

| WATER COLUMN PROFILING FOR ESC CMP Vd |          |          |         |       |       |          |                |         |            |      |          |       |           |
|---------------------------------------|----------|----------|---------|-------|-------|----------|----------------|---------|------------|------|----------|-------|-----------|
| 11/5/2018                             |          |          |         |       |       |          |                |         |            |      |          |       |           |
| Pos. No.                              | Easting  | Northing | Tide    | Depth | Temp. | Salinity | Turbidity(Ntu) | D.O.(%) | D.O.(mg/l) | pH   | Time     | Speed | Direction |
| Downstream                            | 812599.7 | 822153.7 | Mid Ebb | 8.0   | 24.32 | 32.00    | 12.2           | 104.9   | 7.31       | 7.97 | 12:03:41 | 0.75  | 107.0     |
|                                       |          |          |         | 8.0   | 24.32 | 31.99    | 16.1           | 104.4   | 7.28       | 8.02 | 12:20:37 | 0.81  | 115.7     |
|                                       |          |          |         | 8.0   | 24.32 | 31.98    | 8.6            | 104.7   | 7.30       | 8.03 | 12:36:23 | 0.66  | 129.6     |
|                                       |          |          |         | 8.0   | 24.34 | 31.96    | 7.1            | 105.5   | 7.36       | 8.03 | 12:49:48 | 0.33  | 106.3     |
|                                       |          |          |         | 7.0   | 24.33 | 31.99    | 8.1            | 105.1   | 7.32       | 7.99 | 12:05:47 | 0.57  | 72.5      |
|                                       |          |          |         | 7.0   | 24.32 | 31.99    | 9.1            | 104.4   | 7.28       | 8.02 | 12:22:36 | 0.98  | 82.2      |
|                                       |          |          |         | 7.0   | 24.31 | 31.98    | 6.7            | 104.7   | 7.30       | 8.03 | 12:37:45 | 0.71  | 65.9      |
|                                       |          |          |         | 7.0   | 24.38 | 31.88    | 5.9            | 106.2   | 7.40       | 8.03 | 12:51:38 | 0.73  | 93.6      |
|                                       |          |          |         | 6.0   | 24.32 | 32.00    | 7.2            | 104.9   | 7.31       | 8.00 | 12:08:04 | 0.73  | 68.7      |
|                                       |          |          |         | 6.0   | 24.32 | 31.99    | 9.1            | 104.4   | 7.28       | 8.02 | 12:24:15 | 0.44  | 84.2      |
|                                       |          |          |         | 6.0   | 24.34 | 31.96    | 6.0            | 105.3   | 7.34       | 8.04 | 12:40:26 | 0.28  | 345.1     |
|                                       |          |          |         | 6.0   | 24.39 | 31.86    | 5.1            | 107.8   | 7.51       | 8.03 | 12:53:22 | 0.80  | 88.9      |
|                                       |          |          |         | 5.0   | 24.33 | 31.99    | 6.9            | 105.1   | 7.32       | 8.01 | 12:10:10 | 0.70  | 163.2     |
|                                       |          |          |         | 5.0   | 24.31 | 31.99    | 7.7            | 104.8   | 7.31       | 8.02 | 12:27:04 | 0.95  | 65.8      |
|                                       |          |          |         | 5.0   | 24.35 | 31.95    | 5.1            | 105.9   | 7.38       | 8.04 | 12:42:07 | 0.47  | 95.6      |
|                                       |          |          |         | 5.0   | 24.43 | 31.80    | 5.0            | 109.3   | 7.61       | 8.04 | 12:54:45 | 0.59  | 44.7      |
|                                       |          |          |         | 4.0   | 24.33 | 31.99    | 6.7            | 105.0   | 7.31       | 8.01 | 12:12:27 | 1.41  | 117.3     |
|                                       |          |          |         | 4.0   | 24.35 | 31.99    | 5.8            | 105.5   | 7.35       | 8.03 | 12:28:56 | 0.76  | 94.1      |
|                                       |          |          |         | 4.0   | 24.45 | 31.84    | 4.4            | 108.2   | 7.53       | 8.04 | 12:44:06 | 0.84  | 84.5      |
|                                       |          |          |         | 4.0   | 24.49 | 31.70    | 4.1            | 109.7   | 7.63       | 8.04 | 12:56:56 | 0.77  | 77.5      |
|                                       |          |          |         | 3.0   | 24.34 | 31.99    | 7.2            | 105.2   | 7.33       | 8.02 | 12:14:53 | 0.48  | 94.3      |
|                                       |          |          |         | 3.0   | 24.35 | 31.98    | 5.2            | 105.8   | 7.37       | 8.03 | 12:30:31 | 1.19  | 94.4      |
|                                       |          |          |         | 3.0   | 24.49 | 31.78    | 4.5            | 108.8   | 7.57       | 8.04 | 12:45:19 | 0.44  | 125.8     |
|                                       |          |          |         | 3.0   | 24.54 | 31.64    | 3.8            | 110.2   | 7.67       | 8.04 | 12:58:36 | 1.00  | 82.5      |
|                                       |          |          |         | 2.0   | 24.34 | 31.99    | 6.1            | 105.4   | 7.34       | 8.02 | 12:17:21 | 0.84  | 116.4     |
|                                       |          |          |         | 2.0   | 24.38 | 31.95    | 5.0            | 106.8   | 7.44       | 8.04 | 12:32:28 | 1.79  | 147.1     |
|                                       |          |          |         | 2.0   | 24.50 | 31.72    | 4.0            | 109.9   | 7.65       | 8.04 | 12:47:06 | 0.44  | 82.2      |
|                                       |          |          |         | 2.0   | 24.70 | 31.44    | 3.5            | 111.9   | 7.77       | 8.05 | 13:00:07 | 0.42  | 73.1      |
|                                       |          |          |         | 1.0   | 24.35 | 31.99    | 5.6            | 105.5   | 7.35       | 8.02 | 12:18:41 | 1.14  | 76.3      |
|                                       |          |          |         | 1.0   | 24.53 | 31.83    | 4.4            | 106.6   | 7.41       | 8.04 | 12:34:21 | 1.12  | 110.4     |
|                                       |          |          |         | 1.0   | 24.63 | 31.52    | 3.4            | 111.3   | 7.73       | 8.05 | 12:48:11 | 0.31  | 91.9      |
|                                       |          |          |         | 1.0   | 24.76 | 31.37    | 3.0            | 113.0   | 7.84       | 8.06 | 13:02:04 | 1.01  | 158.4     |

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|---------------------------------------|----------|----------|---------|-------|-------|----------|----------------|---------|------------|------|----------|-------|-----------|
| 11/5/2018                             |          |          |         |       |       |          |                |         |            |      |          |       |           |
| Pos. No.                              | Easting  | Northing | Tide    | Depth | Temp. | Salinity | Turbidity(Ntu) | D.O.(%) | D.O.(mg/l) | pH   | Time     | Speed | Direction |
| Upstream                              | 812039.6 | 822420.8 | Mid Ebb | 10.0  | 24.40 | 31.69    | 9.7            | 106.9   | 7.45       | 8.04 | 13:22:17 | 1.23  | 124.3     |
|                                       |          |          |         | 10.0  | 24.44 | 31.65    | 9.2            | 107.0   | 7.45       | 8.01 | 13:38:01 | 0.36  | 105.6     |
|                                       |          |          |         | 10.0  | 24.55 | 31.62    | 8.8            | 106.8   | 7.43       | 8.00 | 13:56:51 | 0.67  | 140.8     |
|                                       |          |          |         | 10.0  | 24.58 | 31.60    | 7.3            | 106.9   | 7.44       | 7.99 | 14:13:03 | 0.75  | 214.7     |
|                                       |          |          |         | 9.0   | 24.41 | 31.67    | 12.8           | 107.2   | 7.48       | 8.02 | 13:23:57 | 0.89  | 90.8      |
|                                       |          |          |         | 9.0   | 24.45 | 31.65    | 7.8            | 107.1   | 7.46       | 8.01 | 13:39:55 | 0.96  | 109.0     |
|                                       |          |          |         | 9.0   | 24.55 | 31.61    | 6.1            | 107.0   | 7.44       | 8.00 | 13:58:21 | 0.39  | 120.6     |
|                                       |          |          |         | 9.0   | 24.58 | 31.60    | 6.0            | 107.2   | 7.46       | 7.99 | 14:14:26 | 0.70  | 72.1      |
|                                       |          |          |         | 8.0   | 24.41 | 31.67    | 7.6            | 107.3   | 7.48       | 8.02 | 13:25:52 | 0.36  | 101.1     |
|                                       |          |          |         | 8.0   | 24.47 | 31.63    | 7.4            | 107.3   | 7.47       | 8.01 | 13:41:15 | 0.25  | 191.8     |
|                                       |          |          |         | 8.0   | 24.55 | 31.61    | 7.4            | 107.0   | 7.44       | 8.00 | 13:59:32 | 0.40  | 142.6     |
|                                       |          |          |         | 8.0   | 24.59 | 31.59    | 5.2            | 107.5   | 7.48       | 7.99 | 14:15:34 | 0.38  | 95.0      |
|                                       |          |          |         | 7.0   | 24.40 | 31.69    | 7.9            | 107.2   | 7.48       | 8.02 | 13:27:00 | 1.05  | 111.7     |
|                                       |          |          |         | 7.0   | 24.50 | 31.62    | 6.3            | 107.6   | 7.49       | 8.01 | 13:42:35 | 0.31  | 117.1     |
|                                       |          |          |         | 7.0   | 24.56 | 31.61    | 5.4            | 107.2   | 7.46       | 8.00 | 14:00:57 | 0.45  | 161.0     |
|                                       |          |          |         | 7.0   | 24.60 | 31.59    | 5.8            | 107.7   | 7.49       | 7.99 | 14:16:45 | 0.57  | 84.9      |
|                                       |          |          |         | 6.0   | 24.44 | 31.65    | 6.7            | 107.4   | 7.49       | 8.02 | 13:28:12 | 0.99  | 79.8      |
|                                       |          |          |         | 6.0   | 24.51 | 31.62    | 5.7            | 107.7   | 7.50       | 8.00 | 13:44:05 | 0.49  | 153.0     |
|                                       |          |          |         | 6.0   | 24.59 | 31.60    | 4.9            | 107.5   | 7.48       | 8.00 | 14:02:21 | 1.01  | 116.1     |
|                                       |          |          |         | 6.0   | 24.62 | 31.57    | 5.0            | 108.4   | 7.54       | 7.99 | 14:18:20 | 0.25  | 127.5     |
|                                       |          |          |         | 5.0   | 24.43 | 31.65    | 6.8            | 107.8   | 7.52       | 8.02 | 13:30:31 | 0.98  | 96.4      |
|                                       |          |          |         | 5.0   | 24.53 | 31.62    | 5.2            | 107.6   | 7.49       | 8.00 | 13:46:55 | 0.25  | 169.1     |
|                                       |          |          |         | 5.0   | 24.63 | 31.58    | 4.5            | 108.0   | 7.51       | 8.00 | 14:03:49 | 0.54  | 115.4     |
|                                       |          |          |         | 5.0   | 24.63 | 31.56    | 4.1            | 108.7   | 7.55       | 7.99 | 14:20:15 | 0.84  | 80.7      |
|                                       |          |          |         | 4.0   | 24.46 | 31.62    | 5.6            | 108.4   | 7.56       | 8.02 | 13:32:01 | 0.59  | 125.9     |
|                                       |          |          |         | 4.0   | 24.59 | 31.61    | 5.0            | 107.9   | 7.50       | 8.00 | 13:48:40 | 0.67  | 125.6     |
|                                       |          |          |         | 4.0   | 24.63 | 31.58    | 4.3            | 108.4   | 7.53       | 7.99 | 14:05:13 | 0.61  | 90.9      |
|                                       |          |          |         | 4.0   | 24.64 | 31.55    | 4.0            | 109.6   | 7.61       | 8.00 | 14:21:39 | 0.10  | 24.1      |
|                                       |          |          |         | 3.0   | 24.48 | 31.62    | 5.2            | 108.5   | 7.56       | 8.02 | 13:33:38 | 0.57  | 109.4     |
|                                       |          |          |         | 3.0   | 24.58 | 31.62    | 4.6            | 108.1   | 7.52       | 8.00 | 13:50:03 | 0.84  | 143.0     |
|                                       |          |          |         | 3.0   | 24.69 | 31.56    | 4.0            | 109.1   | 7.58       | 8.00 | 14:06:35 | 0.86  | 184.8     |
|                                       |          |          |         | 3.0   | 24.68 | 31.52    | 3.3            | 110.6   | 7.68       | 8.00 | 14:22:43 | 0.35  | 104.7     |
|                                       |          |          |         | 2.0   | 24.48 | 31.63    | 5.1            | 108.8   | 7.57       | 8.02 | 13:34:38 | 0.59  | 152.3     |
|                                       |          |          |         | 2.0   | 24.76 | 31.57    | 3.6            | 109.1   | 7.56       | 8.01 | 13:51:26 | 0.46  | 188.1     |
|                                       |          |          |         | 2.0   | 24.67 | 31.57    | 4.0            | 109.2   | 7.59       | 8.00 | 14:07:57 | 1.26  | 121.4     |
|                                       |          |          |         | 2.0   | 24.72 | 31.50    | 3.2            | 111.4   | 7.73       | 8.00 | 14:24:09 | 0.36  | 189.3     |
|                                       |          |          |         | 1.0   | 24.64 | 31.59    | 4.9            | 108.9   | 7.56       | 8.02 | 13:35:44 | 0.99  | 103.4     |
|                                       |          |          |         | 1.0   | 24.85 | 31.55    | 3.1            | 109.5   | 7.58       | 8.01 | 13:52:42 | 1.32  | 115.4     |
|                                       |          |          |         | 1.0   | 24.75 | 31.55    | 3.8            | 109.7   | 7.61       | 8.00 | 14:09:22 | 0.84  | 117.8     |
|                                       |          |          |         | 1.0   | 24.91 | 31.43    | 2.7            | 112.2   | 7.76       | 8.00 | 14:25:46 | 0.65  | 106.6     |