

**WATER COLUMN PROFILING FOR CMP 1**

14/08/2014

| Pos. No.   | Easting  | Northing | Tide    | Depth | Temp. | Salinity | Turbidity(Ntu) | D.O.(%) | D.O.(mg/l) | pH   | Time     | Speed | Direction |
|------------|----------|----------|---------|-------|-------|----------|----------------|---------|------------|------|----------|-------|-----------|
| Downstream | 814929.0 | 819785.3 | Mid Ebb | 8.3   | 26.80 | 26.17    | 6.9            | 51.4    | 3.55       | 7.71 | 13:11:22 | 0.35  | 94.8      |
|            |          |          |         | 6.9   | 27.19 | 24.95    | 9.8            | 55.5    | 3.83       | 7.68 | 13:12:26 | 1.48  | 283.2     |
|            |          |          |         | 5.9   | 27.38 | 24.39    | 13.5           | 56.0    | 3.86       | 7.67 | 13:13:34 | 0.46  | 148.7     |
|            |          |          |         | 5.0   | 27.39 | 24.39    | 14.2           | 55.7    | 3.84       | 7.67 | 13:14:49 | 0.13  | 174.0     |
|            |          |          |         | 3.9   | 27.72 | 23.27    | 13.1           | 59.8    | 4.13       | 7.66 | 13:16:04 | 0.20  | 166.7     |
|            |          |          |         | 3.0   | 27.93 | 22.79    | 11.6           | 63.3    | 4.37       | 7.65 | 13:17:17 | 0.90  | 94.8      |
|            |          |          |         | 1.9   | 28.04 | 22.55    | 8.7            | 64.7    | 4.46       | 7.66 | 13:18:39 | 0.81  | 258.3     |
|            |          |          |         | 1.0   | 28.25 | 22.03    | 6.6            | 66.4    | 4.58       | 7.65 | 13:19:50 | 0.12  | 253.9     |
|            |          |          |         | 8.0   | 27.09 | 25.31    | 8.4            | 54.5    | 3.76       | 7.70 | 13:21:25 | 0.37  | 296.3     |
|            |          |          |         | 7.0   | 27.24 | 24.86    | 11.0           | 55.5    | 3.83       | 7.69 | 13:22:36 | 0.55  | 56.7      |
|            |          |          |         | 6.0   | 27.31 | 24.65    | 14.3           | 55.7    | 3.84       | 7.68 | 13:23:48 | 0.23  | 39.1      |
|            |          |          |         | 5.0   | 27.40 | 24.31    | 16.9           | 55.7    | 3.84       | 7.67 | 13:24:57 | 0.09  | 263.5     |
|            |          |          |         | 4.1   | 27.61 | 23.62    | 17.1           | 57.8    | 3.99       | 7.66 | 13:26:01 | 0.32  | 126.3     |
|            |          |          |         | 2.9   | 27.90 | 22.91    | 12.3           | 62.1    | 4.29       | 7.65 | 13:27:08 | 1.17  | 143.9     |
|            |          |          |         | 2.0   | 28.03 | 22.59    | 10.9           | 64.4    | 4.44       | 7.65 | 13:28:16 | 0.18  | 145.4     |
|            |          |          |         | 1.1   | 28.20 | 22.21    | 7.6            | 66.3    | 4.57       | 7.64 | 13:29:25 | 0.35  | 80.8      |
|            |          |          |         | 7.8   | 27.19 | 25.03    | 11.3           | 55.4    | 3.83       | 7.68 | 13:30:49 | 0.23  | 146.4     |
|            |          |          |         | 7.0   | 27.19 | 25.03    | 13.0           | 55.1    | 3.80       | 7.68 | 13:33:18 | 0.55  | 198.0     |
|            |          |          |         | 5.9   | 27.28 | 24.76    | 16.7           | 54.9    | 3.79       | 7.67 | 13:36:02 | 0.77  | 259.3     |
|            |          |          |         | 4.9   | 27.33 | 24.59    | 14.8           | 55.1    | 3.80       | 7.66 | 13:39:52 | 0.81  | 155.1     |
|            |          |          |         | 4.0   | 27.59 | 23.68    | 12.5           | 57.8    | 3.99       | 7.65 | 13:42:34 | 0.44  | 81.3      |
|            |          |          |         | 3.0   | 28.06 | 22.48    | 9.5            | 64.8    | 4.47       | 7.63 | 13:45:32 | 0.13  | 259.4     |
|            |          |          |         | 2.0   | 28.18 | 22.24    | 7.9            | 66.5    | 4.59       | 7.64 | 13:47:40 | 0.04  | 180.0     |
|            |          |          |         | 1.0   | 28.40 | 21.74    | 6.7            | 69.2    | 4.76       | 7.64 | 13:49:12 | 0.29  | 11.3      |
|            |          |          |         | 8.0   | 27.12 | 25.25    | 15.3           | 54.0    | 3.72       | 7.68 | 13:51:00 | 0.62  | 109.4     |
|            |          |          |         | 7.0   | 27.15 | 25.16    | 16.2           | 53.9    | 3.72       | 7.66 | 13:54:00 | 0.15  | 320.1     |
|            |          |          |         | 6.1   | 27.21 | 24.97    | 17.6           | 54.2    | 3.74       | 7.65 | 13:57:00 | 0.92  | 115.5     |
|            |          |          |         | 5.0   | 27.56 | 23.68    | 13.8           | 56.7    | 3.92       | 7.64 | 14:00:00 | 0.25  | 119.8     |
|            |          |          |         | 4.0   | 28.01 | 22.45    | 11.1           | 64.0    | 4.42       | 7.62 | 14:05:00 | 0.66  | 160.5     |
|            |          |          |         | 2.9   | 28.19 | 22.11    | 9.8            | 66.7    | 4.60       | 7.62 | 14:06:47 | 0.09  | 76.7      |
|            |          |          |         | 2.0   | 28.30 | 21.92    | 8.5            | 68.2    | 4.70       | 7.62 | 14:07:53 | 0.26  | 331.1     |
|            |          |          |         | 0.9   | 28.31 | 21.90    | 8.5            | 68.6    | 4.73       | 7.62 | 14:09:01 | 0.25  | 148.9     |

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| Pos. No. | Easting  | Northing | Tide    | Depth | Temp. | Salinity | Turbidity(Ntu) | D.O.(%) | D.O.(mg/l) | pH   | Time     | Speed | Direction |
|----------|----------|----------|---------|-------|-------|----------|----------------|---------|------------|------|----------|-------|-----------|
| Upstream | 815276.0 | 819790.3 | Mid Ebb | 10.1  | 27.16 | 25.45    | 12.7           | 50.6    | 3.49       | 7.64 | 14:21:00 | 0.25  | 145.1     |
|          |          |          |         | 9.0   | 27.18 | 25.24    | 12.4           | 52.5    | 3.62       | 7.63 | 14:23:00 | 1.12  | 107.1     |
|          |          |          |         | 8.0   | 27.19 | 25.16    | 12.4           | 52.8    | 3.64       | 7.63 | 14:25:07 | 0.77  | 9.5       |
|          |          |          |         | 7.1   | 27.24 | 24.97    | 11.5           | 53.9    | 3.72       | 7.62 | 14:27:04 | 0.12  | 346.9     |
|          |          |          |         | 6.2   | 27.21 | 25.07    | 12.2           | 53.4    | 3.68       | 7.62 | 14:29:36 | 0.42  | 332.0     |
|          |          |          |         | 5.0   | 27.27 | 24.87    | 9.9            | 54.3    | 3.75       | 7.61 | 14:31:08 | 0.24  | 347.9     |
|          |          |          |         | 4.2   | 27.59 | 23.87    | 20.1           | 57.7    | 3.98       | 7.60 | 14:33:07 | 0.15  | 231.4     |
|          |          |          |         | 3.0   | 27.90 | 22.95    | 20.0           | 61.4    | 4.24       | 7.59 | 14:35:26 | 0.67  | 327.3     |
|          |          |          |         | 2.0   | 27.91 | 22.74    | 22.6           | 61.7    | 4.26       | 7.58 | 14:37:13 | 0.19  | 211.2     |
|          |          |          |         | 1.1   | 28.45 | 21.63    | 8.0            | 71.8    | 4.95       | 7.61 | 14:39:06 | 1.15  | 340.1     |
|          |          |          |         | 10.1  | 27.16 | 25.42    | 14.2           | 50.3    | 3.47       | 7.61 | 14:42:58 | 0.51  | 63.8      |
|          |          |          |         | 8.9   | 27.16 | 25.31    | 11.8           | 51.8    | 3.57       | 7.60 | 14:45:34 | 0.26  | 11.4      |
|          |          |          |         | 7.7   | 27.19 | 25.16    | 12.8           | 52.7    | 3.64       | 7.60 | 14:47:42 | 0.24  | 223.6     |
|          |          |          |         | 7.0   | 27.21 | 25.08    | 13.2           | 53.1    | 3.66       | 7.60 | 14:49:23 | 0.33  | 343.3     |
|          |          |          |         | 5.8   | 27.22 | 25.03    | 11.7           | 53.3    | 3.68       | 7.59 | 14:52:45 | 0.84  | 165.4     |
|          |          |          |         | 4.9   | 27.26 | 24.89    | 10.7           | 54.0    | 3.73       | 7.59 | 14:54:57 | 0.38  | 296.6     |
|          |          |          |         | 4.1   | 27.47 | 24.21    | 12.5           | 56.5    | 3.90       | 7.58 | 14:57:12 | 0.72  | 21.7      |
|          |          |          |         | 3.1   | 27.90 | 22.73    | 21.4           | 60.8    | 4.20       | 7.55 | 14:59:24 | 0.66  | 358.3     |
|          |          |          |         | 1.8   | 28.13 | 21.93    | 11.1           | 64.8    | 4.48       | 7.55 | 15:01:52 | 0.60  | 18.2      |
|          |          |          |         | 1.0   | 28.30 | 21.70    | 7.5            | 70.5    | 4.86       | 7.57 | 15:03:39 | 0.41  | 346.7     |
|          |          |          |         | 9.9   | 27.16 | 25.49    | 12.1           | 49.9    | 3.44       | 7.58 | 15:05:54 | 0.43  | 192.7     |
|          |          |          |         | 8.9   | 27.16 | 25.44    | 13.1           | 50.3    | 3.46       | 7.58 | 15:08:10 | 0.33  | 276.2     |
|          |          |          |         | 8.0   | 27.16 | 25.33    | 15.3           | 51.6    | 3.55       | 7.57 | 15:11:16 | 0.24  | 221.1     |
|          |          |          |         | 6.9   | 27.27 | 24.86    | 13.4           | 54.0    | 3.73       | 7.56 | 15:14:43 | 0.41  | 136.9     |
|          |          |          |         | 5.8   | 27.30 | 24.78    | 10.3           | 54.5    | 3.76       | 7.56 | 15:17:07 | 0.54  | 211.8     |
|          |          |          |         | 5.1   | 27.48 | 24.18    | 7.5            | 56.7    | 3.91       | 7.55 | 15:19:14 | 0.30  | 286.4     |
|          |          |          |         | 4.0   | 27.75 | 23.31    | 7.2            | 60.0    | 4.14       | 7.54 | 15:20:14 | 0.33  | 37.6      |
|          |          |          |         | 3.1   | 27.78 | 23.21    | 8.4            | 60.3    | 4.16       | 7.53 | 15:22:02 | 0.62  | 332.5     |
|          |          |          |         | 1.9   | 28.19 | 21.87    | 8.4            | 67.4    | 4.66       | 7.53 | 15:23:56 | 0.68  | 347.5     |
|          |          |          |         | 1.0   | 28.28 | 21.74    | 7.4            | 71.36   | 4.93       | 7.55 | 15:25:20 | 0.8   | 346.7     |

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| <b>Suspended Solids (SS)</b> |                   | Unit                     | mg/L |
|------------------------------|-------------------|--------------------------|------|
|                              |                   | Limit of Reporting (LOR) | 2    |
| Sample date:                 | Station           |                          |      |
| 14/08/2014                   | Downstream (WCP1) | REPLICATE 1              | 12.1 |
| 14/08/2014                   | Downstream (WCP1) | REPLICATE 2              | 13   |
| 14/08/2014                   | Downstream (WCP1) | REPLICATE 3              | 12.9 |
| 14/08/2014                   | Downstream (WCP1) | REPLICATE 4              | 17.4 |
| 14/08/2014                   | Upstream (WCP2)   | REPLICATE 1              | 14.2 |
| 14/08/2014                   | Upstream (WCP2)   | REPLICATE 2              | 17.7 |
| 14/08/2014                   | Upstream (WCP2)   | REPLICATE 3              | 14.9 |
| 14/08/2014                   | Upstream (WCP2)   | REPLICATE 4              | 13   |