

Pit Specific Sediment Chemistry for ESC CMP in May 2019

| Working date : 10 May 2019 | | As | Cd | Cr | Cu | Pb | Hg | Ni | Ag | Zn | T-DDT | 4,4'-DDE | TOC | PCBs | TBT | LowMW PAHs | HighMW PAHs | TBT |
|-------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------------|------------|-------------|-----------|
| Sampling Station | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | ug/kg | ug/kg | mg/kg | ug/kg | ug TBT /kg | ug/kg | ug/kg | ng TBT /L |
| ESC-NNAA (Near-Pit) | Replicate | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.2 | 2.0 | 0.5 | 500 | 3.0 | 5 | 50 | 100 | 10 |
| | 1 | 8.6 | 0.06 | 15.80 | 10.26 | 27.48 | <0.05 | 9.88 | 0.14 | 24.7 | <2 | <0.5 | 2,700 | <3 | <5 | <50 | <100 | <10 |
| | 2 | 10.1 | 0.10 | 19.53 | 22.19 | 35.87 | 0.08 | 13.86 | 0.43 | 35.5 | <2 | <0.5 | 2,400 | <3 | 5 | <50 | <100 | <10 |
| | 3 | 8.8 | 0.06 | 16.50 | 12.43 | 30.37 | <0.05 | 11.44 | 0.20 | 31.8 | <2 | <0.5 | 2,200 | <3 | <5 | <50 | <100 | <10 |
| | 4 | 9.4 | 0.08 | 18.99 | 11.67 | 31.45 | <0.05 | 13.71 | 0.16 | 31.1 | <2 | <0.5 | 2,800 | <3 | <5 | <50 | <100 | <10 |
| | 5 | 8.4 | 0.10 | 15.22 | 12.53 | 28.80 | <0.05 | 10.81 | 0.22 | 30.8 | <2 | <0.5 | 3,400 | <3 | <5 | <50 | <100 | <10 |
| | 6 | 8.7 | 0.09 | 19.59 | 15.29 | 35.50 | <0.05 | 11.76 | 0.31 | 32.8 | <2 | <0.5 | 2,900 | <3 | <5 | <50 | <100 | <10 |
| | 7 | 7.7 | 0.08 | 16.38 | 12.14 | 29.02 | 0.05 | 12.60 | 0.18 | 28.0 | <2 | <0.5 | 2,400 | <3 | <5 | <50 | <100 | <10 |
| | 8 | 9.6 | 0.08 | 18.30 | 12.45 | 30.17 | <0.05 | 13.41 | 0.18 | 32.2 | <2 | <0.5 | 2,500 | <3 | <5 | <50 | <100 | <10 |
| | 9 | 9.6 | 0.08 | 19.98 | 14.62 | 31.17 | <0.05 | 12.38 | 0.22 | 34.5 | <2 | <0.5 | 2,500 | <3 | 8 | <50 | <100 | <10 |
| | 10 | 8.5 | 0.09 | 17.43 | 17.15 | 33.29 | <0.05 | 11.56 | 0.29 | 35.3 | <2 | <0.5 | 2,700 | <3 | <5 | <50 | <100 | <10 |
| | 11 | 9.1 | 0.06 | 15.93 | 11.96 | 28.96 | <0.05 | 10.17 | 0.20 | 33.4 | <2 | <0.5 | 2,500 | <3 | <5 | <50 | <100 | <10 |
| | 12 | 10.7 | 0.10 | 23.10 | 27.05 | 39.03 | 0.05 | 15.72 | 0.62 | 46.2 | <2 | <0.5 | 3,500 | <3 | <5 | <50 | <100 | <10 |
| ESC-NNAB (Near-Pit) | 1 | 8.6 | 0.09 | 18.85 | 18.87 | 35.94 | 0.05 | 14.09 | 0.29 | 38.2 | <2 | <0.5 | 4,000 | <3 | <5 | <50 | <100 | <10 |
| | 2 | 10.0 | 0.11 | 22.12 | 21.75 | 36.79 | <0.05 | 16.06 | 0.63 | 46.7 | <2 | <0.5 | 4,900 | <3 | 7 | <50 | <100 | <10 |
| | 3 | 9.5 | 0.07 | 18.64 | 18.79 | 33.56 | 0.09 | 13.54 | 0.27 | 38.1 | <2 | <0.5 | 5,200 | <3 | <5 | <50 | <100 | <10 |
| | 4 | 10.6 | 0.09 | 22.17 | 21.08 | 36.97 | <0.05 | 15.36 | 0.28 | 45.0 | <2 | <0.5 | 6,100 | <3 | <5 | <50 | <100 | <10 |
| | 5 | 9.6 | 0.08 | 20.41 | 21.38 | 35.32 | 0.10 | 14.90 | 0.30 | 41.7 | <2 | <0.5 | 6,900 | <3 | <5 | <50 | <100 | <10 |
| | 6 | 9.2 | 0.07 | 18.12 | 16.04 | 29.67 | <0.05 | 12.22 | 0.36 | 38.6 | <2 | <0.5 | 4,700 | <3 | <5 | <50 | <100 | <10 |
| | 7 | 9.3 | 0.09 | 19.06 | 17.59 | 32.39 | <0.05 | 13.17 | 0.25 | 38.9 | <2 | <0.5 | 4,700 | <3 | <5 | <50 | <100 | <10 |
| | 8 | 8.6 | 0.08 | 18.14 | 18.72 | 35.11 | 0.05 | 13.64 | 0.28 | 36.7 | <2 | <0.5 | 4,900 | <3 | <5 | <50 | <100 | <10 |
| | 9 | 9.7 | 0.09 | 23.68 | 24.78 | 37.34 | 0.07 | 17.07 | 0.43 | 46.3 | <2 | <0.5 | 5,400 | <3 | 9 | <50 | <100 | <10 |
| | 10 | 8.4 | 0.07 | 16.65 | 16.11 | 33.13 | <0.05 | 12.54 | 0.24 | 34.3 | <2 | <0.5 | 4,900 | <3 | <5 | <50 | <100 | <10 |
| | 11 | 9.2 | 0.07 | 19.45 | 18.15 | 34.62 | <0.05 | 13.93 | 0.27 | 39.9 | <2 | <0.5 | 5,400 | <3 | <5 | <50 | 113 | <10 |
| | 12 | 10.3 | 0.08 | 20.77 | 18.67 | 34.69 | 0.08 | 16.09 | 0.30 | 40.7 | <2 | <0.5 | 5,600 | <3 | <5 | <50 | <100 | <10 |
| ESC-NEAA (Pit-Edge) | 1 | 6.8 | 0.08 | 16.79 | 12.38 | 24.78 | <0.05 | 10.87 | 0.17 | 30.1 | <2 | <0.5 | 4,600 | <3 | <5 | <50 | <100 | <10 |
| | 2 | 10.6 | 0.09 | 23.16 | 19.14 | 42.73 | <0.05 | 14.13 | 0.34 | 38.9 | <2 | <0.5 | 2,800 | <3 | 10 | <50 | <100 | <10 |
| | 3 | 9.1 | 0.10 | 18.80 | 21.16 | 35.03 | 0.05 | 13.36 | 0.34 | 40.5 | <2 | <0.5 | 4,900 | <3 | <5 | <50 | <100 | <10 |
| | 4 | 6.5 | 0.06 | 13.25 | 14.13 | 24.14 | <0.05 | 9.34 | 0.24 | 28.7 | <2 | <0.5 | 2,200 | <3 | <5 | <50 | <100 | <10 |
| | 5 | 8.1 | 0.12 | 18.30 | 20.97 | 31.83 | 0.05 | 13.02 | 0.37 | 39.1 | <2 | <0.5 | 4,600 | <3 | <5 | <50 | <100 | <10 |
| | 6 | 7.2 | 0.09 | 16.35 | 19.59 | 26.69 | <0.05 | 11.52 | 0.30 | 35.1 | <2 | <0.5 | 3,800 | <3 | <5 | <50 | <100 | <10 |
| | 7 | 8.4 | 0.07 | 18.99 | 17.19 | 31.61 | <0.05 | 12.61 | 0.25 | 34.7 | <2 | <0.5 | 4,100 | <3 | <5 | <50 | <100 | <10 |
| | 8 | 9.4 | 0.09 | 21.82 | 24.89 | 36.78 | 0.05 | 15.08 | 0.36 | 41.1 | <2 | <0.5 | 4,100 | <3 | 5 | <50 | <100 | <10 |
| | 9 | 8.0 | 0.11 | 18.57 | 24.96 | 35.25 | 0.05 | 13.72 | 0.44 | 39.8 | <2 | <0.5 | 4,500 | <3 | 7 | <50 | <100 | <10 |
| | 10 | 8.5 | 0.10 | 19.47 | 26.63 | 36.50 | 0.05 | 13.87 | 0.42 | 41.3 | <2 | <0.5 | 3,900 | <3 | 11 | <50 | <100 | <10 |
| | 11 | 9.1 | 0.10 | 18.59 | 19.82 | 33.80 | 0.06 | 13.16 | 0.34 | 40.5 | <2 | <0.5 | 4,600 | <3 | <5 | <50 | <100 | <10 |
| | 12 | 9.1 | 0.10 | 18.73 | 19.79 | 31.47 | <0.05 | 13.17 | 0.29 | 37.9 | <2 | <0.5 | 4,400 | <3 | <5 | <50 | <100 | <10 |
| ESC-NEAB (Pit-Edge) | 1 | 8.8 | 0.05 | 17.80 | 15.52 | 31.34 | <0.05 | 12.89 | 0.23 | 36.0 | <2 | <0.5 | 4,700 | <3 | 26 | <50 | <100 | <10 |
| | 2 | 8.3 | 0.07 | 18.83 | 18.46 | 30.14 | <0.05 | 13.90 | 0.29 | 37.7 | <2 | <0.5 | 4,400 | <3 | <5 | <50 | <100 | <10 |
| | 3 | 7.9 | 0.08 | 18.75 | 17.33 | 33.25 | <0.05 | 13.76 | 0.26 | 38.0 | <2 | <0.5 | 5,000 | <3 | <5 | <50 | <100 | <10 |
| | 4 | 7.9 | 0.08 | 19.29 | 18.62 | 31.83 | 0.06 | 13.68 | 0.31 | 38.5 | <2 | <0.5 | 3,900 | <3 | <5 | <50 | <100 | <10 |
| | 5 | 8.9 | 0.07 | 19.54 | 16.67 | 35.67 | <0.05 | 14.08 | 0.24 | 38.5 | <2 | <0.5 | 6,100 | <3 | 6 | <50 | <100 | <10 |
| | 6 | 7.7 | 0.06 | 17.98 | 16.15 | 28.84 | <0.05 | 12.33 | 0.22 | 36.0 | <2 | <0.5 | 6,900 | <3 | <5 | <50 | <100 | <10 |
| | 7 | 8.9 | 0.08 | 19.89 | 17.44 | 35.62 | <0.05 | 15.37 | 0.25 | 37.3 | <2 | <0.5 | 5,300 | <3 | <5 | <50 | <100 | <10 |
| | 8 | 12.0 | 0.11 | 25.78 | 12.04 | 52.17 | 0.05 | 19.24 | 0.48 | 46.8 | <2 | <0.5 | 4,700 | <3 | 5 | <50 | <100 | <10 |
| | 9 | 9.7 | 0.08 | 21.02 | 19.06 | 36.94 | 0.07 | 15.21 | 0.25 | 39.5 | <2 | <0.5 | 4,600 | <3 | <5 | <50 | <100 | <10 |
| | 10 | 9.4 | 0.08 | 19.35 | 18.50 | 36.92 | <0.05 | 14.75 | 0.26 | 39.1 | <2 | <0.5 | 4,600 | <3 | 6 | <50 | <100 | <10 |
| | 11 | 9.1 | 0.08 | 19.08 | 16.39 | 39.19 | 0.25 | 13.90 | 0.22 | 37.8 | <2 | <0.5 | 6,000 | <3 | <5 | <50 | <100 | <10 |
| | 12 | 10.0 | 0.07 | 21.17 | 17.32 | 41.10 | <0.05 | 15.05 | 0.24 | 40.8 | <2 | <0.5 | 5,000 | <3 | 7 | <50 | <100 | <10 |
| ESC-NPAA (Active-Pit) | 1 | 12.6 | 0.11 | 26.49 | 31.03 | 41.74 | 0.06 | 19.28 | 0.43 | 53.0 | <2 | <0.5 | 8,700 | <3 | 20 | <50 | <100 | <10 |
| | 2 | 11.5 | 0.10 | 22.90 | 23.67 | 40.93 | 0.06 | 16.94 | 0.35 | 42.5 | <2 | <0.5 | 8,700 | <3 | 7 | <50 | <100 | <10 |
| | 3 | 10.2 | 0.09 | 21.03 | 22.99 | 37.94 | 0.05 | 16.26 | 0.33 | 39.8 | <2 | <0.5 | 9,700 | <3 | 11 | 65 | 769 | <10 |
| | 4 | 9.7 | 0.10 | 20.73 | 25.05 | 32.48 | <0.05 | 14.53 | 0.34 | 41.5 | <2 | <0.5 | 6,500 | <3 | 12 | 75 | 350 | <10 |
| | 5 | 11.3 | 0.12 | 23.76 | 29.14 | 39.33 | 0.06 | 16.93 | 0.39 | 49.3 | <2 | <0.5 | 9,100 | <3 | 9 | 79 | 381 | <10 |
| | 6 | 12.8 | 0.14 | 26.30 | 32.94 | 42.85 | 0.06 | 18.39 | 0.43 | 55.8 | <2 | <0.5 | 6,800 | <3 | 11 | 62 | 763 | <10 |
| | 7 | 11.5 | 0.13 | 23.71 | 28.15 | 42.02 | 0.06 | 16.82 | 0.41 | 47.1 | <2 | <0.5 | 8,500 | <3 | 10 | 146 | 1161 | <10 |
| | 8 | 12.4 | 0.22 | 25.23 | 31.52 | 44.52 | 0.06 | 18.13 | 0.44 | 53.0 | <2 | <0.5 | 7,800 | <3 | 9 | <50 | 111 | <10 |
| | 9 | 12.6 | 0.16 | 26.33 | 32.40 | 45.19 | 0.06 | 18.74 | 0.46 | 53.1 | <2 | <0.5 | 7,300 | <3 | 17 | 78 | 371 | <10 |
| | 10 | 12.5 | 0.15 | 24.89 | 32.62 | 44.36 | 0.07 | 18.32 | 0.48 | 51.5 | <2 | <0.5 | 7,700 | <3 | 11 | <50 | <100 | <10 |
| | 11 | 12.4 | 0.18 | 25.07 | 37.04 | 43.12 | 0.06 | 18.31 | 0.48 | 51.4 | <2 | <0.5 | 6,400 | <3 | 10 | <50 | 104 | <10 |
| | 12 | 13.7 | 0.14 | 26.93 | 34.28 | 43.05 | 0.06 | 19.16 | 0.43 | 53.8 | <2 | <0.5 | 7,000 | <3 | 18 | 144 | 984 | <10 |
| ESC-NPAB (Active-Pit) | 1 | 7.9 | 0.08 | 17.90 | 11.58 | 31.39 | <0.05 | 13.54 | 0.13 | 29.6 | <2 | <0.5 | 6,700 | <3 | <5 | <50 | 203 | <10 |
| | 2 | 8.7 | 0.09 | 17.20 | 18.98 | 28.86 | <0.05 | 12.11 | 0.30 | 36.0 | <2 | <0.5 | 5,900 | <3 | 9 | 332 | 1702 | <10 |
| | 3 | 11.7 | 0.06 | 19.39 | 14.25 | | | | | | | | | | | | | |