

# Environment Monitoring Report



## Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

August – 2021

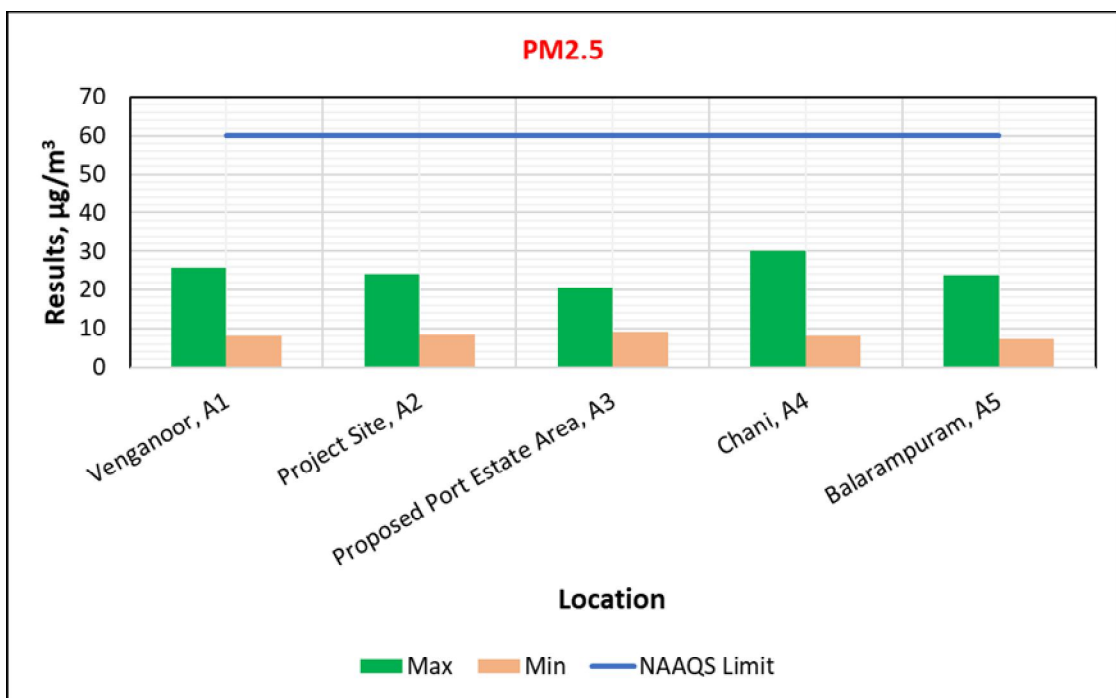
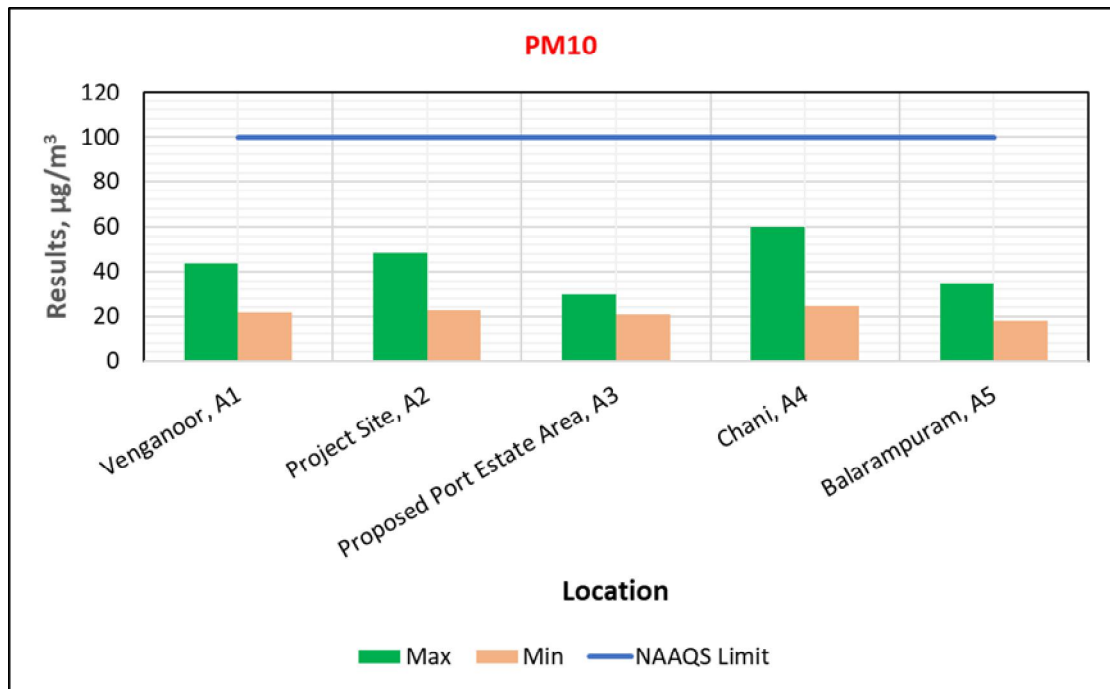
## Environment Monitoring Locations:

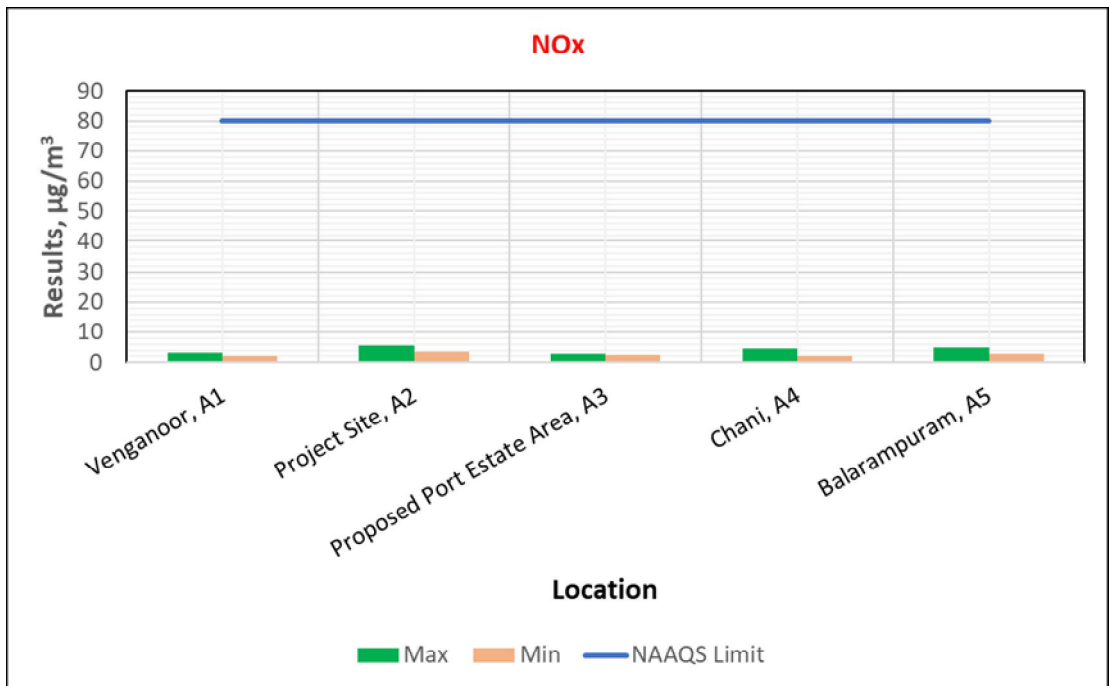
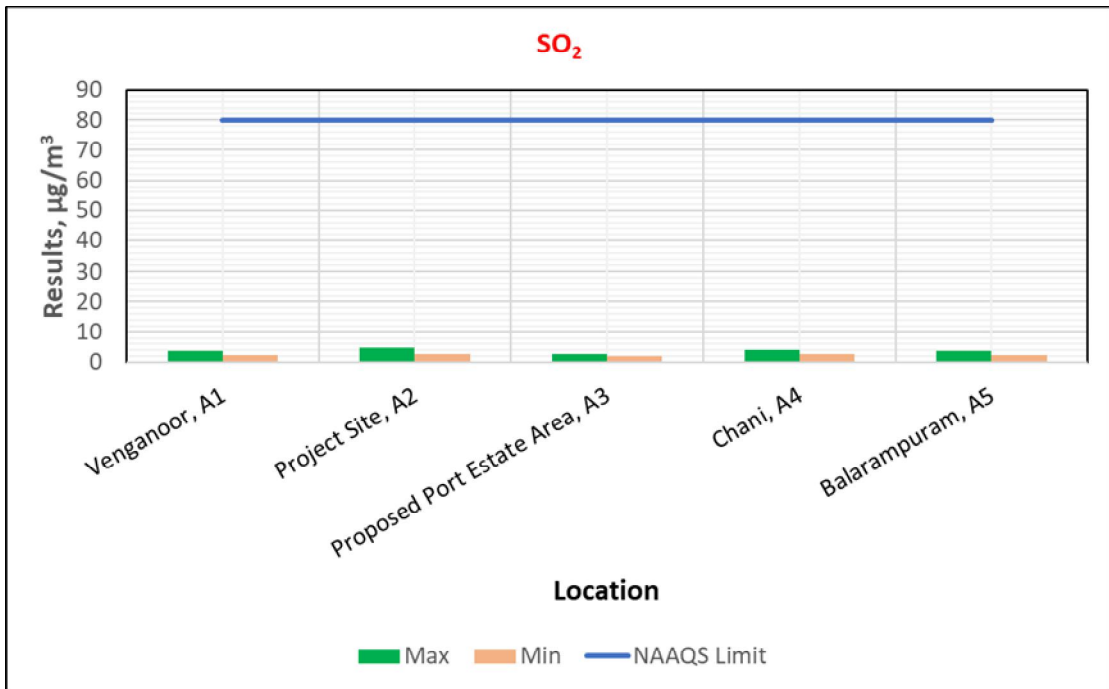
| Sl. No. | Environmental Attribute        | Location                                    |
|---------|--------------------------------|---|
| 1.      | Ambient Air Quality Monitoring | Port Site (A1)                              |
|         |                                | Proposed Port Estate Area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

## 1. Summary

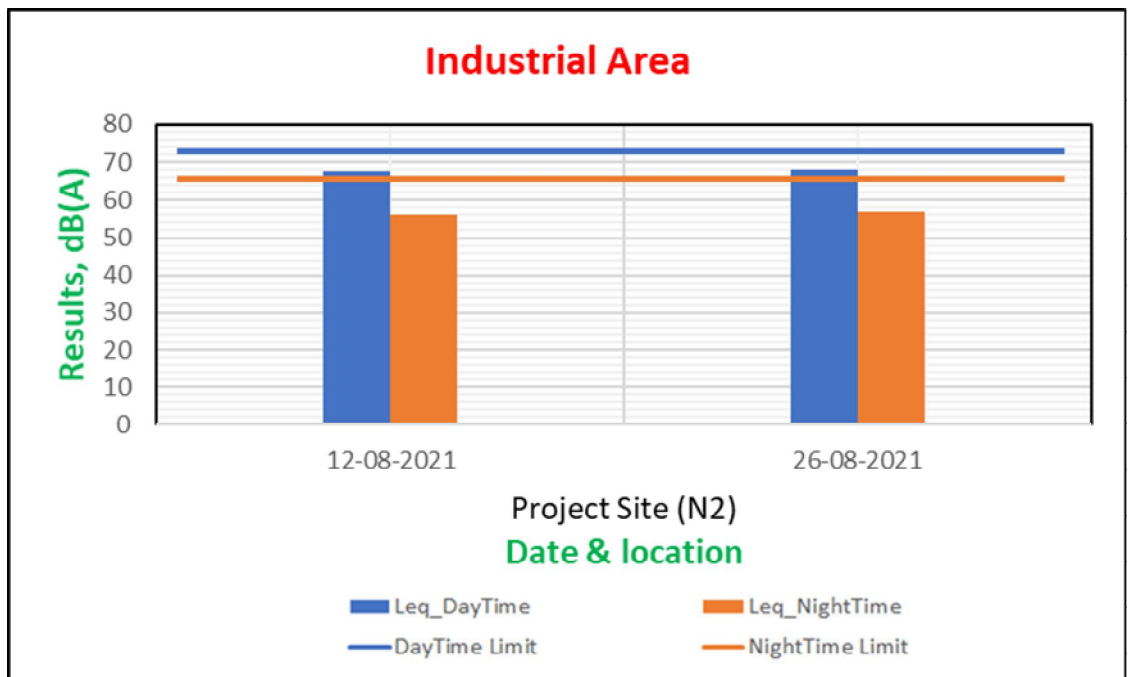
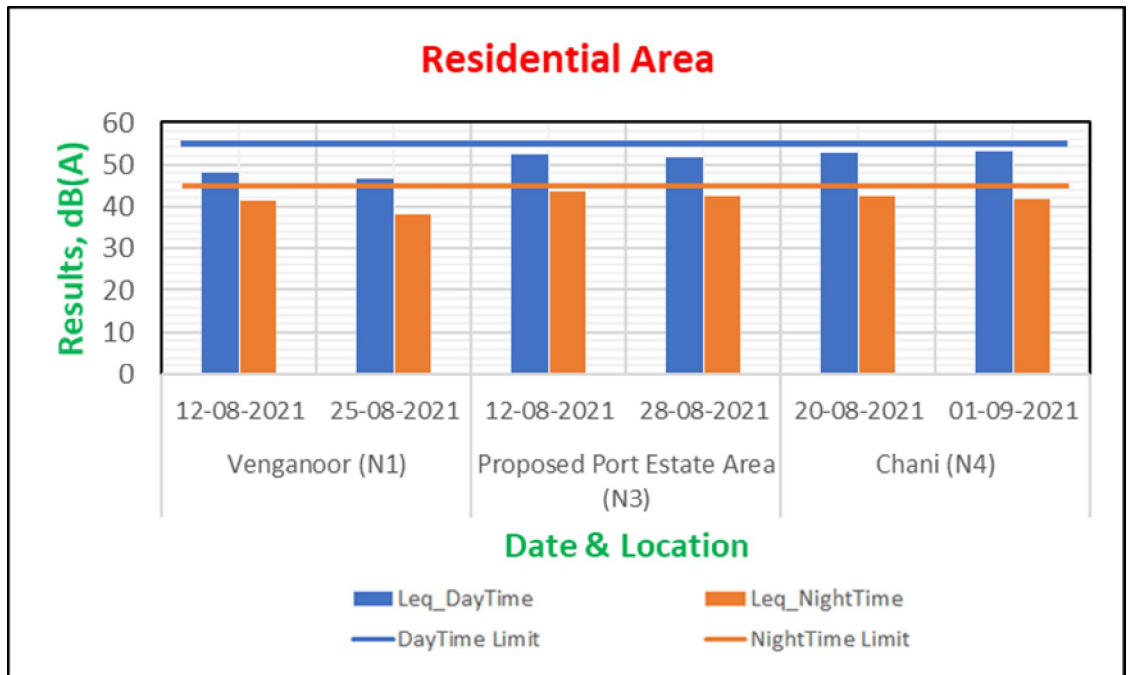
- The ambient air quality monitoring results were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations during the month of August 2021.
- Noise readings were within limits at all the monitoring locations during the month of August 2021.
- Marine water and sediment samples were not collected in the month of August 2021 due to rough sea conditions.
- All the parameters at all locations excluding the parameters such as TDS, Chloride & Nitrate at the port project site location were within the acceptable limits as per IS 10500:2012
- Surface water results were observed to be comparable with the baseline.

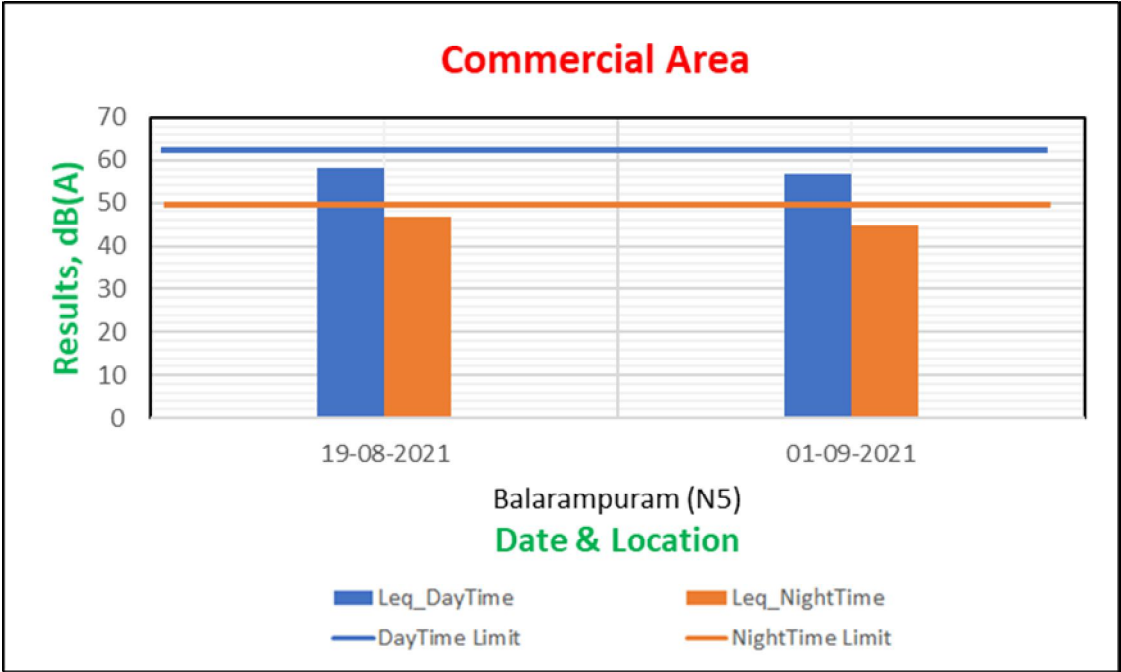
## 2. Ambient Air Quality





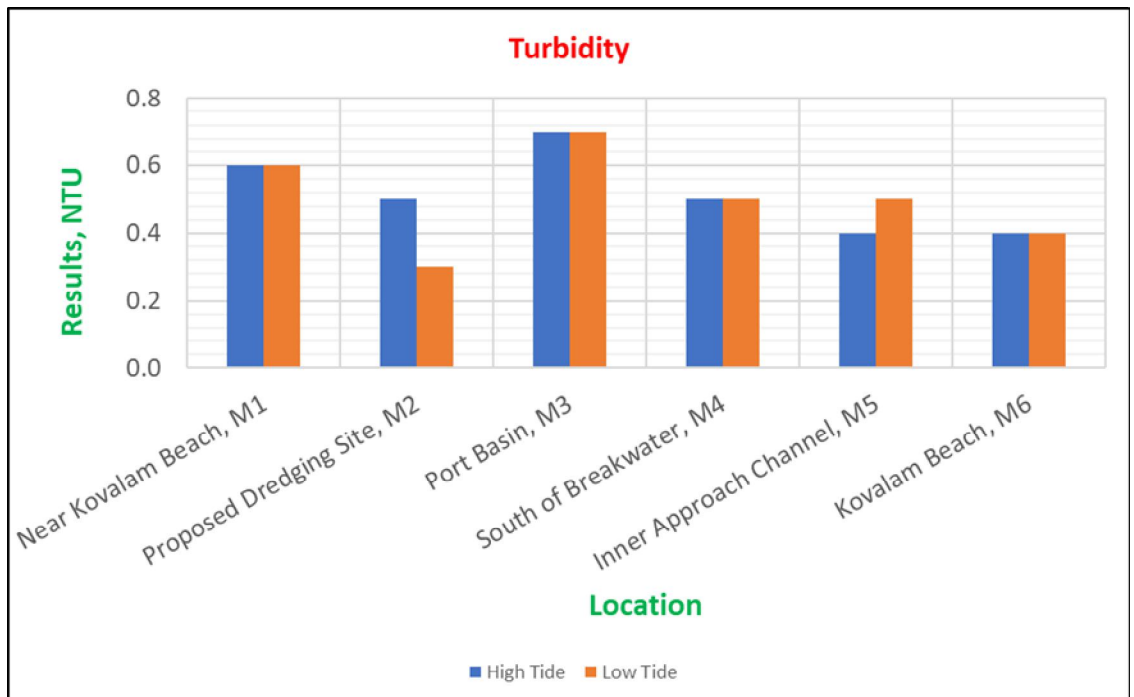
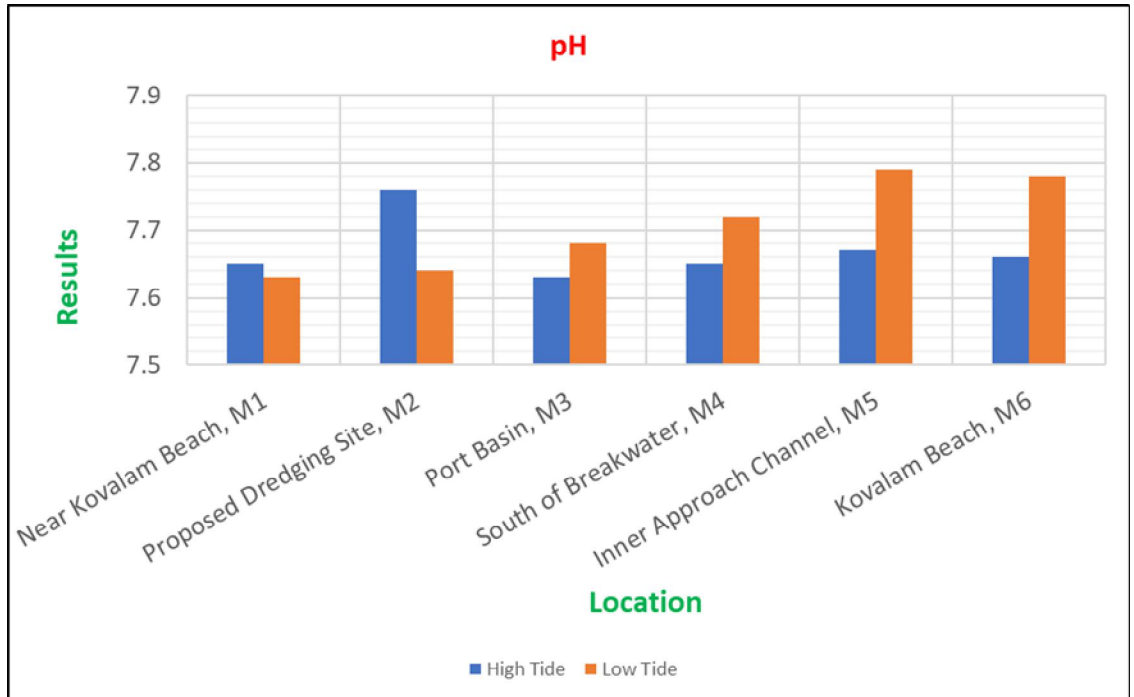
### 3. Ambient Noise



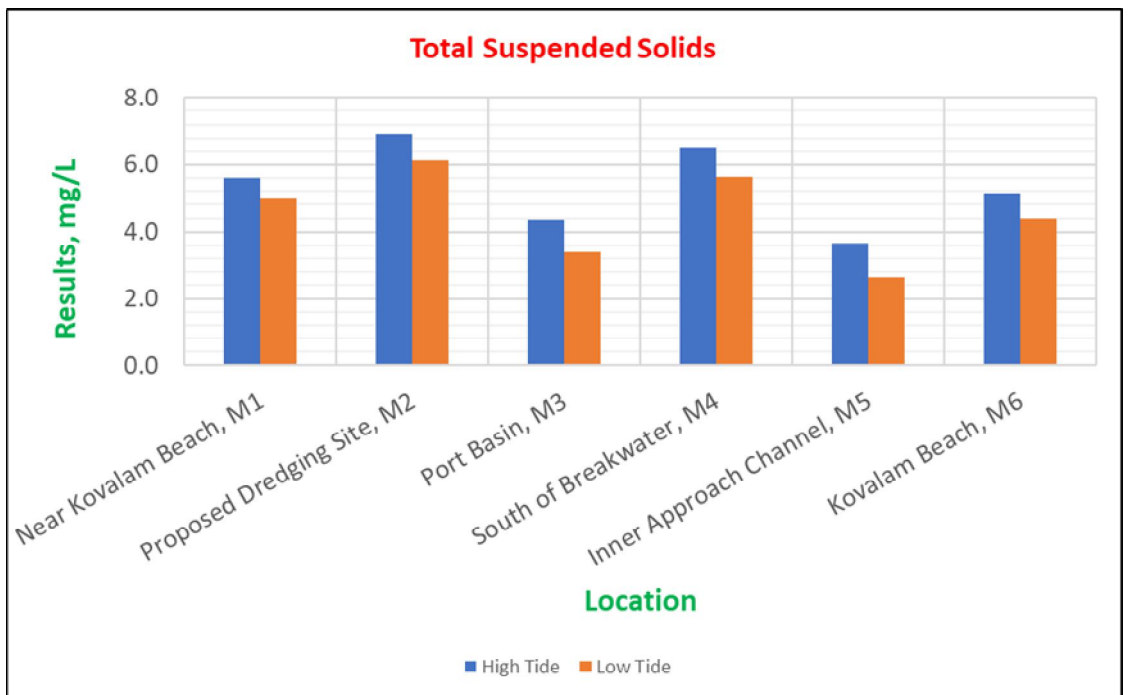
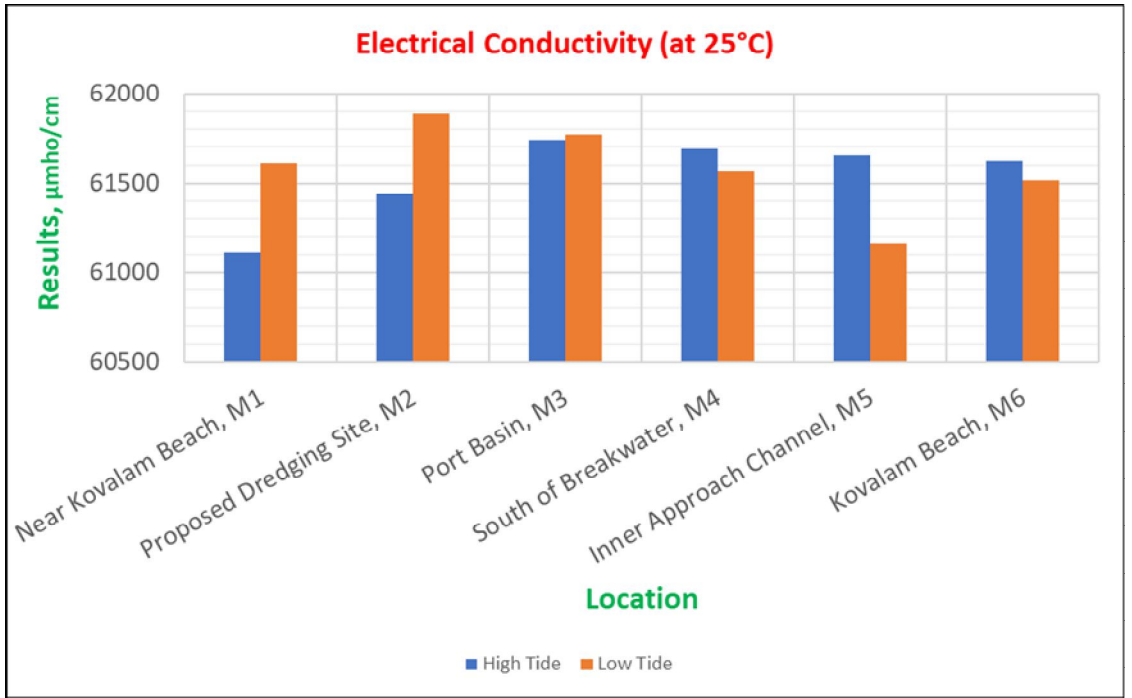


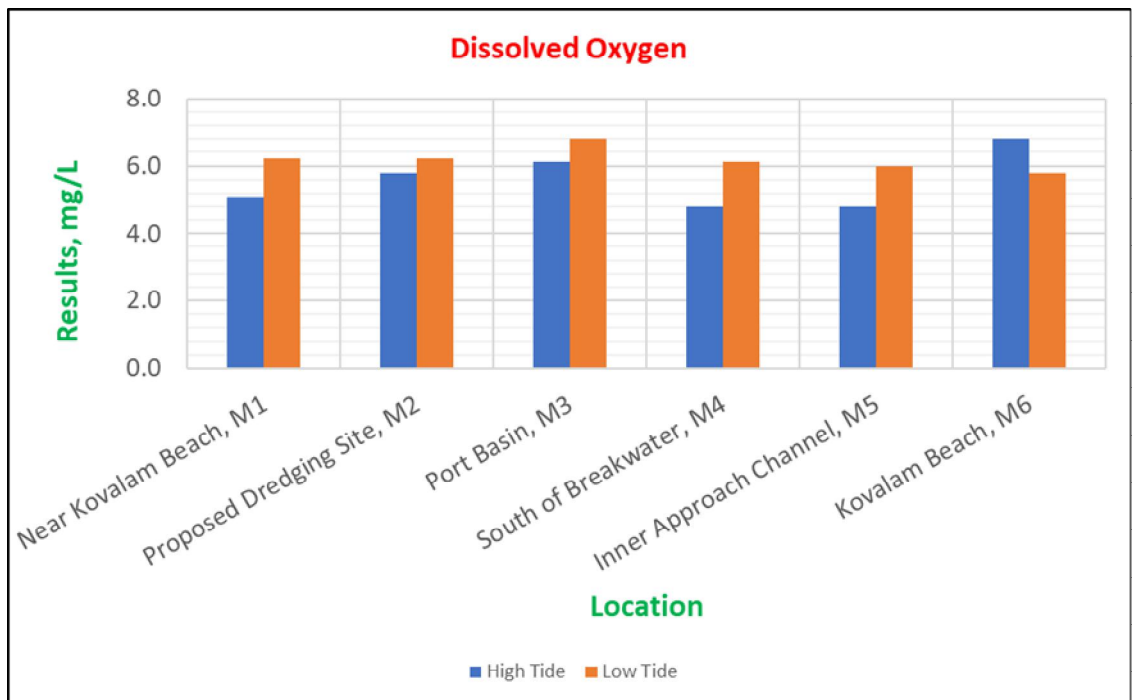
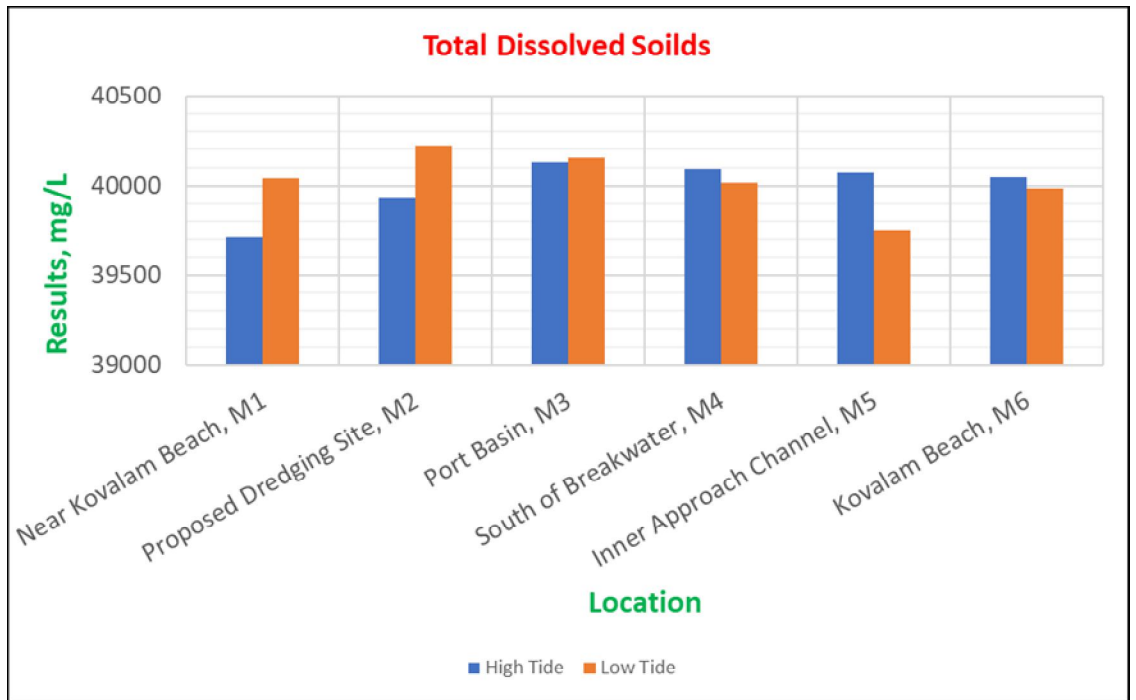
## 4. Marine Survey

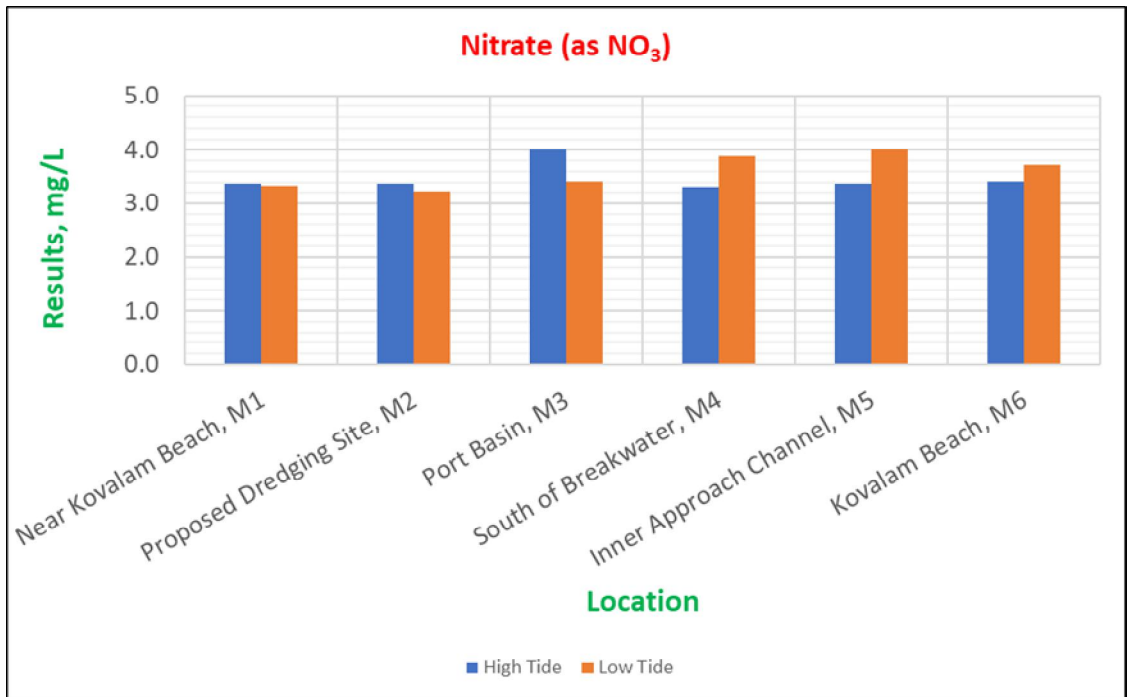
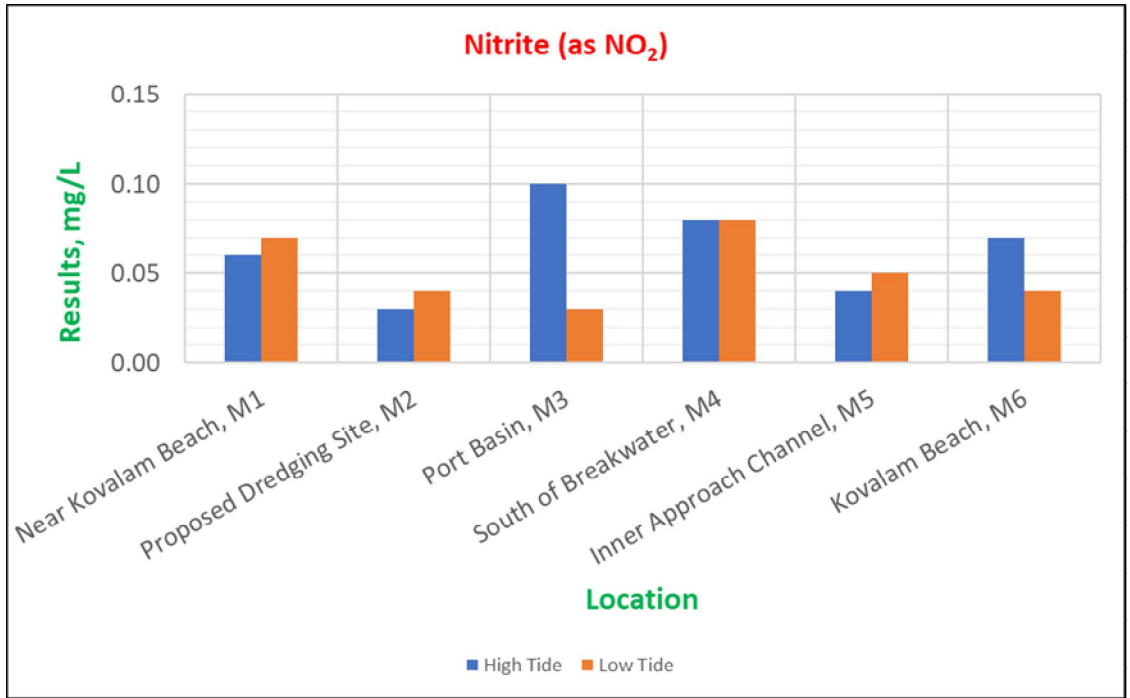
### 4 a. Marine Water Analysis

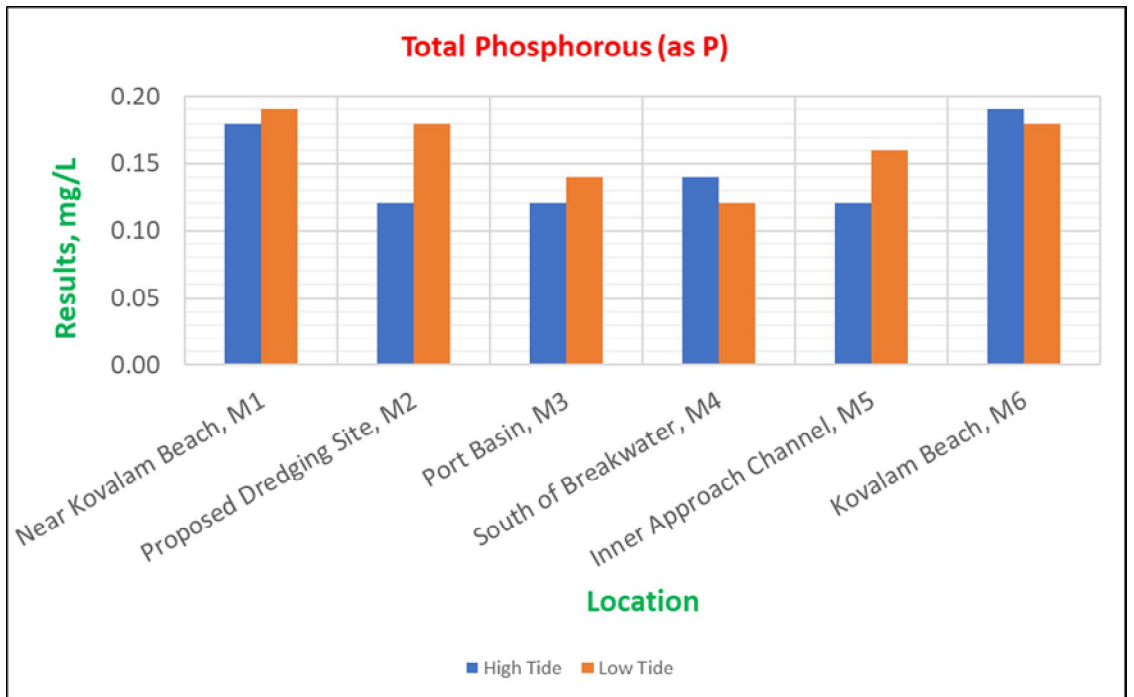
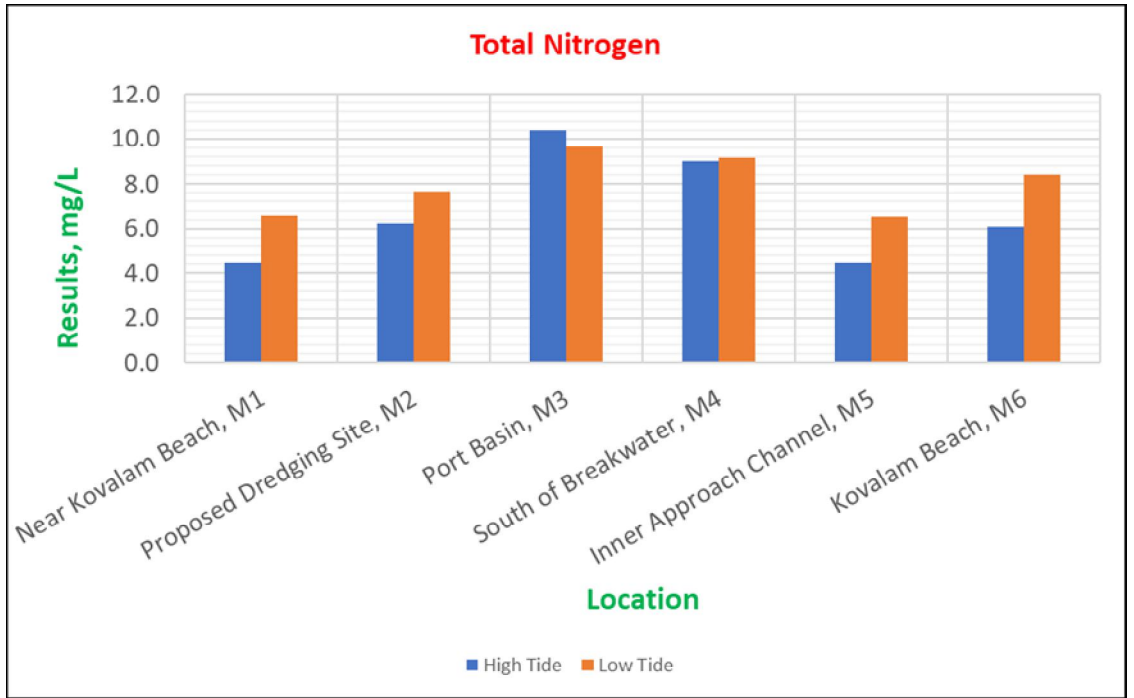






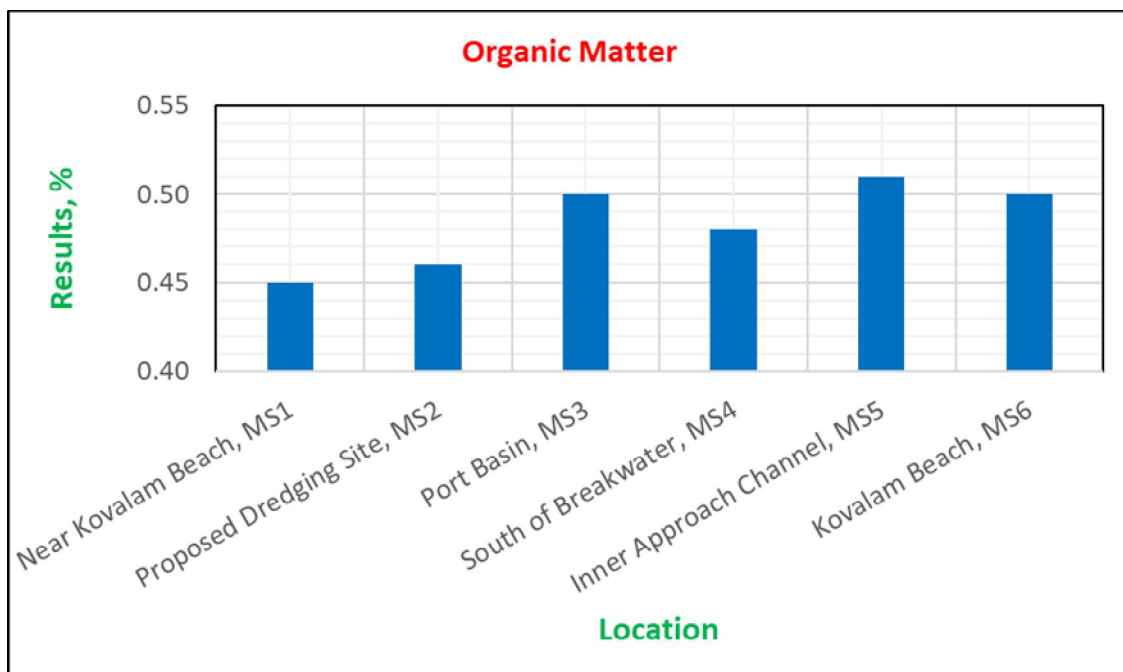


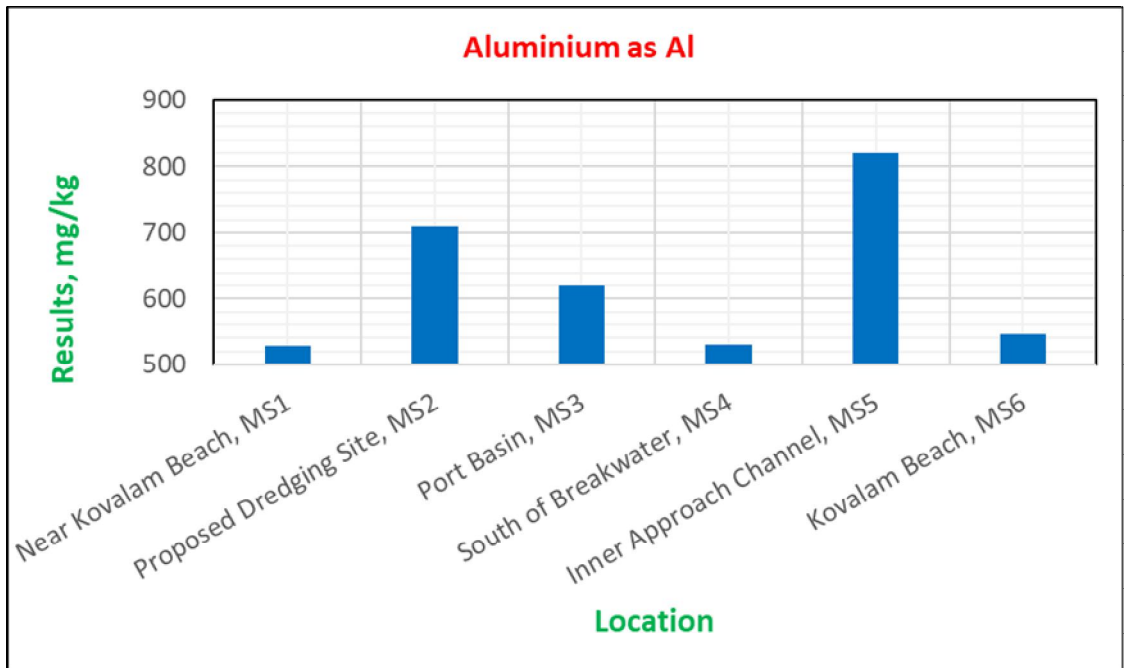
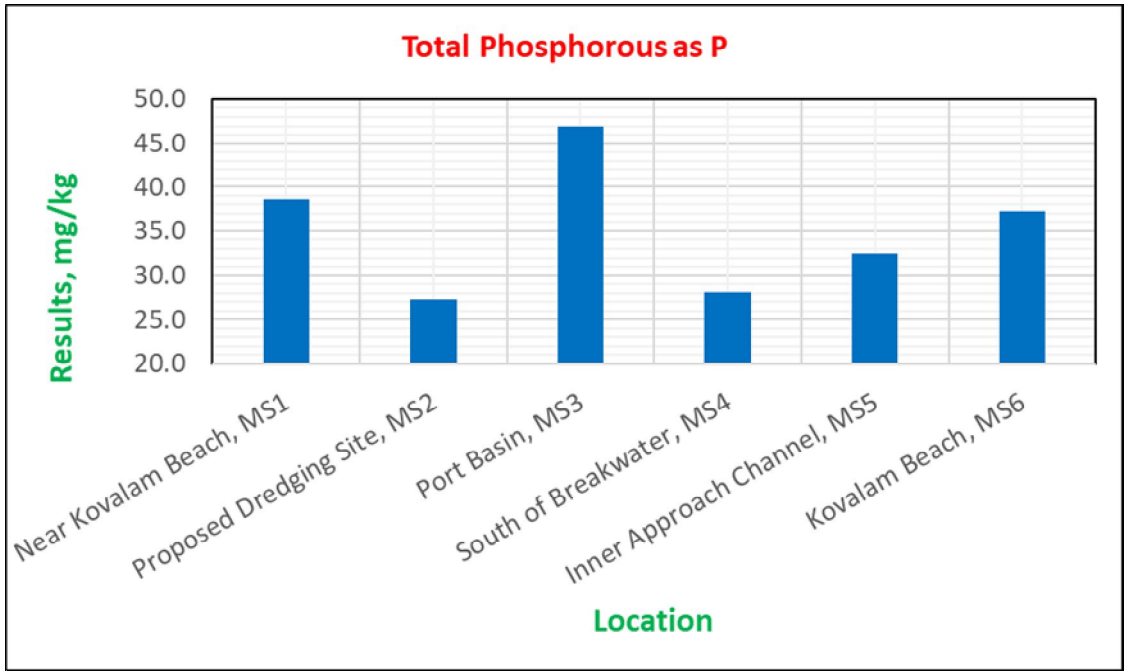


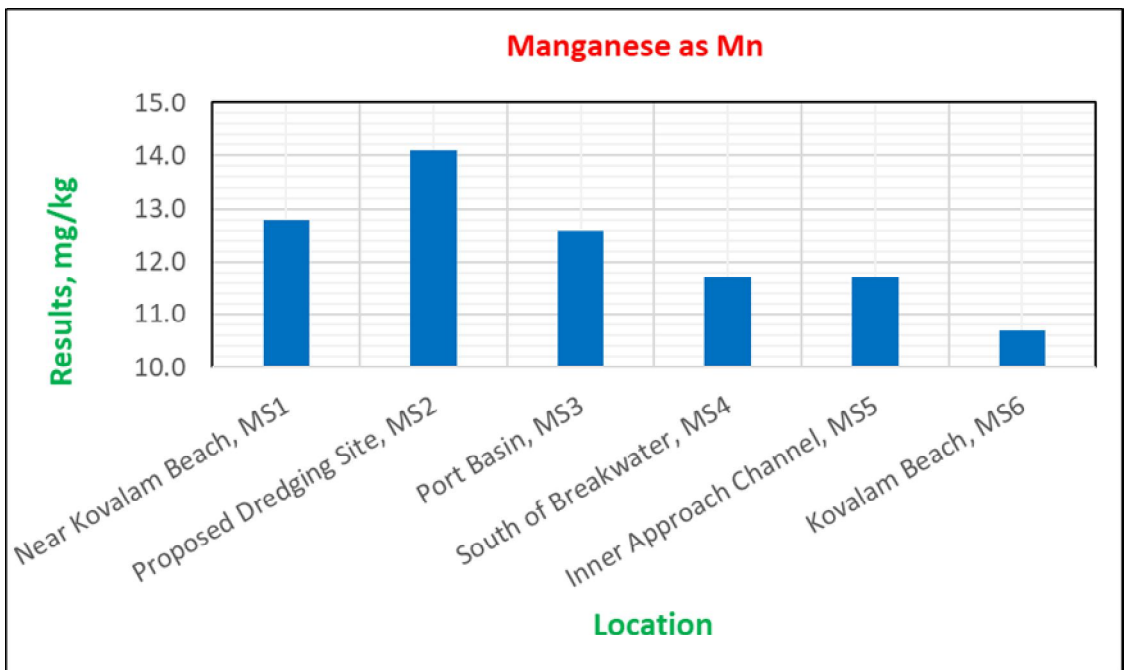
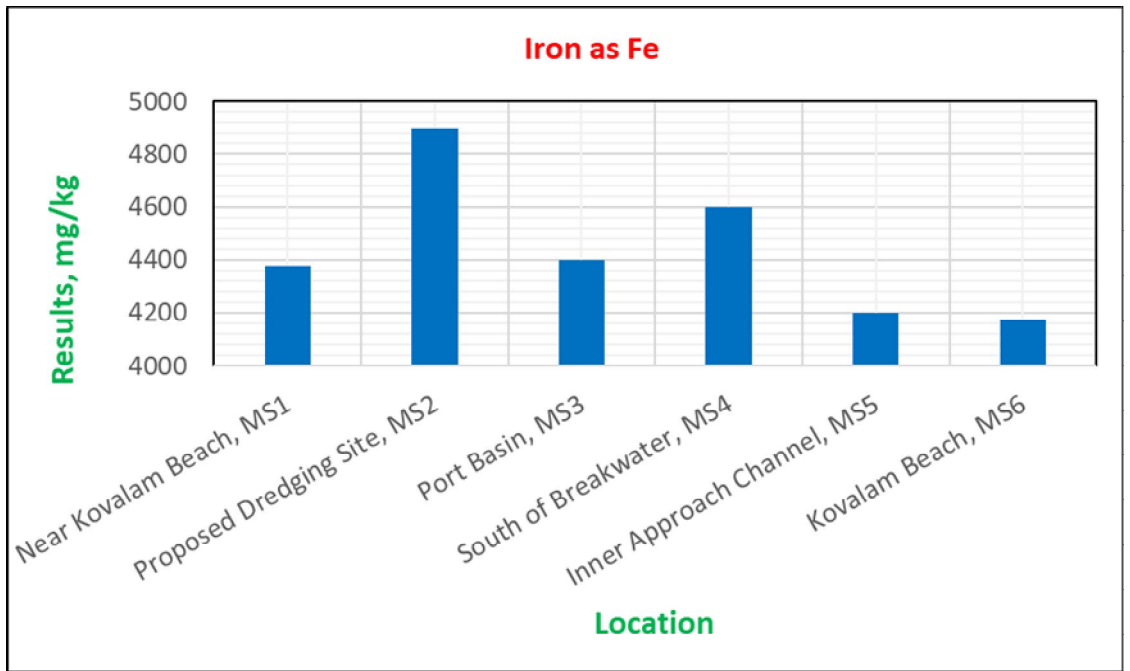


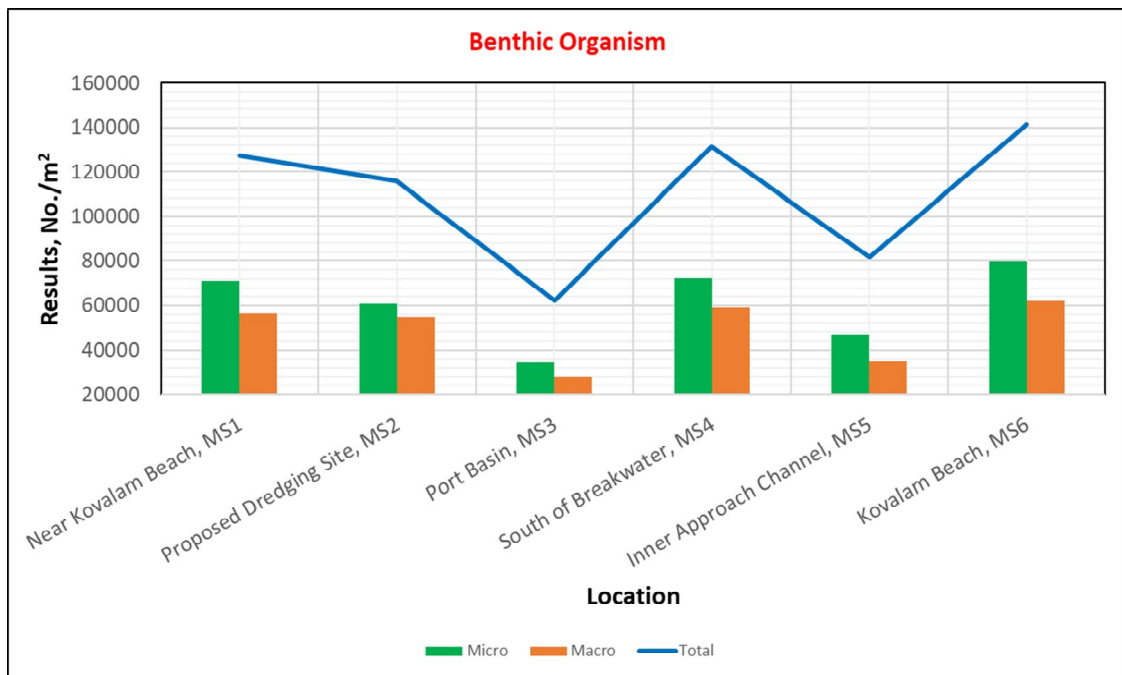
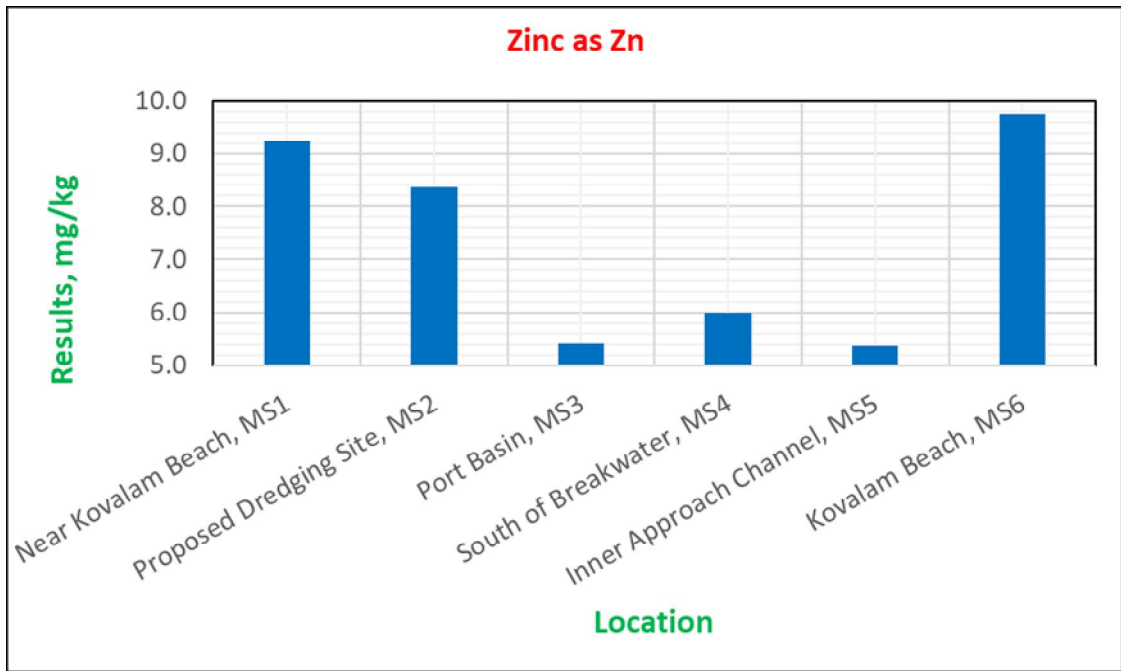


#### 4 b. Sediment Analysis



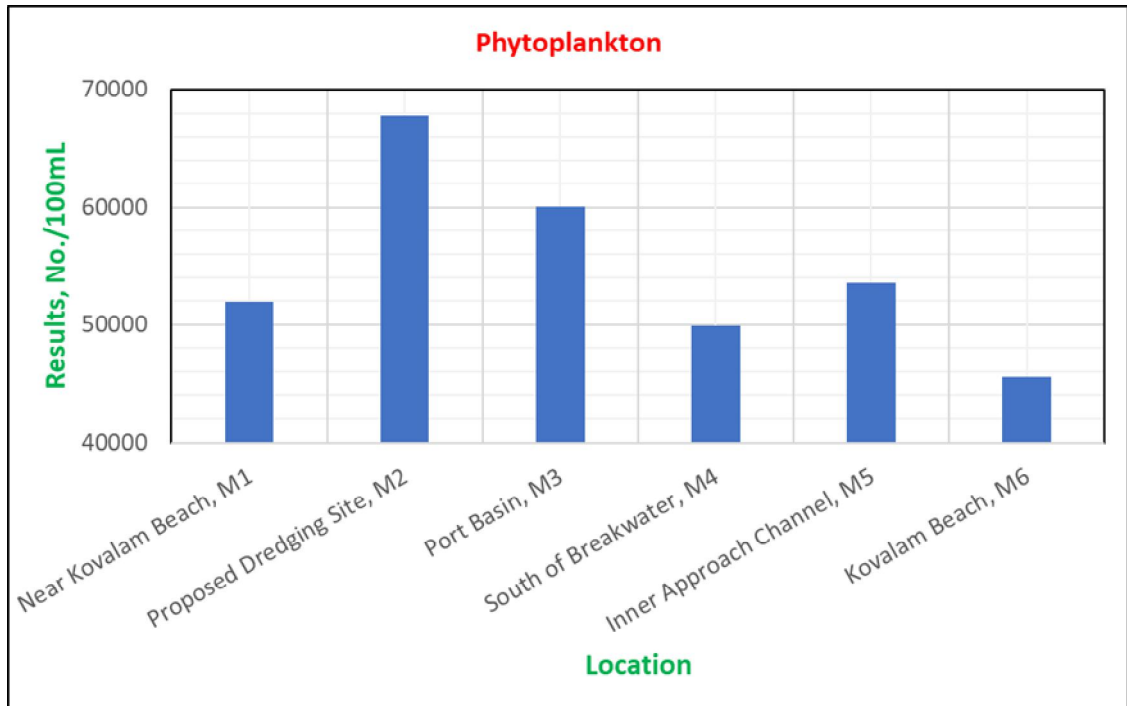




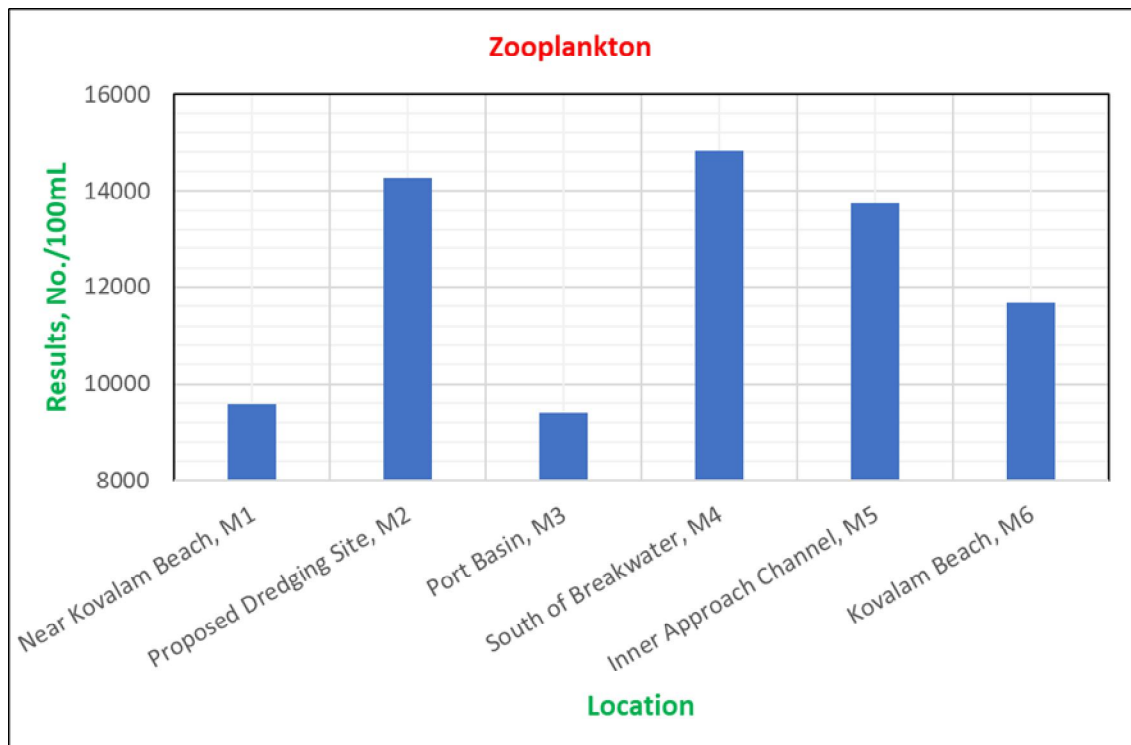




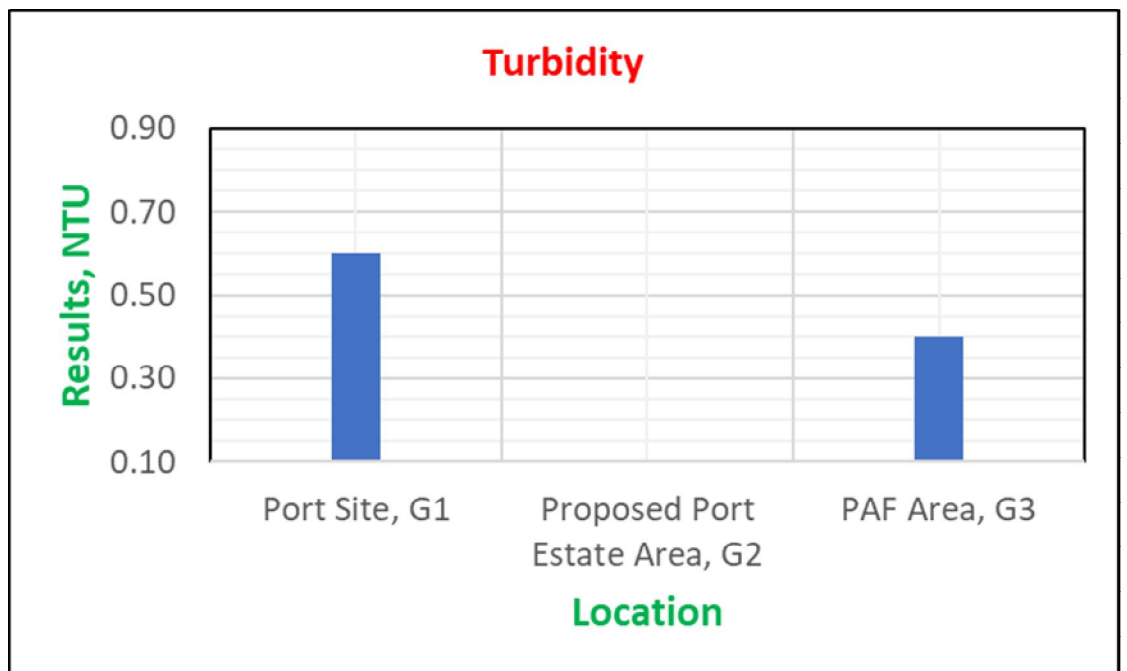
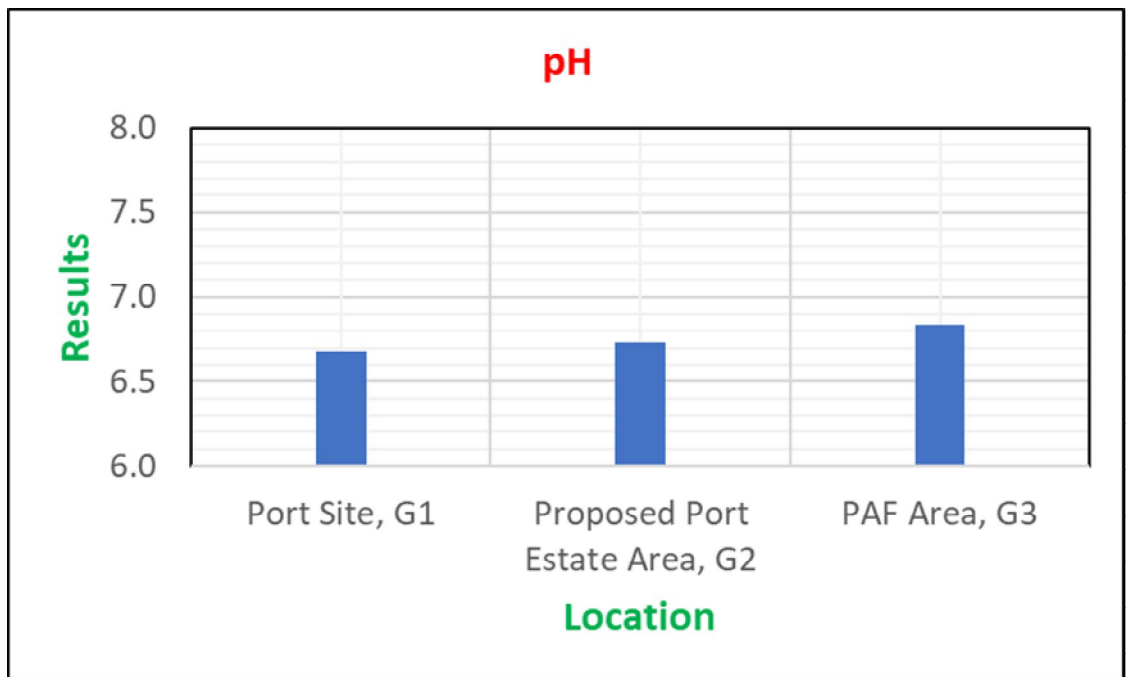
#### 4 c. Phytoplankton Analysis from Marine Samples

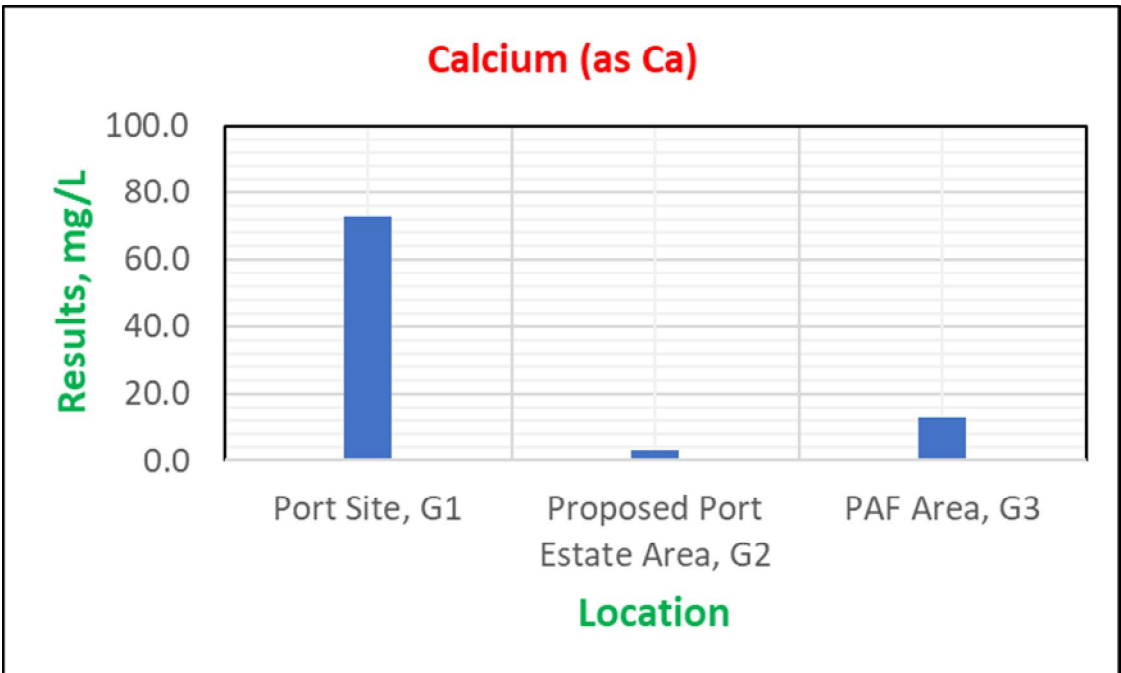
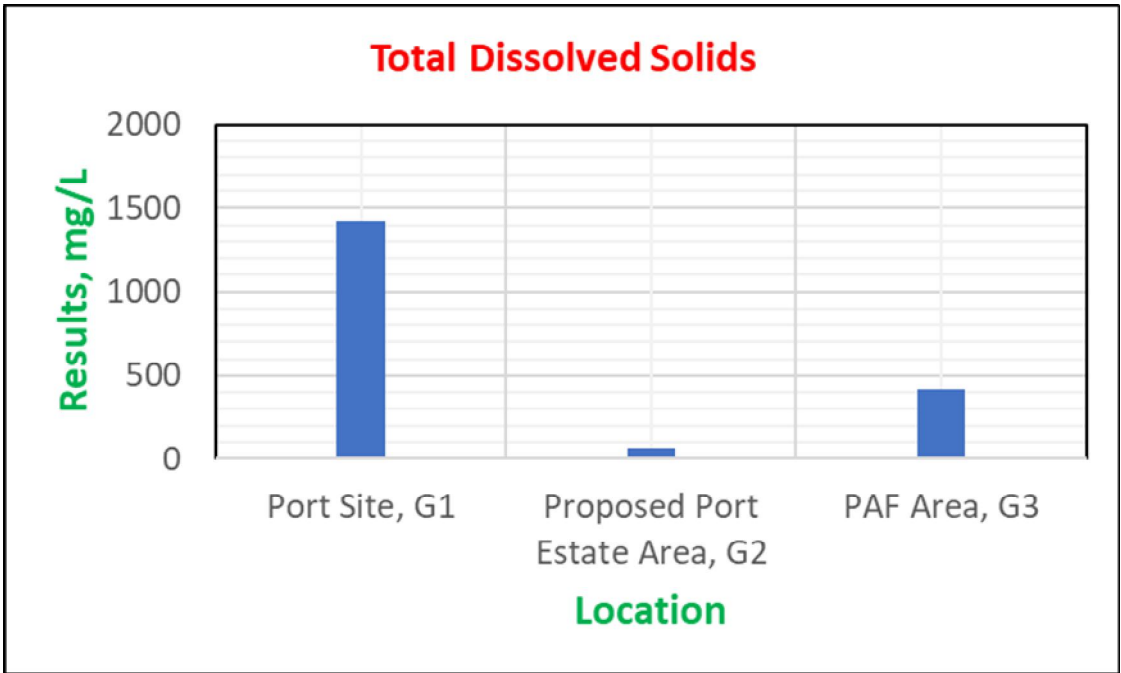


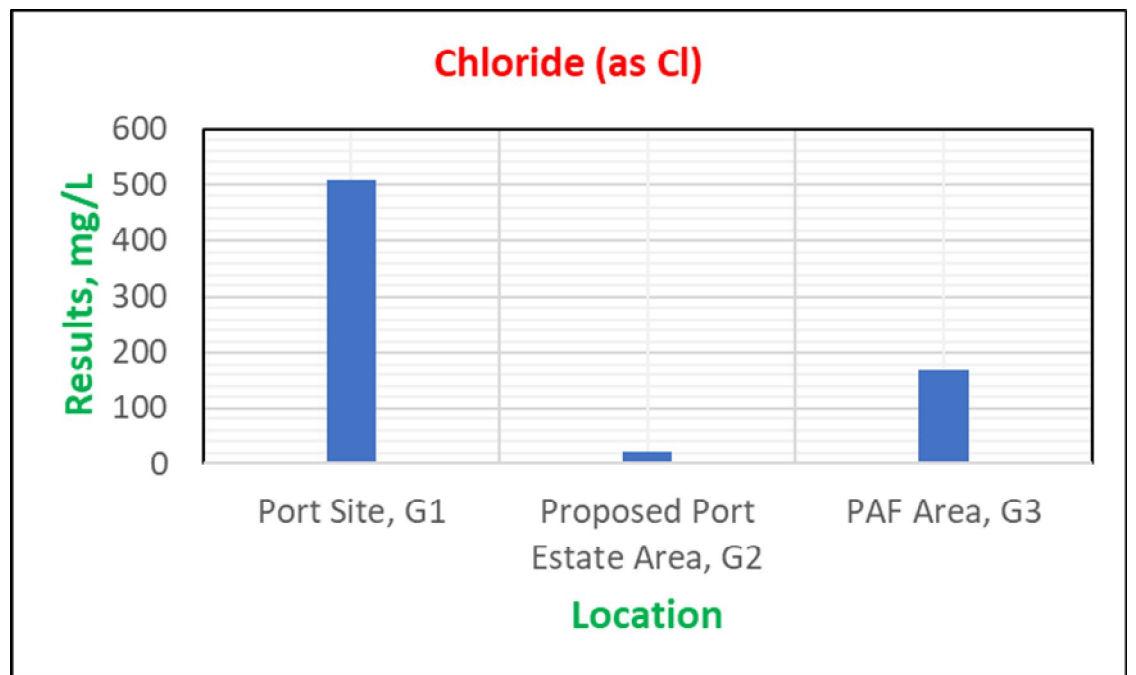
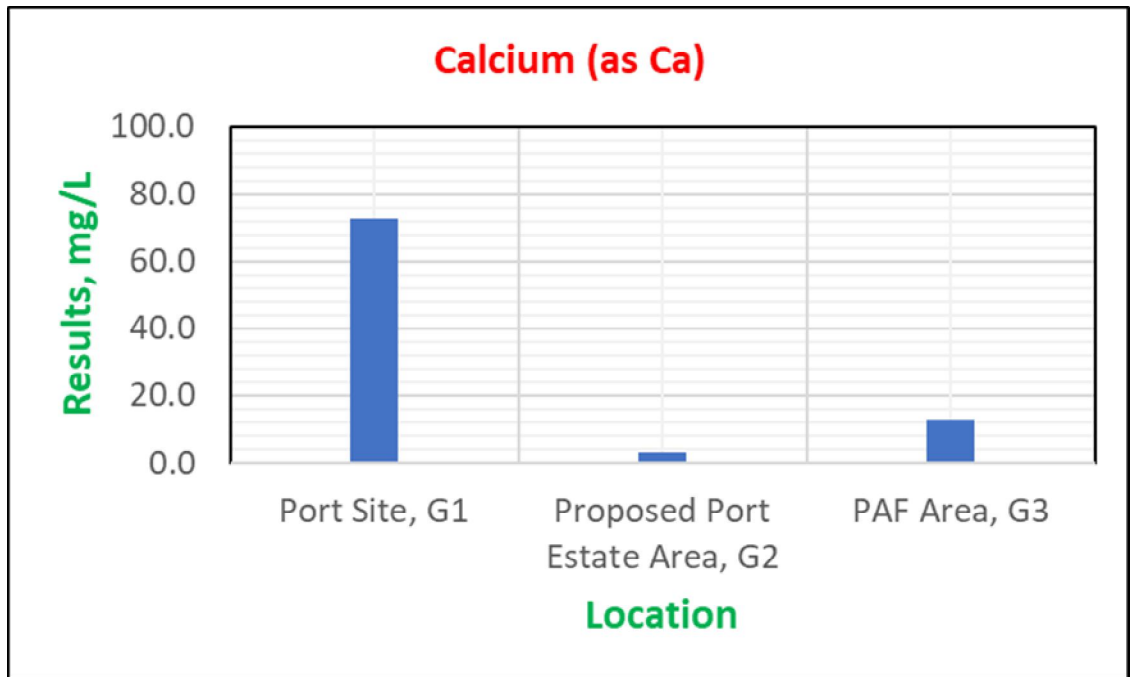
#### 4 d. Zooplankton Analysis from Marine Sample

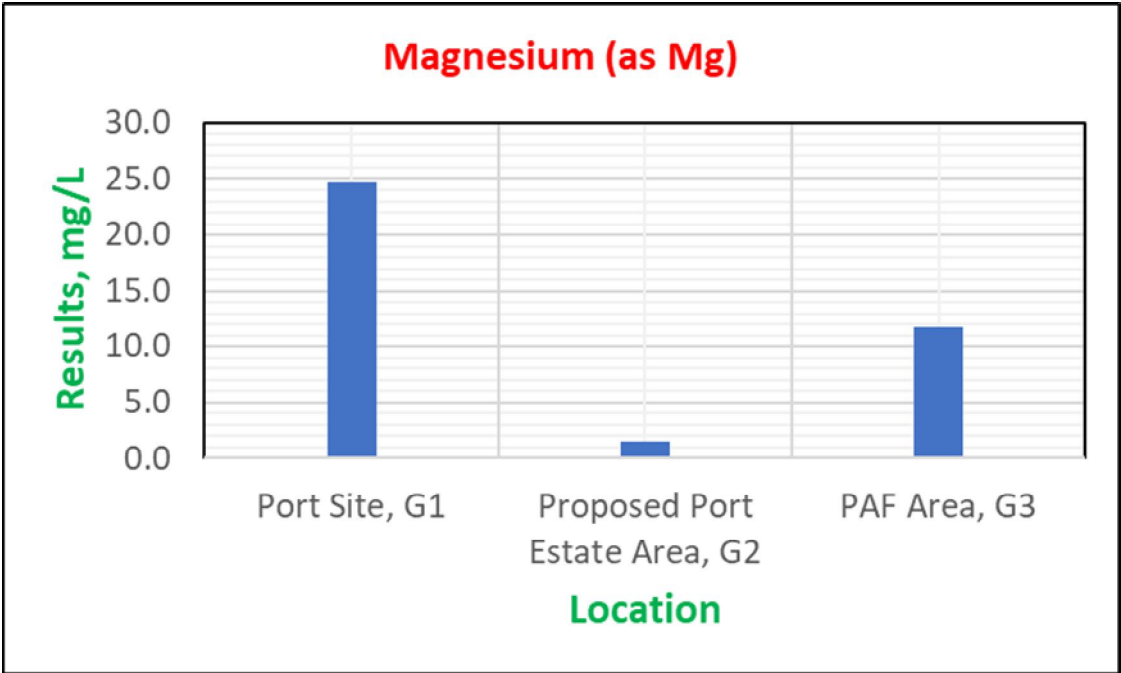
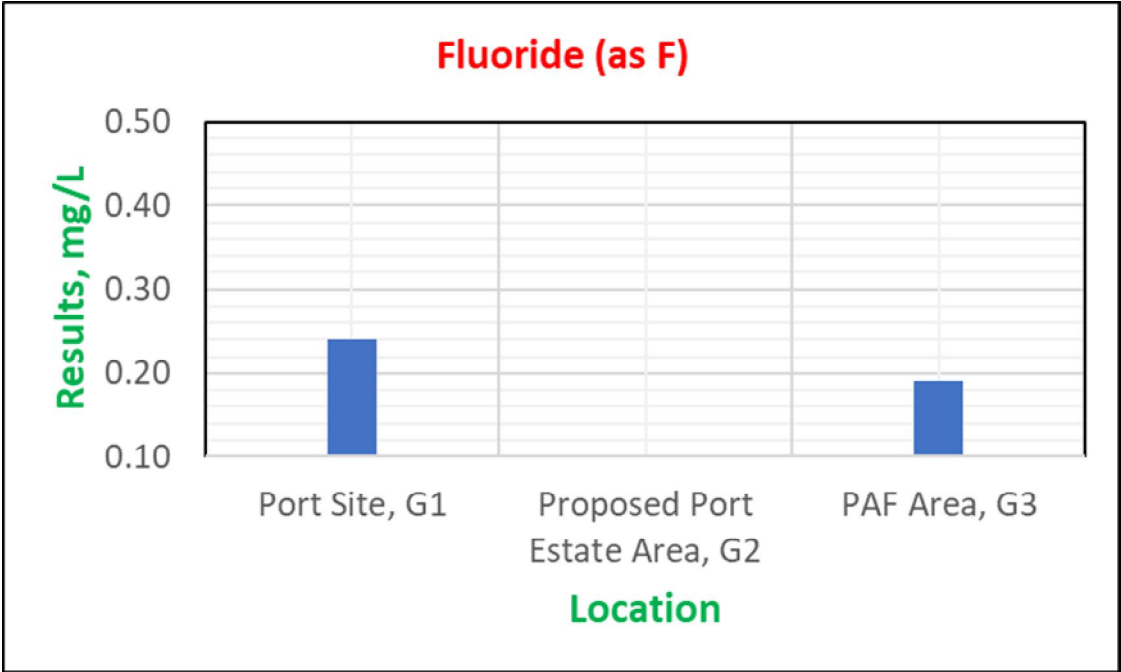


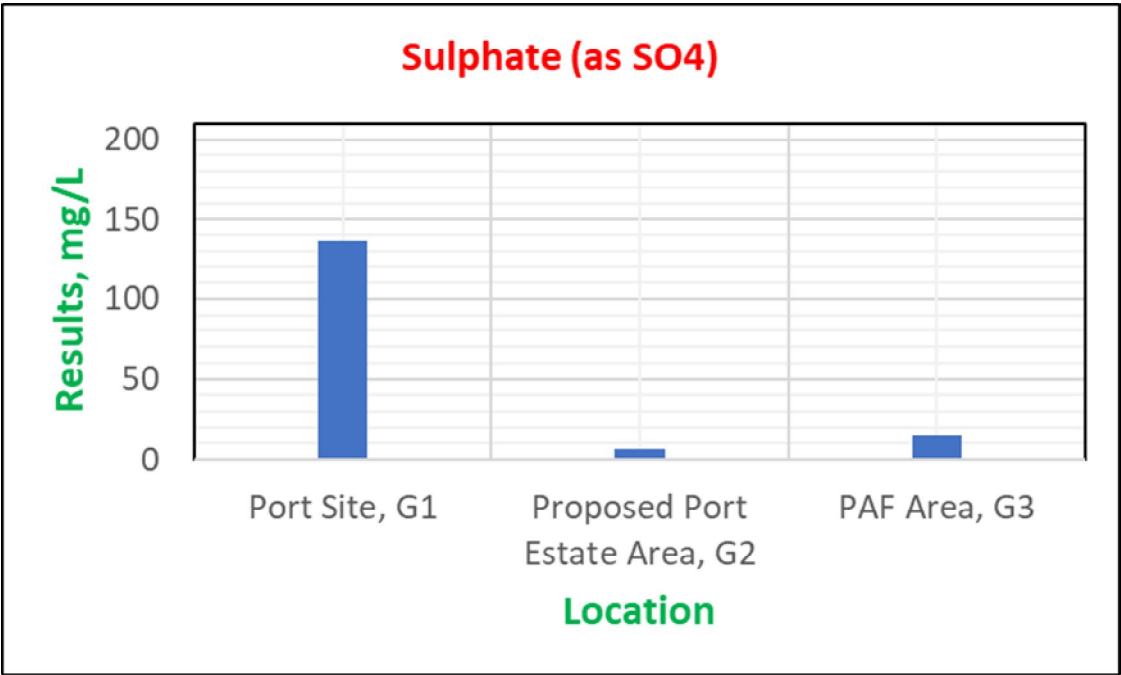
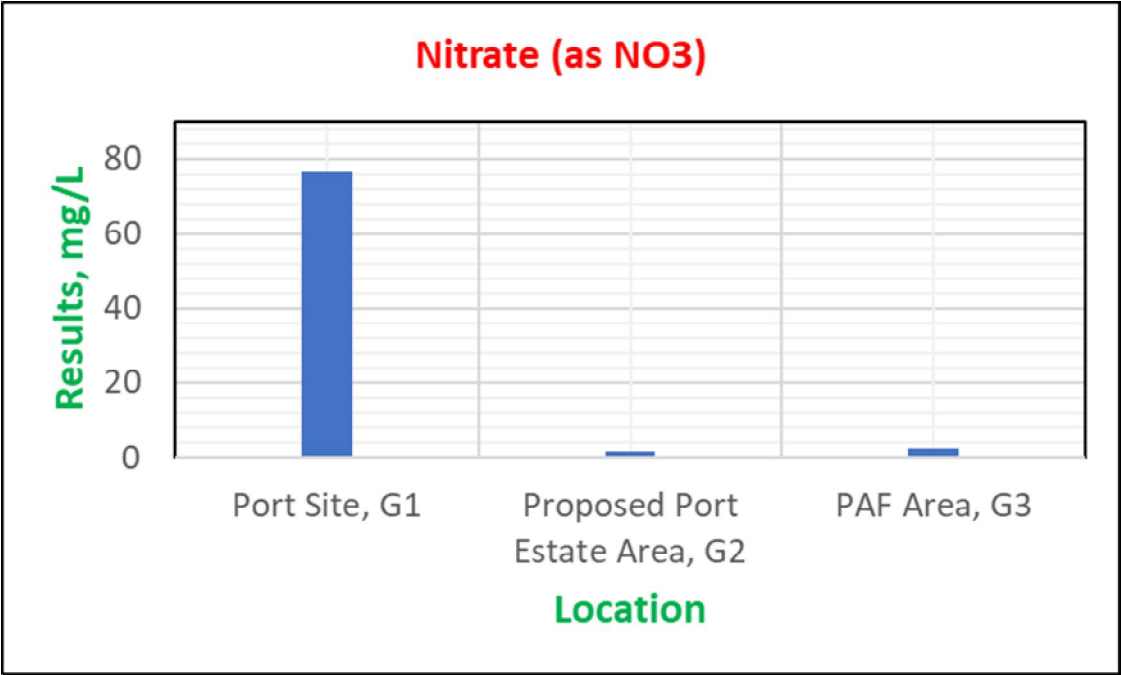
## 5. Groundwater Analysis

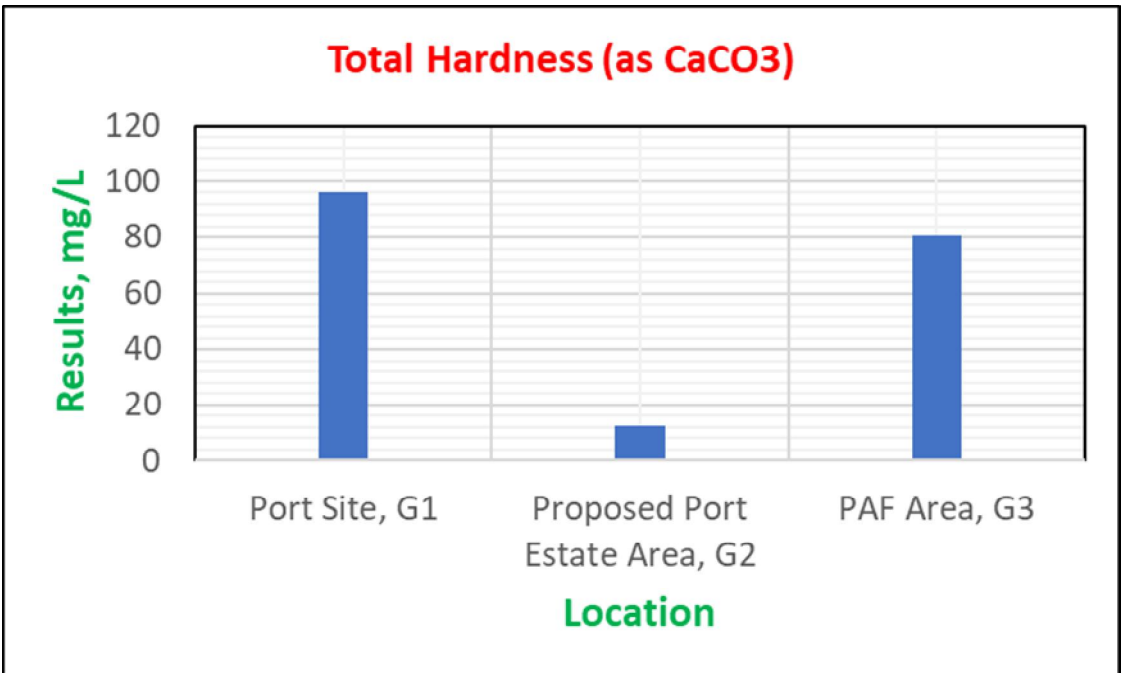
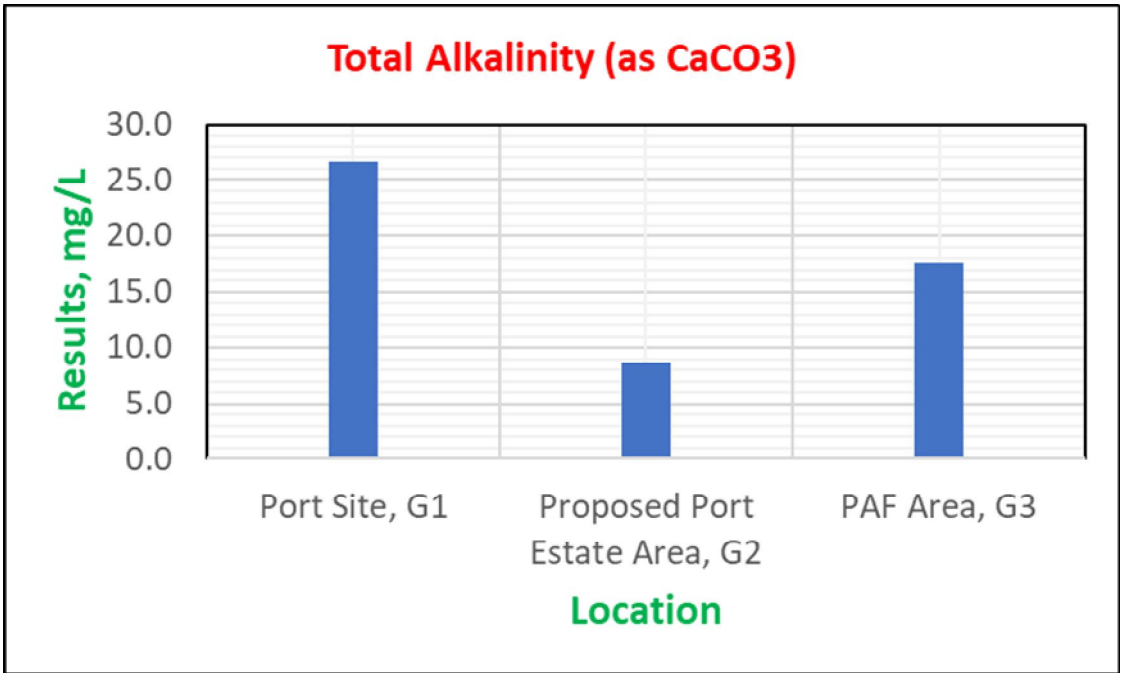


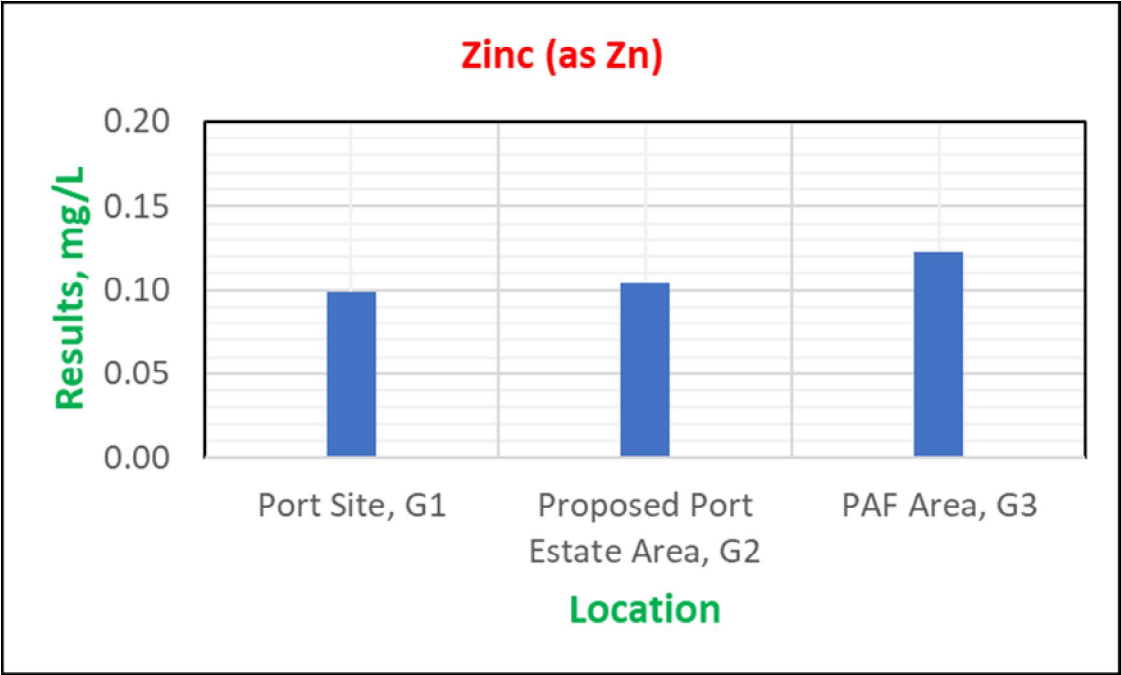














## 6. Surface Water Analysis

