.6 | 8,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 11.2 | 0.14 | 27.18 | 31.00 | 32.60 | 0.08 | 17.44 | 0.20 | 89.0 | 7,800 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 10.7 | 0.07 | 25.39 | 27.65 | 32.22 | 0.05 | 15.98 | 0.14 | 84.1 | 8,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RNB | 1 | 12.4 | 0.10 | 25.13 | 25.70 | 34.05 | 0.07 | 15.08 | 0.15 | 84.7 | 5,100 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 10.6 | 0.11 | 22.27 | 22.24 | 31.68 | 0.06 | 13.33 | 0.13 | 94.1 | 6,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 11.0 | 0.07 | 21.05 | 19.26 | 29.43 | 0.06 | 12.73 | 0.12 | 73.1 | 7,800 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 11.4 | 0.11 | 22.79 | 25.95 | 32.83 | 0.08 | 13.55 | 0.41 | 86.6 | 6,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 11.1 | 0.07 | 22.33 | 21.06 | 31.18 | 0.06 | 13.58 | 0.14 | 81.4 | 8,800 | 6 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 11.9 | 0.08 | 25.49 | 24.96 | 34.74 | 0.07 | 15.49 | 0.15 | 85.5 | 7,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 10.5 | 0.09 | 22.62 | 22.31 | 30.99 | 0.07 | 13.68 | 0.14 | 85.9 | 6,800 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 15.0 | 0.12 | 28.07 | 24.88 | 37.77 | 0.09 | 17.15 | 0.12 | 88.3 | 7,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 14.4 | 0.08 | 27.88 | 21.31 | 48.87 | 0.06 | 17.10 | 0.13 | 96.7 | 7,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 12.0 | 0.09 | 24.29 | 21.85 | 34.63 | 0.09 | 14.63 | 0.13 | 85.4 | 7,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 11.0 | 0.06 | 20.83 | 19.54 | 29.77 | 0.06 | 12.70 | 0.11 | 77.6 | 6,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 12.0 | 0.07 | 20.21 | 24.71 | 34.55 | <0.05 | 13.60 | 0.14 | 82.5 | 7,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RMA | 1 | 14.3 | 0.11 | 32.71 | 39.92 | 38.08 | 0.08 | 21.09 | 0.24 | 103.3 | 14,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 14.4 | 0.17 | 32.17 | 38.14 | 37.46 | 0.11 | 20.40 | 0.23 | 100.6 | 11,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 13.9 | 0.12 | 29.84 | 35.19 | 35.60 | 0.07 | 18.63 | 0.21 | 99.7 | 12,000 | 20 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 13.5 | 0.12 | 30.50 | 35.52 | 36.07 | 0.08 | 19.52 | 0.21 | 96.9 | 12,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 14.0 | 0.11 | 32.01 | 37.10 | 37.64 | 0.07 | 20.21 | 0.20 | 100.0 | 12,000 | 10 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 13.8 | 0.11 | 30.32 | 36.51 | 36.03 | 0.08 | 19.31 | 0.22 | 97.4 | 13,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 12.8 | 0.10 | 29.09 | 35.90 | 34.87 | 0.07 | 18.32 | 0.21 | 98.9 | 12,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 13.7 | 0.13 | 31.21 | 37.67 | 35.93 | 0.07 | 19.78 | 0.24 | 101.7 | 13,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 13.9 | 0.11 | 32.78 | 37.36 | 38.29 | 0.11 | 20.77 | 0.20 | 102.5 | 12,000 | 9 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 12.9 | 0.15 | 30.89 | 35.78 | 35.03 | 0.07 | 19.57 | 0.21 | 96.8 | 13,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 12.5 | 0.14 | 29.97 | 35.57 | 35.13 | 0.07 | 18.88 | 0.22 | 95.8 | 11,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 14.2 | 0.09 | 31.68 | 36.39 | 36.82 | 0.09 | 19.93 | 0.22 | 100.3 | 13,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RMB | 1 | 14.8 | 0.06 | 27.32 | 22.61 | 31.51 | <0.05 | 16.96 | 0.12 | 73.2 | 6,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 15.3 | 0.08 | 30.71 | 25.50 | 34.62 | <0.05 | 19.26 | 0.13 | 81.2 | 9,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 14.7 | 0.09 | 28.63 | 23.48 | 32.66 | <0.05 | 18.02 | 0.12 | 76.7 | 7,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 13.7 | 0.10 | 27.81 | 27.12 | 34.08 | 0.09 | 17.55 | 0.18 | 81.2 | 7,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 11.8 | 0.07 | 21.84 | 19.78 | 25.77 | <0.05 | 13.58 | 0.13 | 61.1 | 8,300 | 6 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 15.1 | 0.08 | 30.31 | 24.89 | 34.41 | <0.05 | 18.96 | 0.12 | 80.7 | 6,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 15.3 | 0.10 | 30.76 | 24.35 | 34.28 | 0.05 | 19.41 | 0.12 | 80.4 | 7,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 15.7 | 0.08 | 32.76 | 25.73 | 37.10 | 0.05 | 20.97 | 0.13 | 85.0 | 7,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 14.1 | 0.09 | 28.27 | 24.70 | 32.72 | <0.05 | 17.87 | 0.15 | 77.2 | 7,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 13.1 | 0.14 | 25.31 | 21.22 | 30.89 | 0.06 | 15.79 | 0.11 | 70.1 | 7,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 14.2 | 0.09 | 29.30 | 24.52 | 31.89 | 0.05 | 18.64 | 0.15 | 77.9 | 8,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 14.7 | 0.07 | 28.69 | 23.03 | 33.89 | <0.05 | 18.25 | 0.13 | 76.9 | 7,800 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RFA | 1 | 13.3 | 0.09 | 27.04 | 29.96 | 35.17 | 0.05 | 16.97 | 0.17 | 89.7 | 7,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 12.0 | 0.12 | 25.29 | 27.86 | 31.95 | 0.08 | 15.52 | 0.17 | 83.9 | 6,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 11.3 | 0.11 | 23.60 | 26.72 | 29.93 | 0.09 | 14.62 | 0.17 | 77.9 | 5,800 | 6 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 11.0 | 0.11 | 23.51 | 27.51 | 29.62 | 0.08 | 14.34 | 0.16 | 77.8 | 9,100 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 10.9 | 0.09 | 23.06 | 27.04 | 29.48 | 0.07 | 14.19 | 0.16 | 76.8 | 7,500 | 6 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 11.0 | 0.11 | 23.38 | 28.62 | 30.34 | 0.07 | 14.18 | 0.18 | 79.8 | 6,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 11.0 | 0.12 | 23.14 | 28.09 | 29.98 | 0.07 | 14.03 | 0.17 | 79.2 | 6,800 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 11.2 | 0.10 | 23.32 | 28.58 | 29.76 | 0.06 | 14.14 | 0.18 | 80.0 | 6,100 | 7 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 11.0 | 0.10 | 23.47 | 26.99 | 29.25 | 0.06 | 14.32 | 0.16 | 76.0 | 8,000 | 7 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 11.1 | 0.09 | 24.42 | 31.53 | 30.59 | 0.06 | 14.98 | 0.17 | 82.9 | 8,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 11.7 | 0.12 | 25.20 | 31.50 | 31.14 | 0.06 | 15.28 | 0.19 | 84.0 | 6,700 | 8 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 11.3 | 0.13 | 23.93 | 29.49 | 30.29 | 0.07 | 14.56 | 0.18 | 81.5 | 6,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RFB | 1 | 12.1 | 0.17 | 30.19 | 27.02 | 36.60 | 0.07 | 16.95 | 0.14 | 91.9 | 7,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 12.5 | 0.09 | 29.23 | 25.04 | 37.31 | 0.06 | 16.25 | 0.14 | 89.1 | 12,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 11.1 | 0.14 | 26.86 | 23.78 | 33.56 | 0.05 | 15.00 | 0.12 | 82.6 | 7,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 12.1 | 0.11 | 29.04 | 26.00 | 33.60 | <0.05 | 17.05 | 0.12 | 86.9 | 11,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 11.3 | 0.21 | 27.61 | 23.91 | 36.28 | <0.05 | 14.44 | 0.14 | 85.8 | 8,100 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 15.8 | 0.22 | 37.32 | 33.02 | 47.77 | 0.06 | 19.89 | 0.19 | 116.3 | 10,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 13.5 | 0.17 | 31.30 | 27.45 | 38.54 | <0.05 | 17.59 | 0.16 | 95.4 | 9,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 10.9 | 0.15 | 25.48 | 22.33 | 33.72 | <0.05 | 14.13 | 0.13 | 79.9 | 7,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 12.7 | 0.17 | 29.99 | 25.86 | 38.66 | 0.08 | 16.33 | 0.14 | 92.0 | 10,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 10.0 | 0.15 | 24.11 | 20.26 | 31.91 | 0.08 | 12.99 | 0.15 | 75.5 | 7,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 9.1 | 0.11 | 22.43 | 20.65 | 27.62 | 0.05 | 12.84 | 0.11 | 67.9 | 8,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 11.8 | 0.09 | 27.82 | 25.64 | 33.44 | 0.06 | 16.07 | 0.14 | 85.7 | 10,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RCA | 1 | 5.3 | <0.05 | 11.16 | 14.45 | 14.95 | <0.05 | 6.49 | 0.14 | 44.1 | 4,300 | 11.5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 5.4 | 0.06 | 12.08 | 15.35 | 16.88 | 0.0 | | | | | | | | | | |