

**WATER YEAR : 2011****SOUTHERN PENINSULA WEST COAST****Khlong Ta Kuaw Pa at Ban Hin Dan , Phang Nga (X.187)**

Lat 08 - 46 - 25 N Long 98 - 23 - 36 E

**Location : on left bank at the bridge on Surat Thanu - Phang Nga Highway.**

|                                      |                            |                          |                           |
|--------------------------------------|----------------------------|--------------------------|---------------------------|
|                                      | <b>Ban</b> Hin Dan         | <b>Amphoe</b> Ta Kuaw Pa | <b>Changwat</b> Phang Nga |
| <b>Drainage Area</b>                 | 546 sq.km.                 |                          |                           |
| <b>Method of sampling</b>            | Depth Integrating          |                          |                           |
| <b>Instrument Used</b>               | US.DH-59                   |                          |                           |
| <b>Period of Available Records</b>   | 2003-Cont'd                |                          |                           |
| <b>Actual Measurement</b>            | 2003-Cont'd                |                          |                           |
| <b>Using Rating Curve Water Year</b> | 2003-2011                  |                          |                           |
| <b>Number of observation</b>         | 180                        |                          |                           |
| <b>R-Square</b>                      | 0.7667                     |                          |                           |
| <b>Remarks</b>                       | Continued Sediment Station |                          |                           |

$$QS = 2.4705 QW^{1.27930}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012**

| Date  | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Oct      | Nov     | Dec     | Jan     | Feb     | Mar     | Annual    |            |
|-------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|-----------|------------|
| 1     | 1896.50  | 232.60   | 877.00   | 220.70   | 716.40   | 1579.20  | 4691.70  | 179.50  | 94.80   | 55.90   | 107.60  | 55.90   |           |            |
| 2     | 894.10   | 197.40   | 1392.70  | 379.70   | 605.10   | 1087.00  | 4407.90  | 151.80  | 140.20  | 58.70   | 85.40   | 55.90   |           |            |
| 3     | 591.50   | 171.40   | 1657.40  | 300.10   | 537.70   | 716.40   | 6455.00  | 140.20  | 114.10  | 76.30   | 88.50   | 70.30   |           |            |
| 4     | 458.20   | 163.50   | 1170.00  | 244.60   | 467.10   | 945.90   | 4835.10  | 163.50  | 147.90  | 67.40   | 82.30   | 88.50   |           |            |
| 5     | 379.70   | 155.70   | 1069.10  | 220.70   | 396.90   | 1235.90  | 5270.80  | 187.60  | 144.00  | 64.50   | 73.30   | 114.10  |           |            |
| 6     | 306.40   | 179.50   | 826.10   | 214.80   | 379.70   | 660.30   | 2757.80  | 171.40  | 144.00  | 61.60   | 64.50   | 147.90  |           |            |
| 7     | 312.80   | 458.20   | 775.80   | 256.70   | 306.40   | 440.50   | 1842.80  | 163.50  | 132.60  | 53.10   | 64.50   | 121.40  |           |            |
| 8     | 431.70   | 440.50   | 702.30   | 238.50   | 281.30   | 467.10   | 980.80   | 151.80  | 117.70  | 53.10   | 55.90   | 159.60  |           |            |
| 9     | 306.40   | 618.80   | 730.60   | 214.80   | 275.10   | 440.50   | 1033.60  | 155.70  | 114.10  | 53.10   | 73.30   | 183.50  |           |            |
| 10    | 281.30   | 2834.10  | 928.60   | 214.80   | 250.60   | 1280.30  | 759.20   | 159.60  | 107.60  | 48.80   | 55.90   | 136.40  |           |            |
| 11    | 293.80   | 2834.10  | 1789.40  | 244.60   | 220.70   | 14864.40 | 759.20   | 144.00  | 97.90   | 48.80   | 53.10   | 121.40  |           |            |
| 12    | 281.30   | 1484.00  | 1950.60  | 281.30   | 238.50   | 7953.30  | 3833.20  | 354.30  | 110.80  | 44.60   | 53.10   | 132.60  |           |            |
| 13    | 268.90   | 1148.30  | 998.30   | 458.20   | 214.80   | 4549.30  | 3645.60  | 306.40  | 97.90   | 44.60   | 88.50   | 117.70  |           |            |
| 14    | 354.30   | 688.20   | 826.10   | 1950.60  | 203.10   | 2174.30  | 1126.60  | 226.60  | 101.10  | 42.50   | 94.80   | 114.10  |           |            |
| 15    | 300.10   | 577.90   | 744.90   | 2560.40  | 191.60   | 1392.70  | 759.20   | 191.60  | 97.90   | 44.60   | 85.40   | 88.50   |           |            |
| 16    | 287.60   | 511.20   | 877.00   | 2988.00  | 197.40   | 730.60   | 564.50   | 171.40  | 91.60   | 76.30   | 91.60   | 76.30   |           |            |
| 17    | 256.70   | 646.40   | 744.90   | 2560.40  | 220.70   | 646.40   | 440.50   | 167.50  | 82.30   | 91.60   | 79.30   | 82.30   |           |            |
| 18    | 226.60   | 1213.90  | 702.30   | 1051.30  | 203.10   | 716.40   | 362.70   | 151.80  | 73.30   | 85.40   | 147.90  | 107.60  |           |            |
| 19    | 262.80   | 998.30   | 660.30   | 674.20   | 197.40   | 1170.00  | 362.70   | 132.60  | 67.40   | 101.10  | 147.90  | 128.90  |           |            |
| 20    | 268.90   | 646.40   | 618.80   | 524.40   | 232.60   | 1950.60  | 312.80   | 125.10  | 67.40   | 94.80   | 136.40  | 114.10  |           |            |
| 21    | 214.80   | 524.40   | 632.60   | 467.10   | 191.60   | 945.90   | 485.10   | 117.70  | 64.50   | 85.40   | 88.50   | 107.60  |           |            |
| 22    | 203.10   | 618.80   | 591.50   | 458.20   | 191.60   | 646.40   | 449.30   | 114.10  | 64.50   | 110.80  | 91.60   | 97.90   |           |            |
| 23    | 191.60   | 440.50   | 537.70   | 449.30   | 232.60   | 524.40   | 354.30   | 117.70  | 70.30   | 97.90   | 76.30   | 104.30  |           |            |
| 24    | 197.40   | 371.20   | 577.90   | 660.30   | 321.00   | 730.60   | 220.70   | 114.10  | 67.40   | 79.30   | 58.70   | 79.30   |           |            |
| 25    | 220.70   | 293.80   | 458.20   | 591.50   | 7586.50  | 1033.60  | 191.60   | 121.40  | 64.50   | 67.40   | 53.10   | 76.30   |           |            |
| 26    | 203.10   | 329.30   | 371.20   | 660.30   | 4787.20  | 8398.30  | 159.60   | 125.10  | 67.40   | 61.60   | 53.10   | 79.30   |           |            |
| 27    | 191.60   | 306.40   | 300.10   | 1148.30  | 5938.40  | 5076.20  | 191.60   | 110.80  | 67.40   | 55.90   | 58.70   | 136.40  |           |            |
| 28    | 197.40   | 281.30   | 256.70   | 1631.20  | 16051.30 | 4070.50  | 191.60   | 107.60  | 70.30   | 67.40   | 53.10   | 140.20  |           |            |
| 29    | 197.40   | 256.70   | 226.60   | 3833.20  | 13006.40 | 3599.00  | 171.40   | 97.90   | 67.40   | 67.40   | 48.80   | 117.70  |           |            |
| 30    | 244.60   | 388.30   | 214.80   | 2380.50  | 6936.10  | 3460.10  | 151.80   | 97.90   | 64.50   | 73.30   |         | 101.10  |           |            |
| 31    |          | 2470.10  |          | 1105.00  | 2651.50  |          | 151.80   |         | 64.50   | 114.10  |         | 82.30   |           |            |
| Total | 10721.30 | 22481.20 | 24209.50 | 29183.70 | 64230.40 | 73486.10 | 47920.50 | 4720.20 | 2877.30 | 2147.30 | 2311.10 | 3339.40 | 287628.10 | <b>Ton</b> |
| Mean  | 357.40   | 725.20   | 807.00   | 941.40   | 2071.90  | 2449.50  | 1545.80  | 157.30  | 92.80   | 69.30   | 79.70   | 107.70  |           |            |
| Max   | 1896.50  | 2834.10  | 1950.60  | 3833.20  | 16051.30 | 14864.40 | 6455.00  | 354.30  | 147.90  | 114.10  | 147.90  | 183.50  | 16051.30  |            |
| Min   | 191.60   | 155.70   | 214.80   | 214.80   | 191.60   | 440.50   | 151.80   | 97.90   | 64.50   | 42.50   | 48.80   | 55.90   | 42.50     |            |