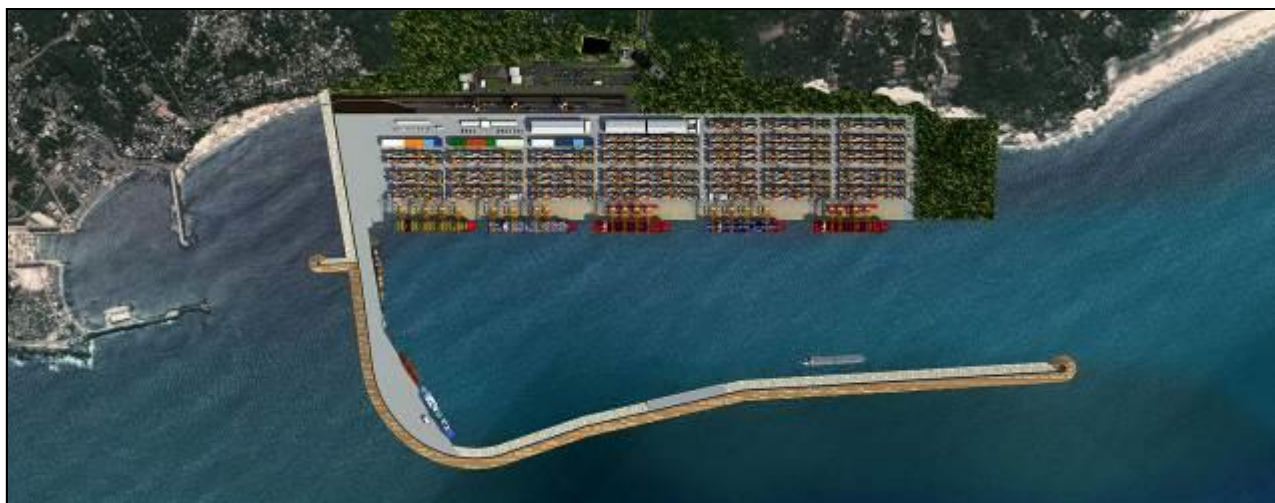


# Environment Monitoring Report



## Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

November 2022

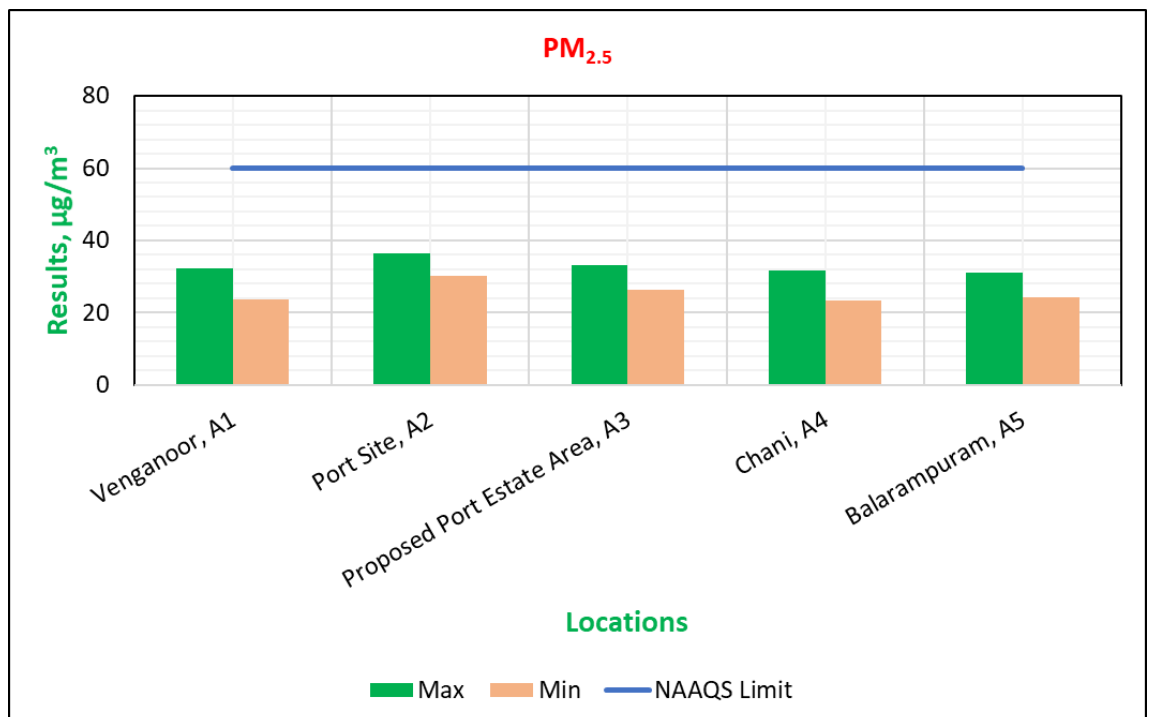
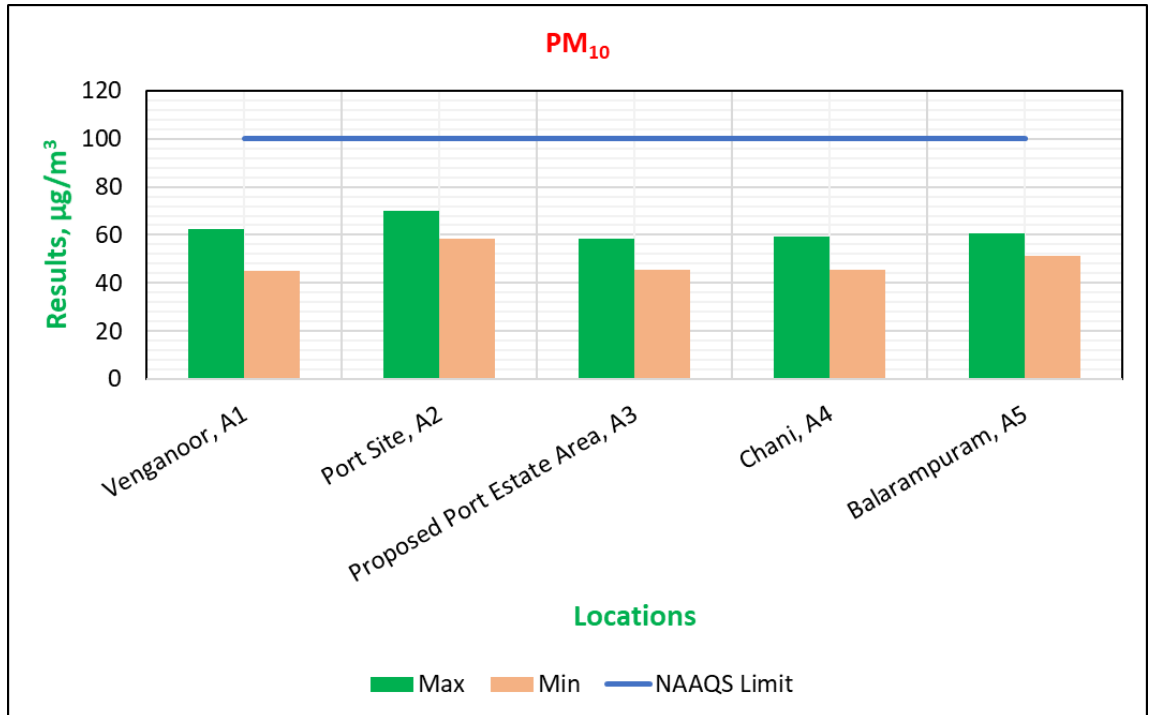
## Environment Monitoring Locations:

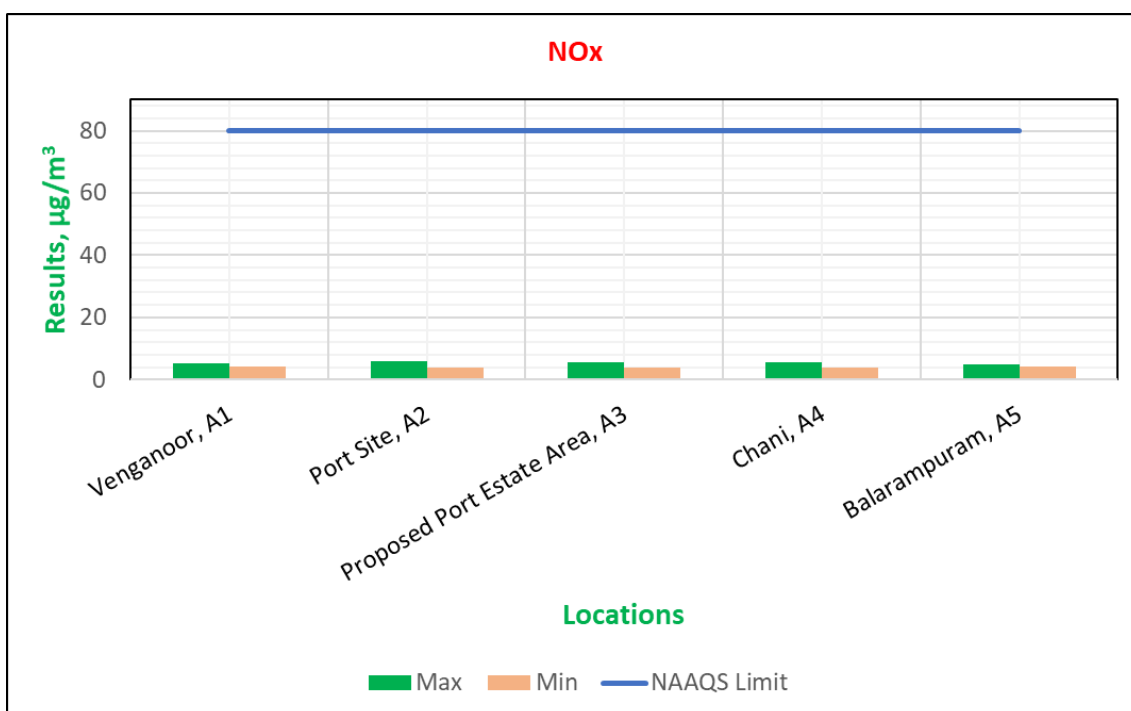
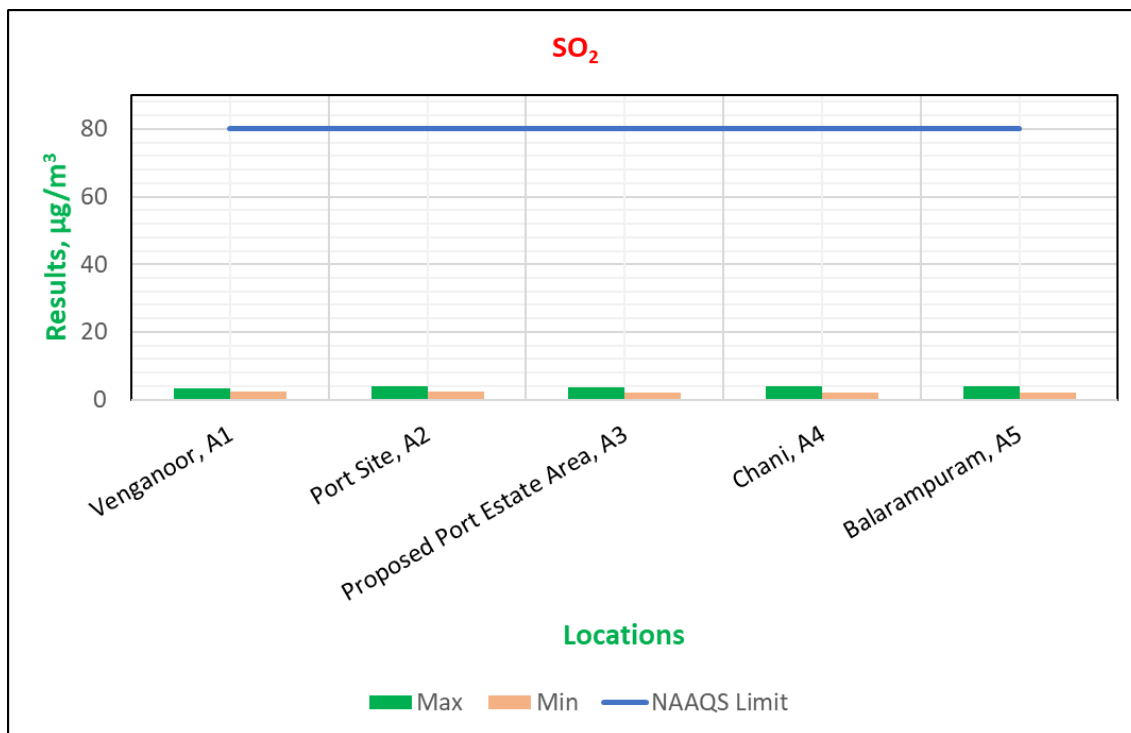
| Sl. No. | Environmental Attribute        | Location                                     |
|---------|--------------------------------|--|
| 1.      | Ambient Air Quality Monitoring | Venganoor (A1)                               |
|         |                                | Port Site (A2)                               |
|         |                                | Proposed Port Estate Area (A3)               |
|         |                                | Chani (A4)                                   |
|         |                                | Balarampuram (A5)                            |
| 2.      | Ambient Noise                  | Venganoor (Residential) (N1)                 |
|         |                                | Port Site (Industrial) (N2)                  |
|         |                                | Proposed Port Estate Area (Residential) (N3) |
|         |                                | Chani (Residential) (N4)                     |
|         |                                | Balarampuram (Commercial) (N5)               |
| 3.      | Marine Water/Sediment          | Near Kovalam Beach (M1)                      |
|         |                                | Proposed Dredging Site (M2)                  |
|         |                                | Port Basin (M3)                              |
|         |                                | South of Breakwater (M4)                     |
|         |                                | Inner Approach Channel (M5)                  |
|         |                                | Kovalam Beach (M6)                           |
| 4.      | Groundwater                    | Port Site (G1)                               |
|         |                                | Proposed Port Estate Area (G2)               |
|         |                                | PAF Area (G3)                                |
| 5.      | Surface Water                  | Poovar West Canal (S1)                       |
|         |                                | Vizhinjam Branch Canal (S2)                  |
|         |                                | Vellayani Lake (S3)                          |
| 6.      | Soil                           | Port Site                                    |
|         |                                | Proposed Port Estate Area                    |
|         |                                | Mullor (Along the road network)              |
|         |                                | Balarampuram (Along the rail network)        |

## 1. Summary of Environmental Monitoring Results for the Month of November 2022:

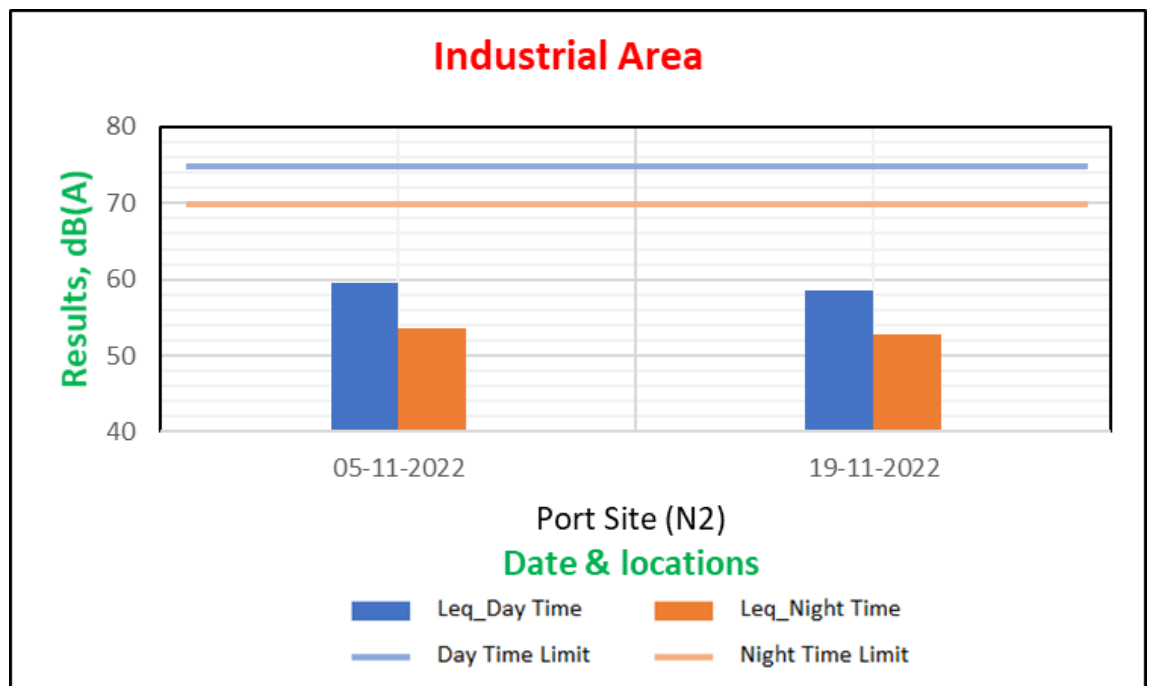
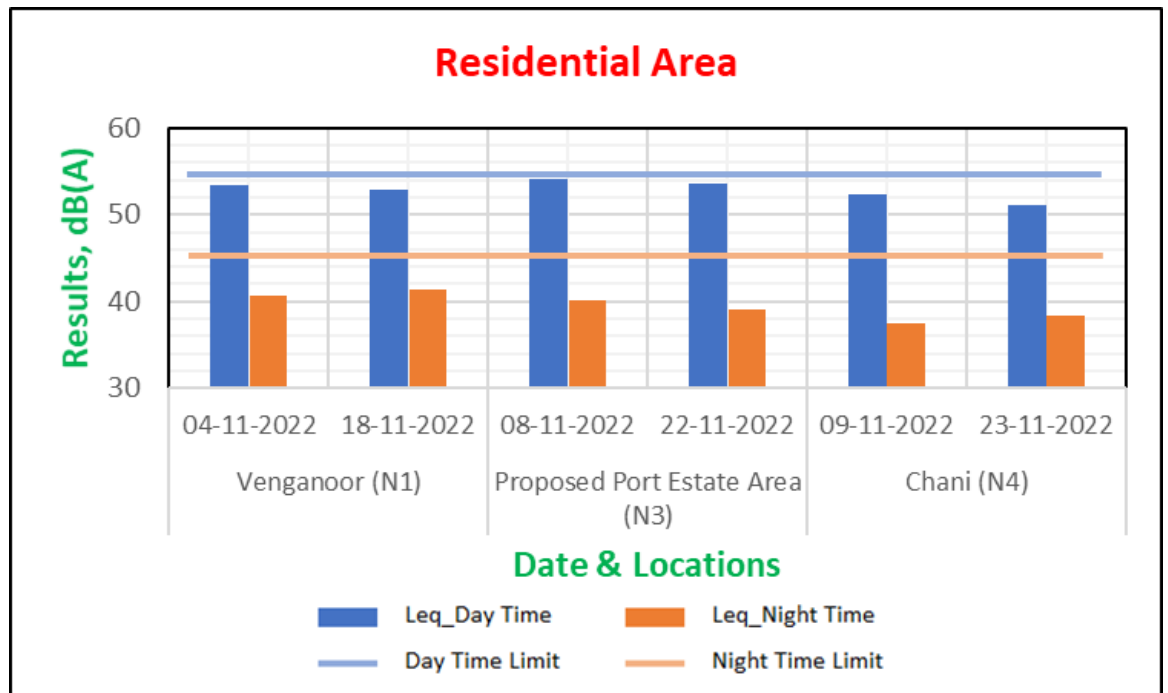
- The ambient air quality monitoring results were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations.
- Noise readings were within limits at all the monitoring locations.
- Marine water and sediment samples results were observed to be comparable with the baseline.
- Ground water samples were collected from 3 locations (open wells). All the parameters at all locations were within the acceptable limits as per IS 10500:2012. The water from these locations are not used for drinking purposes.
- Surface water sample results were observed to be comparable with the baseline.

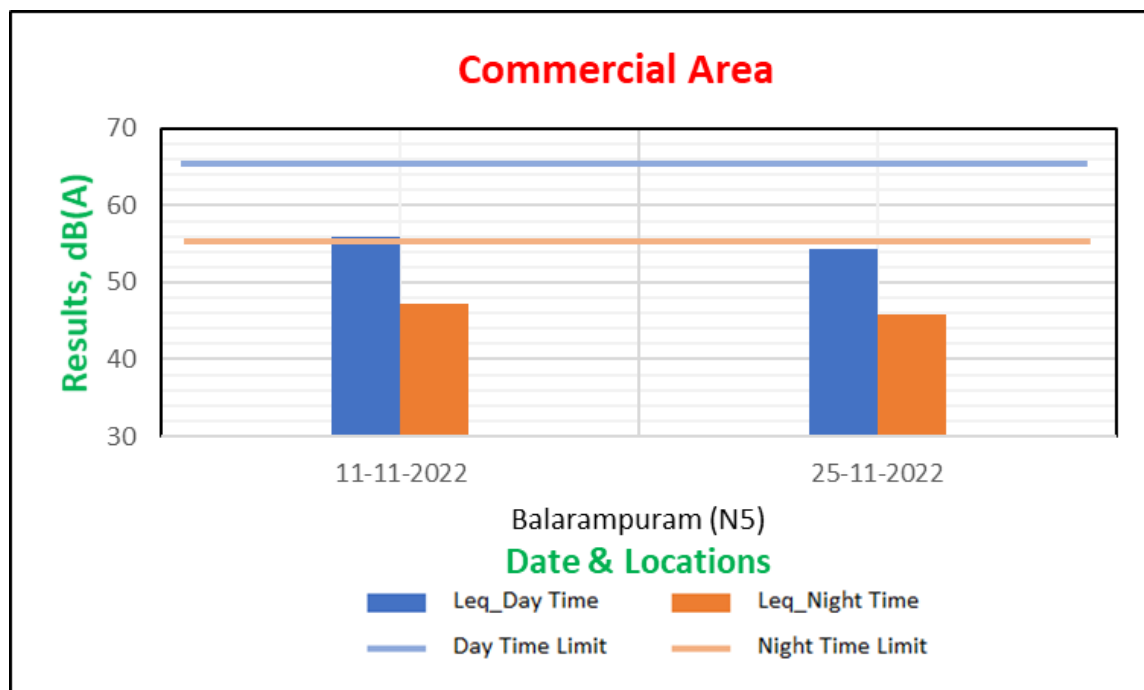
## 2. Ambient Air Quality





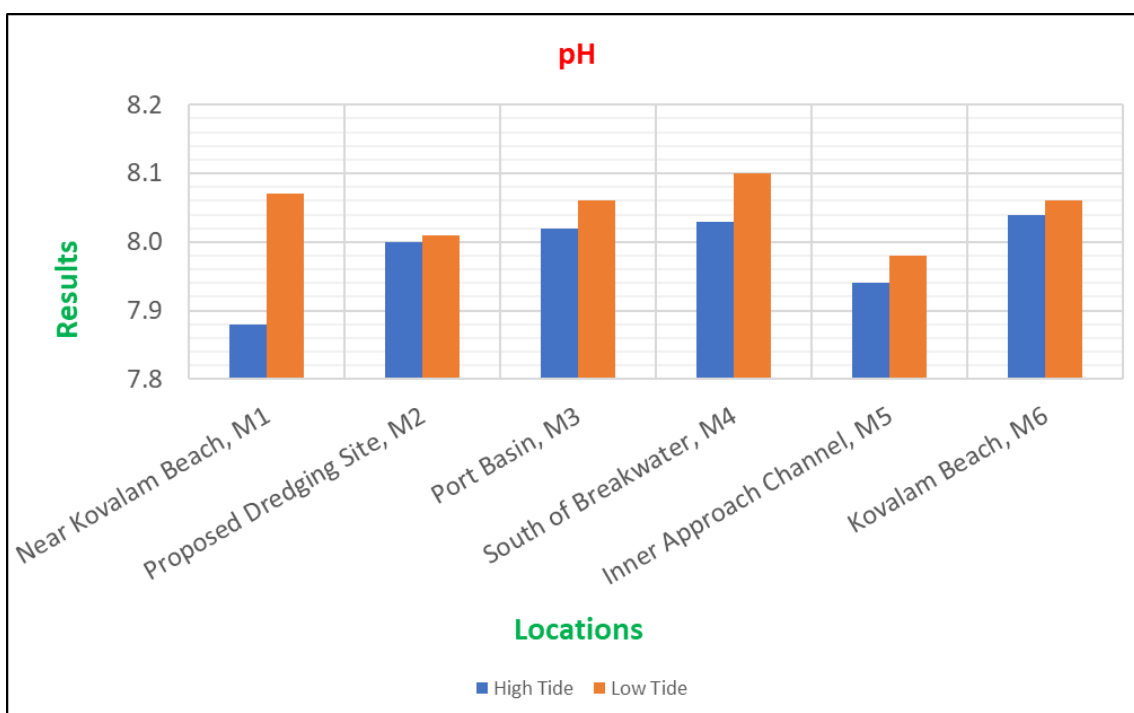
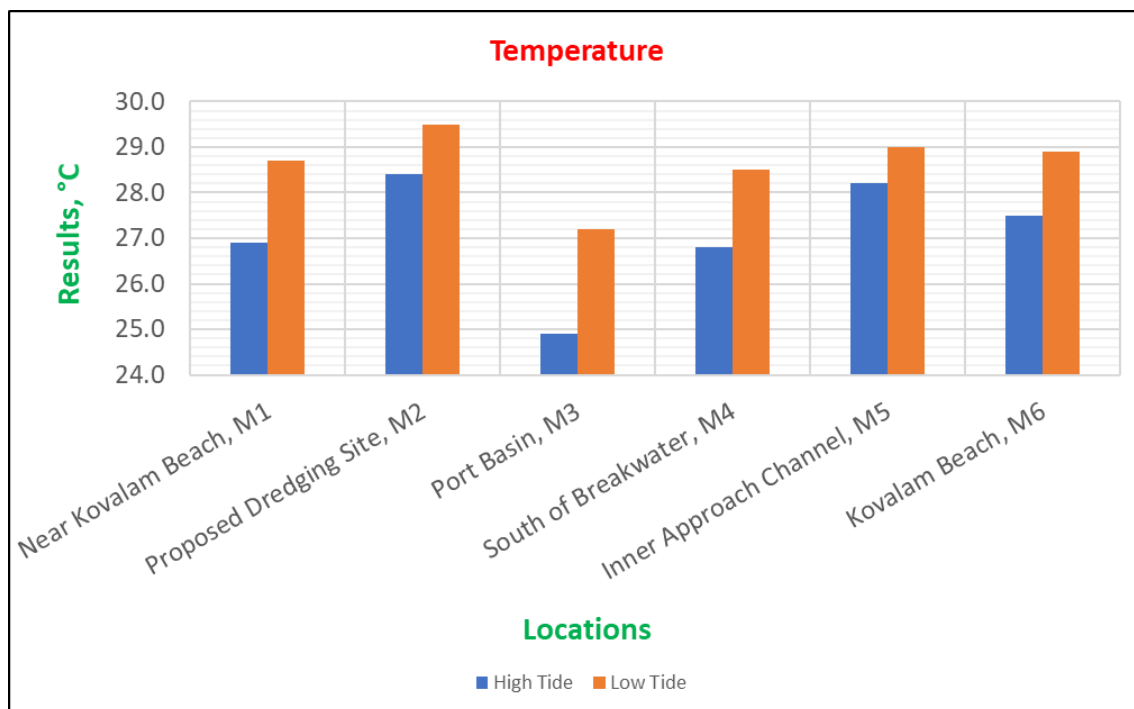
### 3. Ambient Noise



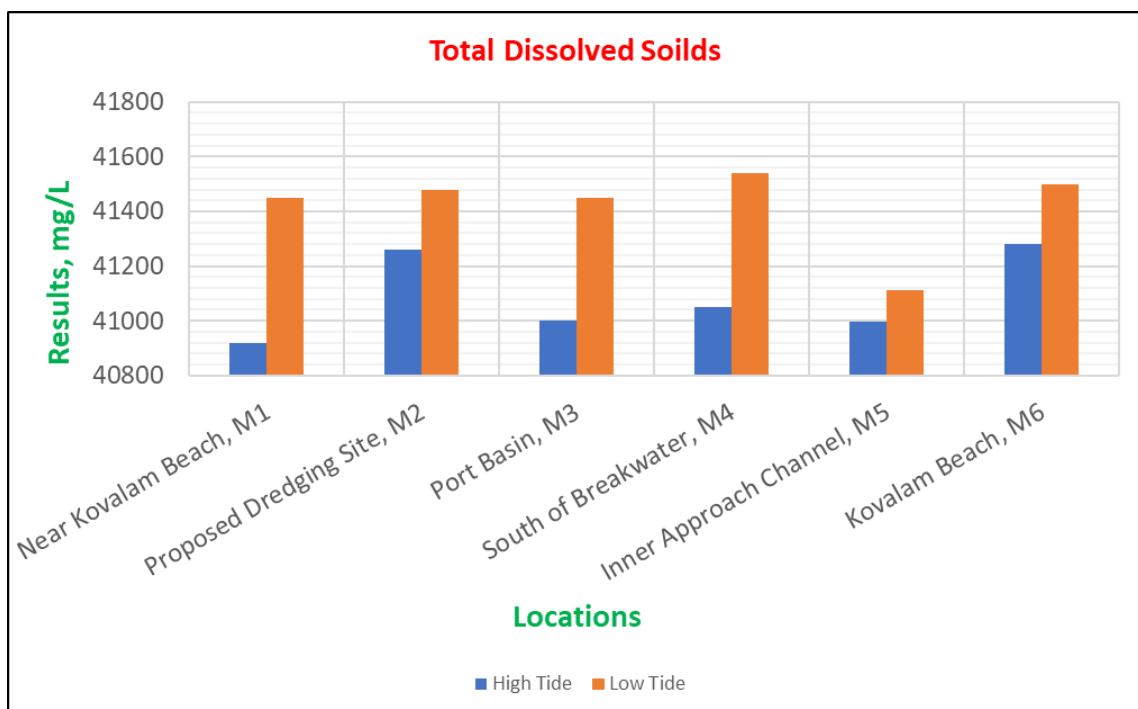
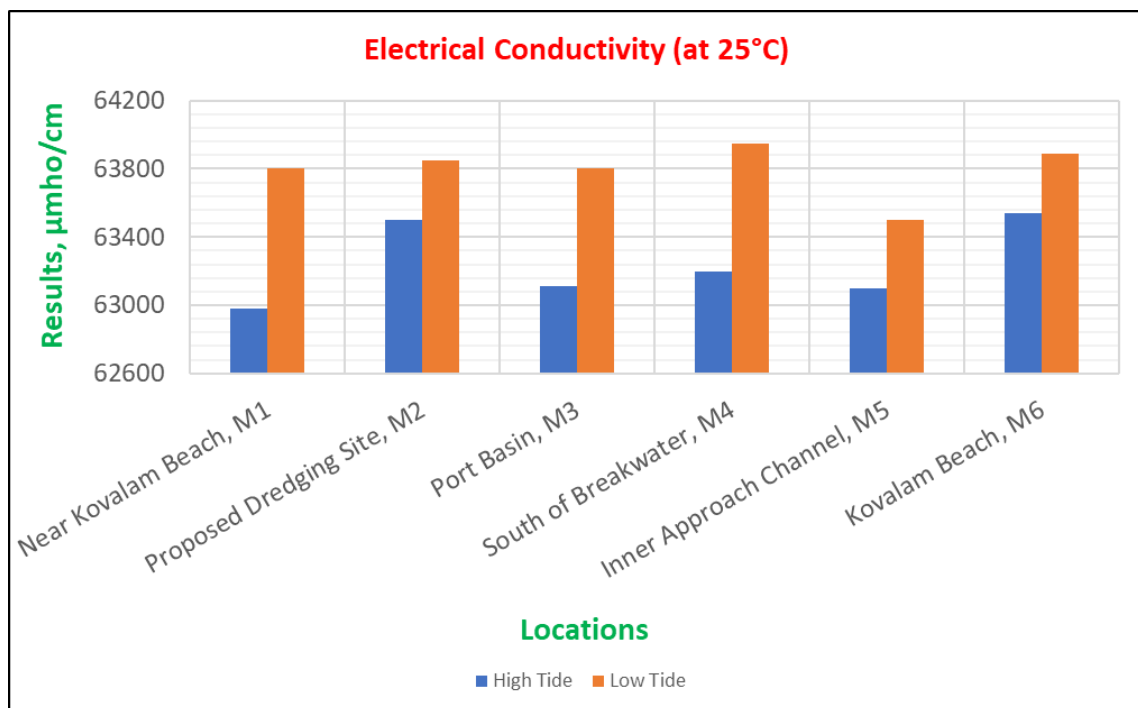


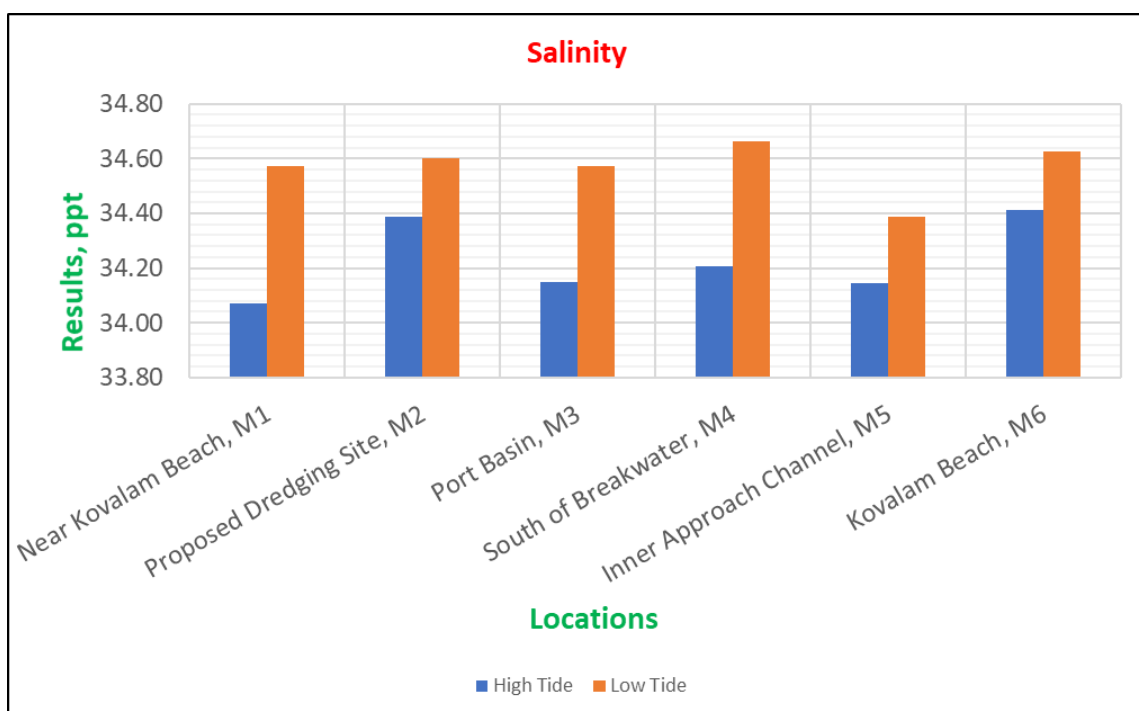
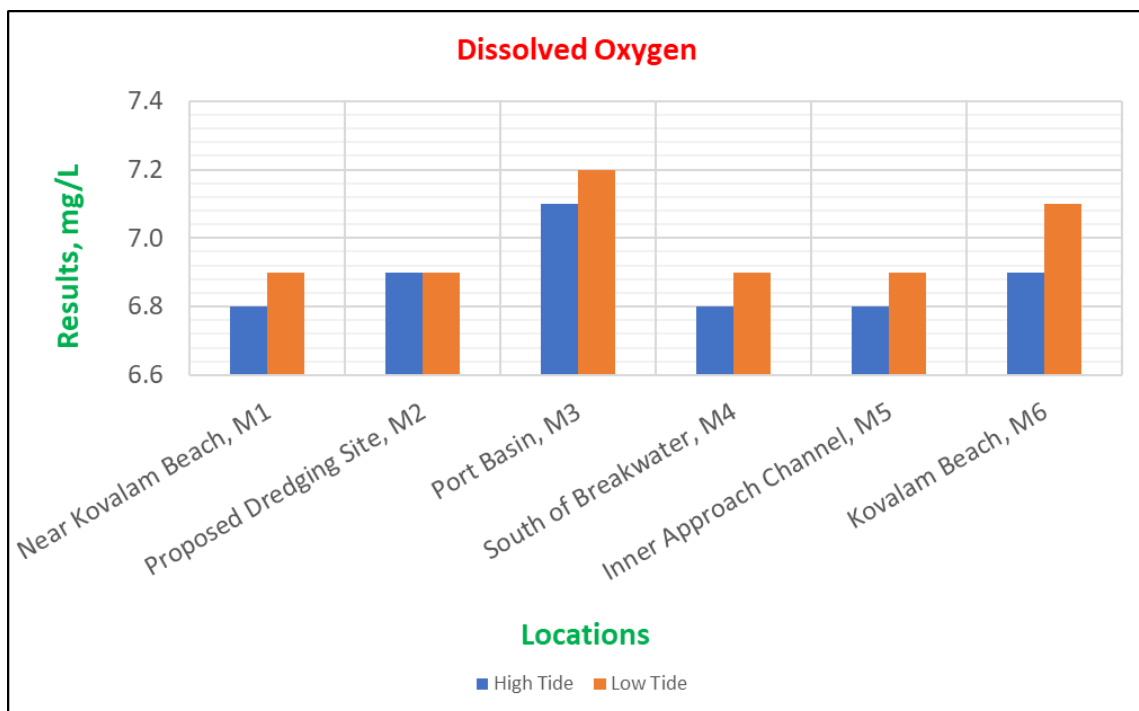
## 4. Marine Survey

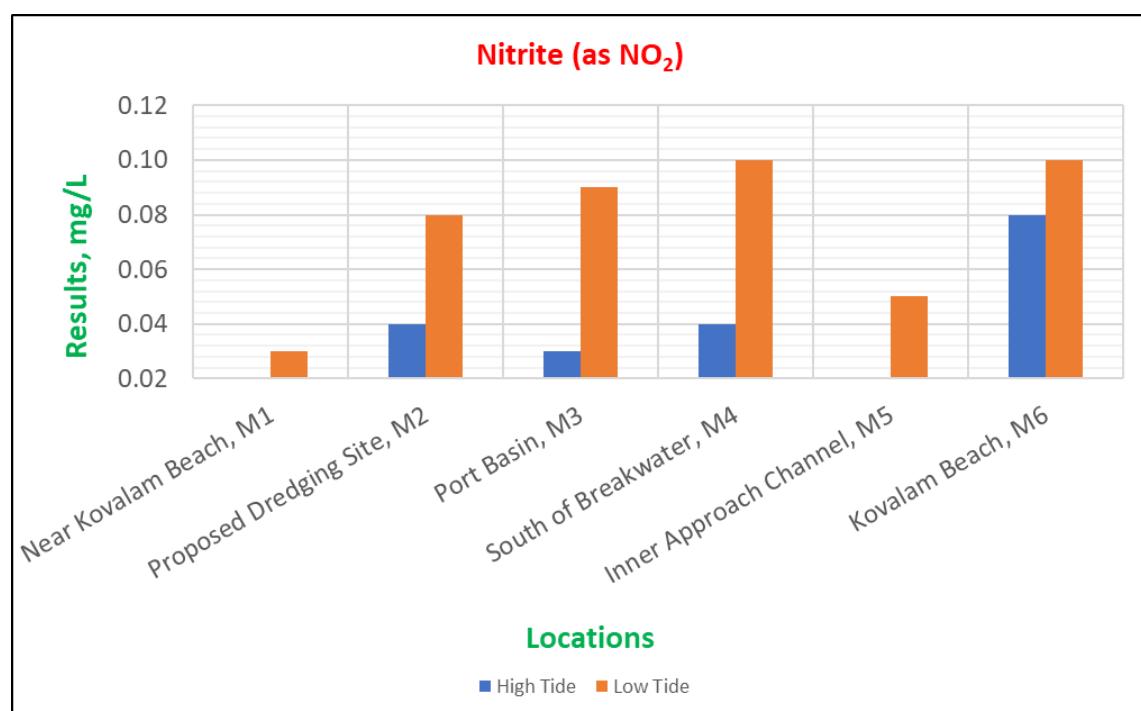
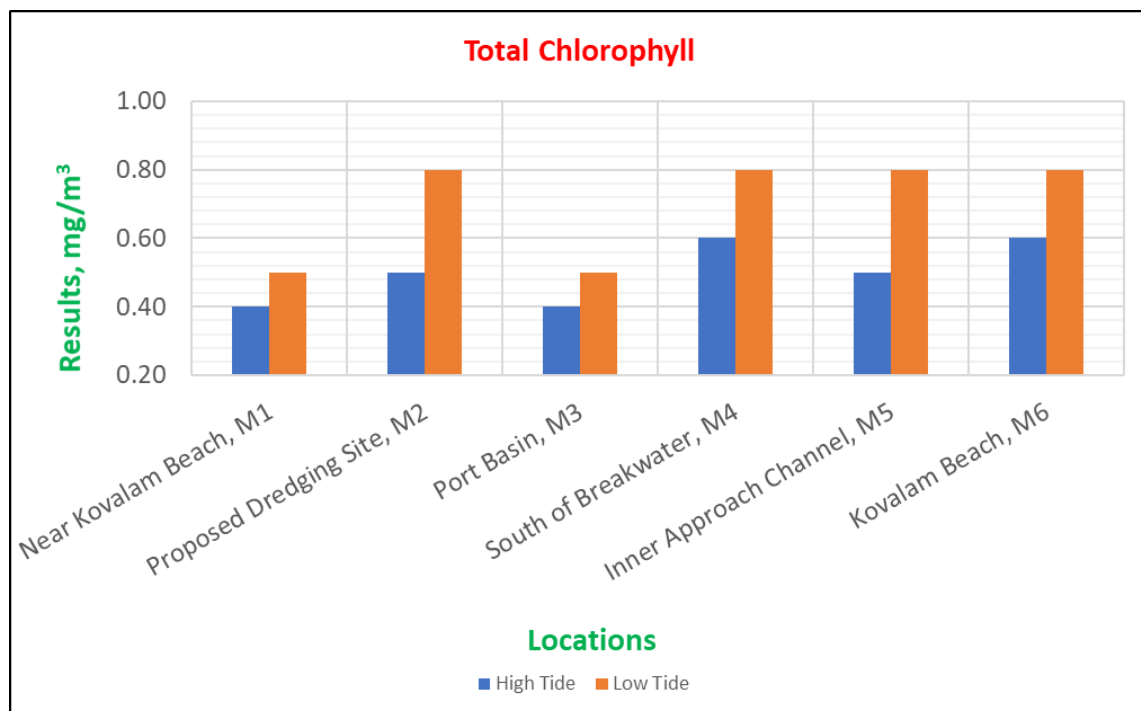
### 4 a. Marine Water Analysis



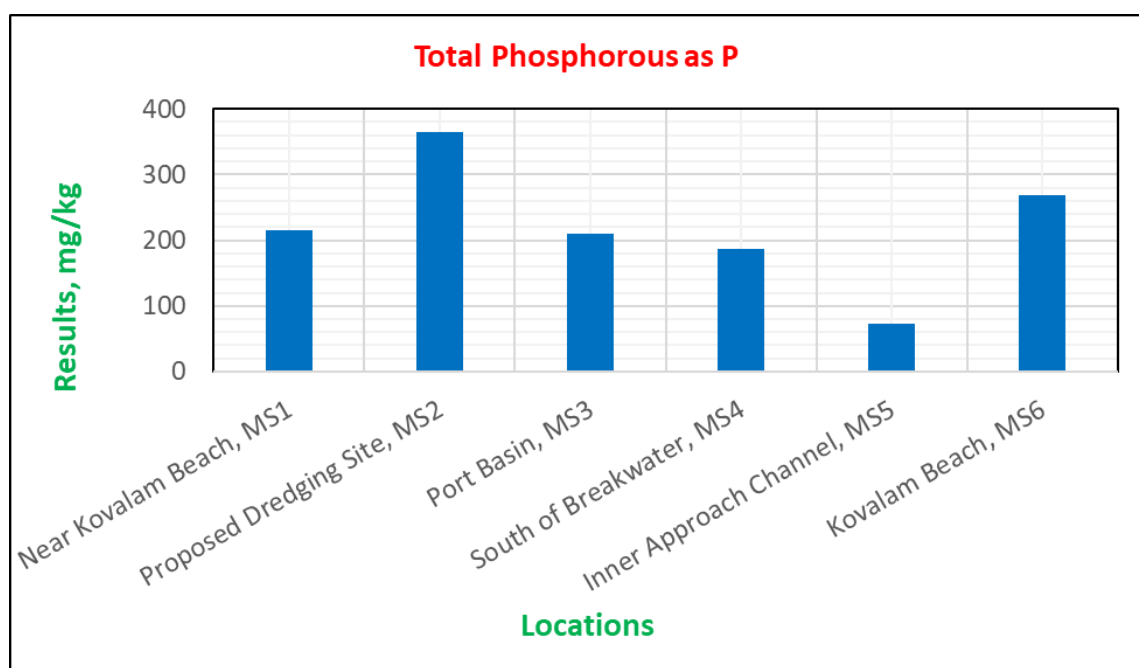
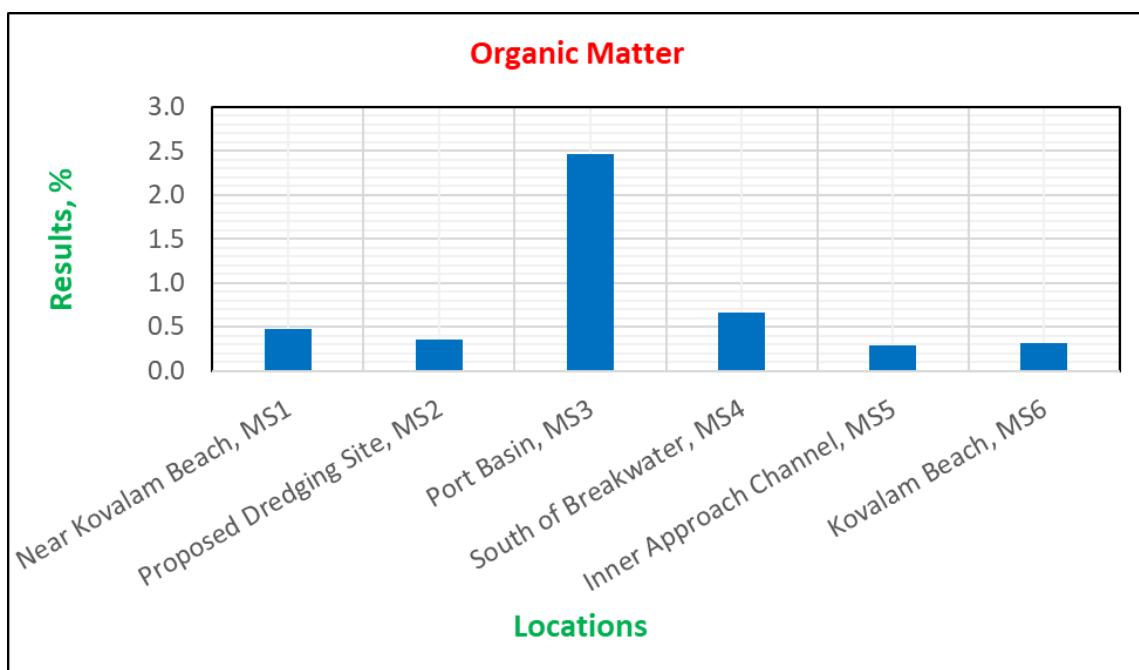


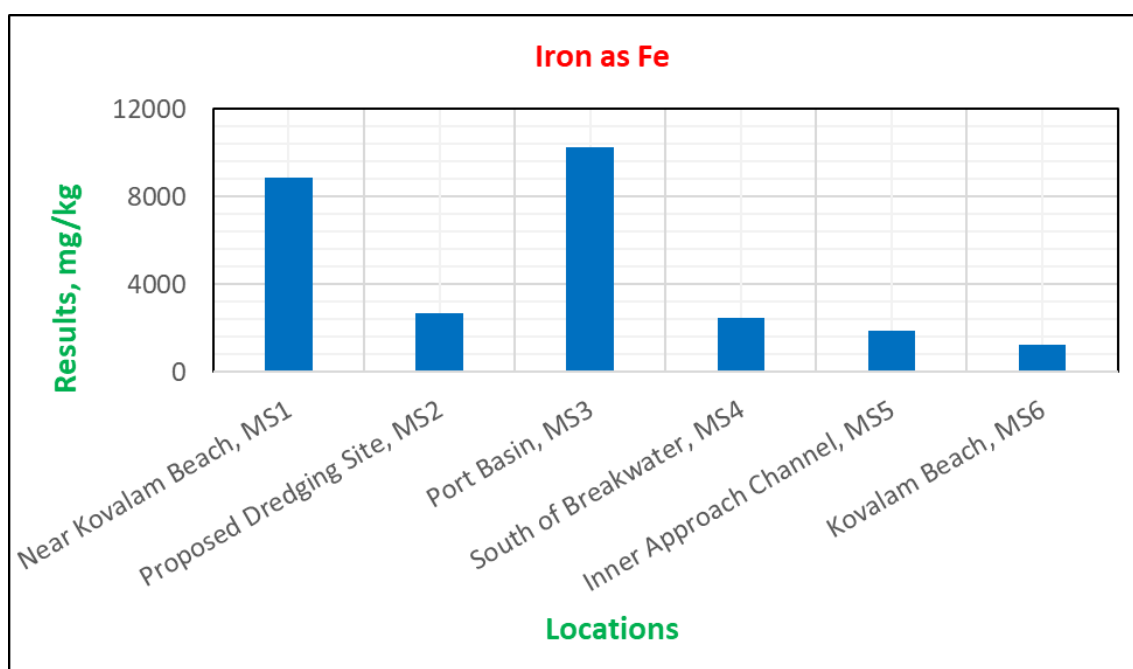
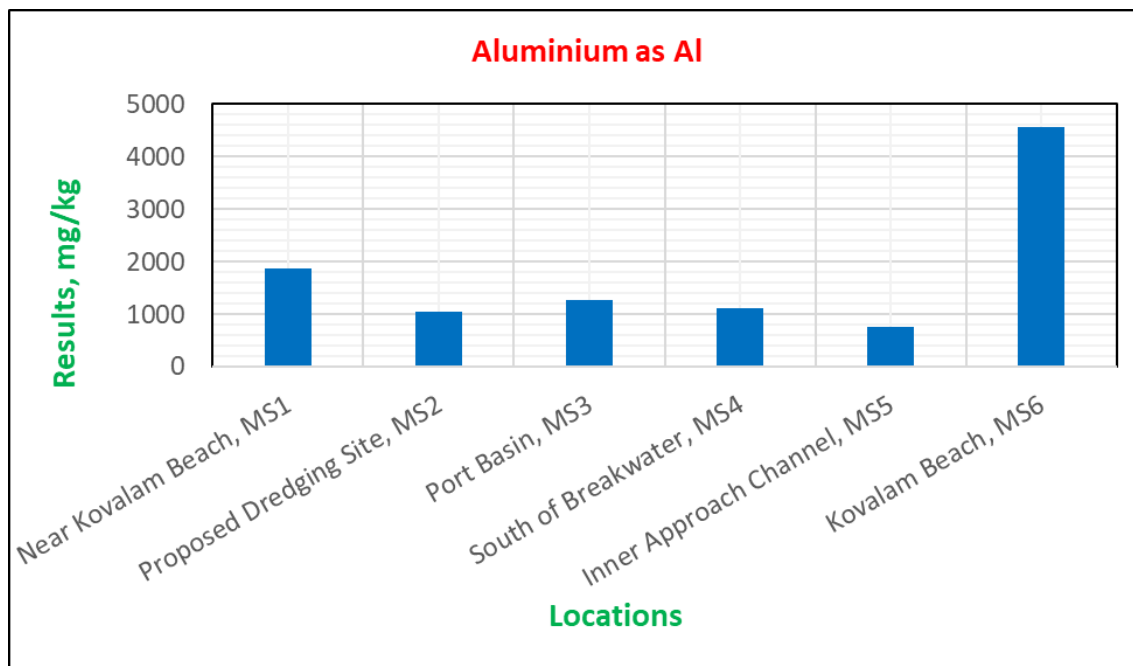


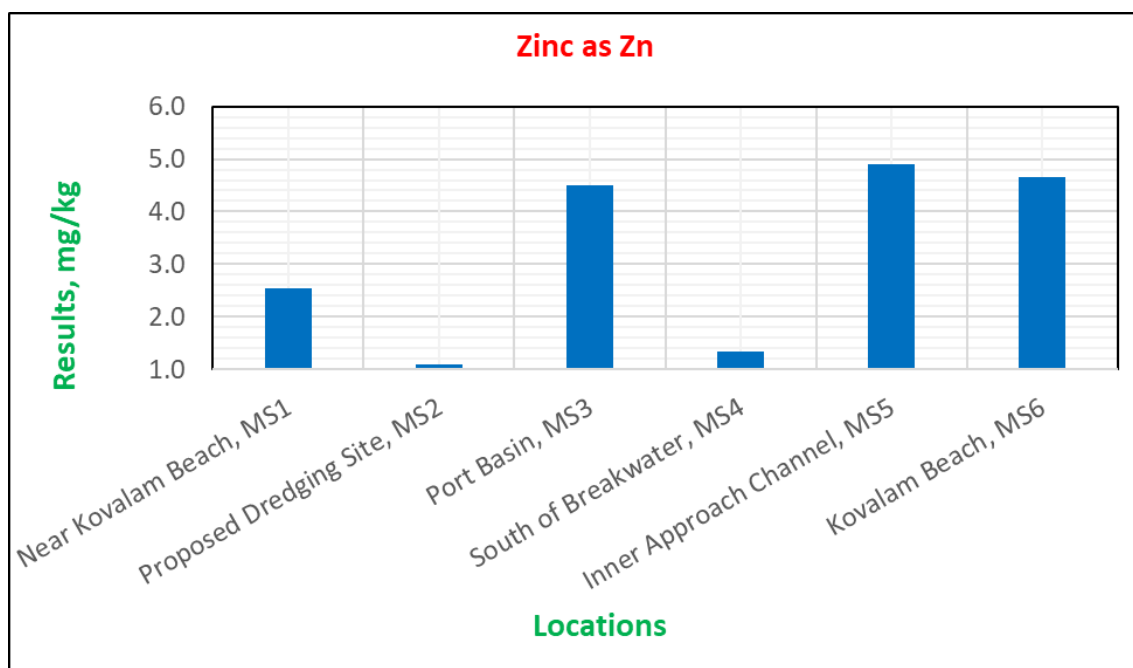
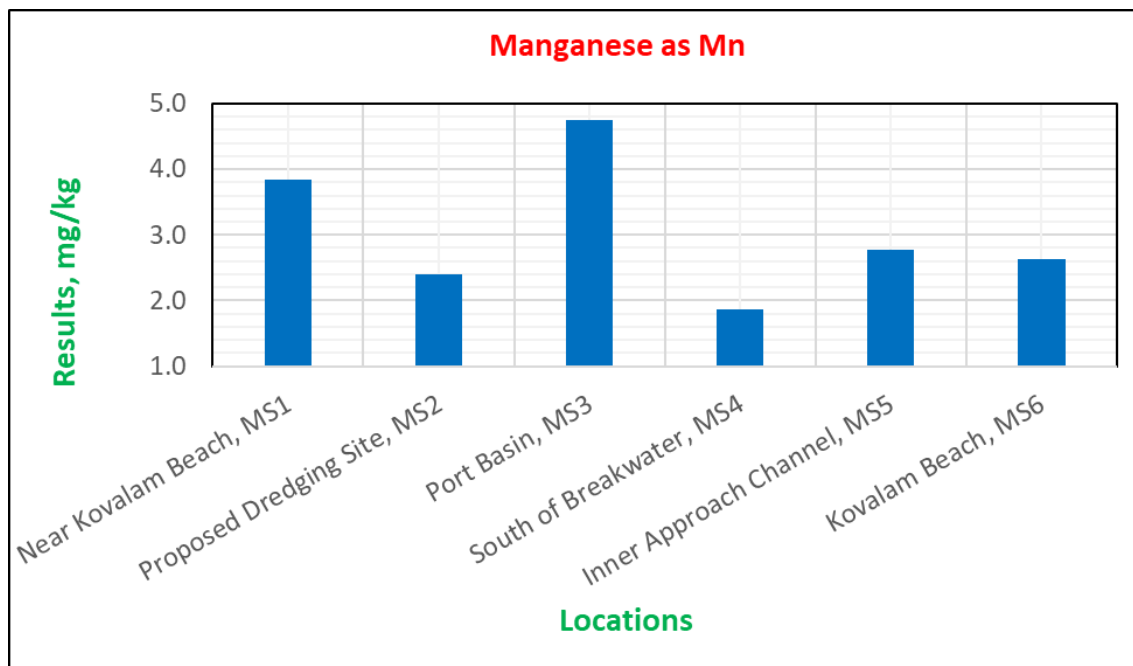


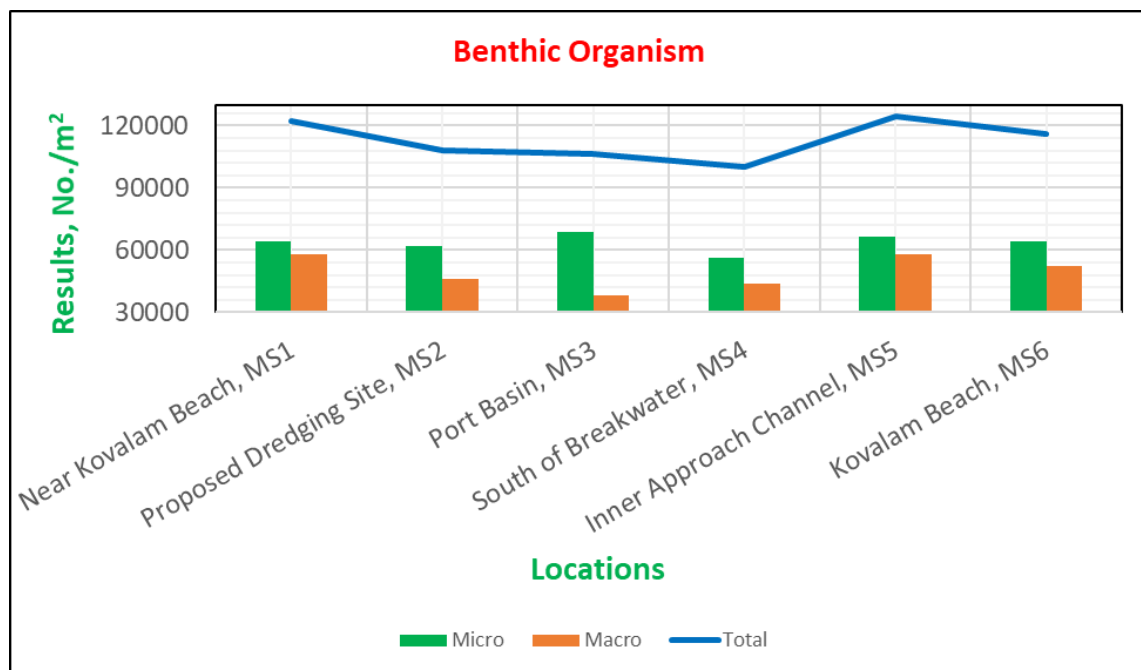


## 4 b. Sediment Analysis

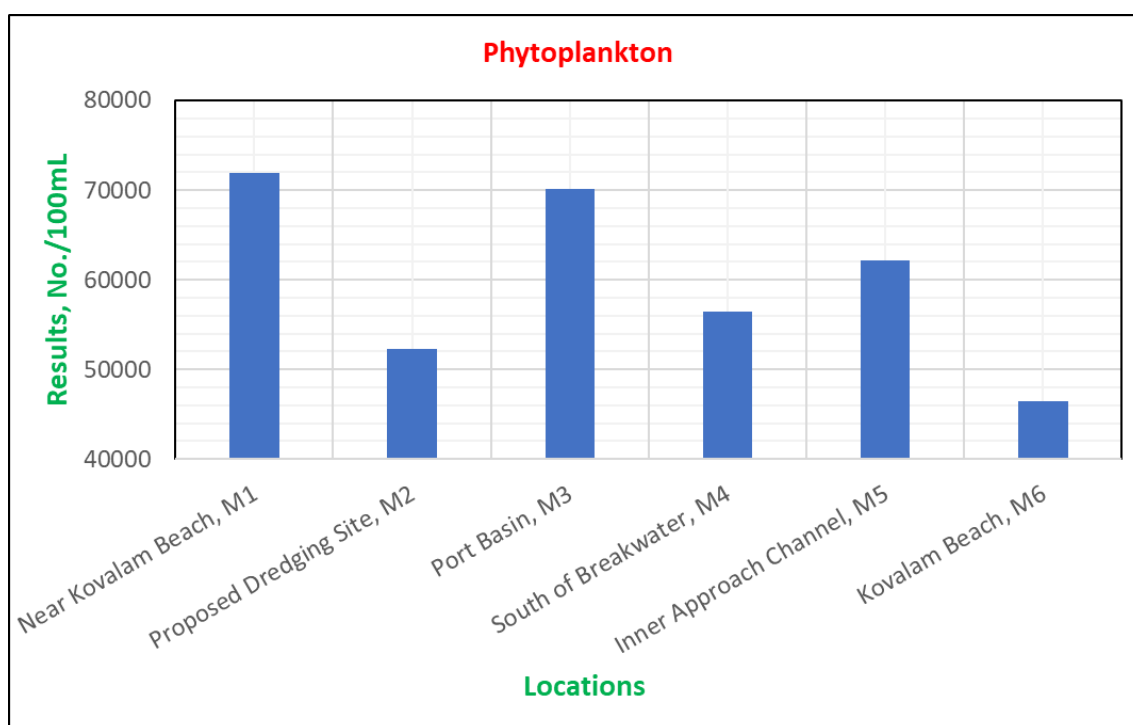




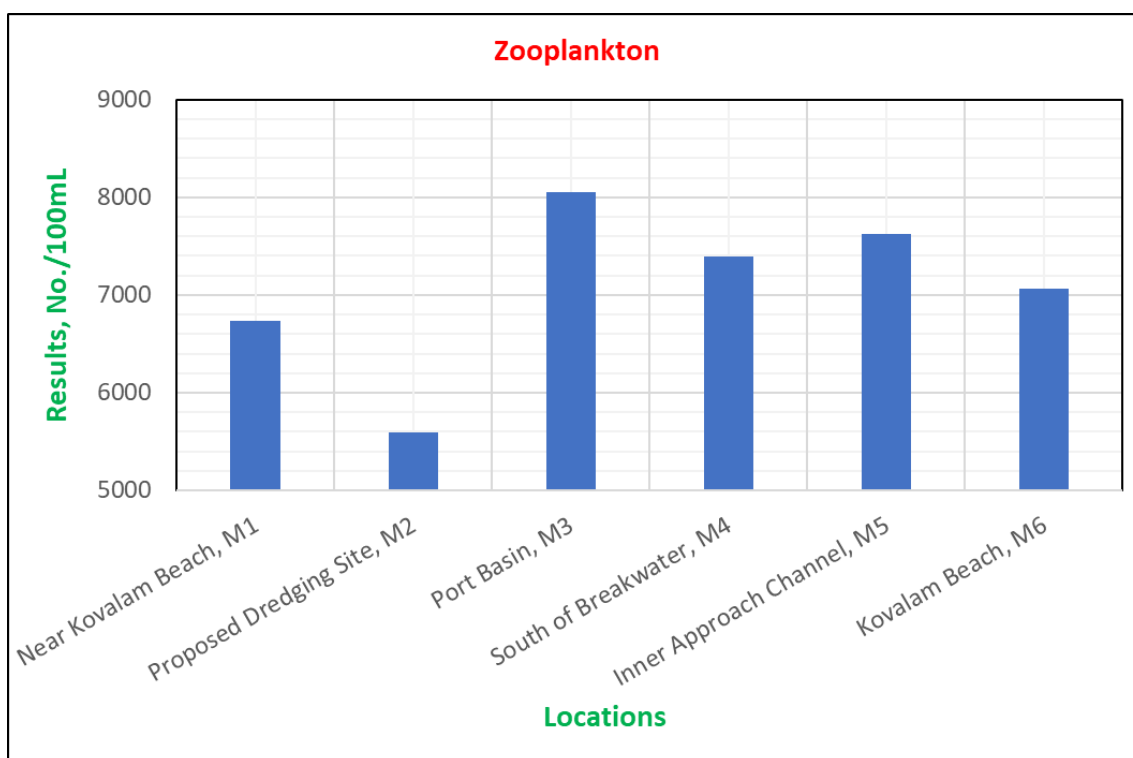




#### 4 c. Phytoplankton Analysis from Marine Samples

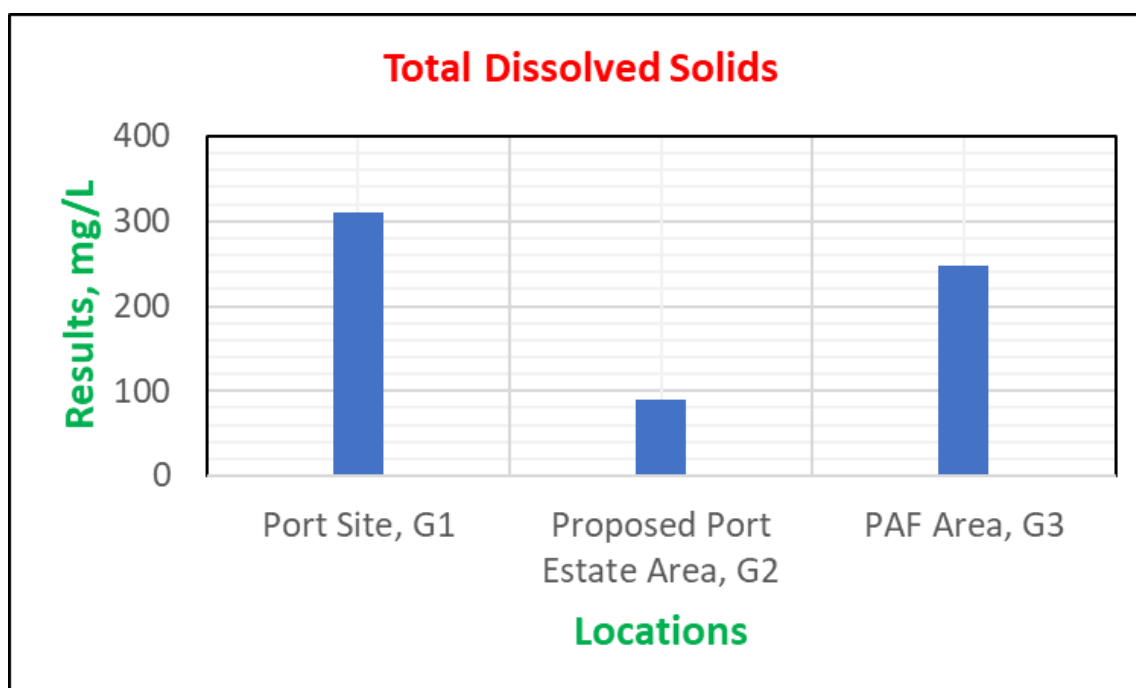
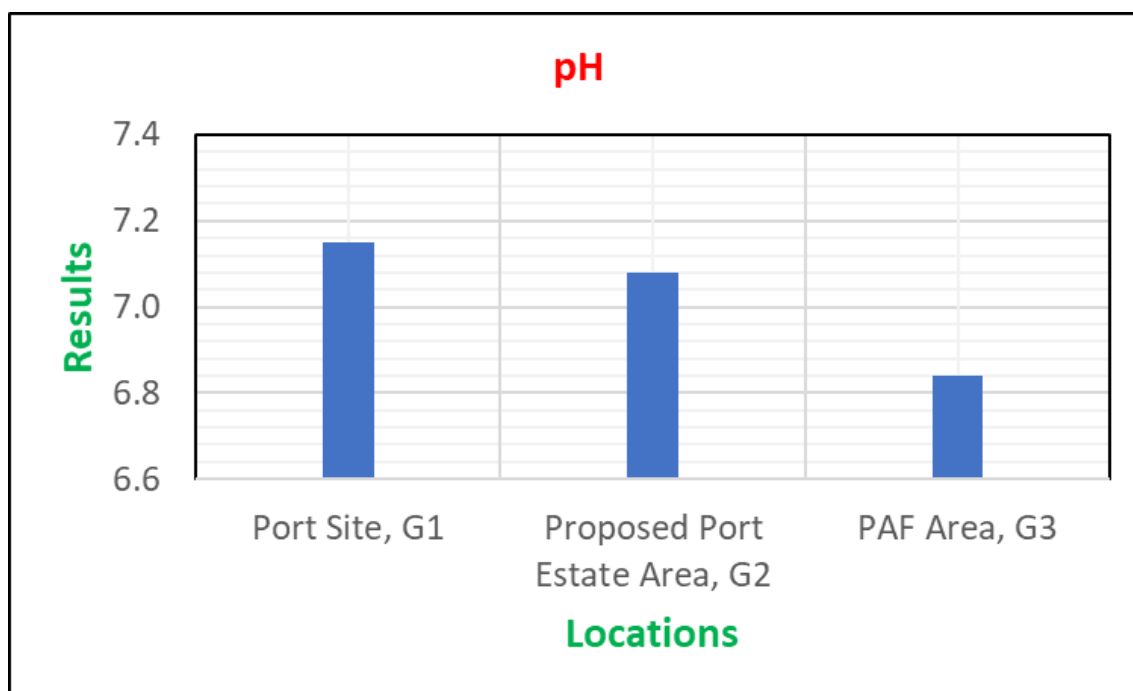


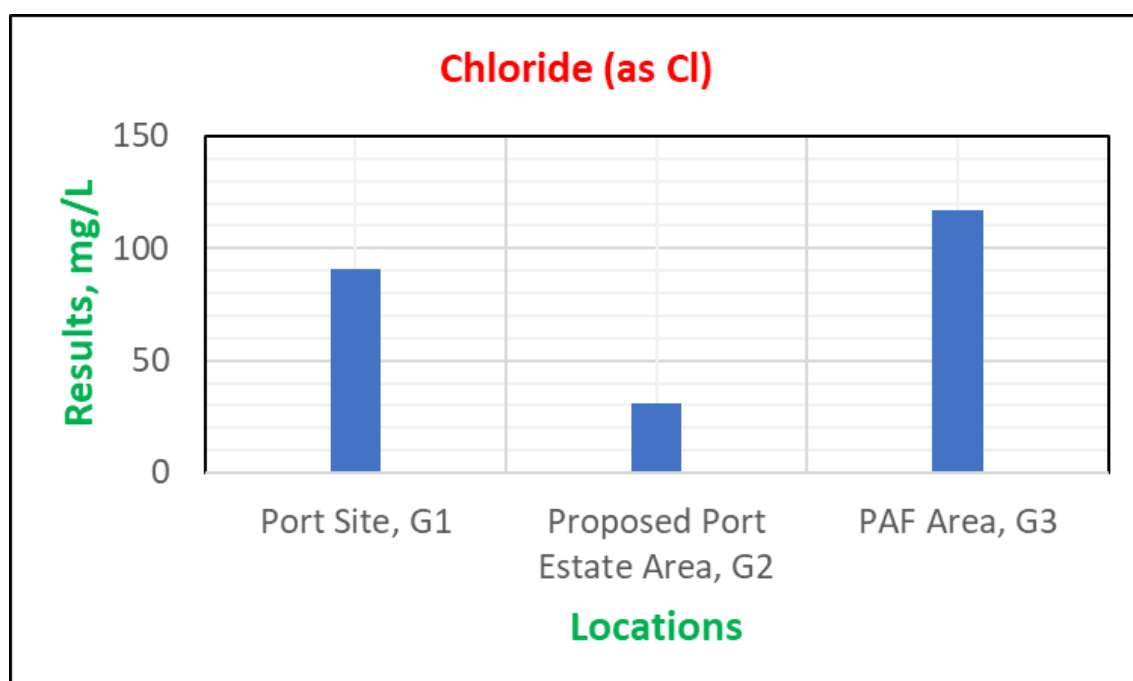
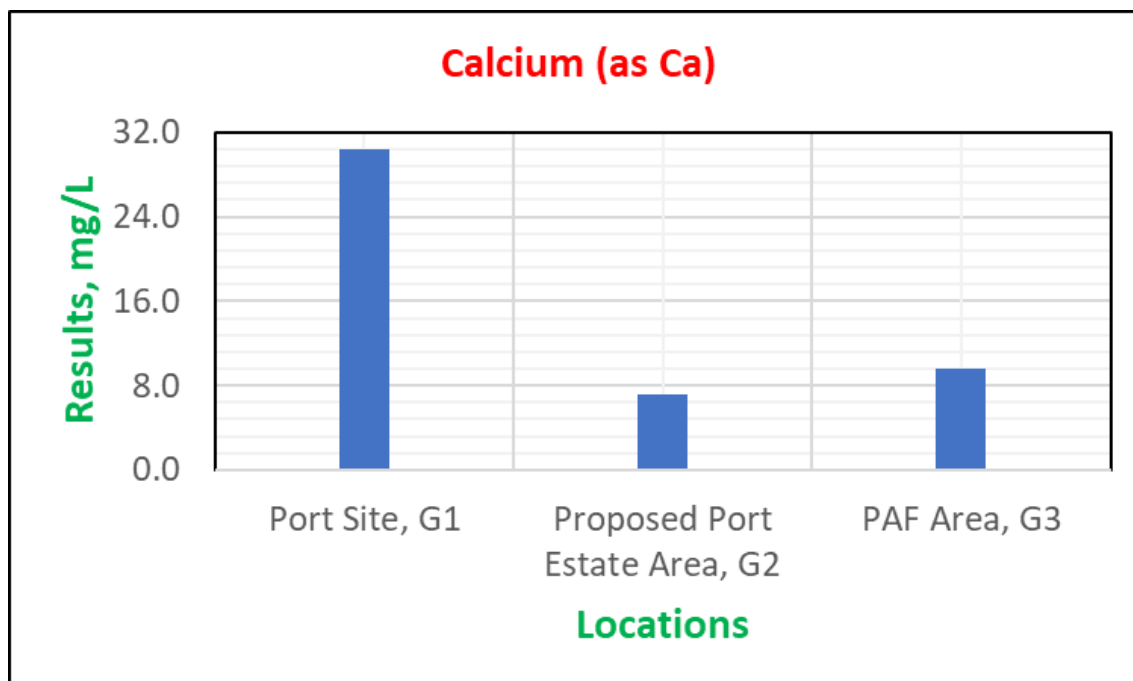
#### 4 d. Zooplankton Analysis from Marine Sample

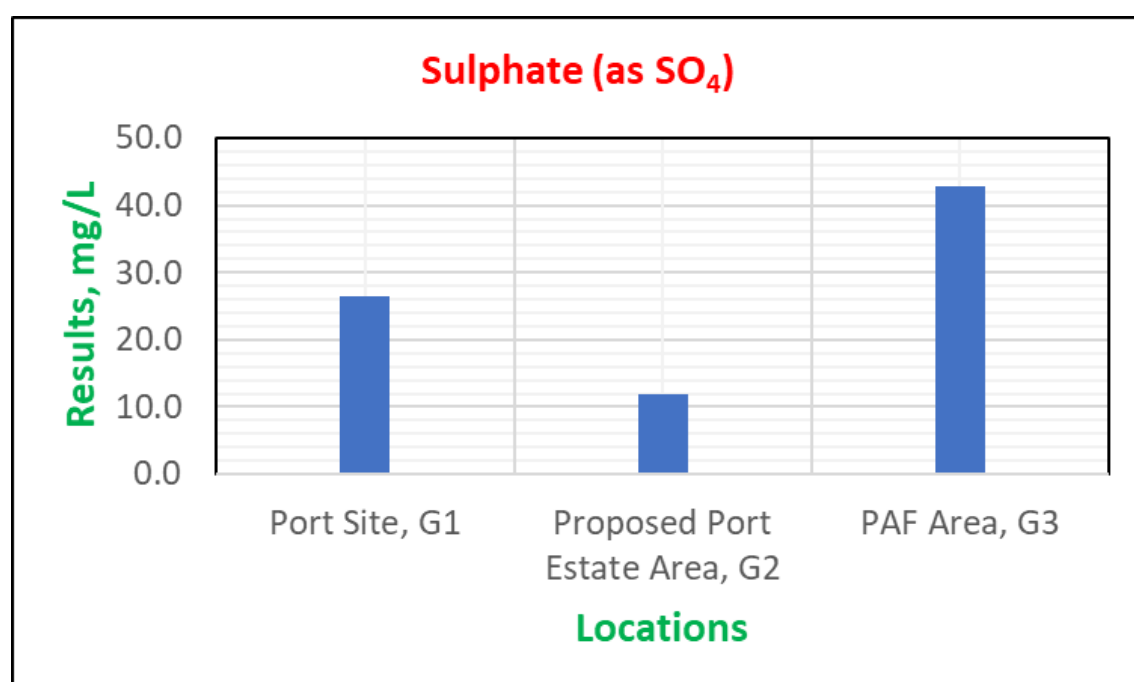
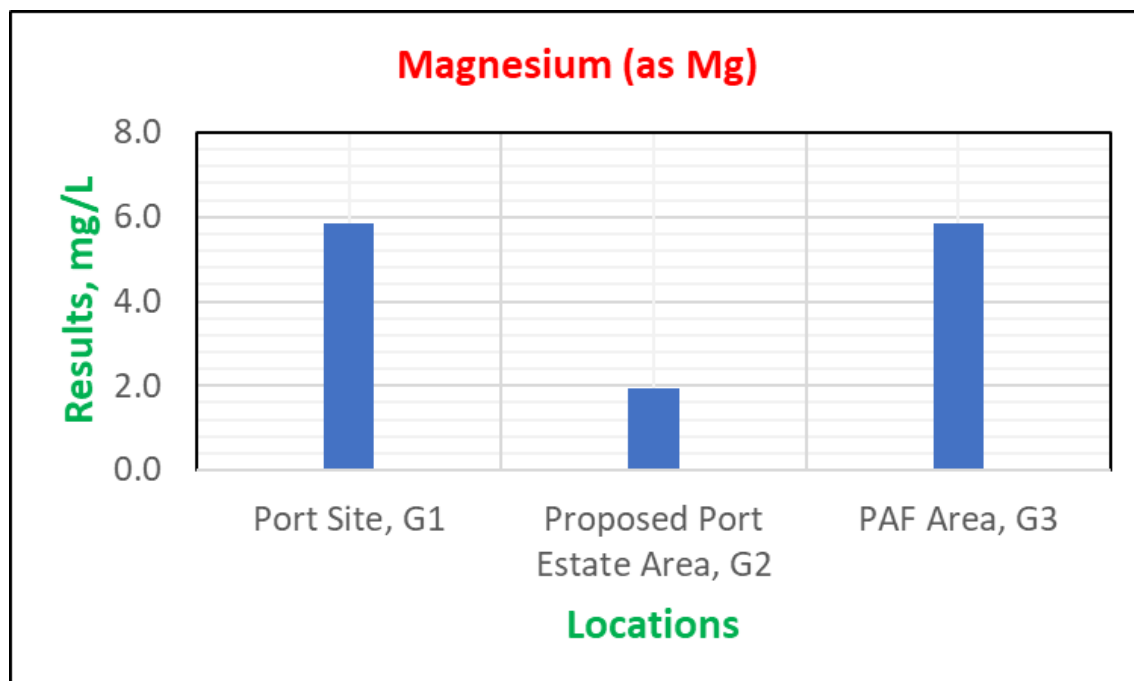


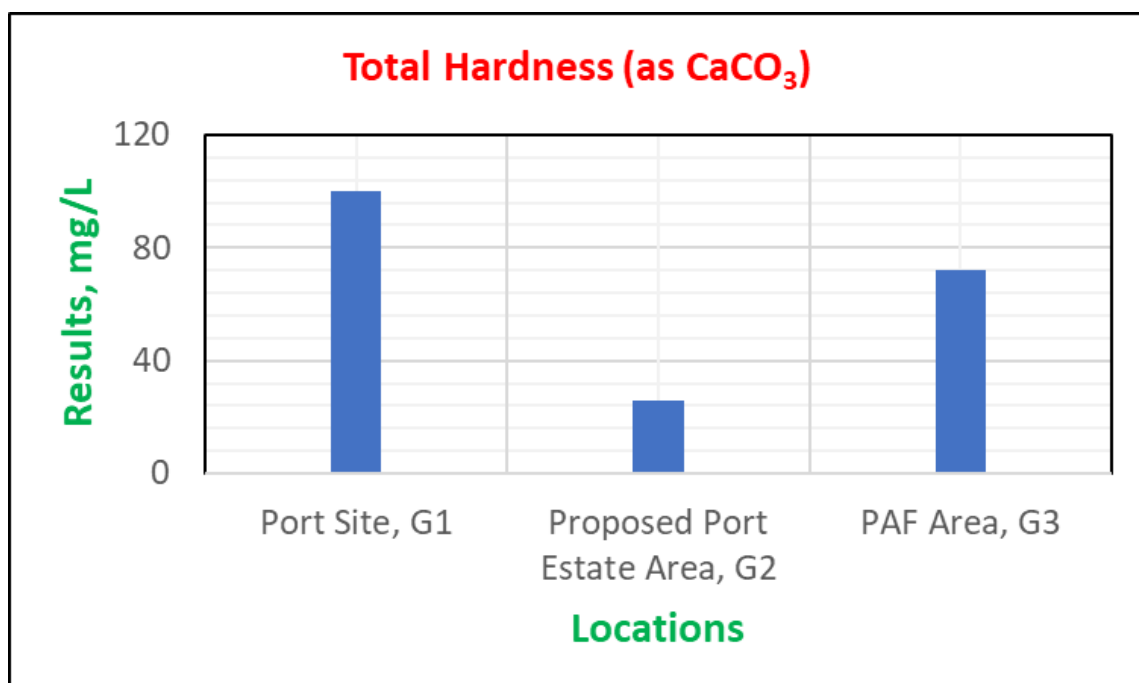
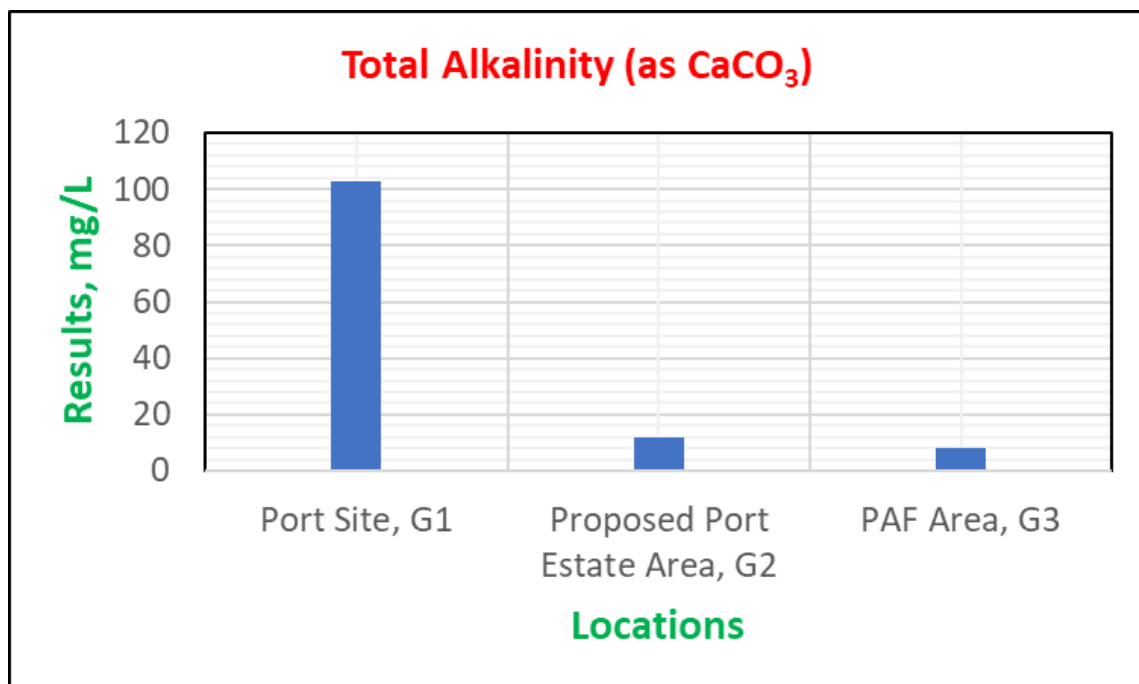


## 5. Groundwater Analysis









## 6. Surface Water Analysis

