

Pit Specific Sediment Chemistry for CMP 2 in May 2015

| Working date :<br>12 May 2015 |           | 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 |
|                               | Replicate | 0.1   | 0.05  | 0.05   | 0.05   | 0.05  | 0.05  | 0.05  | 0.05  | 0.2      | 2.0   | 2.0      | 200   | 3     | 0.5        | 55         | 100         | 2         |
| SB-NNBA<br>(Near-Pit)         | 1         | 9.93  | 0.12  | 33.00  | 28.57  | 36.32 | 0.14  | 22.47 | 0.18  | 105.97   | <2    | <2       | 9000  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 2         | 10.02 | 0.12  | 31.71  | 26.98  | 35.23 | 0.13  | 21.64 | 0.20  | 100.66   | <2    | <2       | 9100  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 3         | 12.20 | 0.14  | 33.80  | 60.50  | 37.95 | 0.09  | 23.03 | 0.22  | 140.38   | <2    | <2       | 9600  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 4         | 10.55 | 0.13  | 33.40  | 28.07  | 38.04 | 0.11  | 22.59 | 0.19  | 107.17   | <2    | <2       | 9100  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 5         | 10.23 | 0.16  | 34.06  | 28.92  | 37.34 | 0.09  | 23.13 | 0.21  | 108.45   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 6         | 10.67 | 0.13  | 33.86  | 28.00  | 37.82 | 0.17  | 22.91 | 0.21  | 107.13   | <2    | <2       | 9400  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 7         | 10.77 | 0.13  | 34.71  | 28.81  | 37.19 | 0.05  | 23.65 | 0.19  | 109.83   | <2    | <2       | 9300  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 8         | 10.64 | 0.15  | 34.88  | 28.38  | 37.25 | <0.05 | 23.67 | 0.20  | 108.20   | <2    | <2       | 9200  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 9         | 11.22 | 0.13  | 34.42  | 29.02  | 38.46 | <0.05 | 23.42 | 0.21  | 109.77   | <2    | <2       | 9100  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 10        | 10.87 | 0.11  | 34.08  | 28.20  | 38.30 | 0.09  | 23.28 | 0.21  | 108.61   | <2    | <2       | 9900  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 11        | 10.70 | 0.11  | 34.02  | 27.96  | 37.03 | 0.05  | 23.36 | 0.19  | 108.00   | <2    | <2       | 9300  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 12        | 10.03 | 0.11  | 34.03  | 28.56  | 38.24 | 0.08  | 23.20 | 0.21  | 106.61   | <2    | <2       | 8700  | <3.0  | <5         | <55        | <100        | <10       |
| SB-NNBB<br>(Near-Pit)         | 1         | 8.04  | 0.10  | 34.11  | 32.49  | 36.54 | 0.17  | 22.68 | 0.27  | 107.31   | <2    | <2       | 7900  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 2         | 7.55  | 0.10  | 33.49  | 32.47  | 35.59 | 0.06  | 22.24 | 0.26  | 108.91   | <2    | <2       | 7800  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 3         | 8.34  | 0.08  | 30.73  | 29.55  | 33.68 | 0.07  | 20.22 | 0.25  | 97.44    | <2    | <2       | 7800  | <3.0  | 7          | <55        | <100        | <10       |
|                               | 4         | 8.42  | 0.10  | 35.34  | 33.81  | 37.36 | <0.05 | 23.48 | 0.27  | 113.21   | <2    | <2       | 8900  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 5         | 8.58  | 0.12  | 34.20  | 32.27  | 36.02 | 0.07  | 22.76 | 0.26  | 108.08   | <2    | <2       | 8400  | <3.0  | 9          | <55        | <100        | <10       |
|                               | 6         | 6.83  | 0.08  | 26.79  | 25.91  | 29.79 | <0.05 | 17.71 | 0.22  | 85.96    | <2    | <2       | 8200  | <3.0  | 11         | <55        | <100        | <10       |
|                               | 7         | 8.14  | 0.09  | 31.42  | 30.49  | 34.32 | <0.05 | 20.79 | 0.26  | 99.48    | <2    | <2       | 8400  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 8         | 8.21  | 0.09  | 31.52  | 31.08  | 34.96 | 0.05  | 20.97 | 0.27  | 102.21   | <2    | <2       | 7500  | <3.0  | 10         | <55        | <100        | <10       |
|                               | 9         | 8.20  | 0.08  | 27.69  | 27.51  | 30.86 | <0.05 | 18.35 | 0.22  | 89.70    | <2    | <2       | 6200  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 10        | 7.64  | 0.07  | 30.62  | 29.67  | 33.19 | 0.51  | 20.38 | 0.28  | 99.12    | <2    | <2       | 7700  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 11        | 9.14  | 0.10  | 35.31  | 33.98  | 38.15 | 0.16  | 23.50 | 0.30  | 112.43   | <2    | <2       | 8200  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 12        | 8.09  | 0.08  | 31.23  | 29.95  | 34.37 | 0.09  | 20.59 | 0.28  | 100.02   | <2    | <2       | 6300  | <3.0  | <5         | <55        | <100        | <10       |
| SB-NEBA<br>(Pit-Edge)         | 1         | 11.16 | 0.10  | 35.07  | 34.24  | 39.48 | 0.06  | 23.48 | 0.29  | 111.10   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 2         | 9.87  | 0.10  | 35.06  | 34.53  | 38.94 | <0.05 | 23.60 | 0.28  | 112.87   | <2    | <2       | 9800  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 3         | 10.15 | 0.11  | 34.54  | 34.85  | 38.17 | 0.09  | 23.12 | 0.28  | 110.54   | <2    | <2       | 9200  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 4         | 10.14 | 0.12  | 37.59  | 37.78  | 41.70 | 0.18  | 24.99 | 0.34  | 118.58   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 5         | 10.19 | 0.09  | 35.14  | 37.82  | 39.66 | 0.12  | 23.35 | 0.34  | 116.43   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 6         | 10.37 | 0.12  | 35.14  | 37.25  | 38.95 | 0.08  | 23.02 | 0.34  | 115.87   | <2    | <2       | 9300  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 7         | 10.50 | 0.12  | 35.10  | 35.36  | 38.67 | 0.09  | 23.52 | 0.34  | 111.47   | <2    | <2       | 11000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 8         | 9.94  | 0.11  | 34.50  | 33.22  | 38.37 | 0.11  | 23.23 | 0.28  | 109.34   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 9         | 10.93 | 0.10  | 34.66  | 37.71  | 39.94 | <0.05 | 22.89 | 0.33  | 111.25   | <2    | <2       | 9600  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 10        | 9.80  | 0.11  | 32.79  | 34.07  | 37.04 | <0.05 | 21.91 | 0.30  | 104.75   | <2    | <2       | 9700  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 11        | 10.32 | 0.11  | 34.06  | 32.17  | 36.54 | 0.14  | 23.00 | 0.28  | 111.03   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 12        | 10.64 | 0.13  | 33.55  | 31.94  | 36.64 | 0.07  | 22.74 | 0.28  | 106.95   | <2    | <2       | 9500  | <3.0  | <5         | <55        | <100        | <10       |
| SB-NEBB<br>(Pit-Edge)         | 1         | 7.44  | 0.07  | 21.25  | 20.55  | 25.17 | 0.32  | 14.15 | 0.20  | 68.83    | <2    | <2       | 4700  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 2         | 6.73  | 0.07  | 21.21  | 21.52  | 23.75 | <0.05 | 14.09 | 0.20  | 68.77    | <2    | <2       | 7000  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 3         | 7.13  | 0.08  | 22.95  | 22.37  | 25.80 | 0.10  | 15.20 | 0.22  | 74.18    | <2    | <2       | 6200  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 4         | 7.09  | 0.08  | 23.03  | 22.63  | 26.40 | 0.09  | 15.31 | 0.22  | 74.12    | <2    | <2       | 6600  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 5         | 8.18  | 0.06  | 21.36  | 21.25  | 26.16 | <0.05 | 14.12 | 0.20  | 70.27    | <2    | <2       | 8500  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 6         | 7.24  | 0.07  | 19.99  | 20.42  | 24.79 | <0.05 | 12.87 | 0.20  | 65.13    | <2    | <2       | 7200  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 7         | 6.73  | 0.07  | 19.07  | 20.09  | 23.04 | 0.07  | 12.48 | 0.20  | 63.40    | <2    | <2       | 5900  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 8         | 7.19  | 0.08  | 20.93  | 20.36  | 25.73 | <0.05 | 13.93 | 0.19  | 68.94    | <2    | <2       | 5400  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 9         | 7.30  | 0.08  | 20.69  | 20.98  | 25.19 | <0.05 | 13.49 | 0.22  | 67.72    | <2    | <2       | 6700  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 10        | 7.33  | 0.09  | 20.98  | 21.03  | 25.72 | <0.05 | 13.86 | 0.22  | 67.90    | <2    | <2       | 4400  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 11        | 7.93  | 0.07  | 21.99  | 21.85  | 27.34 | <0.05 | 14.49 | 0.22  | 73.67    | <2    | <2       | 6100  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 12        | 7.28  | 0.06  | 20.15  | 20.41  | 24.15 | <0.05 | 13.36 | 0.20  | 65.60    | <2    | <2       | 7900  | <3.0  | <5         | <55        | <100        | <10       |
| SB-NPBA<br>(Active-Pit)       | 1         | 8.22  | 0.64  | 55.71  | 189.82 | 48.61 | 0.09  | 31.57 | 3.66  | 233.25   | <2    | <2       | 11000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 2         | 7.51  | 0.57  | 54.31  | 189.22 | 49.02 | 0.12  | 29.16 | 3.54  | 197.09   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 3         | 7.59  | 0.49  | 47.65  | 147.20 | 45.52 | 0.07  | 24.49 | 2.94  | 190.50   | <2    | <2       | 12000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 4         | 8.34  | 0.45  | 46.65  | 134.55 | 52.33 | 0.11  | 23.63 | 2.79  | 183.71   | <2    | <2       | 12000 | <3.0  | 6          | <55        | <100        | <10       |
|                               | 5         | 7.30  | 0.53  | 45.44  | 142.50 | 40.67 | 0.10  | 22.79 | 2.74  | 194.59   | <2    | <2       | 10000 | <3.0  | 10         | <55        | <100        | <10       |
|                               | 6         | 7.55  | 0.48  | 46.47  | 141.46 | 52.44 | 0.13  | 24.53 | 2.90  | 205.59   | <2    | <2       | 11000 | <3.0  | 8          | <55        | <100        | <10       |
|                               | 7         | 7.78  | 0.56  | 48.87  | 140.79 | 45.76 | 0.10  | 26.53 | 2.65  | 187.33   | <2    | <2       | 11000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 8         | 7.30  | 0.54  | 50.21  | 158.34 | 46.72 | 0.13  | 27.77 | 2.99  | 181.60   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 9         | 7.39  | 0.57  | 51.47  | 170.31 | 57.02 | 0.18  | 28.44 | 2.96  | 242.63   | <2    | <2       | 10000 | <3.0  | 7          | <55        | <100        | <10       |
|                               | 10        | 7.09  | 0.78  | 111.22 | 386.66 | 66.55 | 0.46  | 76.04 | 4.27  | 261.00   | <2    | <2       | 9900  | <3.0  | 8          | <55        | <100        | <10       |
|                               | 11        | 6.94  | 0.61  | 58.56  | 212.44 | 46.64 | 0.11  | 35.57 | 3.13  | 191.49   | <2    | <2       | 9200  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 12        | 5.85  | 0.44  | 42.60  | 124.92 | 45.04 | 0.12  | 21.63 | 2.96  | 165.99   | <2    | <2       | 9800  | <3.0  | <5         | <55        | <100        | <10       |
| SB-NPBB<br>(Active-Pit)       | 1         | 7.51  | 0.48  | 65.92  | 143.86 | 42.23 | 0.14  | 36.37 | 2.00  | 159.42   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 2         | 8.54  | 0.37  | 52.11  | 110.80 | 46.72 | 0.09  | 29.10 | 1.72  | 145.27   | <2    | <2       | 12000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 3         | 7.37  | 0.34  | 49.89  | 109.62 | 40.50 | 0.09  | 27.40 | 1.78  | 151.44   | <2    | <2       | 12000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 4         | 7.25  | 0.45  | 59.32  | 135.85 | 43.44 | 0.09  | 31.83 | 2.18  | 184.40   | <2    | <2       | 11000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 5         | 7.62  | 0.45  | 49.95  | 134.74 | 42.59 | 0.06  | 25.47 | 2.15  | 140.25   | <2    | <2       | 10000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 6         | 8.05  | 0.48  | 54.90  | 135.69 | 46.27 | 0.08  | 27.24 | 2.60  | 166.83   | <2    | <2       | 9700  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 7         | 7.38  | 0.41  | 48.55  | 108.81 | 39.37 | 0.10  | 26.07 | 1.98  | 149.46   | <2    | <2       | 9900  | <3.0  | <5         | <55        | <100        | <10       |
|                               | 8         | 7.88  | 0.54  | 63.07  | 167.25 | 48.85 | 0.11  | 30.67 | 3.57  | 184.69   | <2    | <2       | 11000 | <3.0  | <5         | <55        | <100        | <10       |
|                               | 9         | 6.74  | 0.31  | 40.16  | 87.98  | 36.15 | 0.05  | 21.68 | 1.54  | 134.33</ |       |          |       |       |            |            |             |           |