

**Additional Water Quality Monitoring Programme
for EP No. EP-01/122/2003/A Condition 3.3
(Baseline Monitoring)**

Objective

To establish ambient conditions of water quality around the seawall gap prior to commencement of underwater filling works using Type A Fill at FRAW.

Monitoring Stations

There are totally 9 monitoring stations, the monitoring stations consist of 5 marine based stations, 2 control stations and 2 cooling water intake monitoring stations (the nearest Water Quality Sensitive Receiver to the seawall gap).

The marine based monitoring stations are:

- AM1 – about 50 m away from the seawall gap between caisson units C15 and C16;
- AM2 – about 50 m away from AM1 towards M7;
- AM3 – about 50 m away from AM1 towards M9;
- AM4 – at the seawall gap (inside the silt curtain) between caisson units C15 and C16;
- and
- AM5 – located inside FRAW and about 75 m away from AM4.

The control stations are:

M7 and M9 which are monitoring stations of the existing EM&A programme conducting by the Environmental Team, these 2 stations act as control stations of the impact water quality monitoring programme.

The cooling water intake monitoring stations are:

- M4B – cooling water intake for PLA; and
- M2A – cooling water intake for HSBC.

Since there is extensive water quality monitoring data for the control stations M9 & M7 and cooling water intake monitoring stations (M4B & M2A), the existing data can be referenced with regard to baseline conditions. As such, this baseline monitoring shall only be carried out at the 5 marine based monitoring stations (AM1 to AM5), their positions are shown in Figure 1.

The coordinates of the baseline monitoring stations are tabulated below:

Station	Easting	Northing
AM1	834921	816194
AM2	834970	816198
AM3	834906	816242
AM4	834894	816139
AM5	834828	816104

Monitoring Programme

The monitoring programme shall last for 9 successive days (including Sundays, starting from 12 Jan 2007). Monitoring shall be undertaken at mid-ebb and mid-flood tides at the designated monitoring stations.

Water samples shall be collected in duplicate at 3 water depths, namely, 1m below water surface, mid-depth and 1m above seabed, except where the water depth is less than 6m, the mid-depth shall be omitted. Should the water depth less than 3m, only the mid-depth level shall be monitored.

The water samples collected shall be delivered to a local HOKLAS accredited laboratory for analyses of Suspended Solids (SS).

Site observations shall be recorded by the sampling team.

In situ measurement for dissolved oxygen, temperature, salinity, water depth and turbidity shall also be reported.

Reporting

Interim Baseline Report for the first four days baseline monitoring data shall be submitted to EPD, ER, ET Leader and IEC for review in the course of the baseline monitoring. Full Baseline Report shall be submitted after completion of the baseline monitoring.

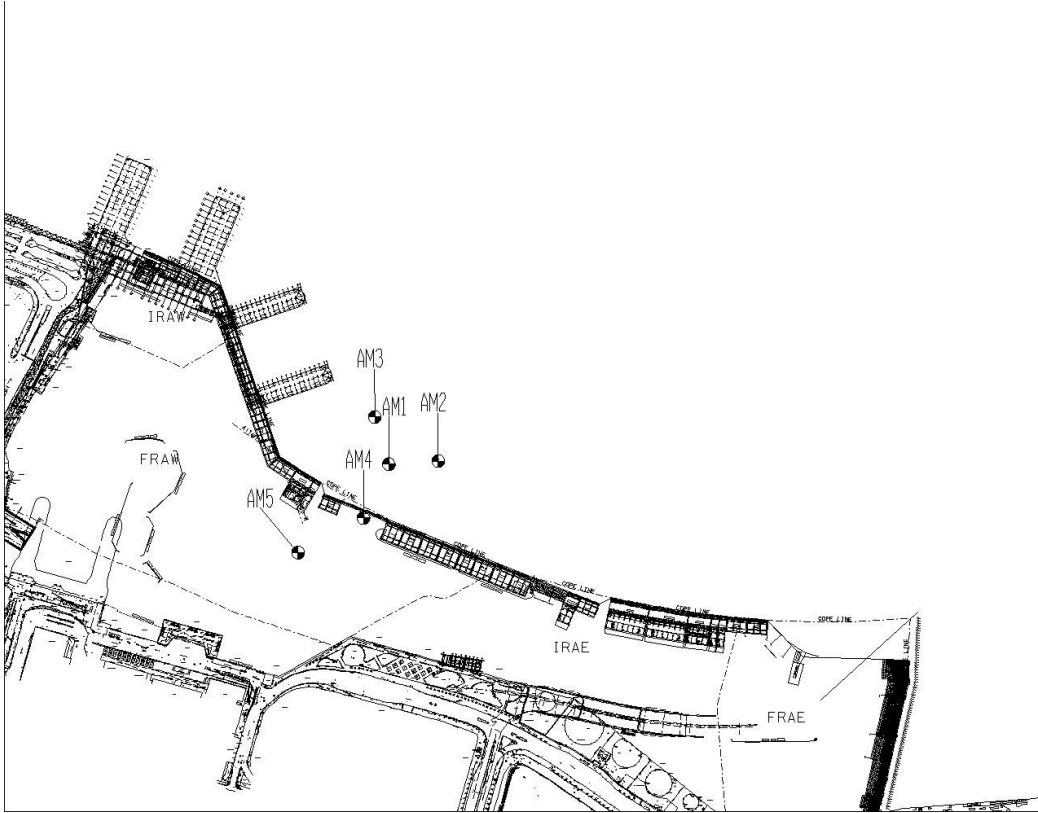


Figure 1. Locations of Baseline Water Quality Monitoring Stations.