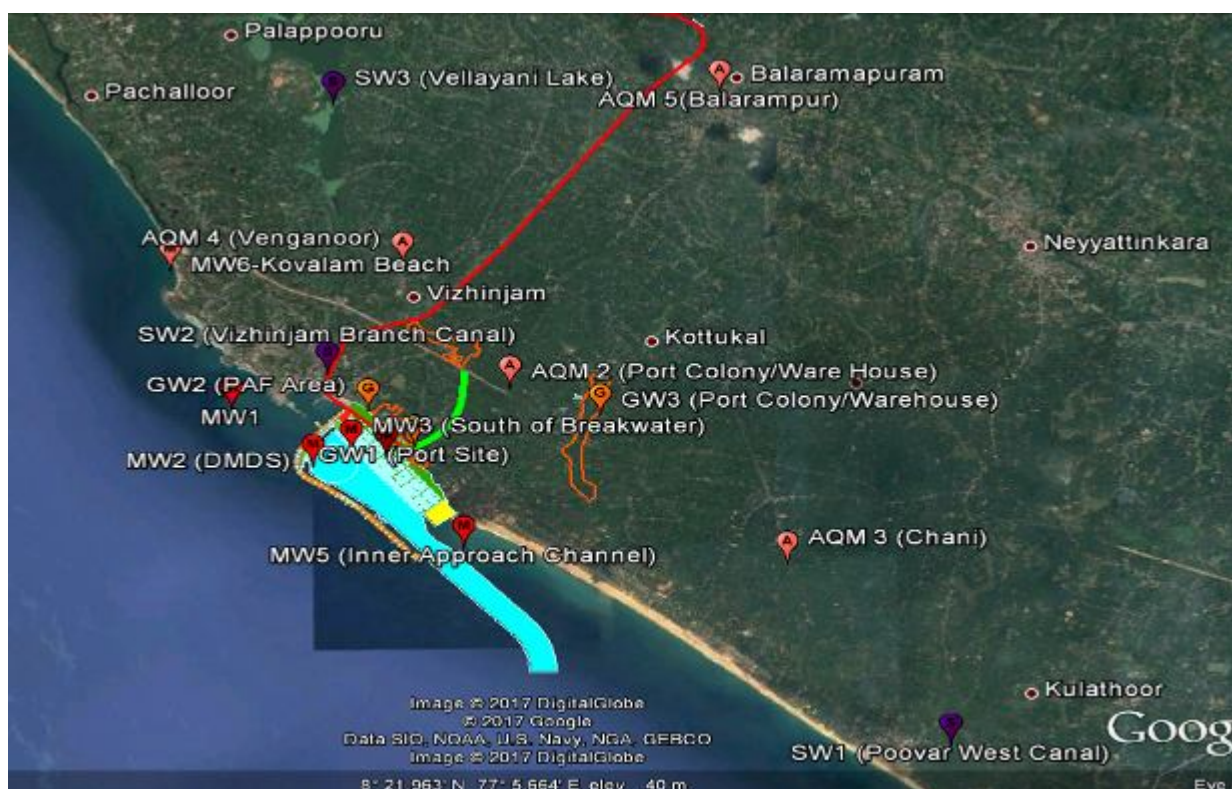


# Environment Monitoring Report



## Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

August – 2019

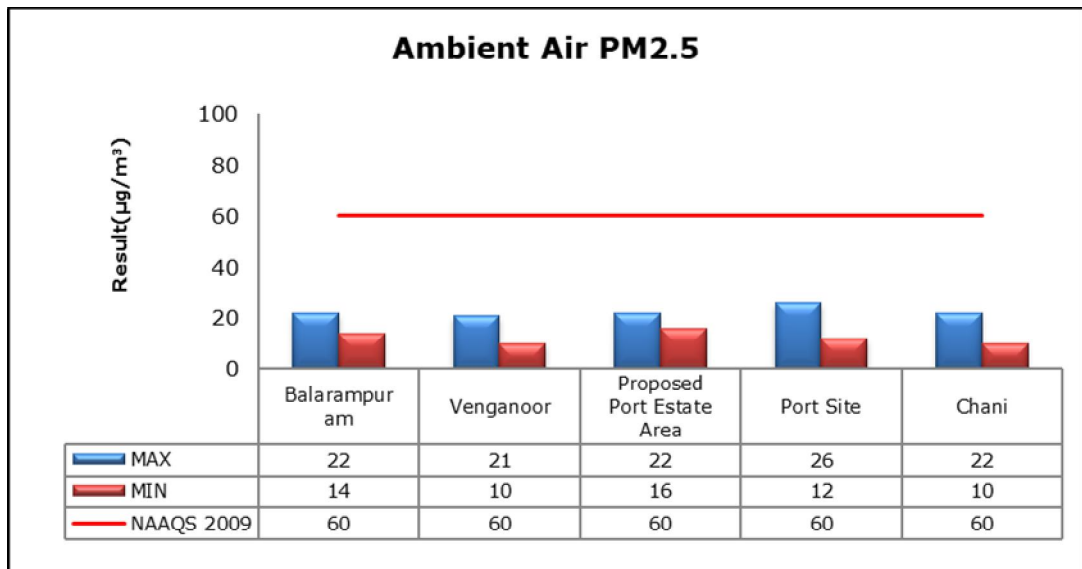
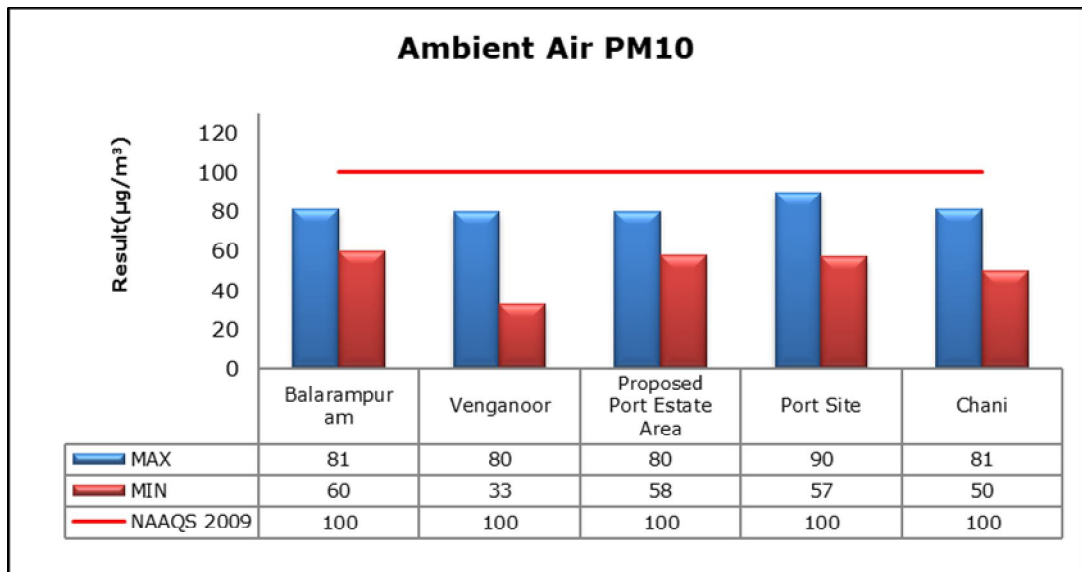
## Environment Monitoring Locations:

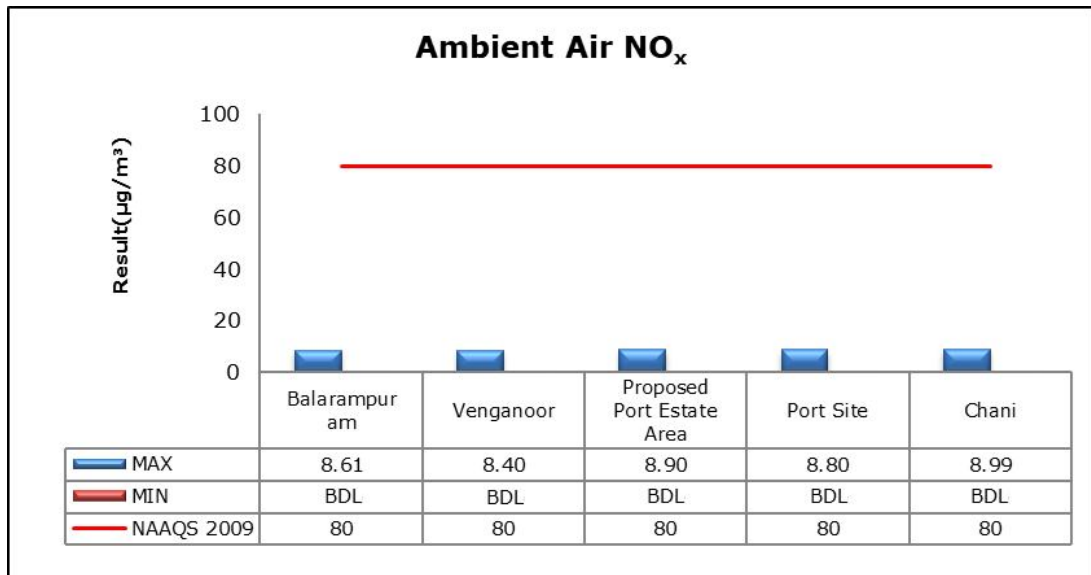
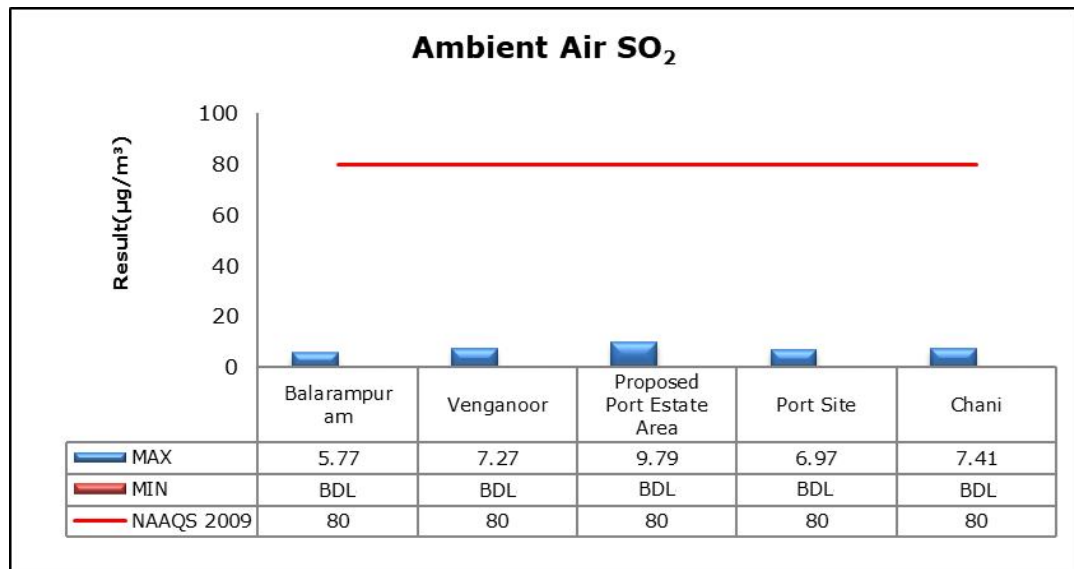
| Sl. No. | Environmental Attribute        | Location                                     |
|---------|--------------------------------|--|
| 1.      | Ambient Air Quality Monitoring | Port Site (AQM1)                             |
|         |                                | Proposed Port Estate Area (AQM2)             |
|         |                                | Chani (AQM3)                                 |
|         |                                | Venganoor (AQM4)                             |
|         |                                | Balarampuram (AQM5)                          |
| 2.      | Ambient Noise                  | Port Site (Industrial)                       |
|         |                                | Proposed Port Estate Area (Commercial)       |
|         |                                | Chani (Residential)                          |
|         |                                | Venganoor (Residential)                      |
|         |                                | Balarampuram (Residential)                   |
| 3.      | Marine Water                   | Near Kovalam Beach (MW1)                     |
|         |                                | Proposed Dredge Material Disposal Site (MW2) |
|         |                                | South of Break Water (MW3)                   |
|         |                                | Port Basin (MW4)                             |
|         |                                | Inner Approach Channel (MW5)                 |
|         |                                | Kovalam Beach (MW 6)                         |
| 4.      | Groundwater                    | Port Site (GW 1)                             |
|         |                                | PAF Area (GW 2)                              |
|         |                                | Proposed Port Estate Area (GW 3)             |
| 5.      | Surface Water                  | Poovar West Canal (SW 1)                     |
|         |                                | Vizhinjam Branch Canal (SW 2)                |
|         |                                | Vellayani Lake (SW 3)                        |

## 1. Summary

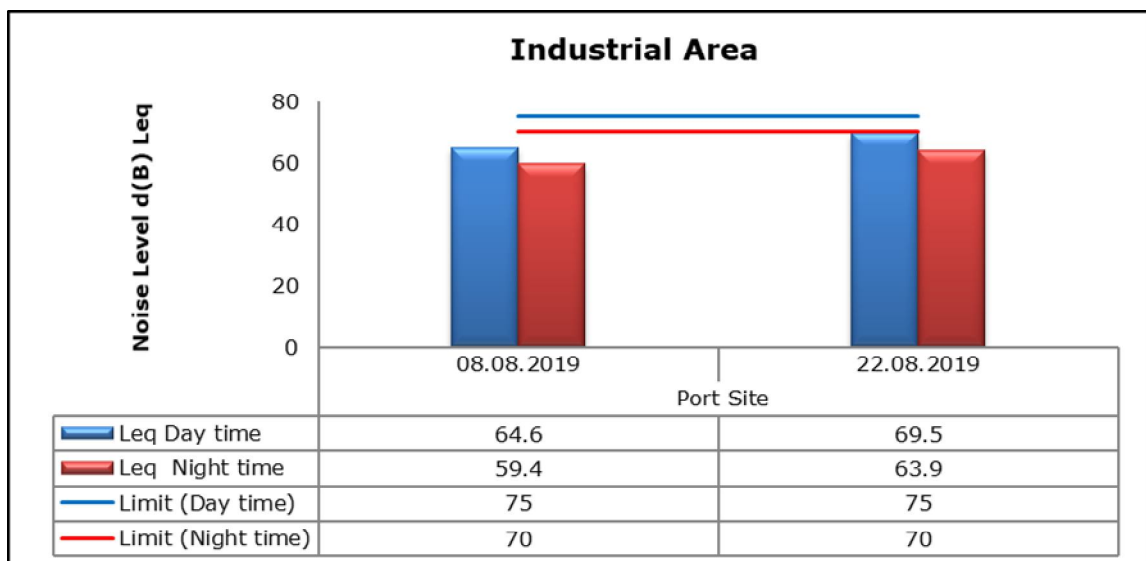
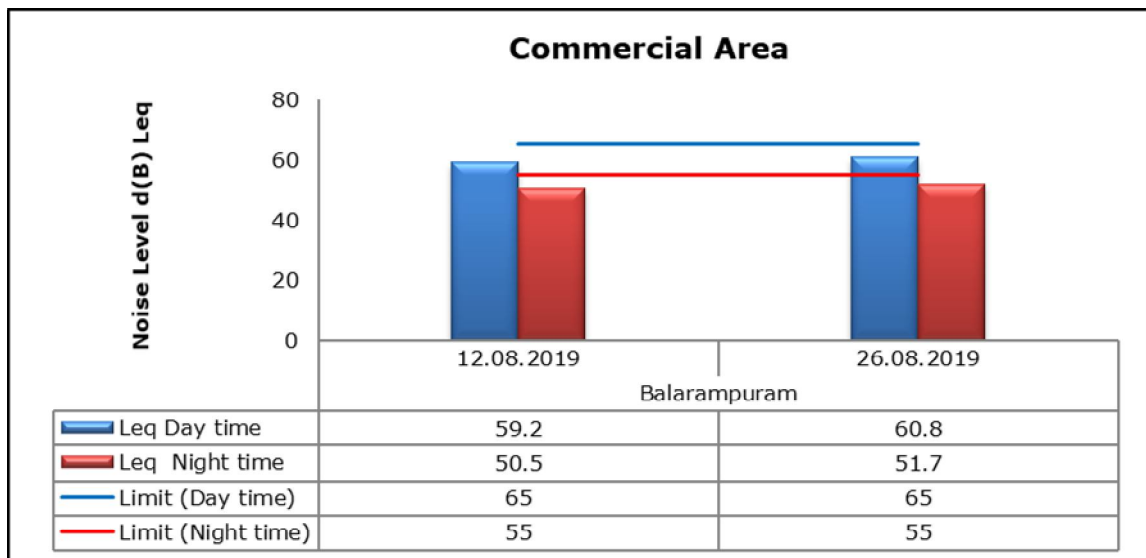
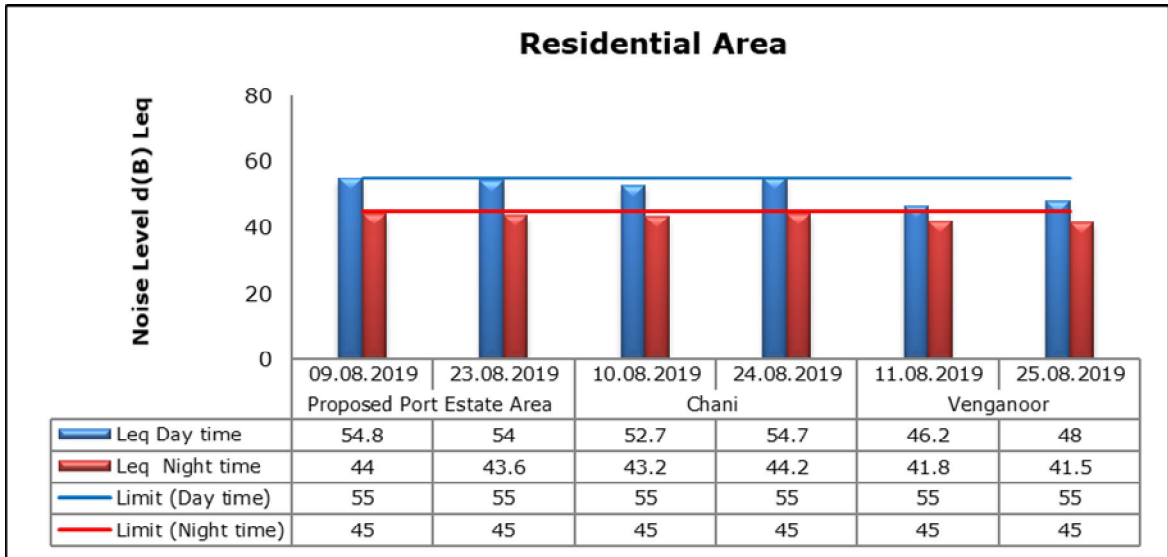
- The ambient air quality monitoring results were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations during the month of August 2019.
- Noise readings were within limits at all the monitoring locations during the month of August 2019.
- All the parameters of groundwater were recorded within the acceptable limits at all the locations.
- Surface water sample and marine water results were observed to be comparable with the baseline.

## 2. Ambient Air Quality



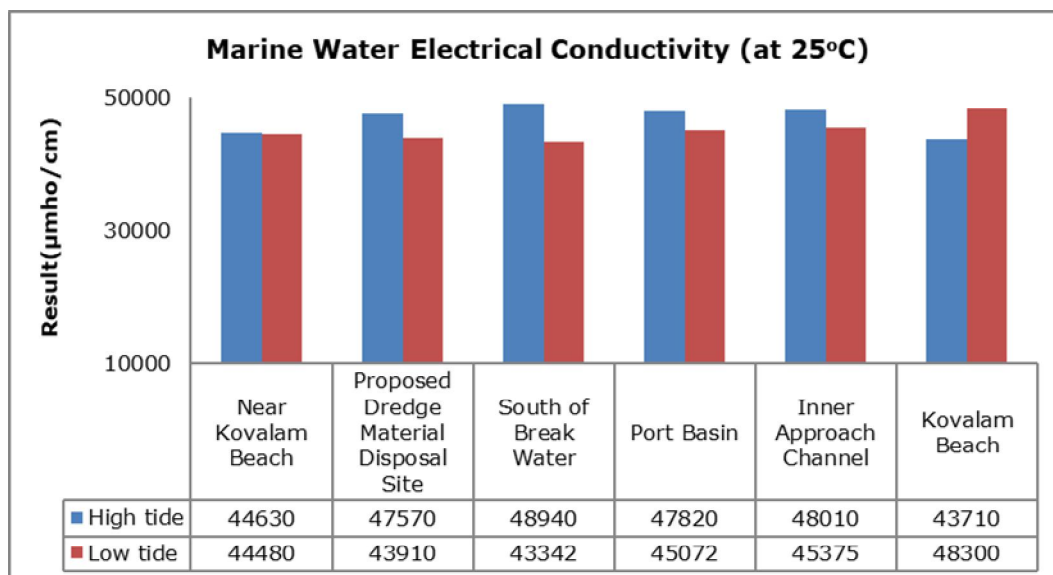
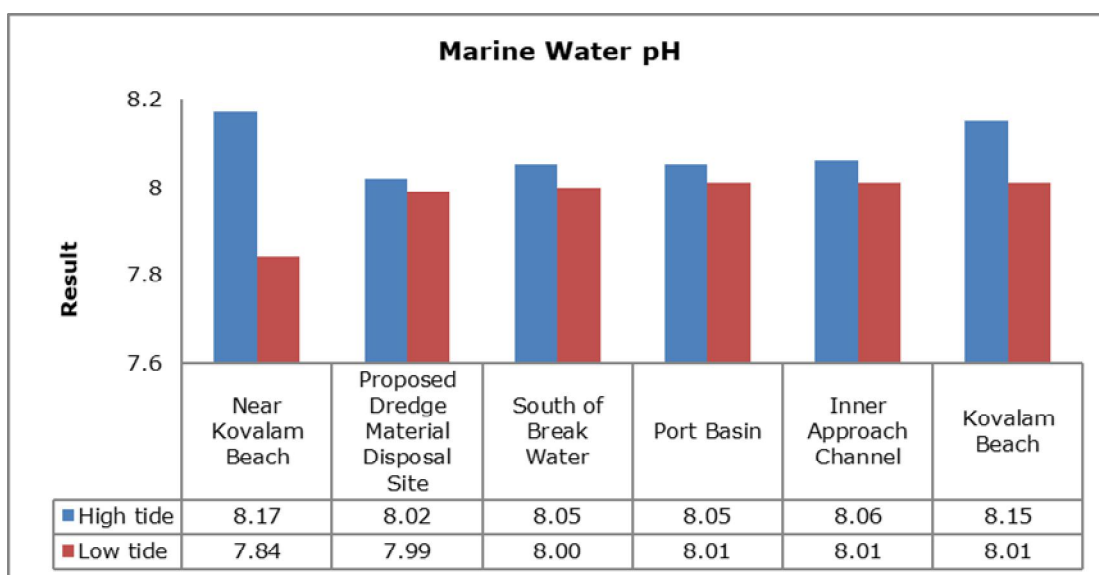
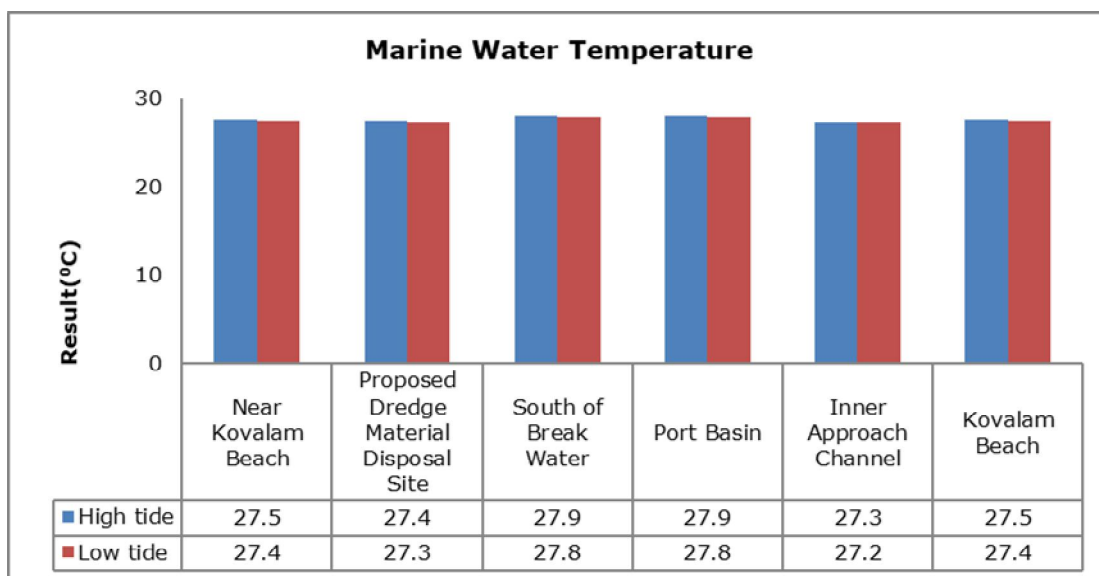


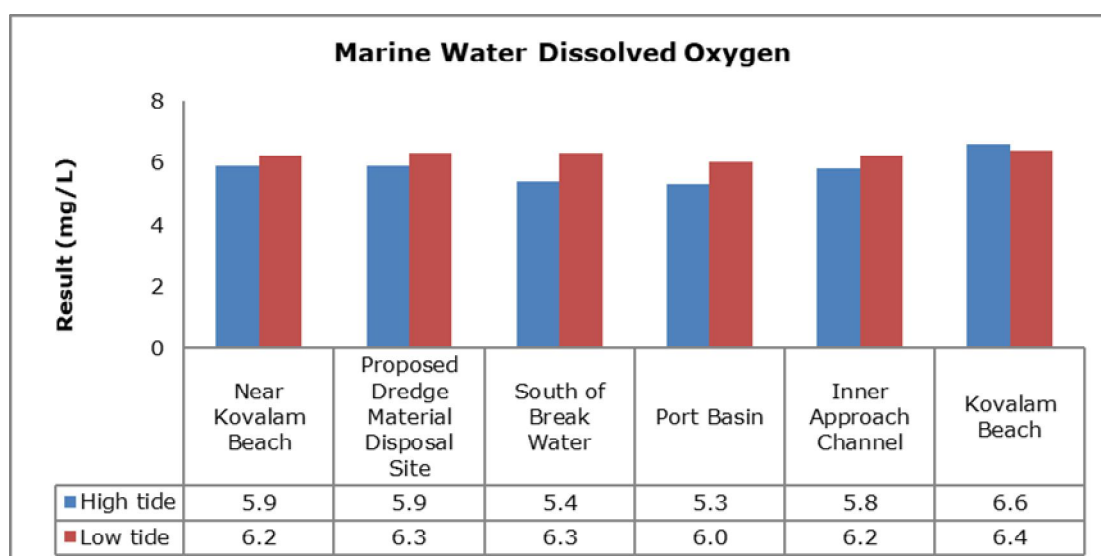
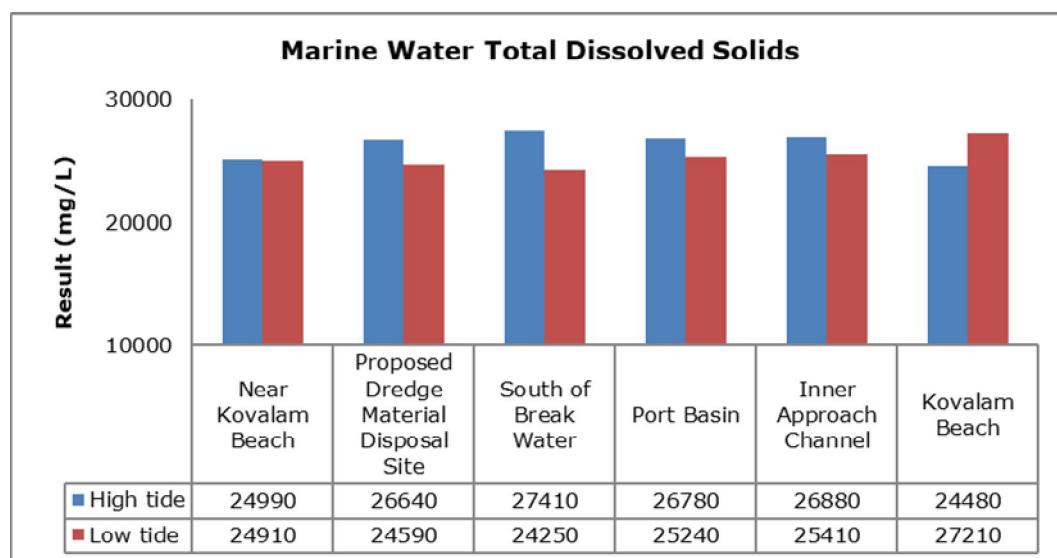
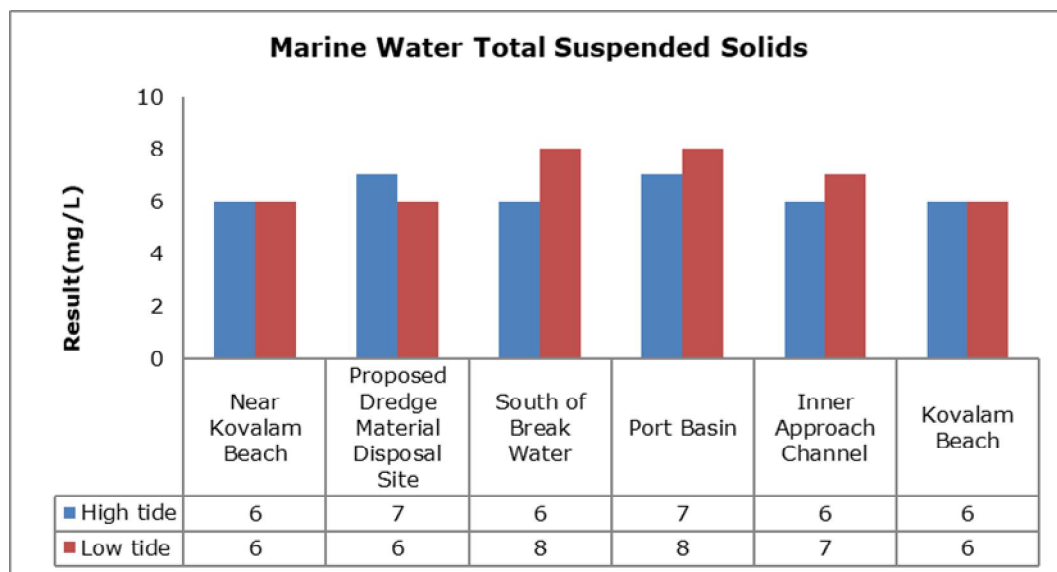
### 3. Ambient Noise



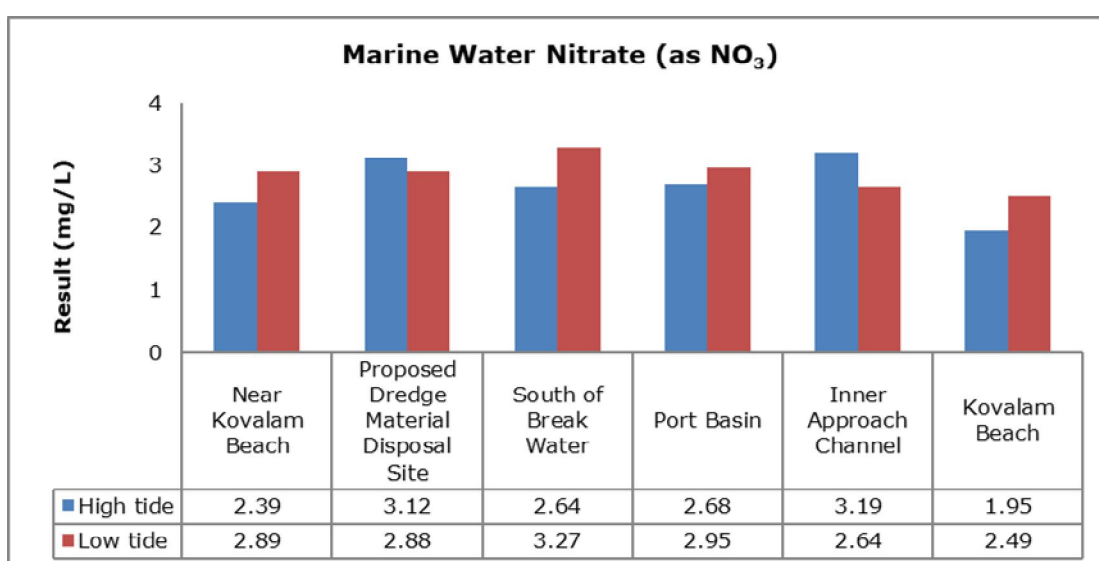
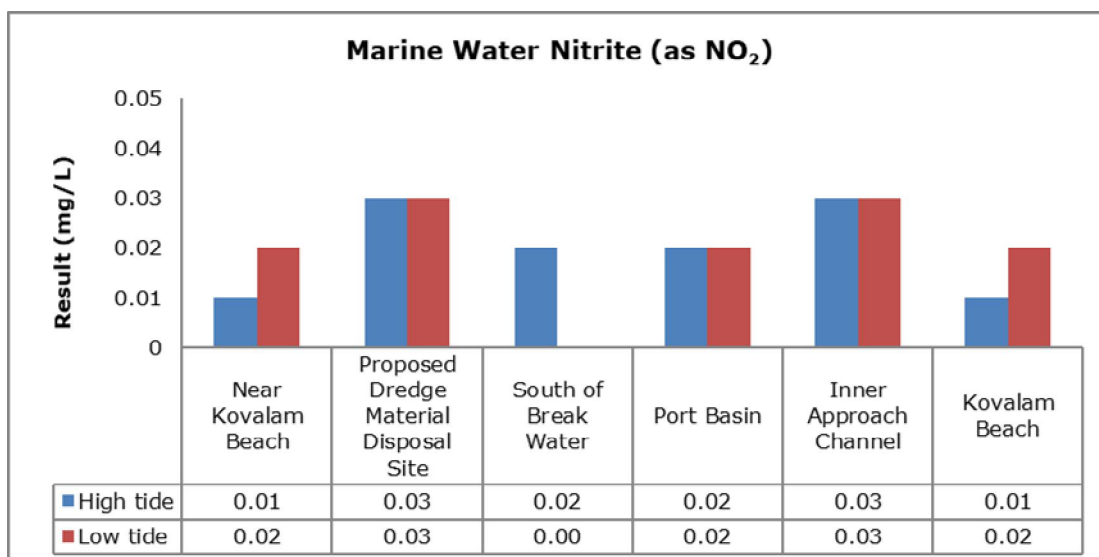
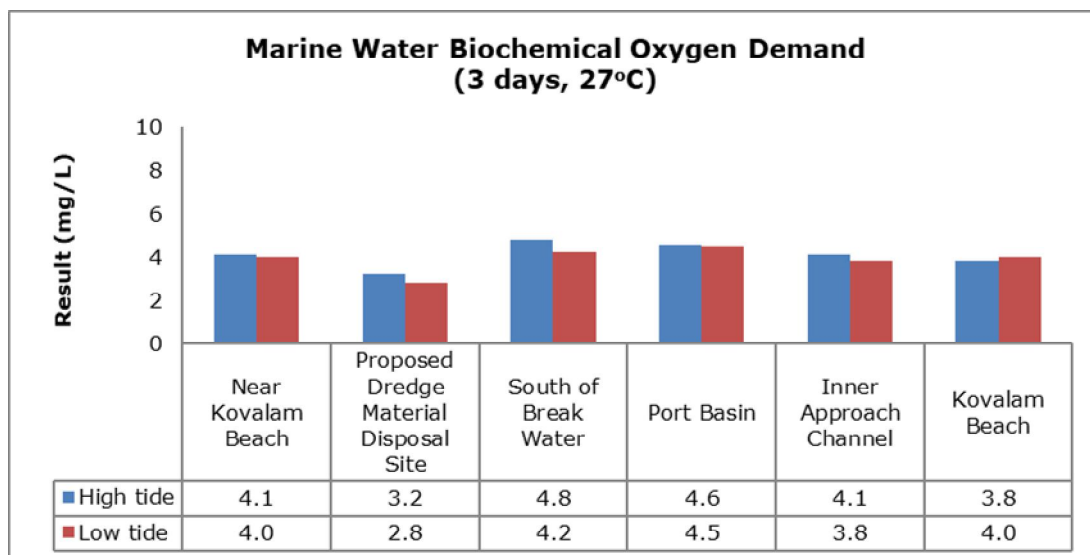
## 4. Marine Survey

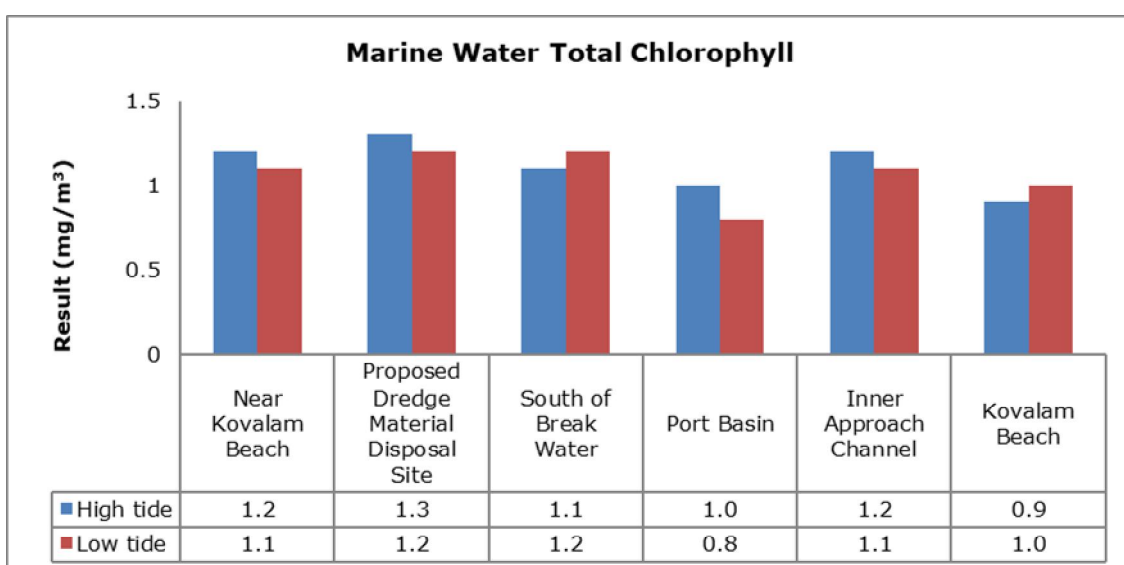
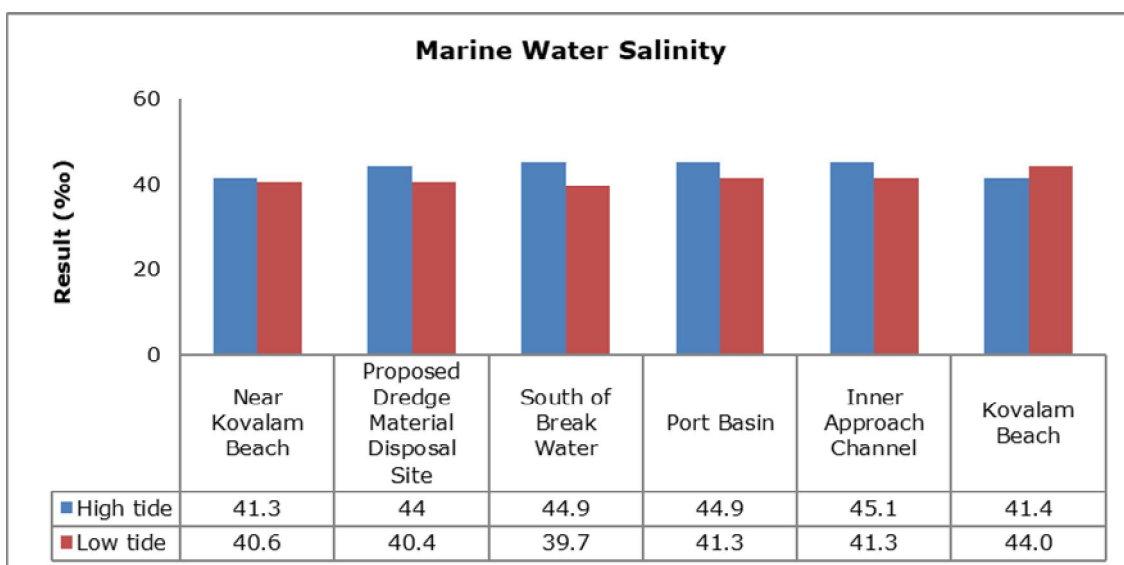
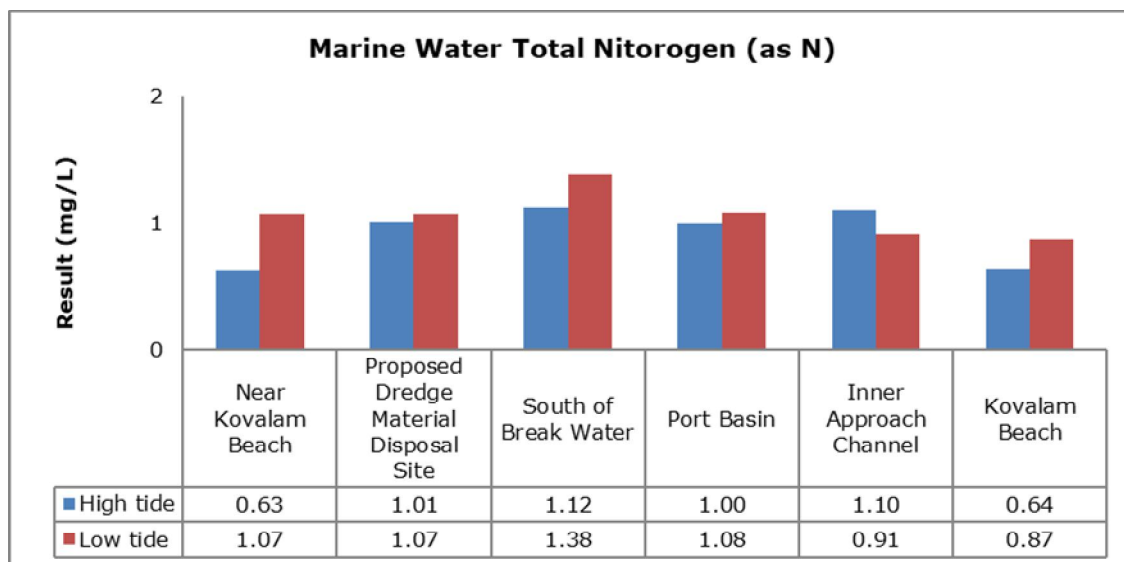
### 4 a. Marine Water Analysis



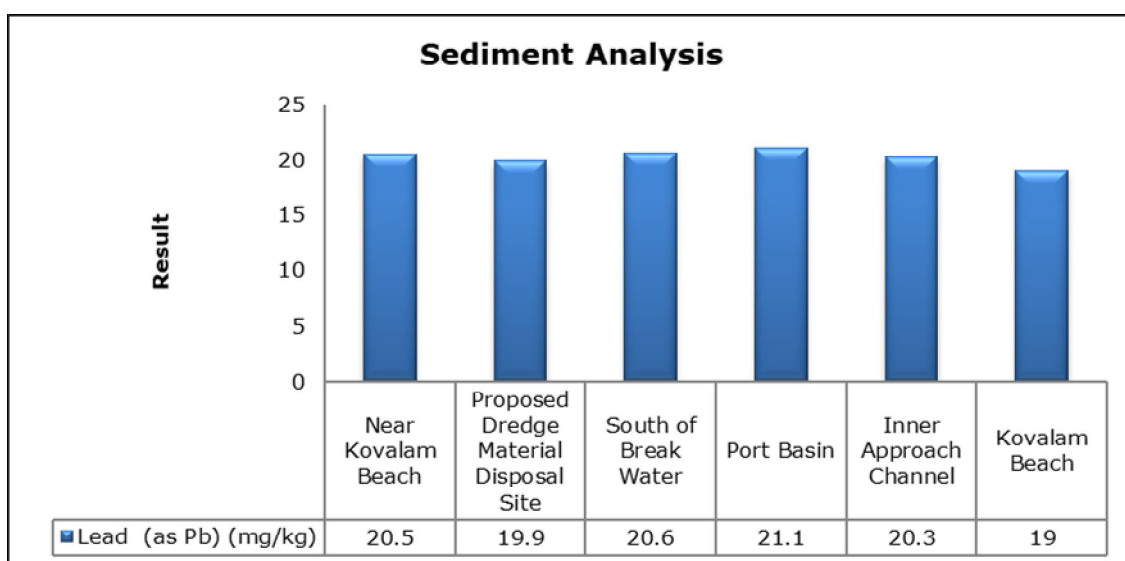
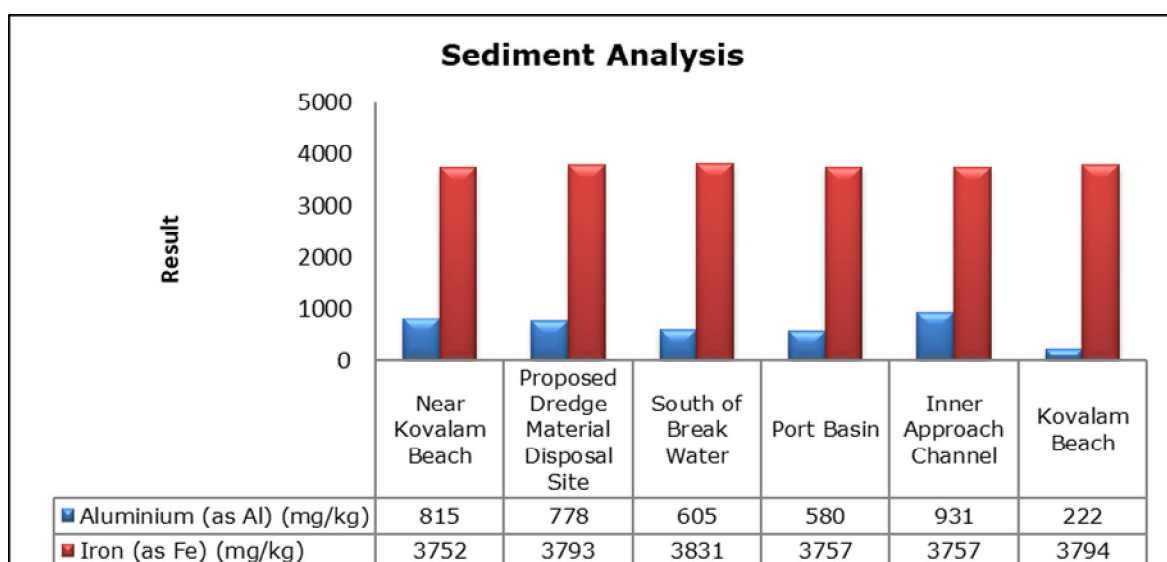
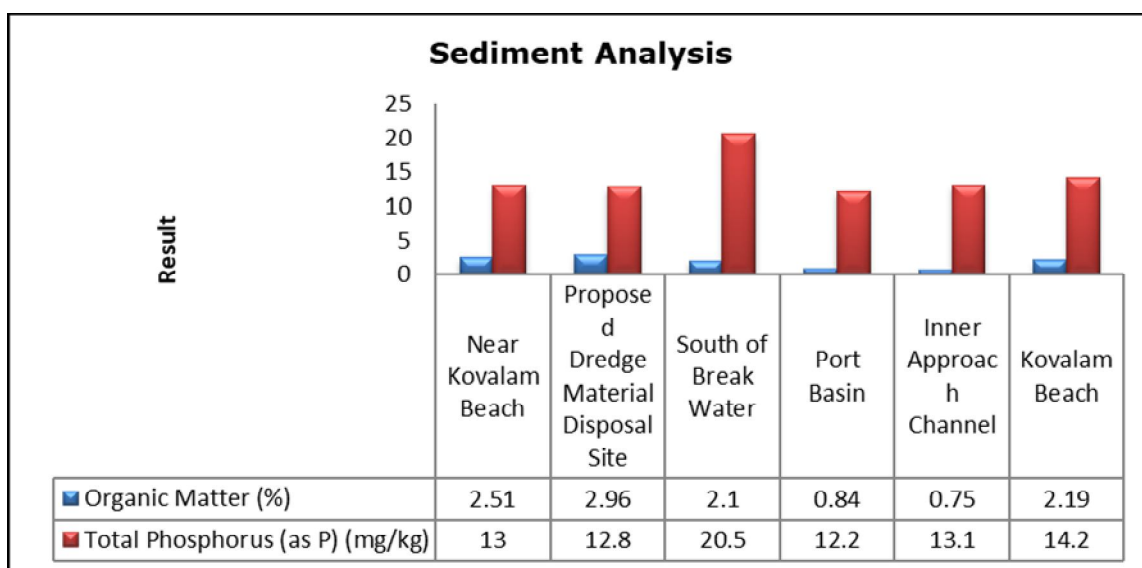


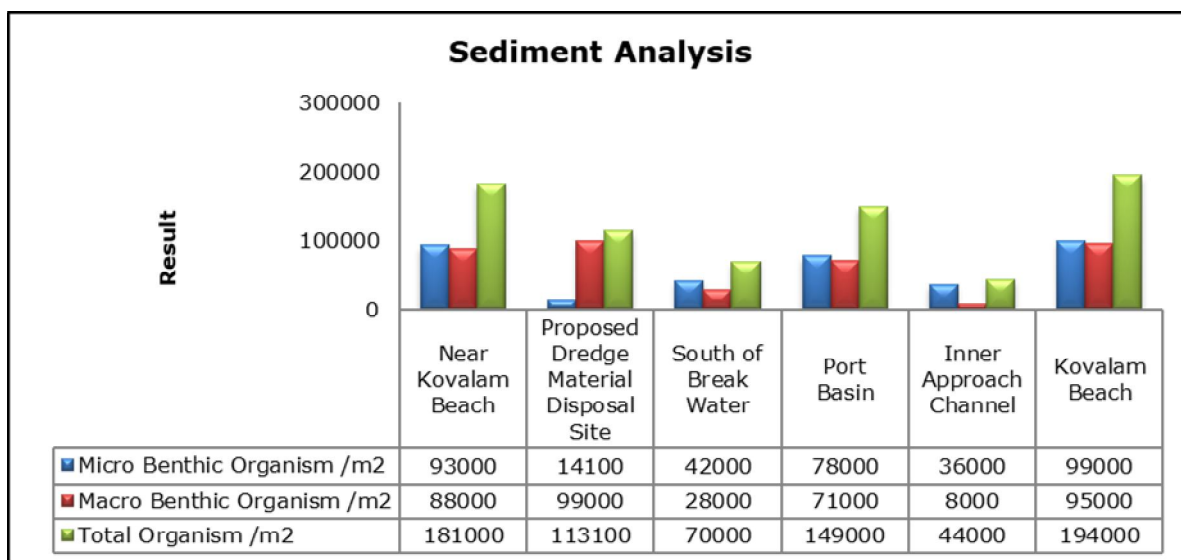
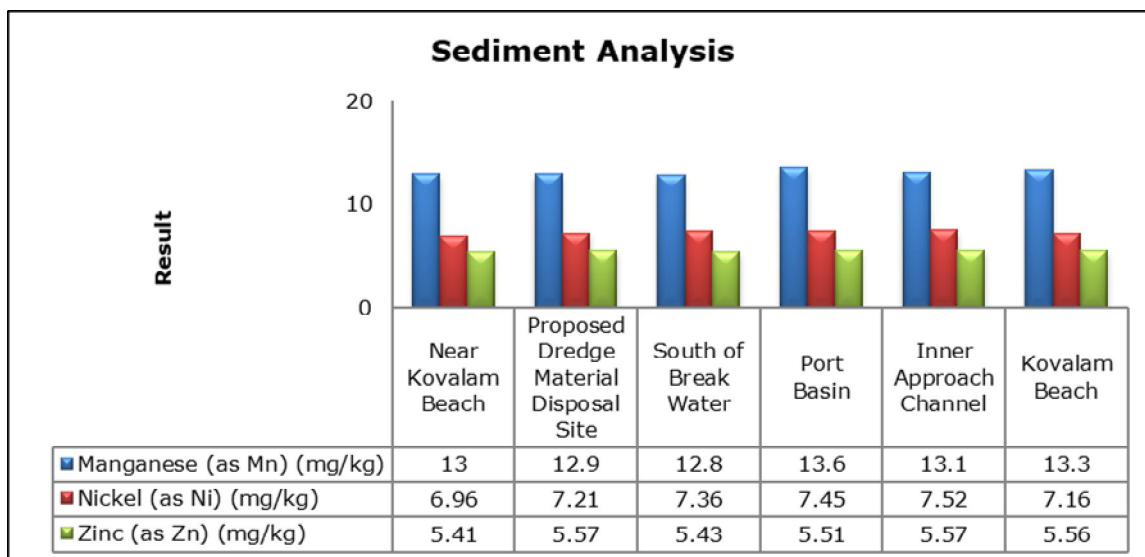




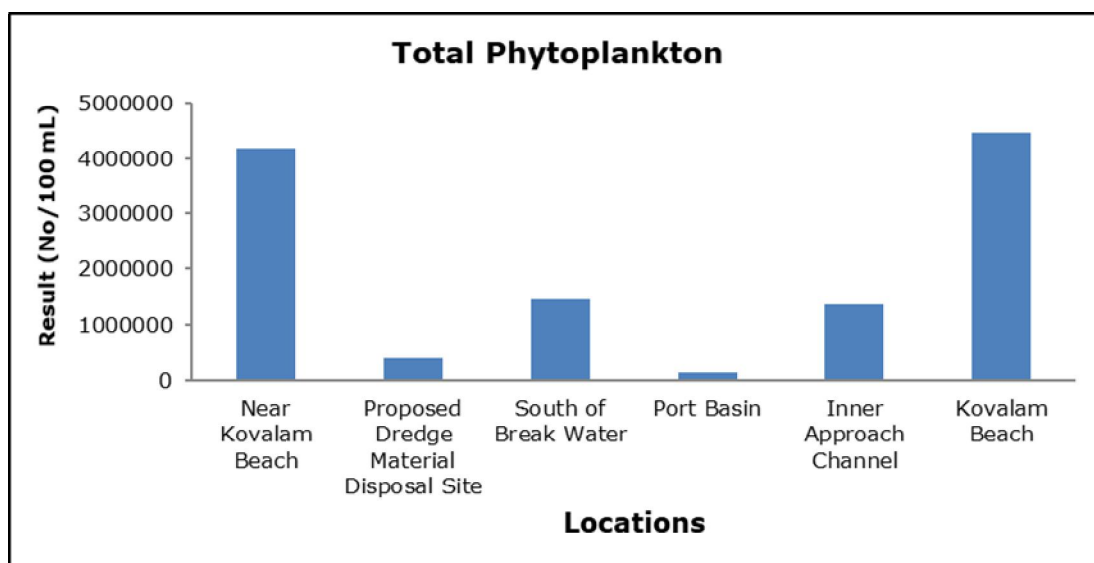


## 4 b. Sediment Analysis

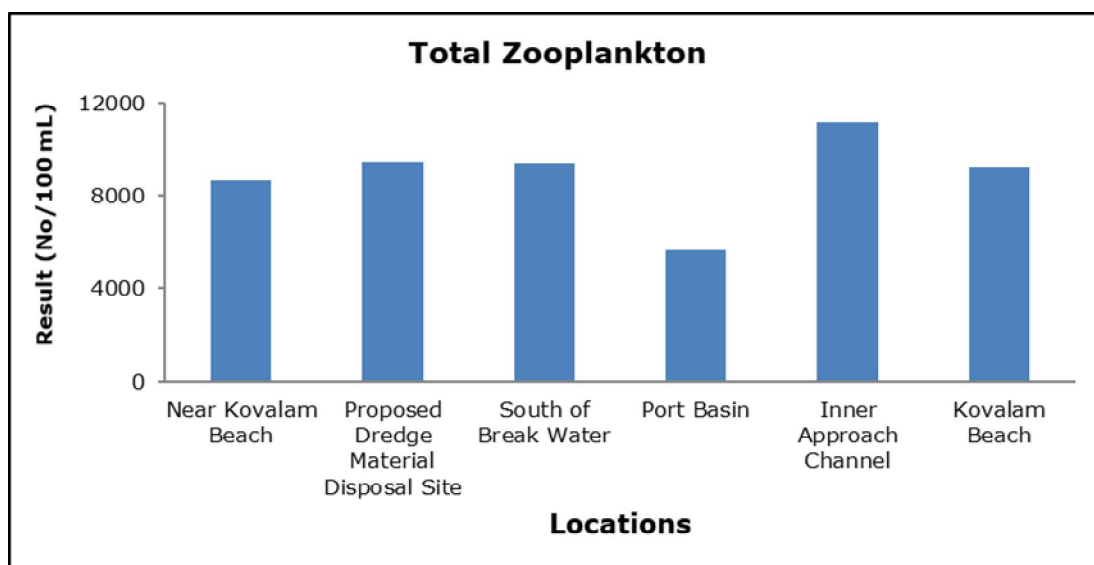




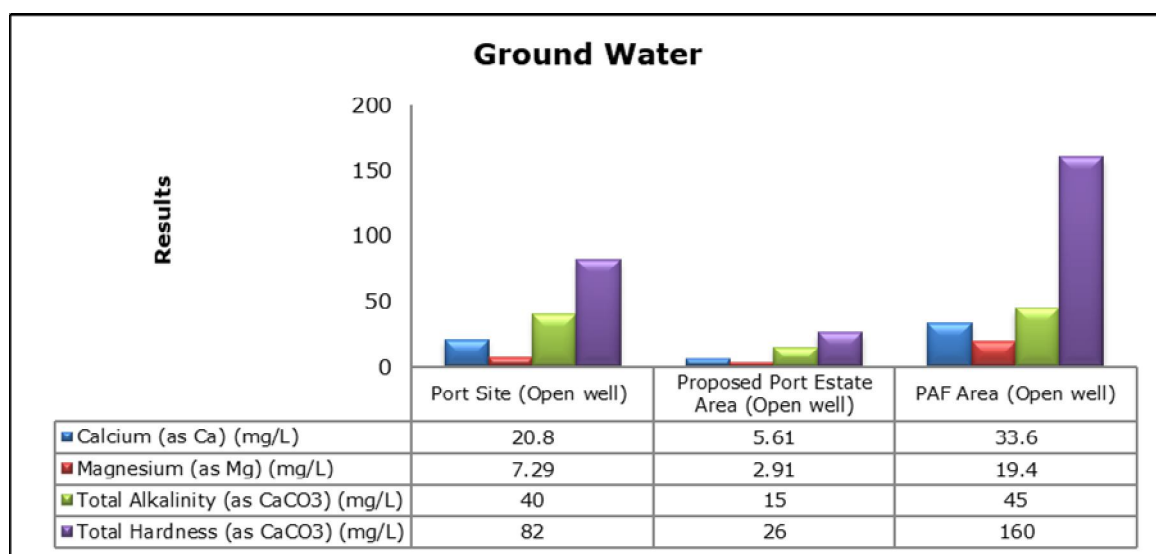
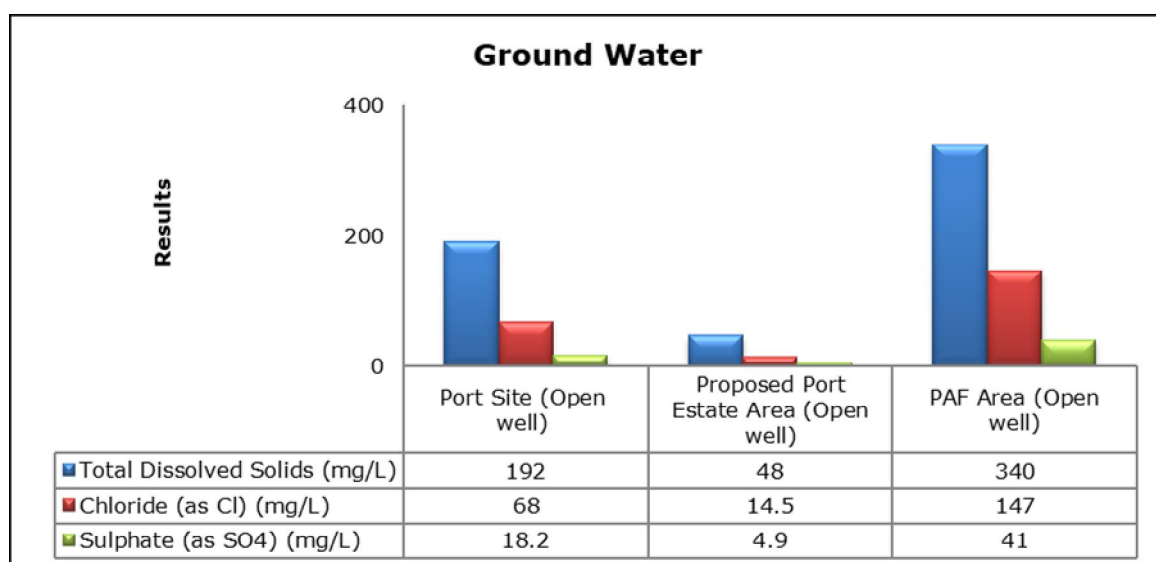
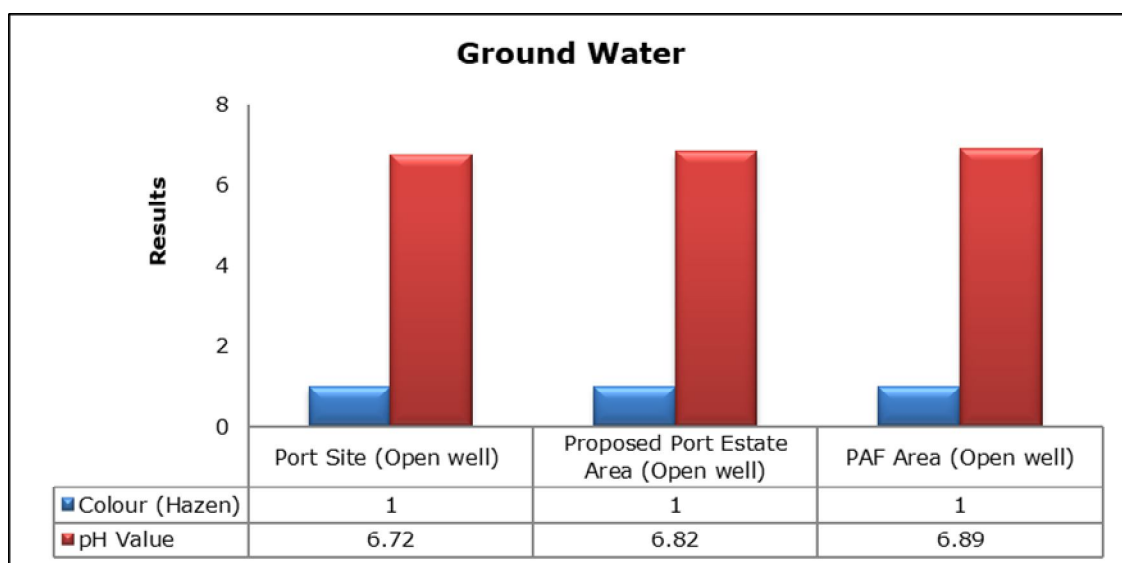
#### 4 c. Phytoplankton Analysis from Marine Samples

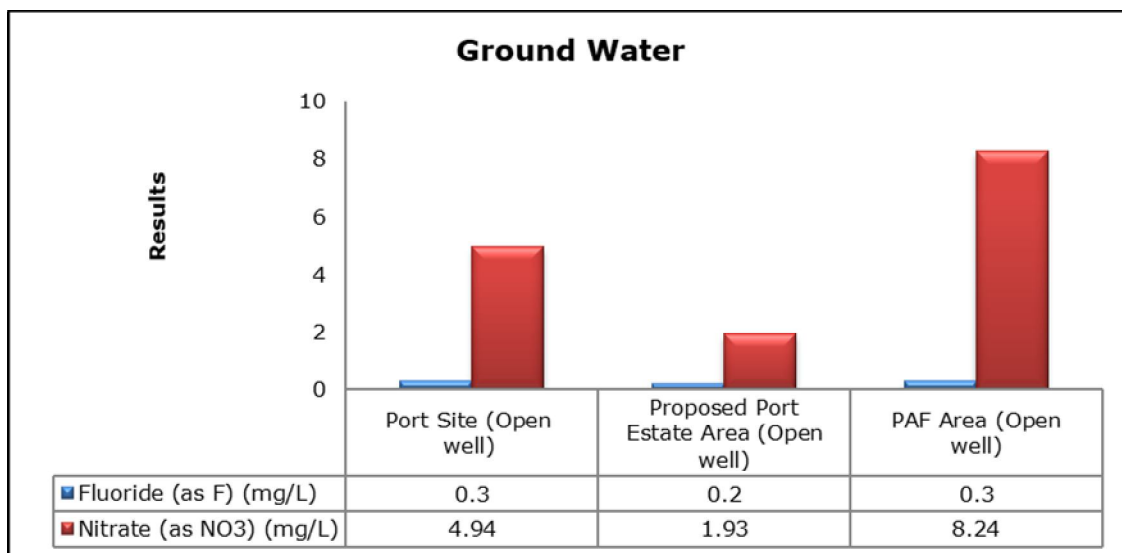


#### 4 d. Zooplankton Analysis from Marine Sample



## 5. Groundwater Analysis





## 6. Surface Water Analysis

