

Summary Report - Water Quality - Routine Water Quality Monitoring for ESC CMP Vd

Date: 4 July 2016

| Station ID | Replicate | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Silver | Zinc | NH3-N | TIN | BOD5 | SS |
|-----------------|-----------|---------|---------|----------|--------|------|---------|--------|--------|------|-------|-------|------|------|
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | mg/L | mg/L | mg/L | mg/L |
| Reporting Limit | | 1.0 | 0.1 | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 1.0 | 0.005 | 0.015 | 0.5 | 2 |
| ESC-IPE1 | 1 | 2.2 | 0.25 | 0.5 | 4.8 | 0.5 | 0.25 | 1.8 | 0.5 | 6.4 | 0.11 | 1.14 | 0.3 | 16.4 |
| ESC-IPE1 | 2 | 2.1 | 0.25 | 0.5 | 4.8 | 0.5 | 0.25 | 1.7 | 0.5 | 5.5 | 0.11 | 1.12 | 0.3 | 14.8 |
| ESC-IPE1 | 3 | 2.1 | 0.25 | 0.5 | 4.8 | 0.5 | 0.25 | 1.5 | 0.5 | 7.5 | 0.10 | 1.11 | 0.3 | 15.4 |
| ESC-IPE1 | 4 | 2.3 | 0.25 | 0.5 | 4.6 | 0.5 | 0.25 | 1.6 | 0.5 | 7.7 | 0.10 | 1.08 | 0.3 | 16.9 |
| ESC-IPE1 | 5 | 2.1 | 0.25 | 0.5 | 5.0 | 0.5 | 0.25 | 1.6 | 0.5 | 6.0 | 0.10 | 1.20 | 0.3 | 15.7 |
| ESC-IPE1 | 6 | 2.6 | 0.25 | 0.5 | 5.4 | 0.5 | 0.25 | 1.7 | 0.5 | 7.1 | 0.13 | 1.18 | 0.3 | 16.6 |
| ESC-IPE1 | 7 | 2.3 | 0.25 | 0.5 | 4.5 | 0.5 | 0.25 | 1.6 | 0.5 | 6.0 | 0.14 | 1.23 | 0.3 | 18.3 |
| ESC-IPE1 | 8 | 2.6 | 0.25 | 0.5 | 5.0 | 0.5 | 0.25 | 1.4 | 0.5 | 6.4 | 0.13 | 1.30 | 0.3 | 19.4 |
| ESC-IPE2 | 1 | 2.2 | 0.25 | 0.5 | 5.1 | 0.5 | 0.25 | 1.4 | 0.5 | 7.7 | 0.14 | 1.29 | 0.3 | 8.9 |
| ESC-IPE2 | 2 | 2.0 | 0.25 | 0.5 | 4.1 | 0.5 | 0.25 | 1.3 | 0.5 | 9.0 | 0.11 | 1.13 | 0.3 | 9.5 |
| ESC-IPE2 | 3 | 2.4 | 0.25 | 0.5 | 4.2 | 0.5 | 0.25 | 1.7 | 0.5 | 9.0 | 0.14 | 1.22 | 0.3 | 9.1 |
| ESC-IPE2 | 4 | 2.6 | 0.25 | 0.5 | 4.7 | 0.5 | 0.25 | 1.5 | 0.5 | 9.2 | 0.12 | 1.17 | 0.3 | 9.2 |
| ESC-IPE2 | 5 | 2.3 | 0.25 | 0.5 | 4.3 | 0.5 | 0.25 | 1.5 | 0.5 | 8.0 | 0.11 | 1.12 | 0.3 | 9.6 |
| ESC-IPE2 | 6 | 2.4 | 0.25 | 0.5 | 4.7 | 0.5 | 0.25 | 1.3 | 0.5 | 8.7 | 0.12 | 1.14 | 0.3 | 10.0 |
| ESC-IPE2 | 7 | 2.4 | 0.25 | 0.5 | 4.8 | 0.5 | 0.25 | 1.4 | 0.5 | 6.5 | 0.13 | 1.15 | 0.3 | 10.4 |
| ESC-IPE2 | 8 | 2.4 | 0.25 | 0.5 | 3.5 | 0.5 | 0.25 | 1.4 | 0.5 | 6.3 | 0.12 | 1.14 | 0.3 | 10.4 |
| ESC-IPE3 | 1 | 2.3 | 0.25 | 0.5 | 4.4 | 2.2 | 0.25 | 1.5 | 0.5 | 9.5 | 0.11 | 1.15 | 0.3 | 27.1 |
| ESC-IPE3 | 2 | 2.7 | 0.25 | 0.5 | 4.9 | 1.9 | 0.25 | 1.4 | 0.5 | 10.7 | 0.11 | 1.07 | 0.7 | 24.3 |
| ESC-IPE3 | 3 | 2.0 | 0.25 | 0.5 | 5.2 | 2.6 | 0.25 | 1.5 | 0.5 | 8.1 | 0.12 | 1.08 | 0.6 | 23.0 |
| ESC-IPE3 | 4 | 2.5 | 0.25 | 0.5 | 5.3 | 2.2 | 0.25 | 1.4 | 0.5 | 9.0 | 0.14 | 1.22 | 0.6 | 24.4 |
| ESC-IPE3 | 5 | 2.1 | 0.25 | 0.5 | 4.8 | 1.9 | 0.25 | 1.5 | 0.5 | 8.2 | 0.12 | 1.18 | 0.3 | 26.7 |
| ESC-IPE3 | 6 | 2.5 | 0.25 | 0.5 | 4.0 | 1.9 | 0.25 | 1.7 | 0.5 | 7.8 | 0.16 | 1.11 | 0.7 | 30.4 |
| ESC-IPE3 | 7 | 2.1 | 0.25 | 0.5 | 4.9 | 2.5 | 0.25 | 1.6 | 0.5 | 8.0 | 0.12 | 1.14 | 0.7 | 29.8 |
| ESC-IPE3 | 8 | 2.6 | 0.25 | 0.5 | 3.6 | 1.3 | 0.25 | 1.7 | 0.5 | 9.1 | 0.12 | 1.09 | 0.6 | 27.2 |
| ESC-IPE4 | 1 | 2.1 | 0.25 | 0.5 | 4.6 | 2.5 | 0.25 | 1.7 | 0.5 | 10.6 | 0.11 | 1.13 | 0.3 | 27.2 |
| ESC-IPE4 | 2 | 2.1 | 0.25 | 0.5 | 4.0 | 2.0 | 0.25 | 1.7 | 0.5 | 12.3 | 0.11 | 1.11 | 1.4 | 29.8 |
| ESC-IPE4 | 3 | 1.8 | 0.25 | 0.5 | 5.0 | 2.6 | 0.25 | 1.7 | 0.5 | 8.6 | 0.10 | 1.07 | 0.6 | 29.3 |
| ESC-IPE4 | 4 | 1.9 | 0.25 | 0.5 | 5.2 | 2.2 | 0.25 | 1.5 | 0.5 | 12.0 | 0.10 | 1.09 | 1.0 | 29.5 |
| ESC-IPE4 | 5 | 1.8 | 0.25 | 0.5 | 4.4 | 2.7 | 0.25 | 1.7 | 0.5 | 8.8 | 0.12 | 1.12 | 0.8 | 32.8 |
| ESC-IPE4 | 6 | 1.8 | 0.25 | 0.5 | 4.4 | 2.5 | 0.25 | 1.9 | 0.5 | 10.2 | 0.11 | 1.09 | 0.9 | 28.4 |
| ESC-IPE4 | 7 | 2.2 | 0.25 | 0.5 | 3.8 | 2.4 | 0.25 | 1.8 | 0.5 | 8.7 | 0.11 | 1.08 | 0.5 | 29.8 |
| ESC-IPE4 | 8 | 2.4 | 0.25 | 0.5 | 6.0 | 2.2 | 0.25 | 1.9 | 0.5 | 9.7 | 0.11 | 1.12 | 1.1 | 29.9 |
| ESC-IPE5 | 1 | 2.3 | 0.25 | 0.5 | 4.4 | 1.7 | 0.25 | 1.7 | 0.5 | 57.5 | 0.11 | 1.11 | 0.7 | 20.1 |
| ESC-IPE5 | 2 | 2.8 | 0.25 | 0.5 | 4.9 | 1.9 | 0.25 | 1.8 | 0.5 | 48.9 | 0.11 | 1.08 | 0.3 | 21.8 |
| ESC-IPE5 | 3 | 2.5 | 0.25 | 0.5 | 4.9 | 2.0 | 0.25 | 1.7 | 0.5 | 55.3 | 0.11 | 1.08 | 0.5 | 22.5 |
| ESC-IPE5 | 4 | 2.4 | 0.25 | 0.5 | 5.2 | 1.6 | 0.25 | 1.5 | 0.5 | 65.4 | 0.10 | 1.05 | 0.6 | 20.2 |
| ESC-IPE5 | 5 | 2.5 | 0.25 | 0.5 | 3.6 | 2.0 | 0.25 | 1.7 | 0.5 | 54.1 | 0.12 | 1.21 | 0.7 | 22.9 |
| ESC-IPE5 | 6 | 2.2 | 0.25 | 0.5 | 4.5 | 1.6 | 0.25 | 1.9 | 0.5 | 51.4 | 0.13 | 1.09 | 0.3 | 22.8 |
| ESC-IPE5 | 7 | 2.6 | 0.25 | 0.5 | 4.9 | 1.8 | 0.25 | 1.9 | 0.5 | 59.6 | 0.11 | 1.11 | 0.5 | 22.1 |
| ESC-IPE5 | 8 | 2.5 | 0.25 | 0.5 | 5.4 | 1.7 | 0.25 | 2.2 | 0.5 | 64.7 | 0.10 | 1.06 | 0.5 | 21.7 |
| ESC-INE1 | 1 | 2.3 | 0.25 | 0.5 | 2.4 | 0.5 | 0.25 | 0.5 | 0.5 | 4.2 | 0.09 | 1.12 | 0.3 | 10.9 |
| ESC-INE1 | 2 | 1.9 | 0.25 | 0.5 | 2.8 | 0.5 | 0.25 | 0.5 | 0.5 | 3.7 | 0.10 | 1.10 | 0.3 | 10.6 |
| ESC-INE1 | 3 | 2.2 | 0.25 | 0.5 | 2.2 | 0.5 | 0.25 | 1.1 | 0.5 | 4.4 | 0.11 | 1.10 | 0.3 | 10.3 |
| ESC-INE1 | 4 | 2.1 | 0.25 | 0.5 | 2.6 | 0.5 | 0.25 | 0.5 | 0.5 | 3.7 | 0.10 | 1.10 | 0.3 | 10.1 |
| ESC-INE1 | 5 | 2.0 | 0.25 | 0.5 | 2.8 | 0.5 | 0.25 | 0.5 | 0.5 | 4.3 | 0.11 | 1.10 | 0.3 | 10.4 |
| ESC-INE1 | 6 | 2.6 | 0.25 | 0.5 | 2.0 | 2.0 | 0.25 | 0.5 | 0.5 | 4.8 | 0.10 | 1.10 | 0.3 | 9.8 |
| ESC-INE1 | 7 | 2.4 | 0.25 | 0.5 | 2.2 | 1.7 | 0.25 | 0.5 | 0.5 | 4.5 | 0.10 | 1.12 | 0.3 | 9.7 |
| ESC-INE1 | 8 | 2.6 | 0.25 | 0.5 | 3.5 | 1.3 | 0.25 | 1.3 | 0.5 | 4.5 | 0.12 | 1.15 | 0.3 | 9.0 |
| ESC-INE2 | 1 | 2.6 | 0.25 | 0.5 | 4.0 | 1.7 | 0.25 | 1.2 | 0.5 | 6.1 | 0.13 | 1.11 | 0.3 | 11.0 |
| ESC-INE2 | 2 | 2.2 | 0.25 | 0.5 | 4.7 | 1.4 | 0.25 | 1.1 | 0.5 | 6.9 | 0.12 | 1.09 | 0.3 | 14.3 |
| ESC-INE2 | 3 | 3.1 | 0.25 | 0.5 | 4.6 | 1.6 | 0.25 | 1.1 | 0.5 | 5.4 | 0.13 | 1.09 | 0.3 | 15.0 |
| ESC-INE2 | 4 | 2.8 | 0.25 | 0.5 | 4.5 | 1.6 | 0.25 | 0.5 | 0.5 | 6.5 | 0.13 | 1.20 | 0.3 | 14.0 |
| ESC-INE2 | 5 | 3.0 | 0.25 | 0.5 | 4.1 | 1.7 | 0.25 | 1.1 | 0.5 | 5.2 | 0.13 | 1.10 | 1.3 | 12.1 |
| ESC-INE2 | 6 | 2.2 | 0.25 | 0.5 | 3.3 | 1.6 | 0.25 | 1.3 | 0.5 | 5.7 | 0.13 | 1.20 | 0.3 | 12.1 |
| ESC-INE2 | 7 | | | | | | | | | | | | | |

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| Station ID | Replicate | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel | Silver | Zinc | NH3-N | TIN | BOD5 | SS |
|-----------------|-----------|---------|---------|----------|--------|------|---------|--------|--------|------|-------|-------|------|------|
| | | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | mg/L | mg/L | mg/L | mg/L |
| Reporting Limit | | 1.0 | 0.1 | 1.0 | 1.0 | 1.0 | 0.1 | 1.0 | 1.0 | 1.0 | 0.005 | 0.015 | 0.5 | 2 |
| ESC-RFE2 | 1 | 2.5 | 0.25 | 0.5 | 2.3 | 0.5 | 0.25 | 0.5 | 0.5 | 4.9 | 0.15 | 1.09 | 0.3 | 25.3 |
| ESC-RFE2 | 2 | 2.2 | 0.25 | 0.5 | 2.4 | 0.5 | 0.25 | 0.5 | 0.5 | 5.7 | 0.14 | 1.01 | 0.3 | 26.0 |
| ESC-RFE2 | 3 | 2.4 | 0.25 | 0.5 | 2.1 | 0.5 | 0.25 | 0.5 | 0.5 | 5.1 | 0.15 | 1.02 | 0.3 | 25.4 |
| ESC-RFE2 | 4 | 2.0 | 0.25 | 0.5 | 2.5 | 0.5 | 0.25 | 0.5 | 0.5 | 4.5 | 0.15 | 1.01 | 0.3 | 23.2 |
| ESC-RFE2 | 5 | 2.0 | 0.25 | 0.5 | 2.7 | 0.5 | 0.25 | 1.0 | 0.5 | 5.8 | 0.15 | 1.00 | 0.6 | 26.1 |
| ESC-RFE2 | 6 | 2.2 | 0.25 | 0.5 | 2.0 | 0.5 | 0.25 | 0.5 | 0.5 | 5.8 | 0.16 | 1.02 | 0.5 | 25.5 |
| ESC-RFE2 | 7 | 2.9 | 0.25 | 0.5 | 2.5 | 0.5 | 0.25 | 0.5 | 0.5 | 4.3 | 0.15 | 1.00 | 0.3 | 25.5 |
| ESC-RFE2 | 8 | 2.3 | 0.25 | 0.5 | 3.0 | 0.5 | 0.25 | 1.2 | 0.5 | 4.6 | 0.15 | 1.02 | 0.5 | 28.5 |
| ESC-RFE3 | 1 | 2.9 | 0.25 | 0.5 | 3.1 | 2.0 | 0.25 | 1.5 | 0.5 | 6.8 | 0.15 | 0.97 | 2.4 | 30.4 |
| ESC-RFE3 | 2 | 2.3 | 0.25 | 0.5 | 3.2 | 2.4 | 0.25 | 1.4 | 0.5 | 5.6 | 0.18 | 1.08 | 3.3 | 31.3 |
| ESC-RFE3 | 3 | 3.2 | 0.25 | 0.5 | 2.9 | 1.9 | 0.25 | 1.4 | 0.5 | 7.6 | 0.15 | 0.98 | 3.5 | 31.9 |
| ESC-RFE3 | 4 | 2.9 | 0.25 | 0.5 | 2.7 | 2.2 | 0.25 | 1.6 | 0.5 | 7.6 | 0.14 | 0.97 | 2.4 | 31.6 |
| ESC-RFE3 | 5 | 2.7 | 0.25 | 0.5 | 3.7 | 2.2 | 0.25 | 1.3 | 0.5 | 7.9 | 0.15 | 0.96 | 2.1 | 31.2 |
| ESC-RFE3 | 6 | 2.9 | 0.25 | 0.5 | 3.6 | 1.6 | 0.25 | 1.7 | 0.5 | 6.8 | 0.16 | 1.00 | 3.4 | 32.0 |
| ESC-RFE3 | 7 | 3.2 | 0.25 | 0.5 | 3.4 | 1.8 | 0.25 | 1.2 | 0.5 | 5.8 | 0.15 | 0.98 | 2.4 | 29.2 |
| ESC-RFE3 | 8 | 3.0 | 0.25 | 0.5 | 3.5 | 2.2 | 0.25 | 1.3 | 0.5 | 6.5 | 0.15 | 0.96 | 4.4 | 29.7 |
| ESC-RFE4 | 1 | 2.1 | 0.25 | 0.5 | 1.8 | 0.5 | 0.25 | 0.5 | 0.5 | 4.0 | 0.14 | 1.12 | 4.6 | 11.0 |
| ESC-RFE4 | 2 | 1.8 | 0.25 | 0.5 | 1.5 | 0.5 | 0.25 | 1.1 | 0.5 | 3.6 | 0.15 | 1.35 | 3.0 | 9.9 |
| ESC-RFE4 | 3 | 2.1 | 0.25 | 0.5 | 2.1 | 0.5 | 0.25 | 1.1 | 0.5 | 3.4 | 0.15 | 1.23 | 3.4 | 9.7 |
| ESC-RFE4 | 4 | 2.4 | 0.25 | 0.5 | 1.4 | 0.5 | 0.25 | 0.5 | 0.5 | 3.6 | 0.15 | 1.16 | 3.2 | 9.7 |
| ESC-RFE4 | 5 | 2.3 | 0.25 | 0.5 | 1.9 | 0.5 | 0.25 | 1.0 | 0.5 | 4.2 | 0.14 | 1.12 | 2.6 | 9.2 |
| ESC-RFE4 | 6 | 1.9 | 0.25 | 0.5 | 2.0 | 0.5 | 0.25 | 0.5 | 0.5 | 4.6 | 0.14 | 1.07 | 2.9 | 8.8 |
| ESC-RFE4 | 7 | 1.7 | 0.25 | 0.5 | 1.8 | 0.5 | 0.25 | 1.1 | 0.5 | 4.1 | 0.14 | 1.08 | 2.9 | 8.9 |
| ESC-RFE4 | 8 | 2.8 | 0.25 | 0.5 | 2.5 | 0.5 | 0.25 | 0.5 | 0.5 | 3.9 | 0.14 | 1.15 | 2.2 | 9.2 |
| ESC-RFE5 | 1 | 2.7 | 0.25 | 0.5 | 3.9 | 0.5 | 0.25 | 1.0 | 0.5 | 6.4 | 0.15 | 1.06 | 2.0 | 6.7 |
| ESC-RFE5 | 2 | 2.8 | 0.25 | 0.5 | 4.6 | 0.5 | 0.25 | 1.1 | 0.5 | 5.9 | 0.14 | 0.98 | 2.2 | 8.7 |
| ESC-RFE5 | 3 | 2.4 | 0.25 | 0.5 | 3.9 | 0.5 | 0.25 | 1.1 | 0.5 | 6.8 | 0.15 | 1.01 | 0.3 | 8.4 |
| ESC-RFE5 | 4 | 2.9 | 0.25 | 0.5 | 4.3 | 0.5 | 0.25 | 0.5 | 0.5 | 6.4 | 0.14 | 0.99 | 0.3 | 7.6 |
| ESC-RFE5 | 5 | 2.2 | 0.25 | 0.5 | 4.3 | 0.5 | 0.25 | 1.1 | 0.5 | 6.6 | 0.14 | 1.00 | 0.7 | 7.9 |
| ESC-RFE5 | 6 | 2.1 | 0.25 | 0.5 | 3.2 | 0.5 | 0.25 | 1.1 | 0.5 | 7.0 | 0.15 | 1.02 | 0.6 | 6.9 |
| ESC-RFE5 | 7 | 2.4 | 0.25 | 0.5 | 4.3 | 0.5 | 0.25 | 0.5 | 0.5 | 5.7 | 0.14 | 0.99 | 0.3 | 7.7 |
| ESC-RFE5 | 8 | 2.4 | 0.25 | 0.5 | 4.7 | 0.5 | 0.25 | 1.1 | 0.5 | 5.1 | 0.14 | 0.99 | 0.3 | 7.6 |
| MW1 | 1 | 2.4 | 0.25 | 0.5 | 4.0 | 0.5 | 0.25 | 1.0 | 0.5 | 5.9 | 0.13 | 1.03 | 0.7 | 6.7 |
| MW1 | 2 | 2.3 | 0.25 | 0.5 | 3.8 | 0.5 | 0.25 | 1.1 | 0.5 | 6.2 | 0.13 | 1.03 | 0.7 | 6.8 |
| MW1 | 3 | 2.9 | 0.25 | 0.5 | 4.2 | 0.5 | 0.25 | 0.5 | 0.5 | 5.0 | 0.12 | 1.03 | 0.8 | 6.2 |
| MW1 | 4 | 2.6 | 0.25 | 0.5 | 4.8 | 0.5 | 0.25 | 1.2 | 0.5 | 6.0 | 0.13 | 1.04 | 0.6 | 5.5 |
| MW1 | 5 | 2.6 | 0.25 | 0.5 | 3.5 | 0.5 | 0.25 | 1.0 | 0.5 | 5.5 | 0.13 | 1.04 | 0.5 | 5.7 |
| MW1 | 6 | 2.0 | 0.25 | 0.5 | 3.8 | 0.5 | 0.25 | 0.5 | 0.5 | 5.3 | 0.13 | 1.04 | 0.7 | 5.8 |
| MW1 | 7 | 2.1 | 0.25 | 0.5 | 3.9 | 0.5 | 0.25 | 1.2 | 0.5 | 5.9 | 0.13 | 1.03 | 0.8 | 5.2 |
| MW1 | 8 | 2.6 | 0.25 | 0.5 | 4.9 | 1.1 | 0.25 | 1.3 | 0.5 | 5.4 | 0.12 | 1.02 | 0.6 | 5.6 |

Note: SB-INE/INE - Intermediate stations; SB-IPE/IPE - Impact stations; SB-RFE/RFE - Reference stations; MW - Ma Wan station.