

Quarterly Assessment of Construction Impacts on SS

Significant difference between the quarterly mean and 1.3 times of the ambient mean (Lower-tailed t-test)

| Baseline Results (DA) | | | | Impact Monitoring Results (DA) | | | |
|-----------------------|-----------|---------|----|--------------------------------|-----------|---------|-------|
| STN | DATE | TIDE | SS | STN | DATE | TIDE | SS |
| M01 | 06-Feb-03 | Mid-Ebb | 7 | M01A | 3-Aug-09 | MID-EBB | 6.05 |
| M01 | 14-Feb-03 | Mid-Ebb | 8 | M01A | 5-Aug-09 | MID-EBB | 9.80 |
| M01 | 21-Feb-03 | Mid-Ebb | 9 | M01A | 7-Aug-09 | MID-EBB | 6.40 |
| M01 | 03-Mar-03 | Mid-Ebb | 9 | M01A | 10-Aug-09 | MID-EBB | 3.60 |
| M01 | 10-Mar-03 | Mid-Ebb | 13 | M01A | 12-Aug-09 | MID-EBB | 7.90 |
| M01 | 22-Mar-03 | Mid-Ebb | 8 | M01A | 14-Aug-09 | MID-EBB | 4.50 |
| M01 | 31-Mar-03 | Mid-Ebb | 8 | M01A | 17-Aug-09 | MID-EBB | 6.50 |
| M01 | 07-Apr-03 | Mid-Ebb | 9 | M01A | 19-Aug-09 | MID-EBB | 5.25 |
| M01 | 16-Apr-03 | Mid-Ebb | 8 | M01A | 21-Aug-09 | MID-EBB | 8.15 |
| M04 | 06-Feb-03 | Mid-Ebb | 6 | M01A | 24-Aug-09 | MID-EBB | 7.65 |
| M04 | 14-Feb-03 | Mid-Ebb | 10 | M01A | 26-Aug-09 | MID-EBB | 7.05 |
| M04 | 21-Feb-03 | Mid-Ebb | 7 | M01A | 28-Aug-09 | MID-EBB | 5.65 |
| M04 | 03-Mar-03 | Mid-Ebb | 8 | M01A | 31-Aug-09 | MID-EBB | 5.25 |
| M04 | 10-Mar-03 | Mid-Ebb | 9 | M01A | 2-Sep-09 | MID-EBB | 7.15 |
| M04 | 22-Mar-03 | Mid-Ebb | 7 | M01A | 4-Sep-09 | MID-EBB | 10.25 |
| M04 | 31-Mar-03 | Mid-Ebb | 9 | M01A | 7-Sep-09 | MID-EBB | 7.40 |
| M04 | 07-Apr-03 | Mid-Ebb | 8 | M01A | 9-Sep-09 | MID-EBB | 6.00 |
| M04 | 16-Apr-03 | Mid-Ebb | 6 | M01A | 11-Sep-09 | MID-EBB | 7.15 |
| M05 | 10-Feb-03 | Mid-Ebb | 8 | M01A | 14-Sep-09 | MID-EBB | 6.15 |
| M05 | 19-Feb-03 | Mid-Ebb | 8 | M01A | 16-Sep-09 | MID-EBB | 11.50 |
| M05 | 28-Feb-03 | Mid-Ebb | 7 | M01A | 18-Sep-09 | MID-EBB | 8.30 |
| M05 | 07-Mar-03 | Mid-Ebb | 8 | M01A | 21-Sep-09 | MID-EBB | 11.05 |
| M05 | 19-Mar-03 | Mid-Ebb | 7 | M01A | 23-Sep-09 | MID-EBB | 7.00 |
| M05 | 26-Mar-03 | Mid-Ebb | 7 | M01A | 25-Sep-09 | MID-EBB | 6.10 |
| M05 | 04-Apr-03 | Mid-Ebb | 8 | M01A | 28-Sep-09 | MID-EBB | 8.95 |
| M05 | 14-Apr-03 | Mid-Ebb | 7 | M01A | 30-Sep-09 | MID-EBB | 7.75 |
| M06 | 08-Feb-03 | Mid-Ebb | 5 | M01A | 2-Oct-09 | MID-EBB | 6.80 |
| M06 | 18-Feb-03 | Mid-Ebb | 9 | M01A | 5-Oct-09 | MID-EBB | 11.50 |
| M06 | 24-Feb-03 | Mid-Ebb | 7 | M01A | 7-Oct-09 | MID-EBB | 11.35 |
| M06 | 05-Mar-03 | Mid-Ebb | 10 | M01A | 9-Oct-09 | MID-EBB | 6.90 |
| M06 | 17-Mar-03 | Mid-Ebb | 7 | M01A | 12-Oct-09 | MID-EBB | 8.25 |
| M06 | 24-Mar-03 | Mid-Ebb | 6 | M01A | 14-Oct-09 | MID-EBB | 6.90 |
| M06 | 02-Apr-03 | Mid-Ebb | 7 | M01A | 16-Oct-09 | MID-EBB | 12.50 |
| M06 | 09-Apr-03 | Mid-Ebb | 8 | M01A | 19-Oct-09 | MID-EBB | 12.20 |
| M07 | 06-Feb-03 | Mid-Ebb | 4 | M01A | 21-Oct-09 | MID-EBB | 8.85 |
| M07 | 08-Feb-03 | Mid-Ebb | 4 | M01A | 23-Oct-09 | MID-EBB | 7.85 |
| M07 | 10-Feb-03 | Mid-Ebb | 5 | M01A | 27-Oct-09 | MID-EBB | 9.00 |
| M07 | 14-Feb-03 | Mid-Ebb | 5 | M01A | 29-Oct-09 | MID-EBB | 8.00 |
| M07 | 18-Feb-03 | Mid-Ebb | 5 | M01A | 31-Oct-09 | MID-EBB | 7.75 |
| M07 | 19-Feb-03 | Mid-Ebb | 9 | M04B | 3-Aug-09 | MID-EBB | 7.50 |
| M07 | 21-Feb-03 | Mid-Ebb | 7 | M04B | 5-Aug-09 | MID-EBB | 8.50 |
| M07 | 24-Feb-03 | Mid-Ebb | 5 | M04B | 7-Aug-09 | MID-EBB | 6.35 |
| M07 | 28-Feb-03 | Mid-Ebb | 6 | M04B | 10-Aug-09 | MID-EBB | 4.20 |
| M07 | 03-Mar-03 | Mid-Ebb | 8 | M04B | 12-Aug-09 | MID-EBB | 4.60 |
| M07 | 05-Mar-03 | Mid-Ebb | 6 | M04B | 14-Aug-09 | MID-EBB | 4.90 |
| M07 | 07-Mar-03 | Mid-Ebb | 7 | M04B | 17-Aug-09 | MID-EBB | 6.55 |
| M07 | 10-Mar-03 | Mid-Ebb | 6 | M04B | 19-Aug-09 | MID-EBB | 5.40 |
| M07 | 17-Mar-03 | Mid-Ebb | 8 | M04B | 21-Aug-09 | MID-EBB | 7.00 |
| M07 | 19-Mar-03 | Mid-Ebb | 11 | M04B | 24-Aug-09 | MID-EBB | 7.55 |
| M07 | 22-Mar-03 | Mid-Ebb | 8 | M04B | 26-Aug-09 | MID-EBB | 5.75 |
| M07 | 24-Mar-03 | Mid-Ebb | 10 | M04B | 28-Aug-09 | MID-EBB | 6.90 |
| M07 | 26-Mar-03 | Mid-Ebb | 8 | M04B | 31-Aug-09 | MID-EBB | 5.75 |
| M07 | 31-Mar-03 | Mid-Ebb | 7 | M04B | 2-Sep-09 | MID-EBB | 6.35 |
| M07 | 02-Apr-03 | Mid-Ebb | 7 | M04B | 4-Sep-09 | MID-EBB | 6.75 |
| M07 | 04-Apr-03 | Mid-Ebb | 6 | M04B | 7-Sep-09 | MID-EBB | 5.95 |
| M07 | 07-Apr-03 | Mid-Ebb | 7 | M04B | 9-Sep-09 | MID-EBB | 6.45 |
| M07 | 09-Apr-03 | Mid-Ebb | 6 | M04B | 11-Sep-09 | MID-EBB | 8.40 |
| M07 | 14-Apr-03 | Mid-Ebb | 5 | M04B | 14-Sep-09 | MID-EBB | 5.50 |
| M07 | 16-Apr-03 | Mid-Ebb | 7 | M04B | 16-Sep-09 | MID-EBB | 8.20 |
| M08 | 06-Feb-03 | Mid-Ebb | 4 | M04B | 18-Sep-09 | MID-EBB | 6.05 |
| M08 | 08-Feb-03 | Mid-Ebb | 5 | M04B | 21-Sep-09 | MID-EBB | 6.55 |
| M08 | 10-Feb-03 | Mid-Ebb | 5 | M04B | 23-Sep-09 | MID-EBB | 4.90 |
| M08 | 14-Feb-03 | Mid-Ebb | 5 | M04B | 25-Sep-09 | MID-EBB | 7.80 |
| M08 | 18-Feb-03 | Mid-Ebb | 6 | M04B | 28-Sep-09 | MID-EBB | 4.80 |
| M08 | 19-Feb-03 | Mid-Ebb | 7 | M04B | 30-Sep-09 | MID-EBB | 5.50 |
| M08 | 21-Feb-03 | Mid-Ebb | 8 | M04B | 2-Oct-09 | MID-EBB | 7.80 |
| M08 | 24-Feb-03 | Mid-Ebb | 6 | M04B | 5-Oct-09 | MID-EBB | 8.40 |
| M08 | 28-Feb-03 | Mid-Ebb | 5 | M04B | 7-Oct-09 | MID-EBB | 15.95 |
| M08 | 03-Mar-03 | Mid-Ebb | 7 | M04B | 9-Oct-09 | MID-EBB | 6.95 |
| M08 | 05-Mar-03 | Mid-Ebb | 6 | M04B | 12-Oct-09 | MID-EBB | 8.45 |
| M08 | 07-Mar-03 | Mid-Ebb | 7 | M04B | 14-Oct-09 | MID-EBB | 6.90 |
| M08 | 10-Mar-03 | Mid-Ebb | 9 | M04B | 16-Oct-09 | MID-EBB | 6.35 |
| M08 | 17-Mar-03 | Mid-Ebb | 8 | M04B | 19-Oct-09 | MID-EBB | 8.20 |
| M08 | 19-Mar-03 | Mid-Ebb | 10 | M04B | 21-Oct-09 | MID-EBB | 6.00 |
| M08 | 22-Mar-03 | Mid-Ebb | 7 | M04B | 23-Oct-09 | MID-EBB | 6.70 |
| M08 | 24-Mar-03 | Mid-Ebb | 6 | M04B | 27-Oct-09 | MID-EBB | 6.30 |
| M08 | 26-Mar-03 | Mid-Ebb | 6 | M04B | 29-Oct-09 | MID-EBB | 6.85 |
| M08 | 31-Mar-03 | Mid-Ebb | 7 | M04B | 31-Oct-09 | MID-EBB | 5.20 |
| M08 | 02-Apr-03 | Mid-Ebb | 7 | M05B | 3-Aug-09 | MID-EBB | 6.85 |
| M08 | 04-Apr-03 | Mid-Ebb | 7 | M05B | 5-Aug-09 | MID-EBB | 8.95 |
| M08 | 07-Apr-03 | Mid-Ebb | 7 | M05B | 7-Aug-09 | MID-EBB | 5.65 |
| M08 | 09-Apr-03 | Mid-Ebb | 5 | M05B | 10-Aug-09 | MID-EBB | 3.60 |
| M08 | 14-Apr-03 | Mid-Ebb | 6 | M05B | 12-Aug-09 | MID-EBB | 5.50 |
| M08 | 16-Apr-03 | Mid-Ebb | 7 | M05B | 14-Aug-09 | MID-EBB | 4.70 |
| M09 | 06-Feb-03 | Mid-Ebb | 6 | M05B | 17-Aug-09 | MID-EBB | 7.75 |
| M09 | 08-Feb-03 | Mid-Ebb | 6 | M05B | 19-Aug-09 | MID-EBB | 5.95 |
| M09 | 10-Feb-03 | Mid-Ebb | 5 | M05B | 21-Aug-09 | MID-EBB | 7.20 |
| M09 | 14-Feb-03 | Mid-Ebb | 5 | M05B | 24-Aug-09 | MID-EBB | 6.60 |
| M09 | 18-Feb-03 | Mid-Ebb | 6 | M05B | 26-Aug-09 | MID-EBB | 6.15 |
| M09 | 19-Feb-03 | Mid-Ebb | 6 | M05B | 28-Aug-09 | MID-EBB | 5.80 |
| M09 | 21-Feb-03 | Mid-Ebb | 7 | M05B | 31-Aug-09 | MID-EBB | 5.55 |
| M09 | 24-Feb-03 | Mid-Ebb | 7 | M05B | 2-Sep-09 | MID-EBB | 6.35 |
| M09 | 28-Feb-03 | Mid-Ebb | 6 | M05B | 4-Sep-09 | MID-EBB | 6.50 |
| M09 | 03-Mar-03 | Mid-Ebb | 7 | M05B | 7-Sep-09 | MID-EBB | 5.20 |
| M09 | 05-Mar-03 | Mid-Ebb | 6 | M05B | 9-Sep-09 | MID-EBB | 4.65 |
| M09 | 07-Mar-03 | Mid-Ebb | 7 | M05B | 11-Sep-09 | MID-EBB | 9.75 |
| M09 | 10-Mar-03 | Mid-Ebb | 7 | M05B | 14-Sep-09 | MID-EBB | 5.30 |
| M09 | 17-Mar-03 | Mid-Ebb | 10 | M05B | 16-Sep-09 | MID-EBB | 8.10 |
| M09 | 19-Mar-03 | Mid-Ebb | 10 | M05B | 18-Sep-09 | MID-EBB | 23.10 |

| Baseline Results (DA) | | | | | | |
|-----------------------|-----------|---------|----|-----------|-----------|----|
| STN | DATE | TIDE | SS | DATE | TIDE | SS |
| M09 | 22-Mar-03 | Mid-Ebb | 8 | 22-Mar-03 | Mid-Flood | 9 |
| M09 | 24-Mar-03 | Mid-Ebb | 10 | 24-Mar-03 | Mid-Flood | 7 |
| M09 | 26-Mar-03 | Mid-Ebb | 11 | 27-Mar-03 | Mid-Flood | 6 |
| M09 | 31-Mar-03 | Mid-Ebb | 7 | 31-Mar-03 | Mid-Flood | 7 |
| M09 | 02-Apr-03 | Mid-Ebb | 7 | 02-Apr-03 | Mid-Flood | 5 |
| M09 | 04-Apr-03 | Mid-Ebb | 7 | 04-Apr-03 | Mid-Flood | 5 |
| M09 | 07-Apr-03 | Mid-Ebb | 7 | 07-Apr-03 | Mid-Flood | 5 |
| M09 | 09-Apr-03 | Mid-Ebb | 6 | 09-Apr-03 | Mid-Flood | 4 |
| M09 | 14-Apr-03 | Mid-Ebb | 5 | 14-Apr-03 | Mid-Flood | 6 |
| M09 | 16-Apr-03 | Mid-Ebb | 7 | 16-Apr-03 | Mid-Flood | 7 |
| M10 | 06-Feb-03 | Mid-Ebb | 3 | 06-Feb-03 | Mid-Flood | 5 |
| M10 | 08-Feb-03 | Mid-Ebb | 6 | 08-Feb-03 | Mid-Flood | 5 |
| M10 | 10-Feb-03 | Mid-Ebb | 5 | 10-Feb-03 | Mid-Flood | 4 |
| M10 | 14-Feb-03 | Mid-Ebb | 5 | 14-Feb-03 | Mid-Flood | 6 |
| M10 | 18-Feb-03 | Mid-Ebb | 6 | 17-Feb-03 | Mid-Flood | 8 |
| M10 | 19-Feb-03 | Mid-Ebb | 6 | 19-Feb-03 | Mid-Flood | 8 |
| M10 | 21-Feb-03 | Mid-Ebb | 8 | 21-Feb-03 | Mid-Flood | 6 |
| M10 | 24-Feb-03 | Mid-Ebb | 6 | 24-Feb-03 | Mid-Flood | 5 |
| M10 | 28-Feb-03 | Mid-Ebb | 4 | 28-Feb-03 | Mid-Flood | 7 |
| M10 | 03-Mar-03 | Mid-Ebb | 7 | 03-Mar-03 | Mid-Flood | 9 |
| M10 | 05-Mar-03 | Mid-Ebb | 6 | 05-Mar-03 | Mid-Flood | 6 |
| M10 | 07-Mar-03 | Mid-Ebb | 8 | 07-Mar-03 | Mid-Flood | 8 |
| M10 | 10-Mar-03 | Mid-Ebb | 6 | 10-Mar-03 | Mid-Flood | 7 |
| M10 | 17-Mar-03 | Mid-Ebb | 8 | 17-Mar-03 | Mid-Flood | 7 |
| M10 | 19-Mar-03 | Mid-Ebb | 10 | 19-Mar-03 | Mid-Flood | 10 |
| M10 | 22-Mar-03 | Mid-Ebb | 7 | 22-Mar-03 | Mid-Flood | 10 |
| M10 | 24-Mar-03 | Mid-Ebb | 5 | 24-Mar-03 | Mid-Flood | 8 |
| M10 | 26-Mar-03 | Mid-Ebb | 7 | 27-Mar-03 | Mid-Flood | 5 |
| M10 | 31-Mar-03 | Mid-Ebb | 8 | 31-Mar-03 | Mid-Flood | 6 |
| M10 | 02-Apr-03 | Mid-Ebb | 7 | 02-Apr-03 | Mid-Flood | 6 |
| M10 | 04-Apr-03 | Mid-Ebb | 7 | 04-Apr-03 | Mid-Flood | 8 |
| M10 | 07-Apr-03 | Mid-Ebb | 7 | 07-Apr-03 | Mid-Flood | 6 |
| M10 | 09-Apr-03 | Mid-Ebb | 5 | 09-Apr-03 | Mid-Flood | 7 |
| M10 | 14-Apr-03 | Mid-Ebb | 6 | 14-Apr-03 | Mid-Flood | 8 |
| M10 | 16-Apr-03 | Mid-Ebb | 8 | 16-Apr-03 | Mid-Flood | 6 |

$$n_1 = 268$$

$$\bar{x}_1 = 7.0$$

$$\sigma_1 = 1.7$$

$$\bar{x}_1 \pm 1.3 = 9.1$$

By applying the equation:

$$Z = \frac{\bar{X} - \mu_0}{\sigma / \sqrt{n}}$$

& testing

$$H_0 : \mu = \mu_0$$

$$Z_{0.05} = -1.645$$

$$\bar{X} - \mu_0 = -1.76$$

$$\sigma / \sqrt{n} = 0.07$$

Thus,

$$z = -25.55$$

Reject H_0 ?:

YES ($z < -z_{0.05}$)

Therefore, the null hypothesis must be rejected in favor of the alternate hypothesis, i.e., the quarterly mean is significantly less than 1.3 times the ambient mean recorded during baseline monitoring.

| Impact Monitoring Results (DA) | | | | | | |
|--------------------------------|-----------|---------|-------|-----------|-----------|-------|
| STN | DATE | TIDE | SS | DATE | TIDE | SS |
| M05B | 21-Sep-09 | MID-EBB | 8.15 | 21-Sep-09 | MID-FLOOD | 11.50 |
| M05B | 23-Sep-09 | MID-EBB | 6.10 | 23-Sep-09 | MID-FLOOD | 5.75 |
| M05B | 25-Sep-09 | MID-EBB | 8.90 | 25-Sep-09 | MID-FLOOD | 7.05 |
| M05B | 28-Sep-09 | MID-EBB | 5.00 | 28-Sep-09 | MID-FLOOD | 7.15 |
| M05B | 30-Sep-09 | MID-EBB | 10.00 | 30-Sep-09 | MID-FLOOD | 9.30 |
| M05B | 2-Oct-09 | MID-EBB | 7.35 | 2-Oct-09 | MID-FLOOD | 9.40 |
| M05B | 5-Oct-09 | MID-EBB | 7.70 | 5-Oct-09 | MID-FLOOD | 10.25 |
| M05B | 7-Oct-09 | MID-EBB | 20.05 | 7-Oct-09 | MID-FLOOD | 12.85 |
| M05B | 9-Oct-09 | MID-EBB | 22.10 | 9-Oct-09 | MID-FLOOD | 9.85 |
| M05B | 12-Oct-09 | MID-EBB | 8.50 | 12-Oct-09 | MID-FLOOD | 13.60 |
| M05B | 14-Oct-09 | MID-EBB | 7.15 | 14-Oct-09 | MID-FLOOD | 9.65 |
| M05B | 16-Oct-09 | MID-EBB | 7.50 | 16-Oct-09 | MID-FLOOD | 11.15 |
| M05B | 19-Oct-09 | MID-EBB | 8.10 | 19-Oct-09 | MID-FLOOD | 11.15 |
| M05B | 21-Oct-09 | MID-EBB | 6.90 | 21-Oct-09 | MID-FLOOD | 6.85 |
| M05B | 23-Oct-09 | MID-EBB | 7.80 | 23-Oct-09 | MID-FLOOD | 12.20 |
| M05B | 27-Oct-09 | MID-EBB | 6.60 | 27-Oct-09 | MID-FLOOD | 6.15 |
| M05B | 29-Oct-09 | MID-EBB | 6.35 | 29-Oct-09 | MID-FLOOD | 9.25 |
| M05B | 31-Oct-09 | MID-EBB | 4.50 | 31-Oct-09 | MID-FLOOD | 8.05 |
| M06 | 3-Aug-09 | MID-EBB | 6.15 | 3-Aug-09 | MID-FLOOD | * |
| M06 | 5-Aug-09 | MID-EBB | 6.55 | 5-Aug-09 | MID-FLOOD | 4.75 |
| M06 | 7-Aug-09 | MID-EBB | 6.25 | 7-Aug-09 | MID-FLOOD | 6.35 |
| M06 | 10-Aug-09 | MID-EBB | 4.85 | 10-Aug-09 | MID-FLOOD | 4.55 |
| M06 | 12-Aug-09 | MID-EBB | 5.65 | 12-Aug-09 | MID-FLOOD | 6.95 |
| M06 | 14-Aug-09 | MID-EBB | 5.75 | 14-Aug-09 | MID-FLOOD | 4.95 |
| M06 | 17-Aug-09 | MID-EBB | 6.55 | 17-Aug-09 | MID-FLOOD | 9.25 |
| M06 | 19-Aug-09 | MID-EBB | 5.45 | 19-Aug-09 | MID-FLOOD | 8.00 |
| M06 | 21-Aug-09 | MID-EBB | 7.85 | 21-Aug-09 | MID-FLOOD | 8.40 |
| M06 | 24-Aug-09 | MID-EBB | 8.25 | 24-Aug-09 | MID-FLOOD | 9.05 |
| M06 | 26-Aug-09 | MID-EBB | 6.35 | 26-Aug-09 | MID-FLOOD | 14.45 |
| M06 | 28-Aug-09 | MID-EBB | 4.95 | 28-Aug-09 | MID-FLOOD | 7.25 |
| M06 | 31-Aug-09 | MID-EBB | 4.10 | 31-Aug-09 | MID-FLOOD | 9.00 |
| M06 | 2-Sep-09 | MID-EBB | 6.35 | 2-Sep-09 | MID-FLOOD | 12.20 |
| M06 | 4-Sep-09 | MID-EBB | 6.35 | 4-Sep-09 | MID-FLOOD | 6.85 |
| M06 | 7-Sep-09 | MID-EBB | 7.00 | 7-Sep-09 | MID-FLOOD | 5.85 |
| M06 | 9-Sep-09 | MID-EBB | 5.55 | 9-Sep-09 | MID-FLOOD | 15.30 |
| M06 | 11-Sep-09 | MID-EBB | 6.85 | 11-Sep-09 | MID-FLOOD | 10.30 |
| M06 | 14-Sep-09 | MID-EBB | 8.10 | 14-Sep-09 | MID-FLOOD | * |
| M06 | 16-Sep-09 | MID-EBB | 6.35 | 16-Sep-09 | MID-FLOOD | 12.45 |
| M06 | 18-Sep-09 | MID-EBB | 7.95 | 18-Sep-09 | MID-FLOOD | 6.85 |
| M06 | 21-Sep-09 | MID-EBB | 6.65 | 21-Sep-09 | MID-FLOOD | 10.60 |
| M06 | 23-Sep-09 | MID-EBB | 5.15 | 23-Sep-09 | MID-FLOOD | 7.85 |
| M06 | 25-Sep-09 | MID-EBB | 10.80 | 25-Sep-09 | MID-FLOOD | 5.75 |
| M06 | 28-Sep-09 | MID-EBB | 14.40 | 28-Sep-09 | MID-FLOOD | 9.75 |
| M06 | 30-Sep-09 | MID-EBB | 8.90 | 30-Sep-09 | MID-FLOOD | 8.35 |
| M06 | 2-Oct-09 | MID-EBB | 6.15 | 2-Oct-09 | MID-FLOOD | 9.75 |
| M06 | 5-Oct-09 | MID-EBB | 7.95 | 5-Oct-09 | MID-FLOOD | 8.35 |
| M06 | 7-Oct-09 | MID-EBB | 13.70 | 7-Oct-09 | MID-FLOOD | 15.95 |
| M06 | 9-Oct-09 | MID-EBB | 9.15 | 9-Oct-09 | MID-FLOOD | 9.35 |
| M06 | 12-Oct-09 | MID-EBB | 8.75 | 12-Oct-09 | MID-FLOOD | 11.65 |
| M06 | 14-Oct-09 | MID-EBB | 8.35 | 14-Oct-09 | MID-FLOOD | 13.85 |
| M06 | 16-Oct-09 | MID-EBB | 9.95 | 16-Oct-09 | MID-FLOOD | 10.55 |
| M06 | 19-Oct-09 | MID-EBB | 6.55 | 19-Oct-09 | MID-FLOOD | 8.65 |
| M06 | 21-Oct-09 | MID-EBB | 8.05 | 21-Oct-09 | MID-FLOOD | 12.05 |
| M06 | 23-Oct-09 | MID-EBB | 5.95 | 23-Oct-09 | MID-FLOOD | 10.85 |
| M06 | 27-Oct-09 | MID-EBB | 8.05 | 27-Oct-09 | MID-FLOOD | 11.95 |
| M06 | 29-Oct-09 | MID-EBB | 7.45 | 29-Oct-09 | MID-FLOOD | 9.50 |
| M06 | 31-Oct-09 | MID-EBB | 8.05 | 31-Oct-09 | MID-FLOOD | 9.65 |
| M07 | 3-Aug-09 | MID-EBB | 6.13 | 3-Aug-09 | MID-FLOOD | 6.50 |
| M07 | 5-Aug-09 | MID-EBB | 5.08 | 5-Aug-09 | MID-FLOOD | 4.52 |
| M07 | 7-Aug-09 | MID-EBB | 6.53 | 7-Aug-09 | MID-FLOOD | 5.73 |
| M07 | 10-Aug-09 | MID-EBB | 4.33 | 10-Aug-09 | MID-FLOOD | 3.62 |
| M07 | 12-Aug-09 | MID-EBB | 4.30 | 12-Aug-09 | MID-FLOOD | 4.43 |
| M07 | 14-Aug-09 | MID-EBB | 4.68 | 14-Aug-09 | MID-FLOOD | 4.05 |
| M07 | 17-Aug-09 | MID-EBB | 7.72 | 17-Aug-09 | MID-FLOOD | 8.00 |
| M07 | 19-Aug-09 | MID-EBB | 6.07 | 19-Aug-09 | MID-FLOOD | 6.45 |
| M07 | 21-Aug-09 | MID-EBB | 7.15 | 21-Aug-09 | MID-FLOOD | 7.33 |
| M07 | 24-Aug-09 | MID-EBB | 5.98 | 24-Aug-09 | MID-FLOOD | 7.05 |
| M07 | 26-Aug-09 | MID-EBB | 6.93 | 26-Aug-09 | MID-FLOOD | 5.75 |
| M07 | 28-Aug-09 | MID-EBB | 5.53 | 28-Aug-09 | MID-FLOOD | 6.20 |
| M07 | 31-Aug-09 | MID-EBB | 7.85 | 31-Aug-09 | MID-FLOOD | 6.90 |
| M07 | 2-Sep-09 | MID-EBB | 7.35 | 2-Sep-09 | MID-FLOOD | 6.73 |
| M07 | 4-Sep-09 | MID-EBB | 5.10 | 4-Sep-09 | MID-FLOOD | 7.82 |
| M07 | 7-Sep-09 | MID-EBB | 7.00 | 7-Sep-09 | MID-FLOOD | 7.10 |
| M07 | 9-Sep-09 | MID-EBB | 5.40 | 9-Sep-09 | MID-FLOOD | 6.05 |
| M07 | 11-Sep-09 | MID-EBB | 5.95 | 11-Sep-09 | MID-FLOOD | 5.57 |
| M07 | 14-Sep-09 | MID-EBB | 7.02 | 14-Sep-09 | MID-FLOOD | * |
| M07 | 16-Sep-09 | MID-EBB | 6.78 | 16-Sep-09 | MID-FLOOD | 5.03 |
| M07 | 18-Sep-09 | MID-EBB | 6.25 | 18-Sep-09 | MID-FLOOD | 4.13 |
| M07 | 21-Sep-09 | MID-EBB | 5.42 | 21-Sep-09 | MID-FLOOD | 6.75 |
| M07 | 23-Sep-09 | MID-EBB | 5.37 | 23-Sep-09 | MID-FLOOD | 5.05 |
| M07 | 25-Sep-09 | MID-EBB | 4.73 | 25-Sep-09 | MID-FLOOD | 4.07 |
| M07 | 28-Sep-09 | MID-EBB | 8.30 | 28-Sep-09 | MID-FLOOD | 7.83 |
| M07 | 30-Sep-09 | MID-EBB | 8.38 | 30-Sep-09 | MID-FLOOD | 7.25 |
| M07 | 2-Oct-09 | MID-EBB | 6.27 | 2-Oct-09 | MID-FLOOD | 6.00 |
| M07 | 5-Oct-09 | MID-EBB | 6.63 | 5-Oct-09 | MID-FLOOD | 7.00 |
| M07 | 7-Oct-09 | MID-EBB | 7.55 | 7-Oct-09 | MID-FLOOD | 6.55 |
| M07 | 9-Oct-09 | MID-EBB | 5.08 | 9-Oct-09 | MID-FLOOD | 6.27 |
| M07 | 12-Oct-09 | MID-EBB | 7.57 | 12-Oct-09 | MID-FLOOD | 8.38 |
| M07 | 14-Oct-09 | MID-EBB | 7.15 | 14-Oct-09 | MID-FLOOD | 6.85 |
| M07 | 16-Oct-09 | MID-EBB | 12.02 | 16-Oct-09 | MID-FLOOD | 10.20 |
| M07 | 19-Oct-09 | MID-EBB | 9.52 | 19-Oct-09 | MID-FLOOD | 10.55 |
| M07 | 21-Oct-09 | MID-EBB | 6.32 | 21-Oct-09 | MID-FLOOD | 7.00 |
| M07 | 23-Oct-09 | MID-EBB | 6.85 | 23-Oct-09 | MID-FLOOD | 5.05 |
| M07 | 27-Oct-09 | MID-EBB | 5.88 | 27-Oct-09 | MID-FLOOD | 5.87 |
| M07 | 29-Oct-09 | MID-EBB | 8.92 | 29-Oct-09 | MID-FLOOD | 7.87 |
| M07 | 31-Oct-09 | MID-EBB | 7.95 | 31-Oct-09 | MID-FLOOD | 7.12 |
| M08 | 3-Aug-09 | MID-EBB | 5.90 | 3-Aug-09 | MID-FLOOD | 5.67 |
| M08 | 5-Aug-09 | MID-EBB | 5.95 | 5-Aug-09 | MID-FLOOD | 5.88 |
| M08 | 7-Aug-09 | MID-EBB | 5.42 | 7-Aug-09 | MID-FLOOD | 4.82 |
| M08 | 10-Aug-09 | MID-EBB | 4.10 | 10-Aug-09 | MID-FLOOD | 3.22 |

| Baseline Results (DA) | | | | | | | Impact Monitoring Results (DA) | | | | | | |
|-----------------------|-----------|---------|-------|-----------|-----------|------|--------------------------------|------|------|----|------|------|----|
| STN | DATE | TIDE | SS | DATE | TIDE | SS | STN | DATE | TIDE | SS | DATE | TIDE | SS |
| M08 | 12-Aug-09 | MID-EBB | 4.20 | 12-Aug-09 | MID-FLOOD | 4.88 | | | | | | | |
| M08 | 14-Aug-09 | MID-EBB | 4.95 | 14-Aug-09 | MID-FLOOD | 4.17 | | | | | | | |
| M08 | 17-Aug-09 | MID-EBB | 7.23 | 17-Aug-09 | MID-FLOOD | 7.28 | | | | | | | |
| M08 | 19-Aug-09 | MID-EBB | 5.70 | 19-Aug-09 | MID-FLOOD | 5.97 | | | | | | | |
| M08 | 21-Aug-09 | MID-EBB | 5.68 | 21-Aug-09 | MID-FLOOD | 6.88 | | | | | | | |
| M08 | 24-Aug-09 | MID-EBB | 6.90 | 24-Aug-09 | MID-FLOOD | 6.93 | | | | | | | |
| M08 | 26-Aug-09 | MID-EBB | 6.93 | 26-Aug-09 | MID-FLOOD | 5.67 | | | | | | | |
| M08 | 28-Aug-09 | MID-EBB | 6.35 | 28-Aug-09 | MID-FLOOD | 5.90 | | | | | | | |
| M08 | 31-Aug-09 | MID-EBB | 6.83 | 31-Aug-09 | MID-FLOOD | 6.87 | | | | | | | |
| M08 | 2-Sep-09 | MID-EBB | 7.43 | 2-Sep-09 | MID-FLOOD | 6.97 | | | | | | | |
| M08 | 4-Sep-09 | MID-EBB | 5.10 | 4-Sep-09 | MID-FLOOD | 6.13 | | | | | | | |
| M08 | 7-Sep-09 | MID-EBB | 5.18 | 7-Sep-09 | MID-FLOOD | 5.13 | | | | | | | |
| M08 | 9-Sep-09 | MID-EBB | 5.82 | 9-Sep-09 | MID-FLOOD | 5.20 | | | | | | | |
| M08 | 11-Sep-09 | MID-EBB | 6.27 | 11-Sep-09 | MID-FLOOD | 5.35 | | | | | | | |
| M08 | 14-Sep-09 | MID-EBB | 6.58 | 14-Sep-09 | MID-FLOOD | * | | | | | | | |
| M08 | 16-Sep-09 | MID-EBB | 6.82 | 16-Sep-09 | MID-FLOOD | 5.25 | | | | | | | |
| M08 | 18-Sep-09 | MID-EBB | 6.15 | 18-Sep-09 | MID-FLOOD | 4.03 | | | | | | | |
| M08 | 21-Sep-09 | MID-EBB | 6.15 | 21-Sep-09 | MID-FLOOD | 6.10 | | | | | | | |
| M08 | 23-Sep-09 | MID-EBB | 5.33 | 23-Sep-09 | MID-FLOOD | 4.88 | | | | | | | |
| M08 | 25-Sep-09 | MID-EBB | 4.07 | 25-Sep-09 | MID-FLOOD | 4.20 | | | | | | | |
| M08 | 28-Sep-09 | MID-EBB | 5.68 | 28-Sep-09 | MID-FLOOD | 5.00 | | | | | | | |
| M08 | 30-Sep-09 | MID-EBB | 7.80 | 30-Sep-09 | MID-FLOOD | 7.40 | | | | | | | |
| M08 | 2-Oct-09 | MID-EBB | 5.72 | 2-Oct-09 | MID-FLOOD | 5.85 | | | | | | | |
| M08 | 5-Oct-09 | MID-EBB | 6.95 | 5-Oct-09 | MID-FLOOD | 7.63 | | | | | | | |
| M08 | 7-Oct-09 | MID-EBB | 7.22 | 7-Oct-09 | MID-FLOOD | 6.63 | | | | | | | |
| M08 | 9-Oct-09 | MID-EBB | 5.75 | 9-Oct-09 | MID-FLOOD | 6.83 | | | | | | | |
| M08 | 12-Oct-09 | MID-EBB | 8.43 | 12-Oct-09 | MID-FLOOD | 8.90 | | | | | | | |
| M08 | 14-Oct-09 | MID-EBB | 6.15 | 14-Oct-09 | MID-FLOOD | 6.17 | | | | | | | |
| M08 | 16-Oct-09 | MID-EBB | 7.22 | 16-Oct-09 | MID-FLOOD | 7.82 | | | | | | | |
| M08 | 19-Oct-09 | MID-EBB | 10.03 | 19-Oct-09 | MID-FLOOD | 9.80 | | | | | | | |
| M08 | 21-Oct-09 | MID-EBB | 6.45 | 21-Oct-09 | MID-FLOOD | 6.53 | | | | | | | |
| M08 | 23-Oct-09 | MID-EBB | 6.13 | 23-Oct-09 | MID-FLOOD | 5.12 | | | | | | | |
| M08 | 27-Oct-09 | MID-EBB | 8.38 | 27-Oct-09 | MID-FLOOD | 7.55 | | | | | | | |
| M08 | 29-Oct-09 | MID-EBB | 7.37 | 29-Oct-09 | MID-FLOOD | 7.27 | | | | | | | |
| M08 | 31-Oct-09 | MID-EBB | 6.22 | 31-Oct-09 | MID-FLOOD | 5.90 | | | | | | | |
| M09 | 3-Aug-09 | MID-EBB | 13.35 | 3-Aug-09 | MID-FLOOD | 9.23 | | | | | | | |
| M09 | 5-Aug-09 | MID-EBB | 5.35 | 5-Aug-09 | MID-FLOOD | 4.65 | | | | | | | |
| M09 | 7-Aug-09 | MID-EBB | 5.18 | 7-Aug-09 | MID-FLOOD | 4.83 | | | | | | | |
| M09 | 10-Aug-09 | MID-EBB | 4.03 | 10-Aug-09 | MID-FLOOD | 3.42 | | | | | | | |
| M09 | 12-Aug-09 | MID-EBB | 4.78 | 12-Aug-09 | MID-FLOOD | 4.23 | | | | | | | |
| M09 | 14-Aug-09 | MID-EBB | 5.28 | 14-Aug-09 | MID-FLOOD | 4.52 | | | | | | | |
| M09 | 17-Aug-09 | MID-EBB | 7.58 | 17-Aug-09 | MID-FLOOD | 9.17 | | | | | | | |
| M09 | 19-Aug-09 | MID-EBB | 6.50 | 19-Aug-09 | MID-FLOOD | 6.37 | | | | | | | |
| M09 | 21-Aug-09 | MID-EBB | 6.02 | 21-Aug-09 | MID-FLOOD | 6.35 | | | | | | | |
| M09 | 24-Aug-09 | MID-EBB | 6.93 | 24-Aug-09 | MID-FLOOD | 6.65 | | | | | | | |
| M09 | 26-Aug-09 | MID-EBB | 6.05 | 26-Aug-09 | MID-FLOOD | 5.68 | | | | | | | |
| M09 | 28-Aug-09 | MID-EBB | 5.73 | 28-Aug-09 | MID-FLOOD | 5.98 | | | | | | | |
| M09 | 31-Aug-09 | MID-EBB | 6.43 | 31-Aug-09 | MID-FLOOD | 6.97 | | | | | | | |
| M09 | 2-Sep-09 | MID-EBB | 9.03 | 2-Sep-09 | MID-FLOOD | 7.32 | | | | | | | |
| M09 | 4-Sep-09 | MID-EBB | 5.65 | 4-Sep-09 | MID-FLOOD | 6.32 | | | | | | | |
| M09 | 7-Sep-09 | MID-EBB | 7.12 | 7-Sep-09 | MID-FLOOD | 8.03 | | | | | | | |
| M09 | 9-Sep-09 | MID-EBB | 6.13 | 9-Sep-09 | MID-FLOOD | 6.22 | | | | | | | |
| M09 | 11-Sep-09 | MID-EBB | 6.47 | 11-Sep-09 | MID-FLOOD | 5.52 | | | | | | | |
| M09 | 14-Sep-09 | MID-EBB | 7.03 | 14-Sep-09 | MID-FLOOD | * | | | | | | | |
| M09 | 16-Sep-09 | MID-EBB | 7.12 | 16-Sep-09 | MID-FLOOD | 6.37 | | | | | | | |
| M09 | 18-Sep-09 | MID-EBB | 4.60 | 18-Sep-09 | MID-FLOOD | 5.15 | | | | | | | |
| M09 | 21-Sep-09 | MID-EBB | 7.22 | 21-Sep-09 | MID-FLOOD | 7.52 | | | | | | | |
| M09 | 23-Sep-09 | MID-EBB | 6.42 | 23-Sep-09 | MID-FLOOD | 6.23 | | | | | | | |
| M09 | 25-Sep-09 | MID-EBB | 4.77 | 25-Sep-09 | MID-FLOOD | 4.87 | | | | | | | |
| M09 | 28-Sep-09 | MID-EBB | 6.85 | 28-Sep-09 | MID-FLOOD | 7.10 | | | | | | | |
| M09 | 30-Sep-09 | MID-EBB | 6.18 | 30-Sep-09 | MID-FLOOD | 7.12 | | | | | | | |
| M09 | 2-Oct-09 | MID-EBB | 5.62 | 2-Oct-09 | MID-FLOOD | 5.17 | | | | | | | |
| M09 | 5-Oct-09 | MID-EBB | 6.53 | 5-Oct-09 | MID-FLOOD | 6.68 | | | | | | | |
| M09 | 7-Oct-09 | MID-EBB | 7.37 | 7-Oct-09 | MID-FLOOD | 6.93 | | | | | | | |
| M09 | 9-Oct-09 | MID-EBB | 5.93 | 9-Oct-09 | MID-FLOOD | 6.67 | | | | | | | |
| M09 | 12-Oct-09 | MID-EBB | 8.82 | 12-Oct-09 | MID-FLOOD | 8.80 | | | | | | | |
| M09 | 14-Oct-09 | MID-EBB | 7.33 | 14-Oct-09 | MID-FLOOD | 6.98 | | | | | | | |
| M09 | 16-Oct-09 | MID-EBB | 9.10 | 16-Oct-09 | MID-FLOOD | 9.47 | | | | | | | |
| M09 | 19-Oct-09 | MID-EBB | 8.13 | 19-Oct-09 | MID-FLOOD | 9.05 | | | | | | | |
| M09 | 21-Oct-09 | MID-EBB | 8.73 | 21-Oct-09 | MID-FLOOD | 9.95 | | | | | | | |
| M09 | 23-Oct-09 | MID-EBB | 6.00 | 23-Oct-09 | MID-FLOOD | 5.02 | | | | | | | |
| M09 | 27-Oct-09 | MID-EBB | 6.12 | 27-Oct-09 | MID-FLOOD | 6.02 | | | | | | | |
| M09 | 29-Oct-09 | MID-EBB | 8.53 | 29-Oct-09 | MID-FLOOD | 8.17 | | | | | | | |
| M09 | 31-Oct-09 | MID-EBB | 6.37 | 31-Oct-09 | MID-FLOOD | 6.02 | | | | | | | |
| M10 | 3-Aug-09 | MID-EBB | 6.45 | 3-Aug-09 | MID-FLOOD | 7.05 | | | | | | | |
| M10 | 5-Aug-09 | MID-EBB | 5.38 | 5-Aug-09 | MID-FLOOD | 4.97 | | | | | | | |
| M10 | 7-Aug-09 | MID-EBB | 4.97 | 7-Aug-09 | MID-FLOOD | 4.52 | | | | | | | |
| M10 | 10-Aug-09 | MID-EBB | 4.08 | 10-Aug-09 | MID-FLOOD | 3.92 | | | | | | | |
| M10 | 12-Aug-09 | MID-EBB | 4.87 | 12-Aug-09 | MID-FLOOD | 4.07 | | | | | | | |
| M10 | 14-Aug-09 | MID-EBB | 5.08 | 14-Aug-09 | MID-FLOOD | 4.23 | | | | | | | |
| M10 | 17-Aug-09 | MID-EBB | 7.67 | 17-Aug-09 | MID-FLOOD | 6.17 | | | | | | | |
| M10 | 19-Aug-09 | MID-EBB | 6.93 | 19-Aug-09 | MID-FLOOD | 6.48 | | | | | | | |
| M10 | 21-Aug-09 | MID-EBB | 7.22 | 21-Aug-09 | MID-FLOOD | 7.42 | | | | | | | |
| M10 | 24-Aug-09 | MID-EBB | 6.90 | 24-Aug-09 | MID-FLOOD | 7.42 | | | | | | | |
| M10 | 26-Aug-09 | MID-EBB | 6.98 | 26-Aug-09 | MID-FLOOD | 5.97 | | | | | | | |
| M10 | 28-Aug-09 | MID-EBB | 5.58 | 28-Aug-09 | MID-FLOOD | 5.52 | | | | | | | |
| M10 | 31-Aug-09 | MID-EBB | 6.18 | 31-Aug-09 | MID-FLOOD | 6.80 | | | | | | | |
| M10 | 2-Sep-09 | MID-EBB | 8.55 | 2-Sep-09 | MID-FLOOD | 7.28 | | | | | | | |
| M10 | 4-Sep-09 | MID-EBB | 6.00 | 4-Sep-09 | MID-FLOOD | 6.85 | | | | | | | |
| M10 | 7-Sep-09 | MID-EBB | 6.10 | 7-Sep-09 | MID-FLOOD | 5.70 | | | | | | | |
| M10 | 9-Sep-09 | MID-EBB | 8.68 | 9-Sep-09 | MID-FLOOD | 9.97 | | | | | | | |
| M10 | 11-Sep-09 | MID-EBB | 6.33 | 11-Sep-09 | MID-FLOOD | 5.05 | | | | | | | |
| M10 | 14-Sep-09 | MID-EBB | 5.87 | 14-Sep-09 | MID-FLOOD | * | | | | | | | |
| M10 | 16-Sep-09 | MID-EBB | 6.15 | 16-Sep-09 | MID-FLOOD | 6.32 | | | | | | | |
| M10 | 18-Sep-09 | MID-EBB | 5.05 | 18-Sep-09 | MID-FLOOD | 4.75 | | | | | | | |
| M10 | 21-Sep-09 | MID-EBB | 6.33 | 21-Sep-09 | MID-FLOOD | 6.63 | | | | | | | |
| M10 | 23-Sep-09 | MID-EBB | 8.25 | 23-Sep-09 | MID-FLOOD | 6.93 | | | | | | | |
| M10 | 25-Sep-09 | MID-EBB | 5.05 | 25-Sep-09 | MID-FLOOD | 4.43 | | | | | | | |
| M10 | 28-Sep-09 | MID-EBB | 5.72 | 28-Sep-09 | MID-FLOOD | 4.98 | | | | | | | |
| M10 | 30-Sep-09 | MID-EBB | 6.30 | 30-Sep-09 | MID-FLOOD | 6.77 | | | | | | | |
| M10 | 2-Oct-09 | MID-EBB | 6.45 | 2-Oct-09 | MID-FLOOD | 6.07 | | | | | | | |
| M10 | 5-Oct-09 | MID-EBB | 8.45 | 5-Oct-09 | MID-FLOOD | 7.25 | | | | | | | |

| Baseline Results (DA) | | | | | | |
|-----------------------|------|------|----|------|------|----|
| STN | DATE | TIDE | SS | DATE | TIDE | SS |

| Impact Monitoring Results (DA) | | | | | | |
|--------------------------------|-----------|---------|-------|-----------|-----------|-------|
| STN | DATE | TIDE | SS | DATE | TIDE | SS |
| M10 | 7-Oct-09 | MID-EBB | 7.83 | 7-Oct-09 | MID-FLOOD | 6.32 |
| M10 | 9-Oct-09 | MID-EBB | 6.12 | 9-Oct-09 | MID-FLOOD | 6.33 |
| M10 | 12-Oct-09 | MID-EBB | 10.07 | 12-Oct-09 | MID-FLOOD | 10.02 |
| M10 | 14-Oct-09 | MID-EBB | 8.17 | 14-Oct-09 | MID-FLOOD | 7.75 |
| M10 | 16-Oct-09 | MID-EBB | 7.33 | 16-Oct-09 | MID-FLOOD | 8.08 |
| M10 | 19-Oct-09 | MID-EBB | 7.78 | 19-Oct-09 | MID-FLOOD | 7.25 |
| M10 | 21-Oct-09 | MID-EBB | 7.98 | 21-Oct-09 | MID-FLOOD | 8.12 |
| M10 | 23-Oct-09 | MID-EBB | 5.82 | 23-Oct-09 | MID-FLOOD | 5.10 |
| M10 | 27-Oct-09 | MID-EBB | 7.50 | 27-Oct-09 | MID-FLOOD | 8.12 |
| M10 | 29-Oct-09 | MID-EBB | 7.43 | 29-Oct-09 | MID-FLOOD | 7.40 |
| M10 | 31-Oct-09 | MID-EBB | 6.92 | 31-Oct-09 | MID-FLOOD | 5.88 |

Remark : * - The water quality monitoring during mid-flood tide on 3rd August and 14th September 2009 at intakes stations could not be performed due to the breakdown of transportation for accessing to the monitoring locations (3rd August 2009) and the bad weather (14th September 2009)

$$\begin{aligned}
 n_2 &= 612.00 \\
 \bar{X}_2 &= 7.3 \\
 \sum (X_i - \bar{X}_2)^2 &= 3415 \\
 \sigma_2 &= 2.4
 \end{aligned}$$