

Environment Monitoring Report



Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

September – 2021

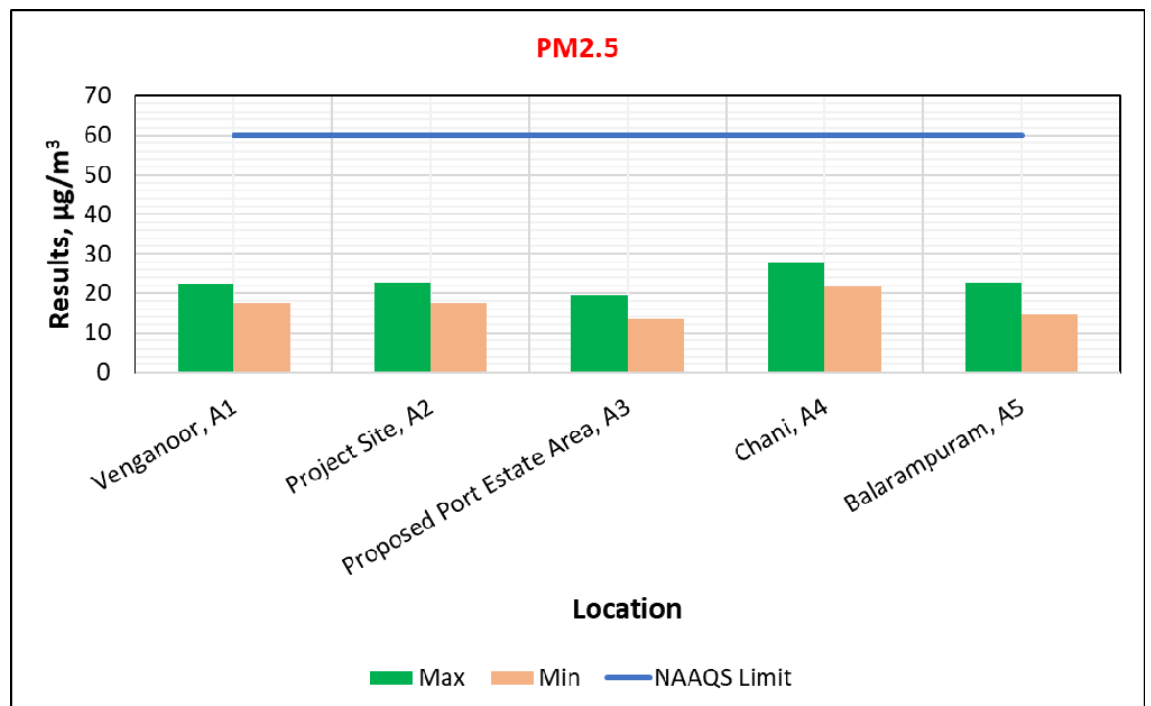
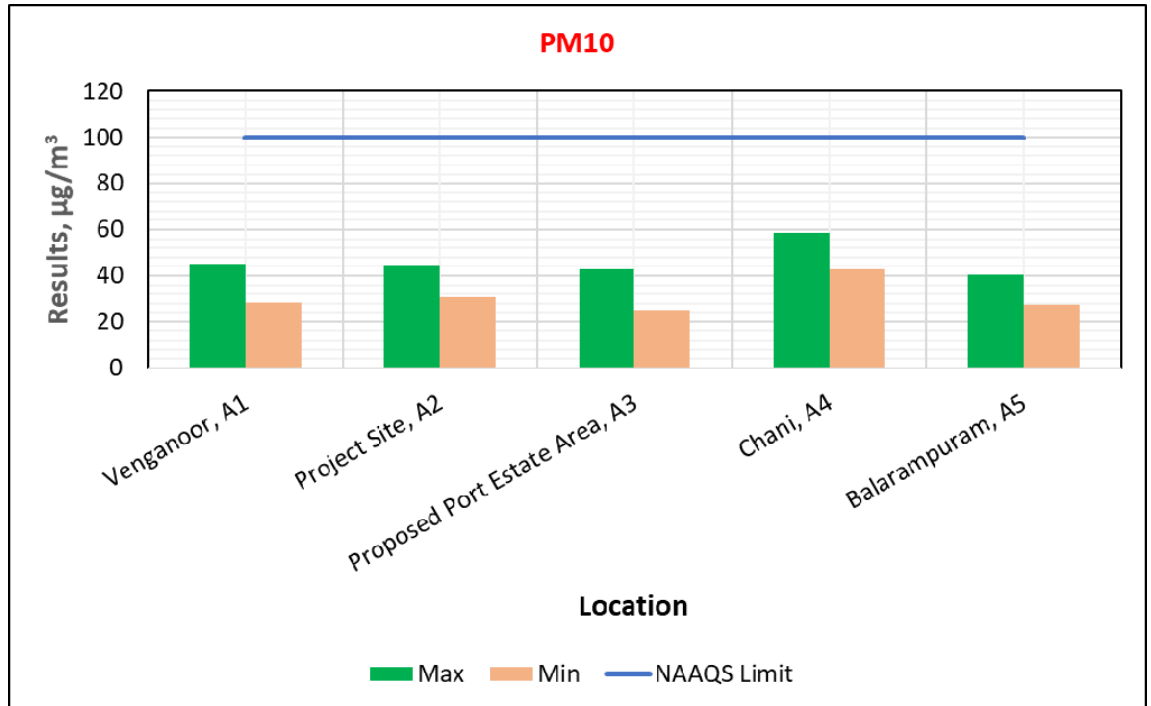
Environment Monitoring Locations:

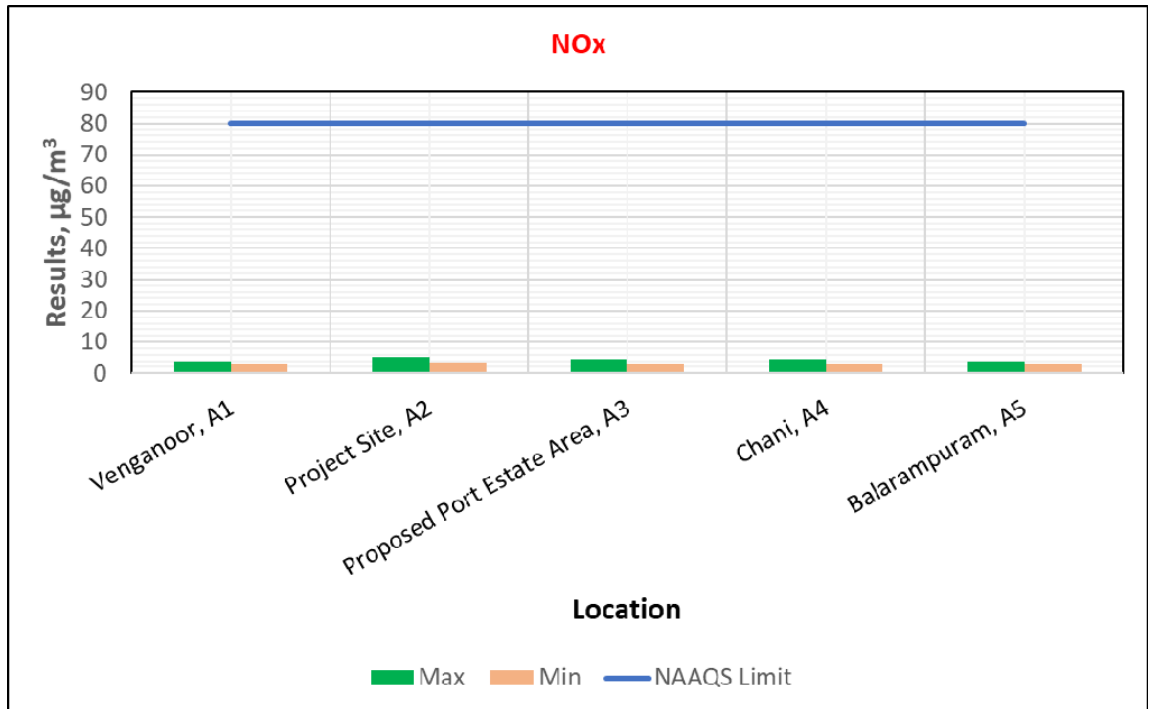
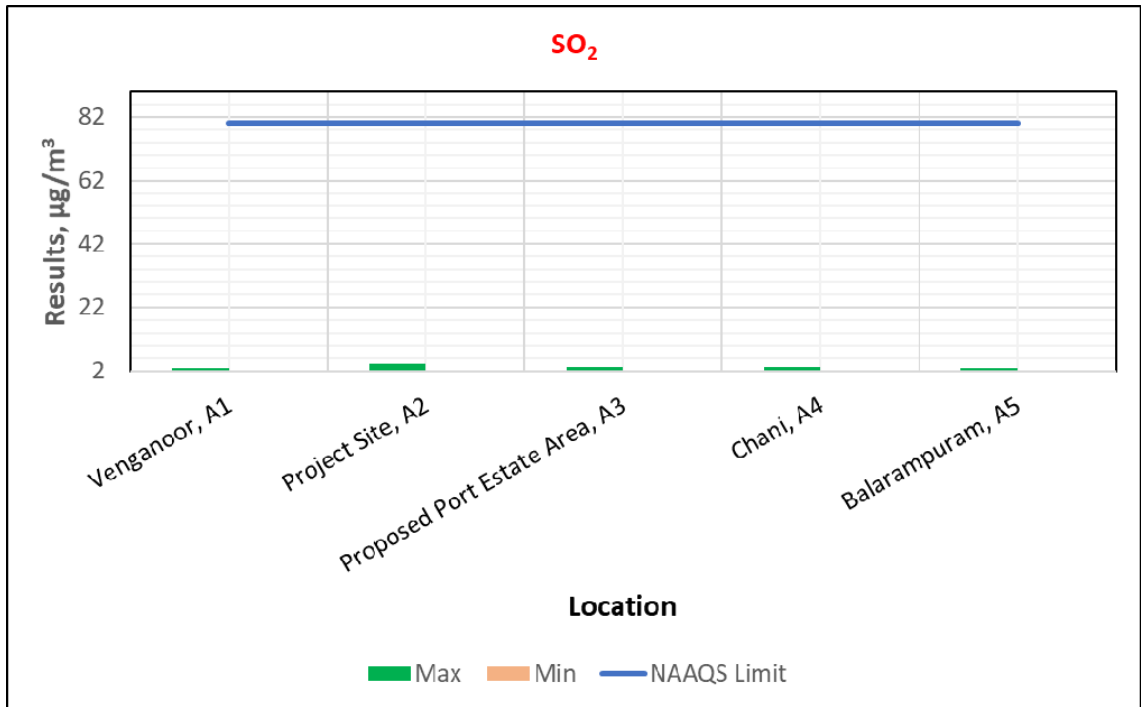
Sl. No.	Environmental Attribute	Location
1.	Ambient Air Quality Monitoring	Port Site (A1)
		Proposed Port Estate Area (A2)
		Chani (A3)
		Venganoor (A4)
		Balarampuram (A5)
2.	Ambient Noise	Port Site (Industrial) (N1)
		Proposed Port Estate Area (Commercial) (N2)
		Chani (Residential) (N3)
		Venganoor (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

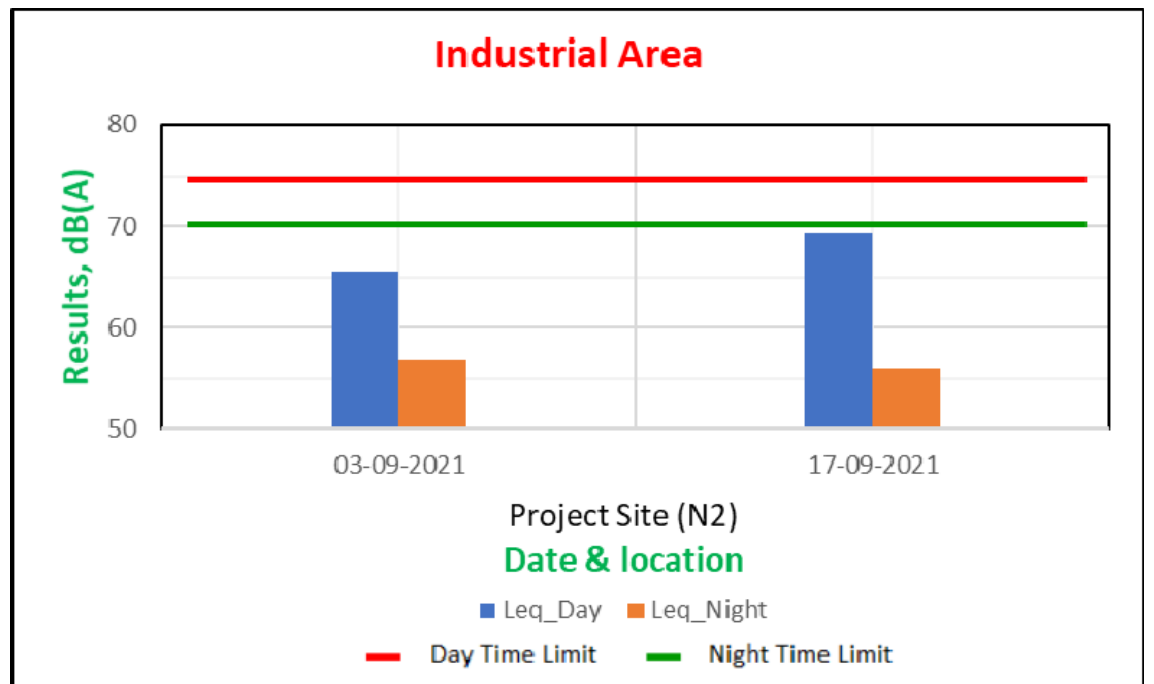
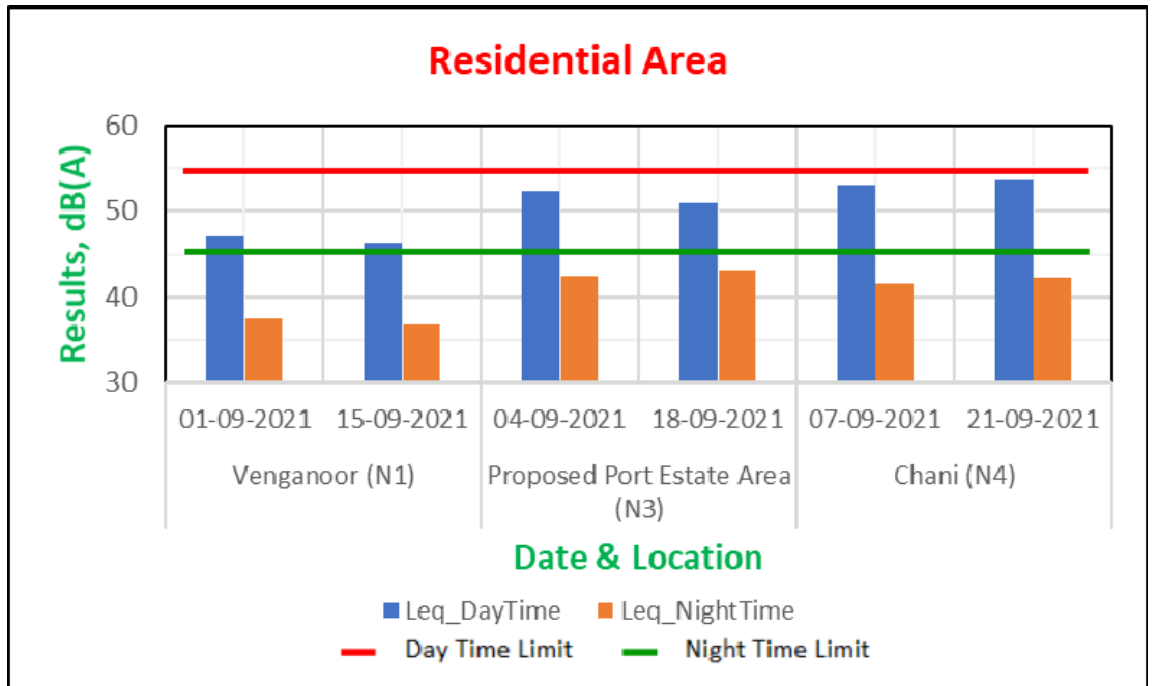
- The ambient air quality monitoring results were observed to be within National Ambient Air Quality Standards (NAAQS), 2009 at all the five locations during the month of September 2021.
- Noise readings were within limits at all the monitoring locations during the month of September 2021.
- Marine water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

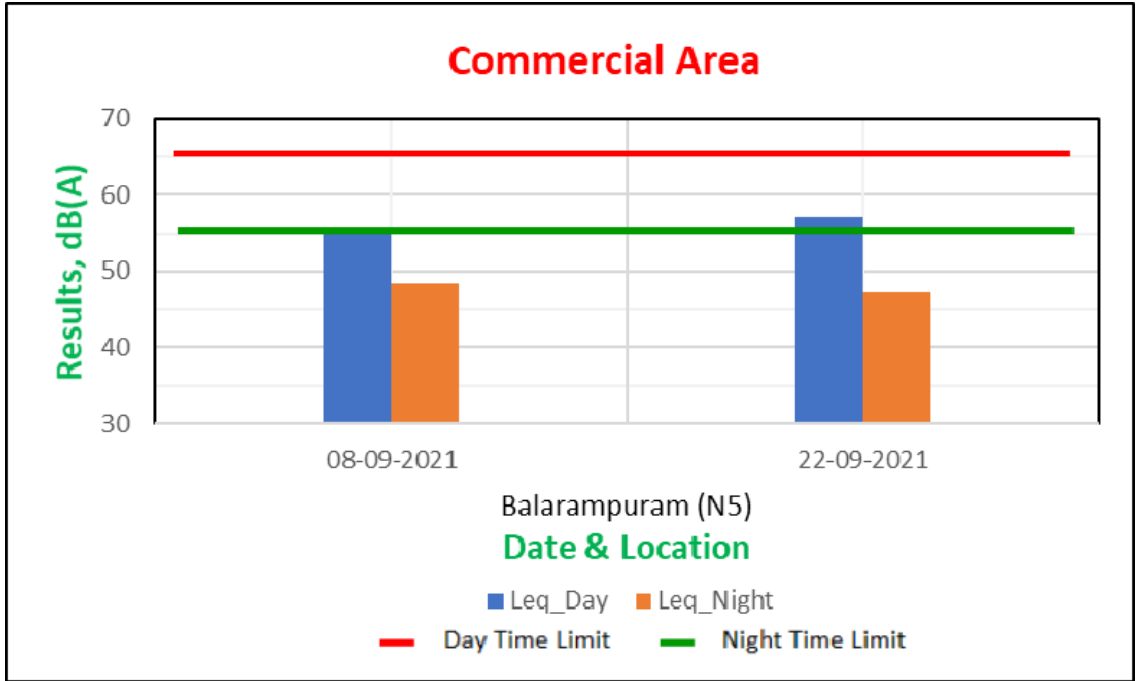
2. Ambient Air Quality





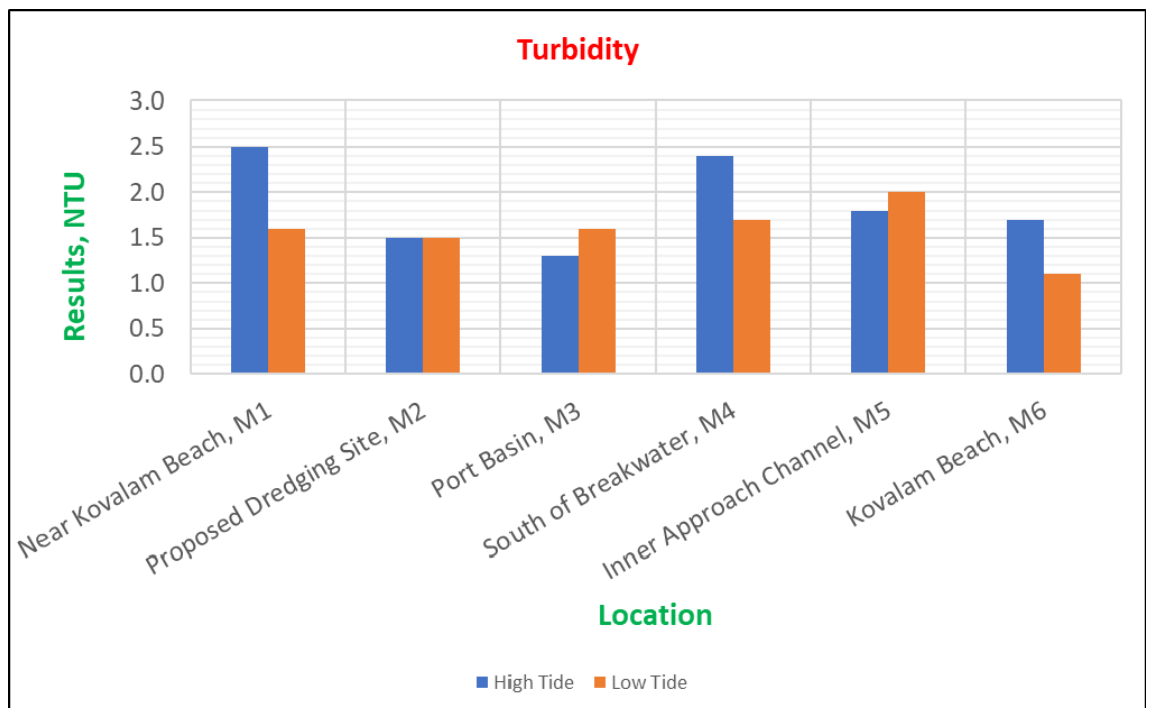
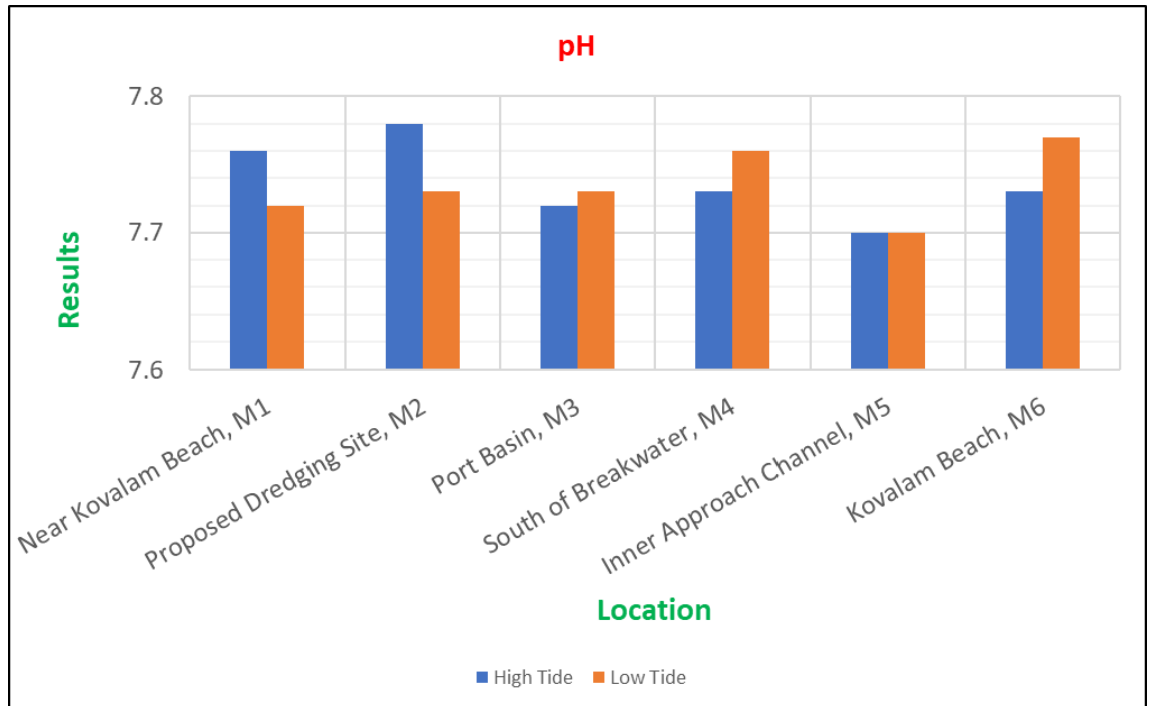
3. Ambient Noise

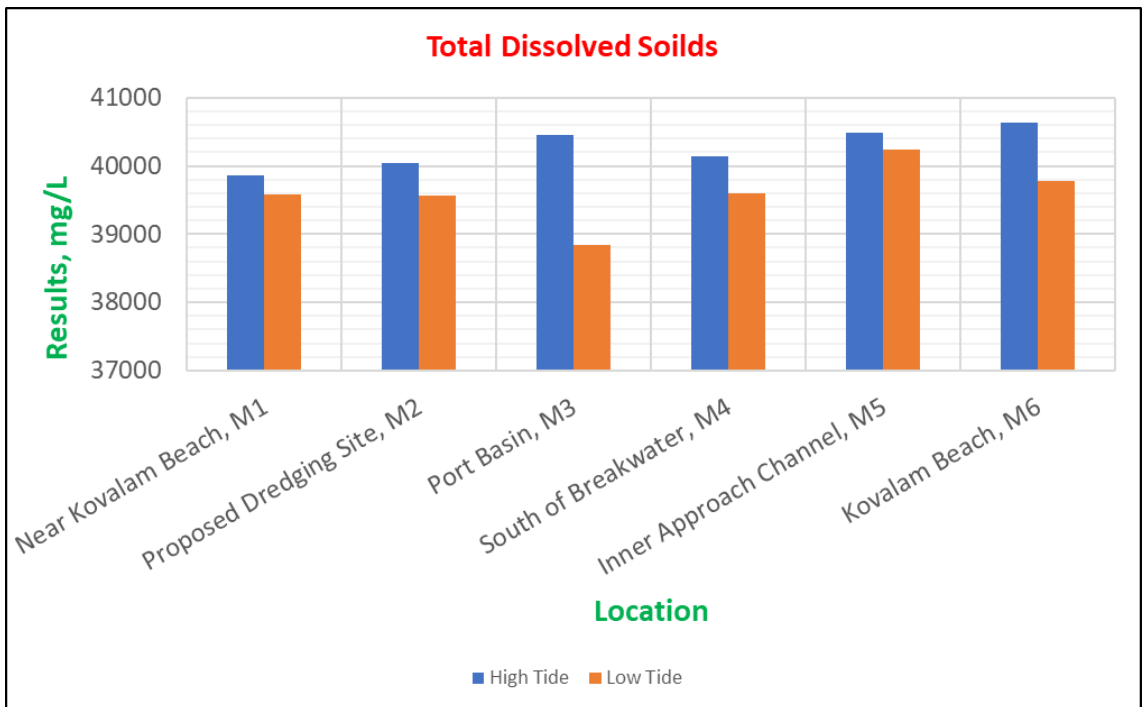
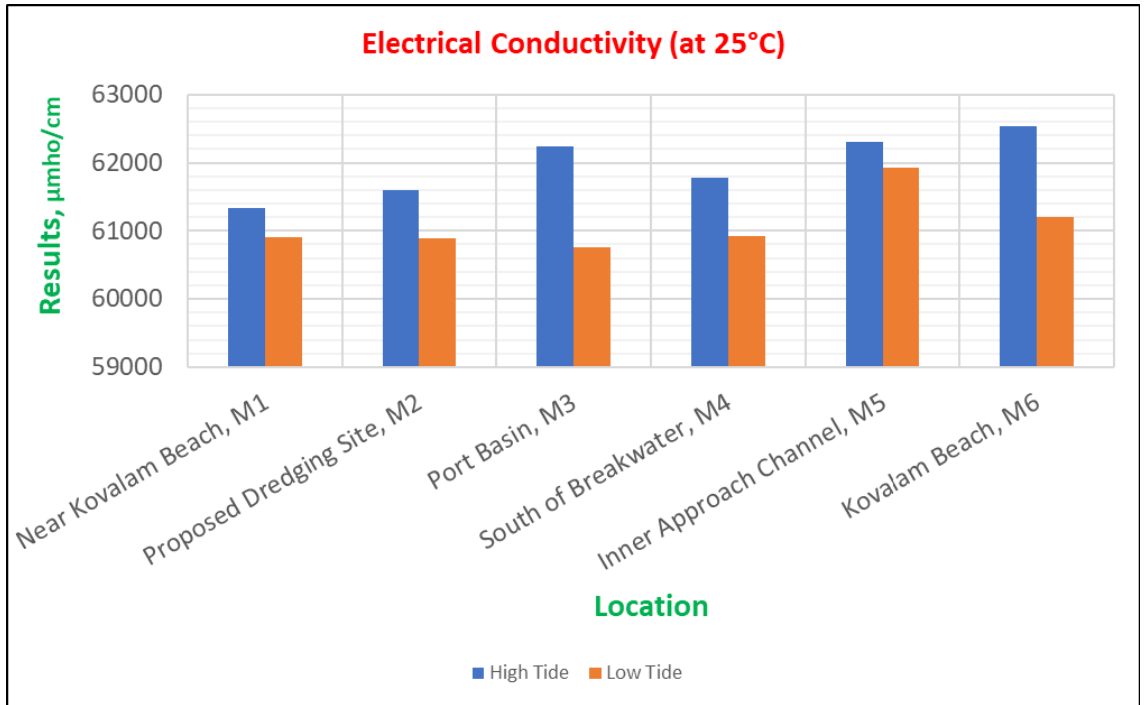


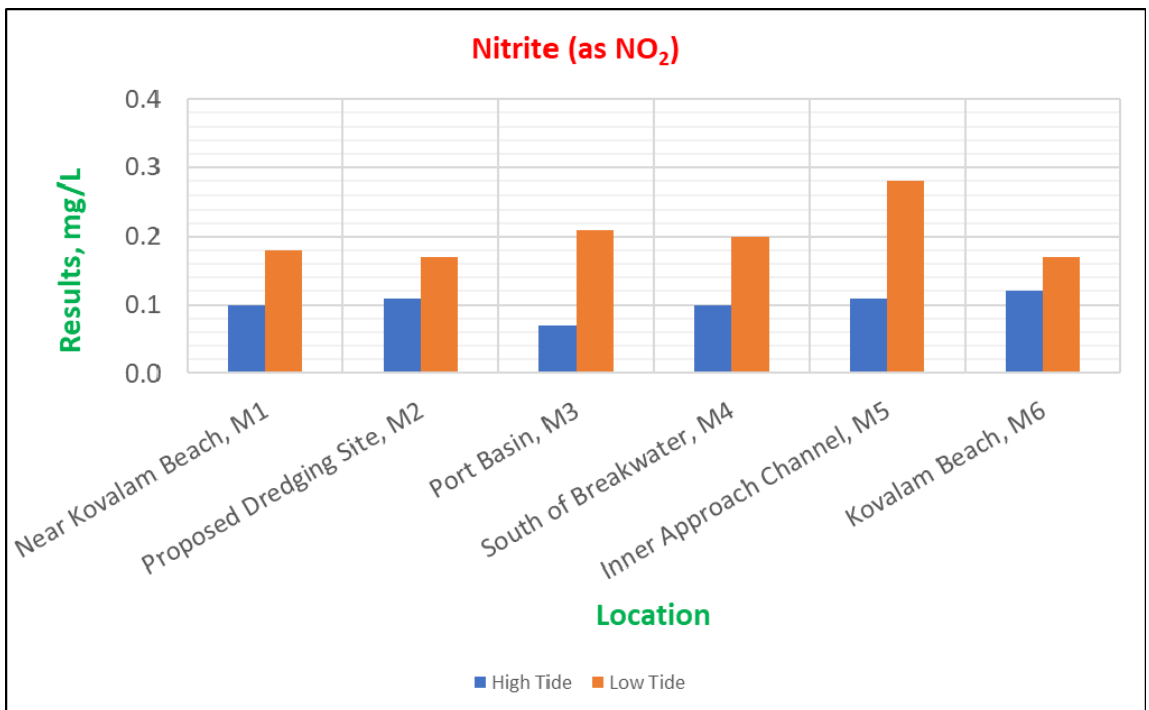
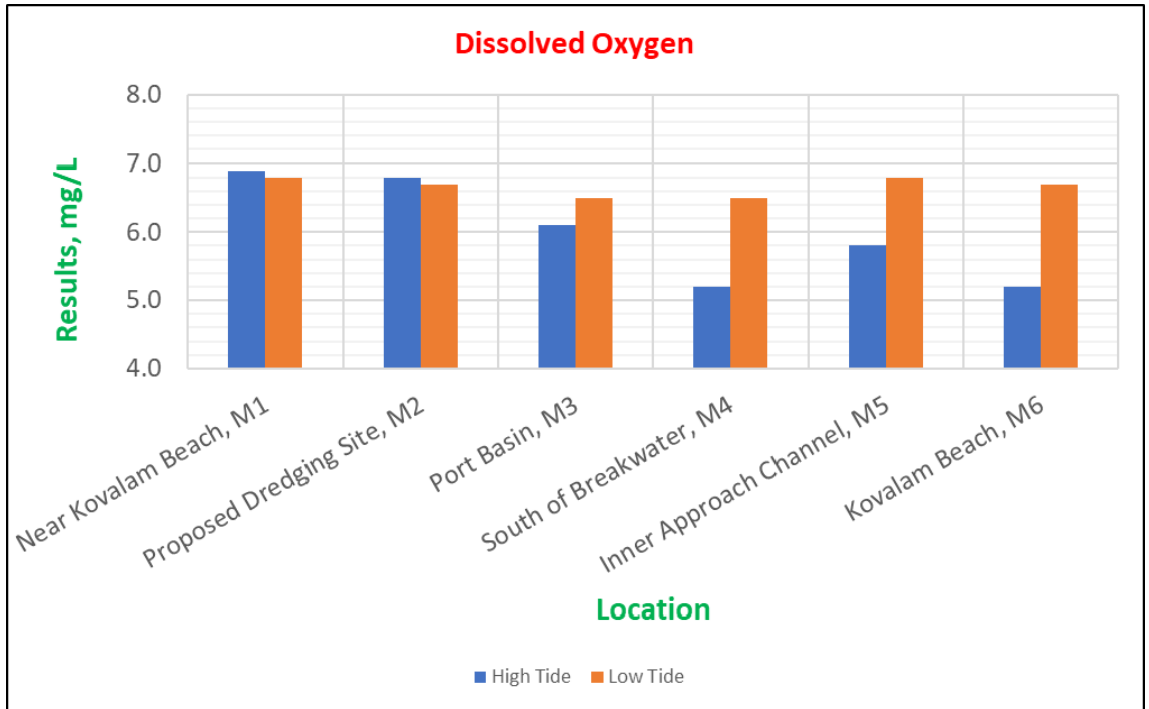


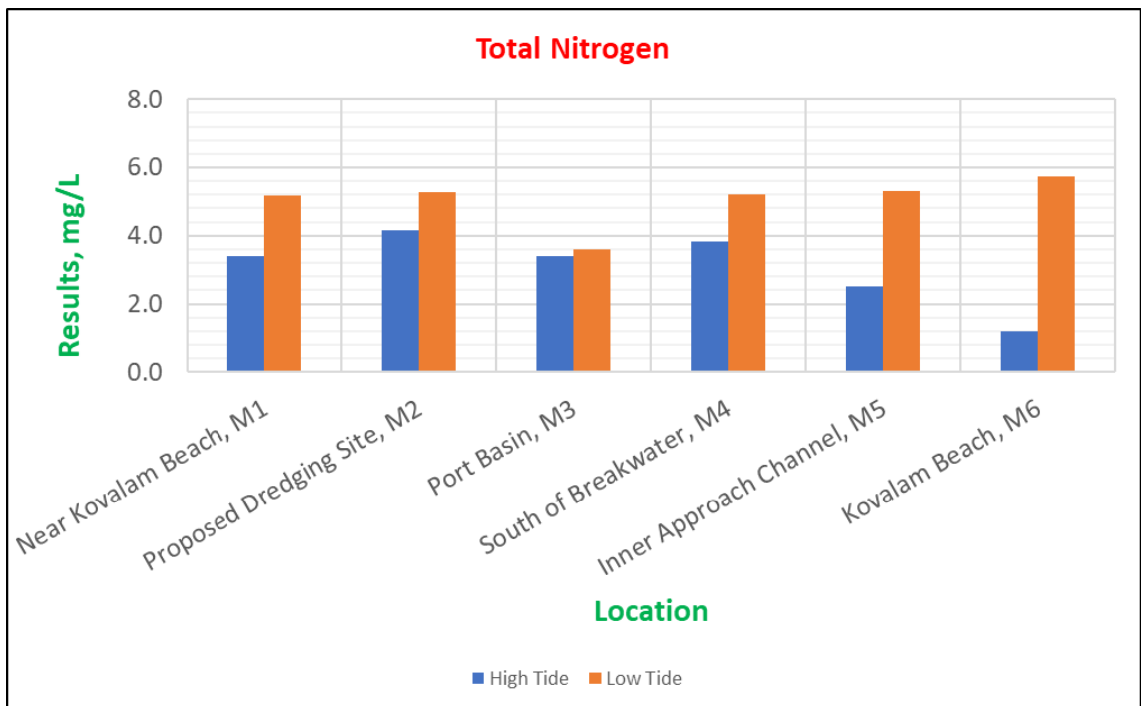
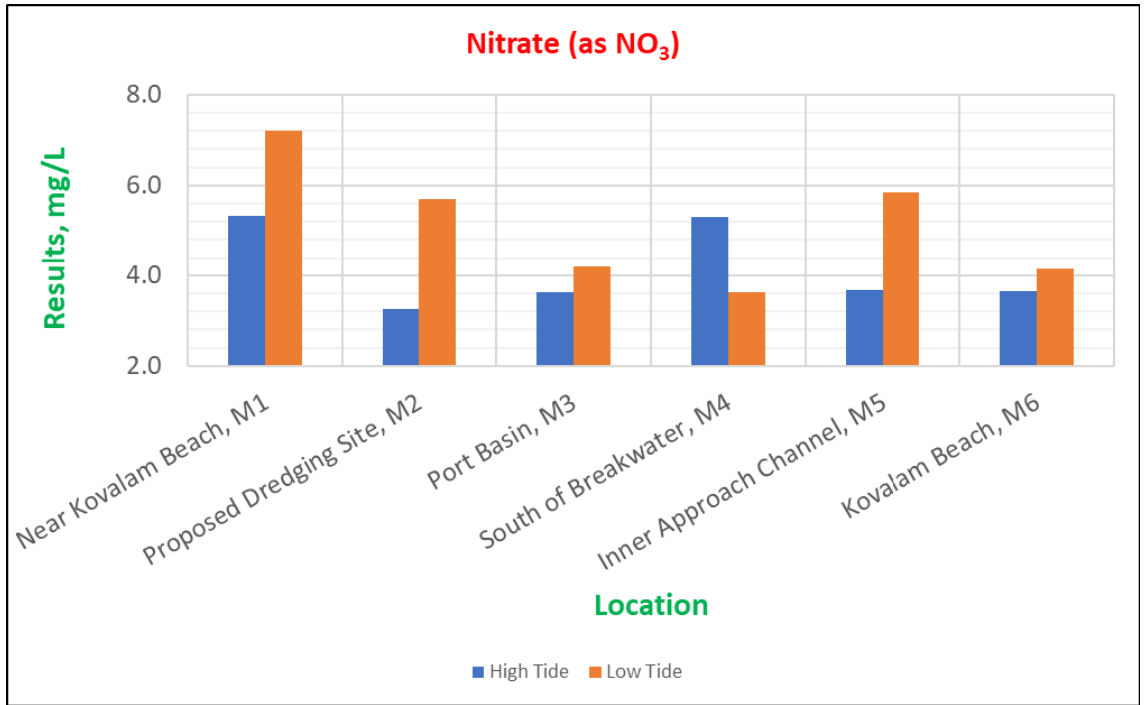
4. Marine Survey

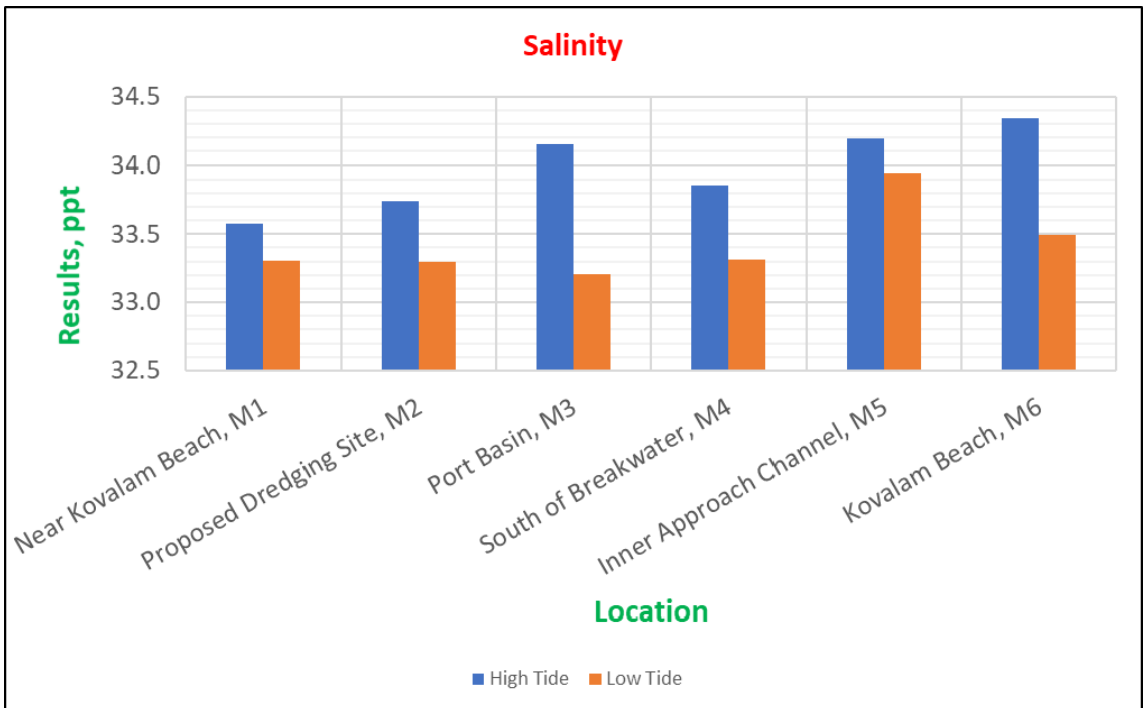
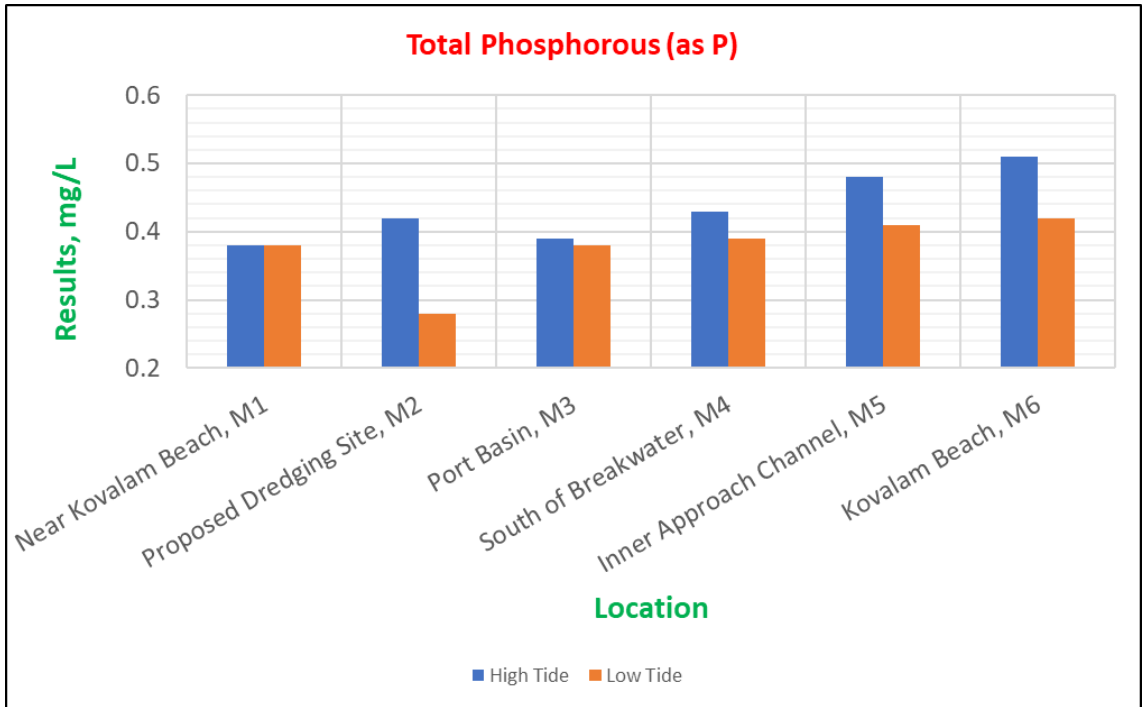
4 a. Marine Water Analysis



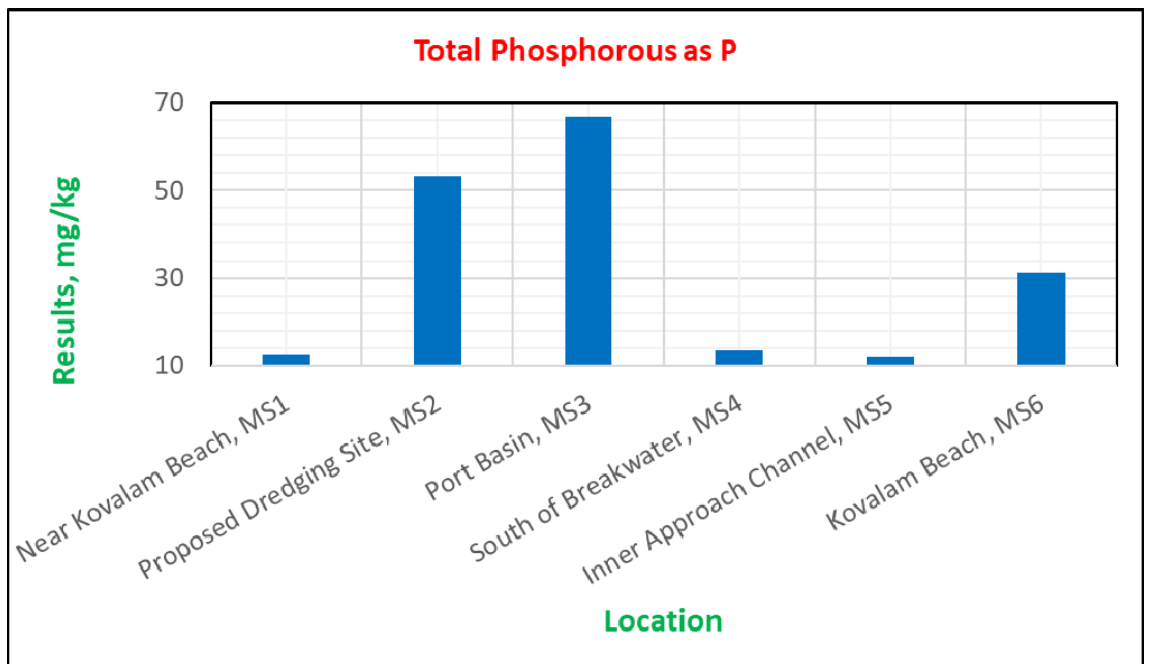
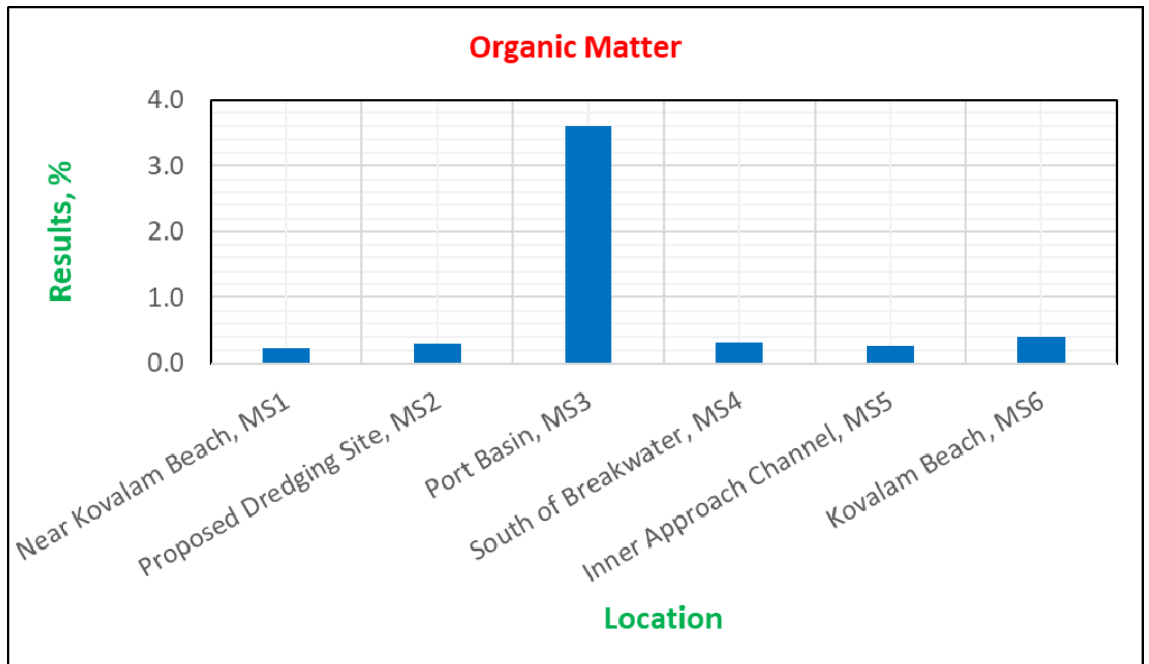


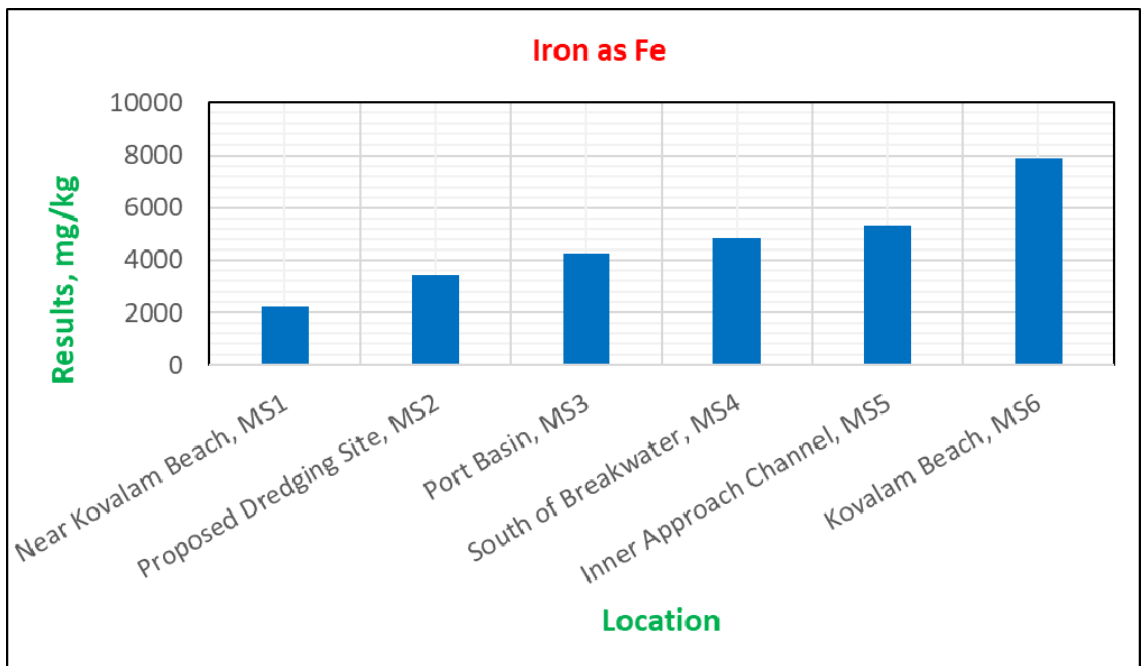
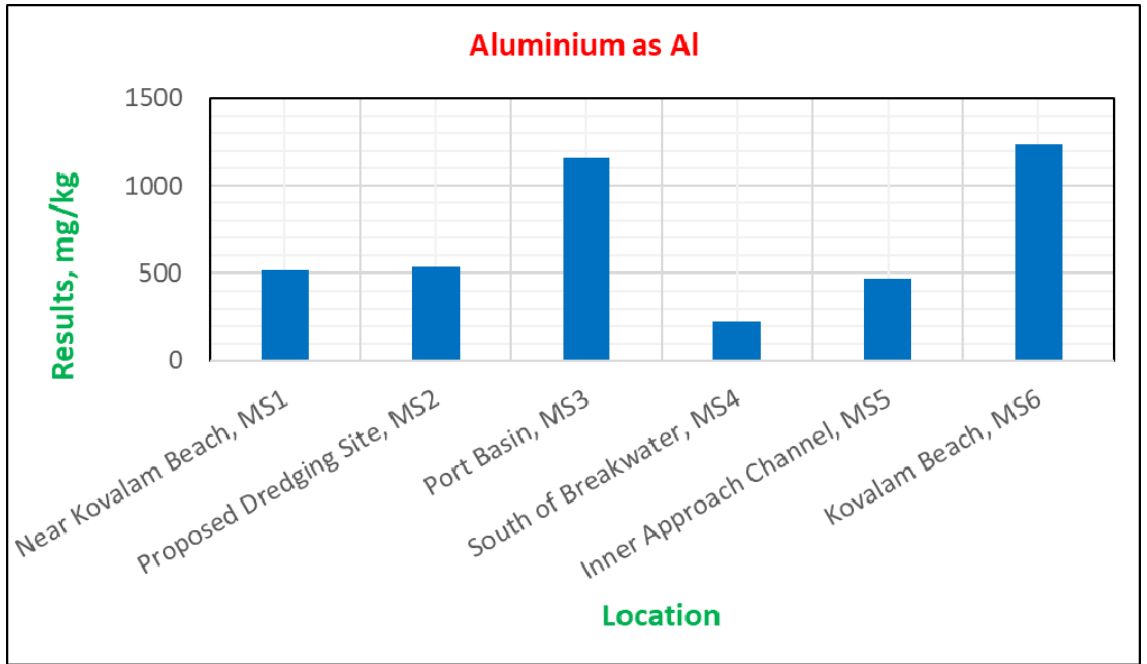


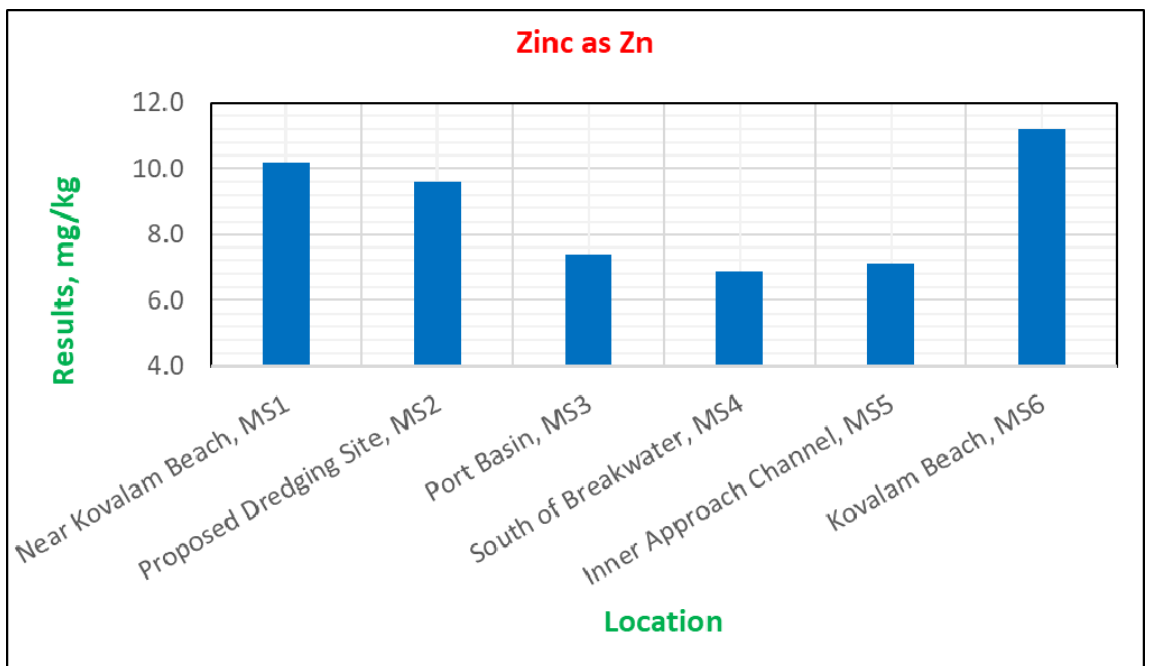
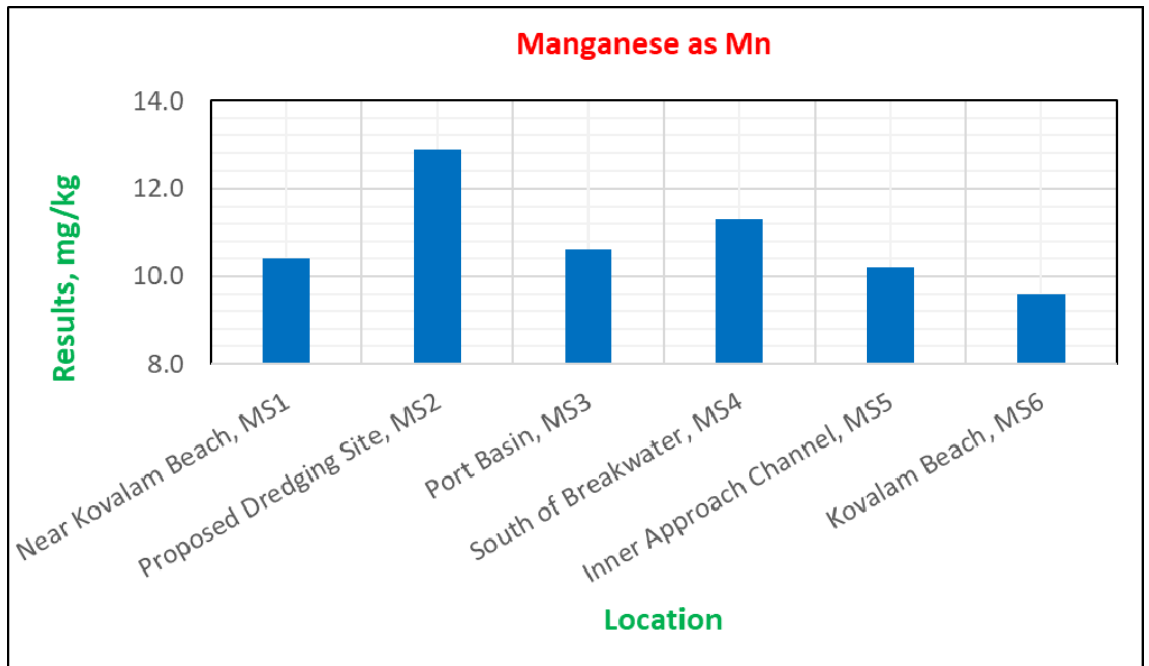


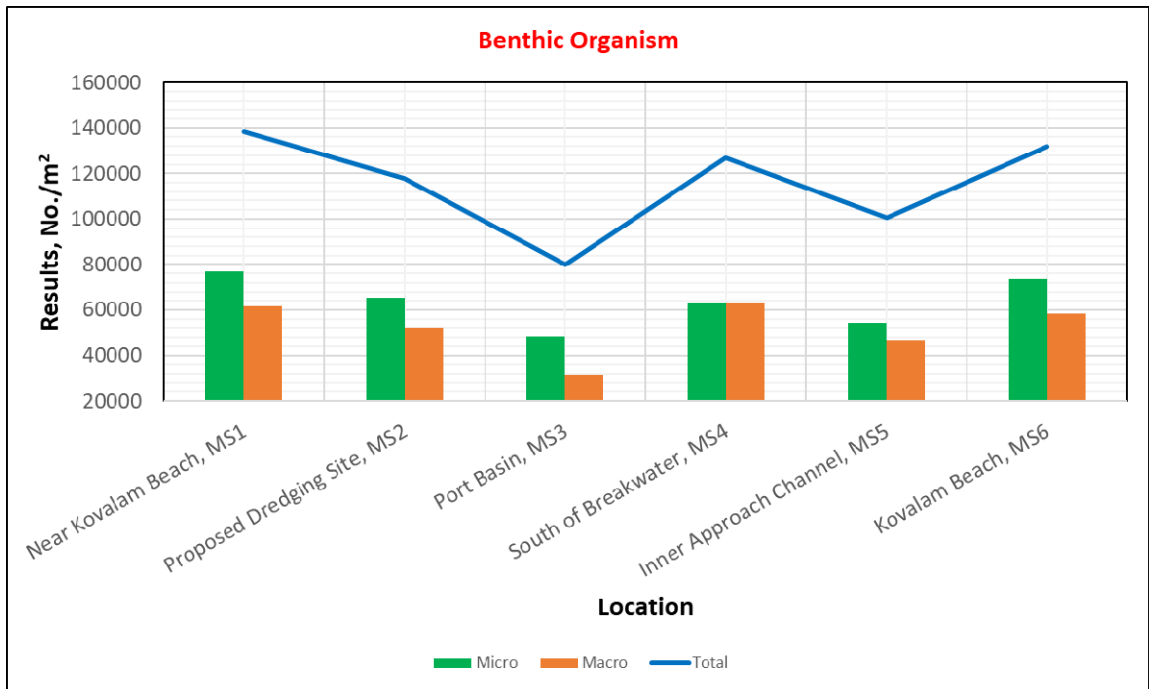


4 b. Sediment Analysis

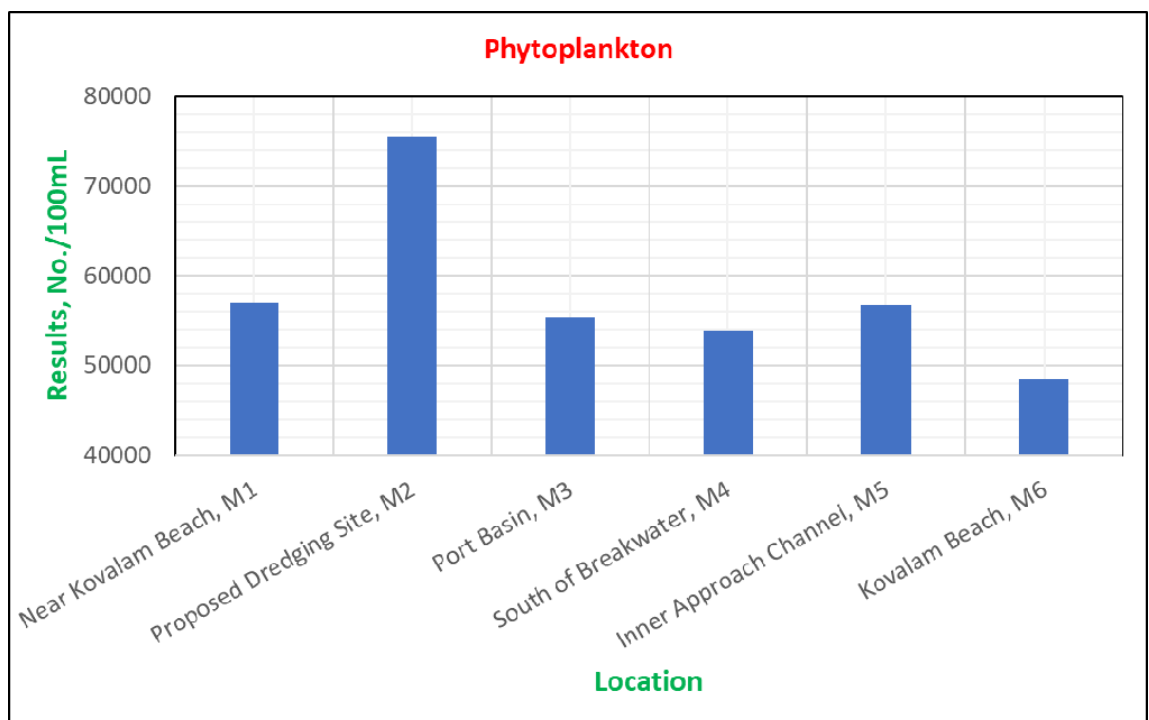




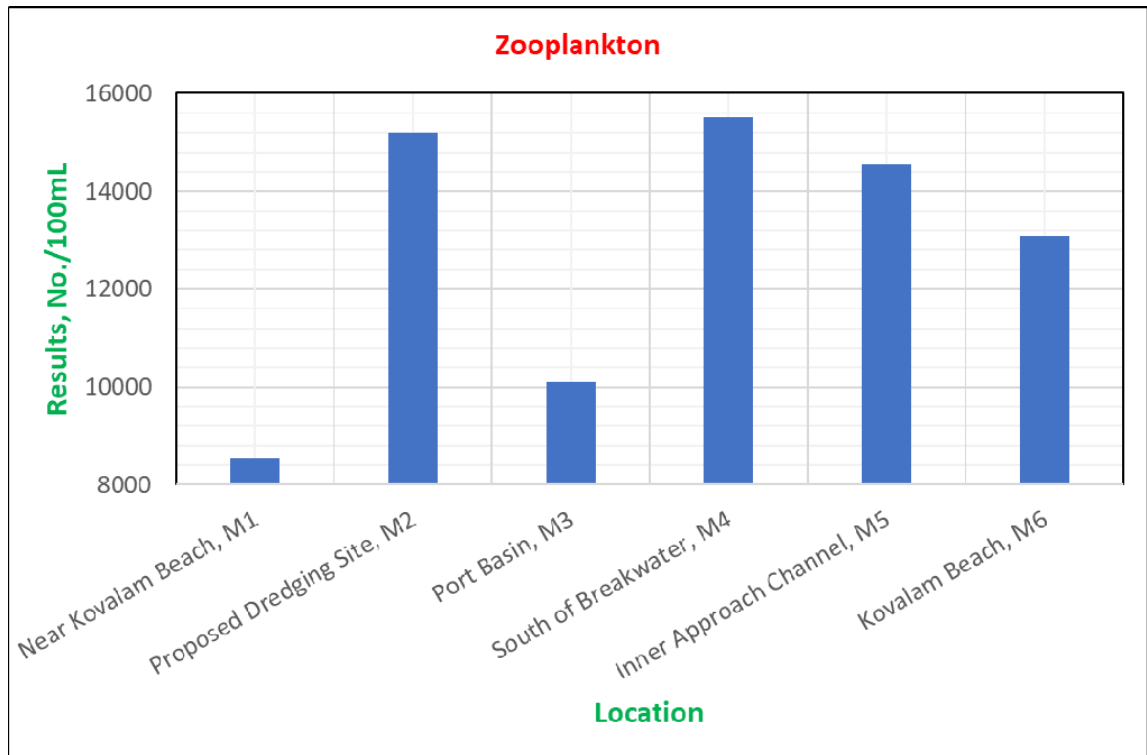




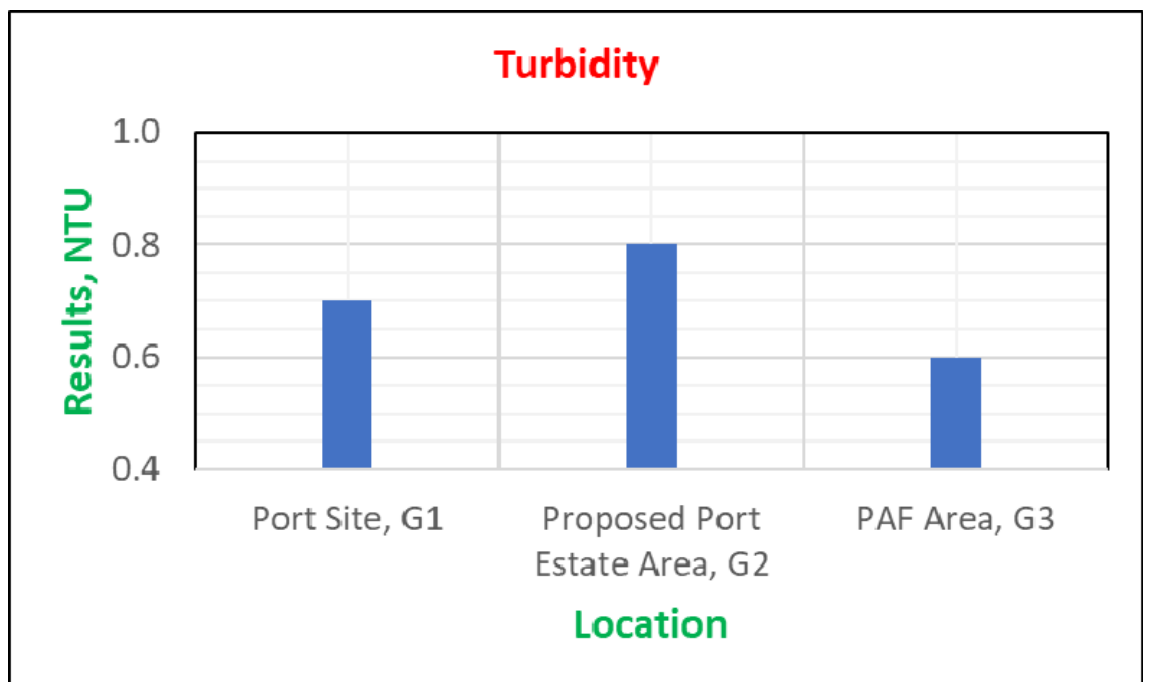
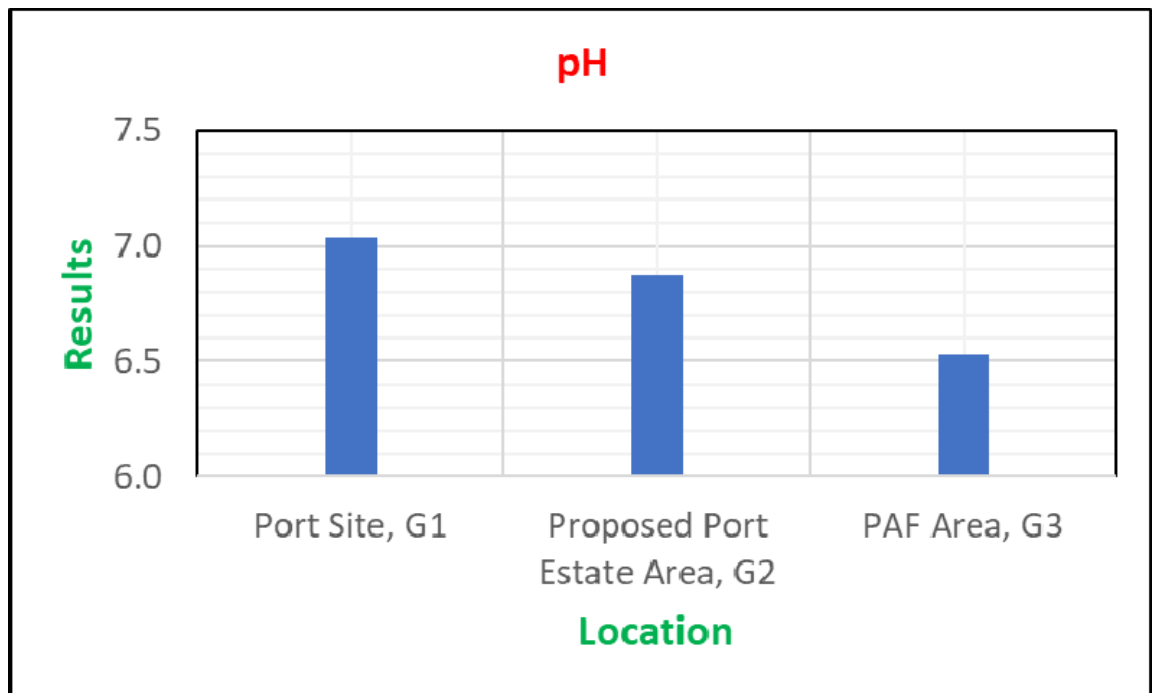
4 c. Phytoplankton Analysis from Marine Samples

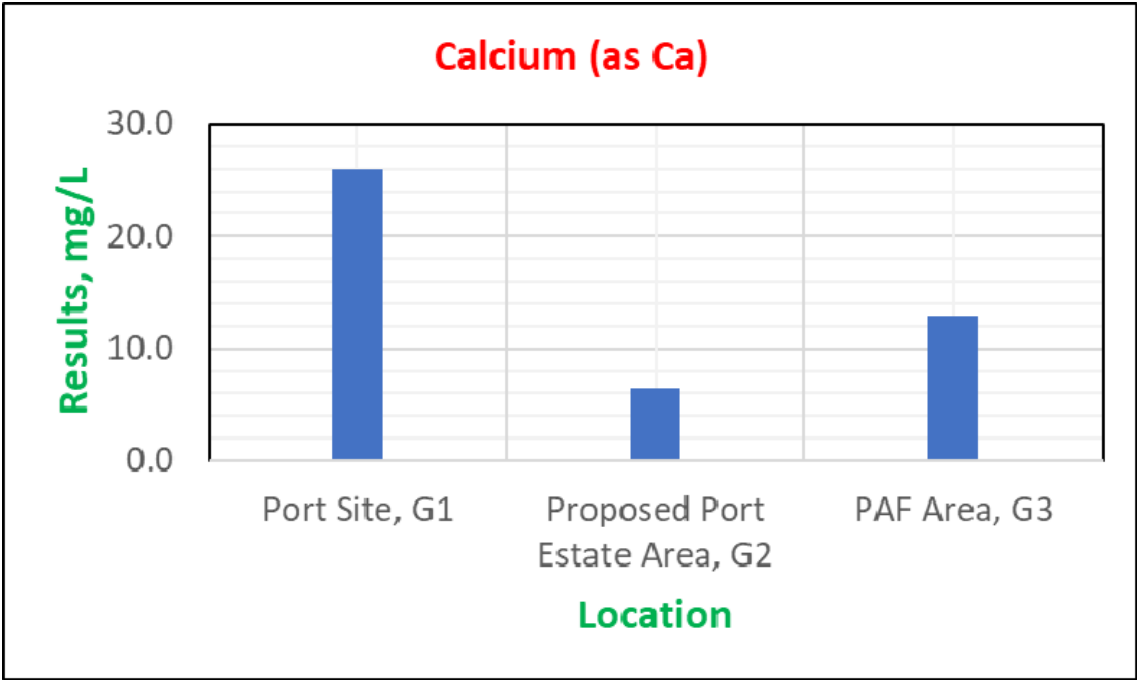
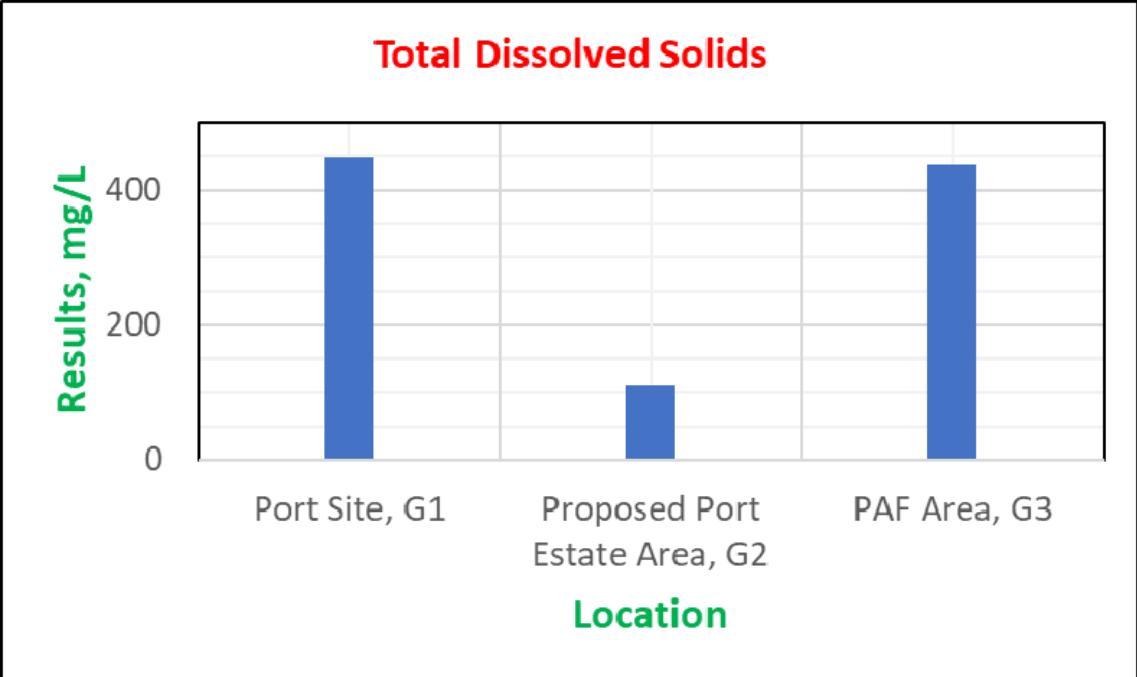


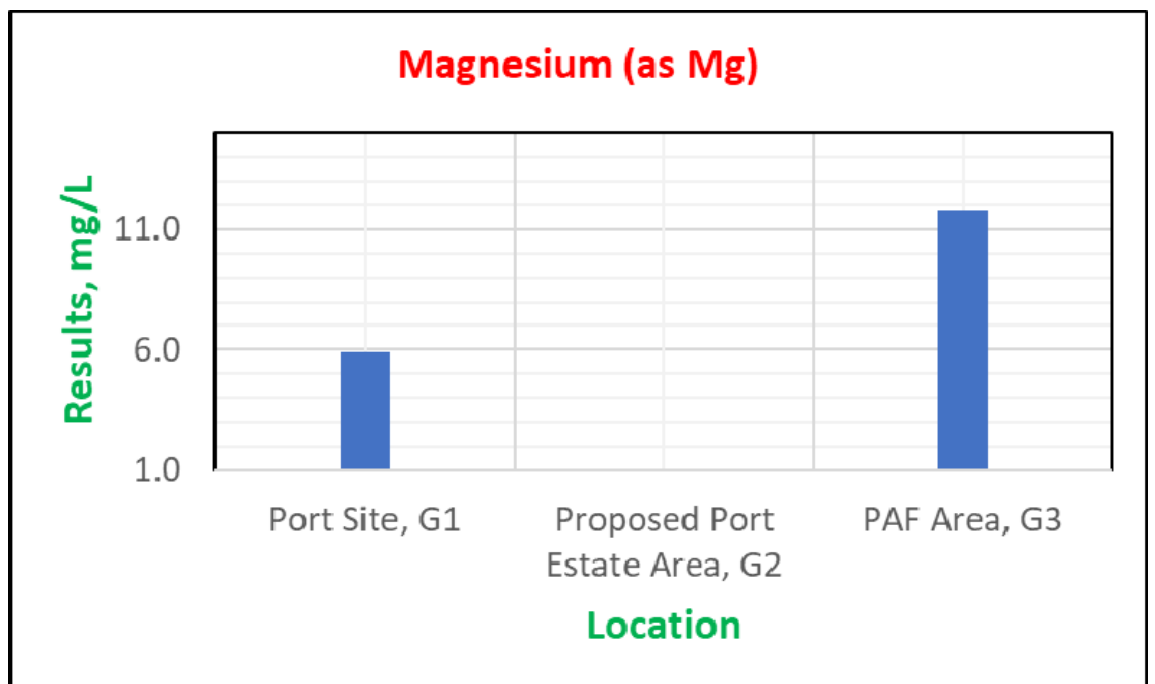
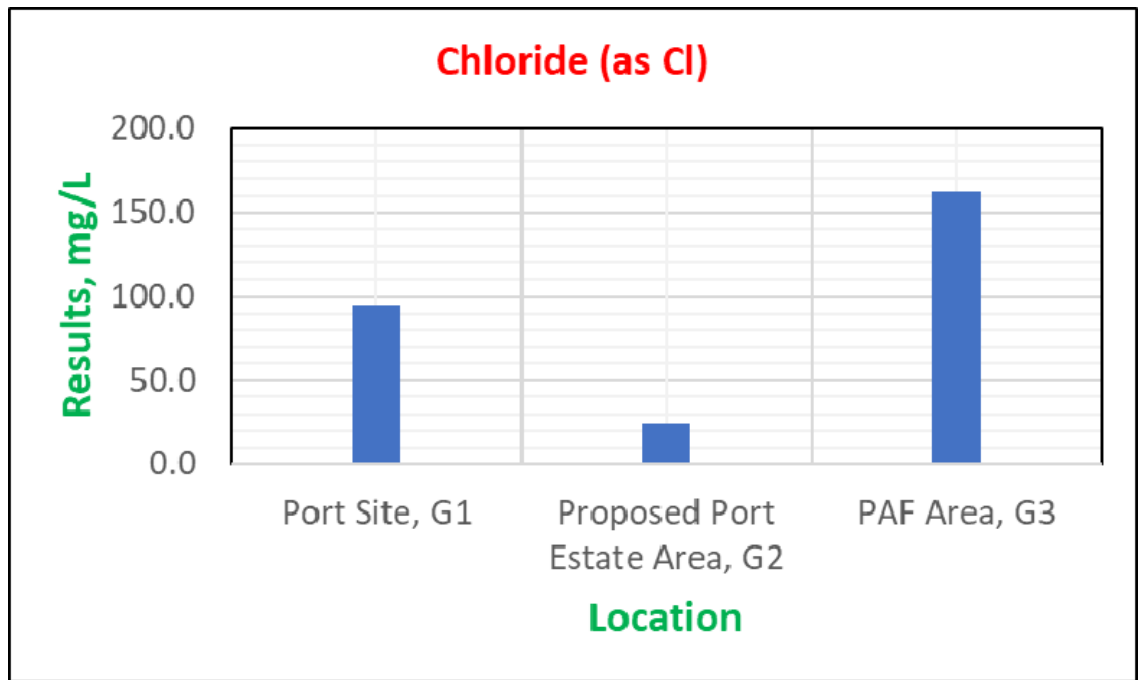
4 d. Zooplankton Analysis from Marine Sample

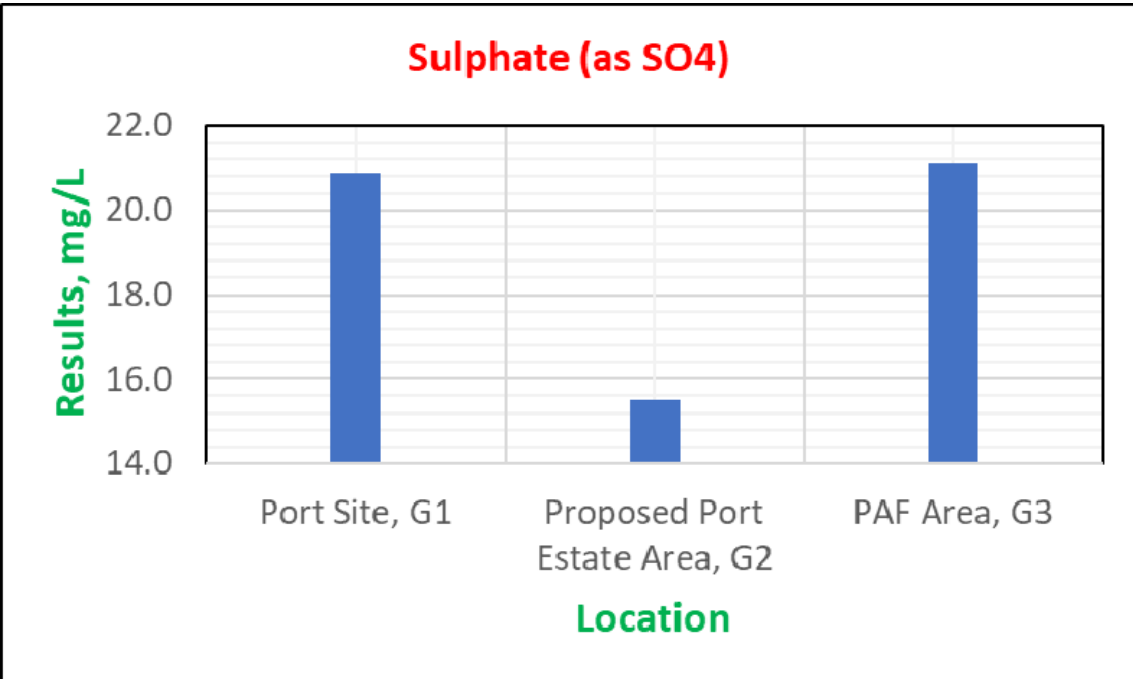
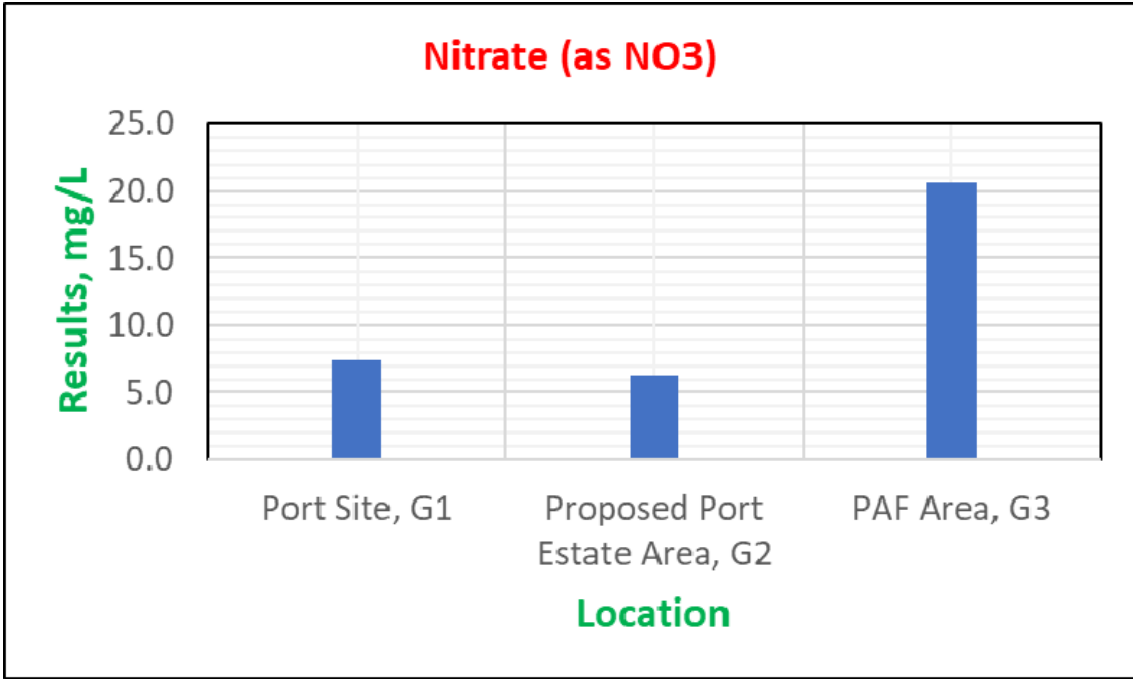


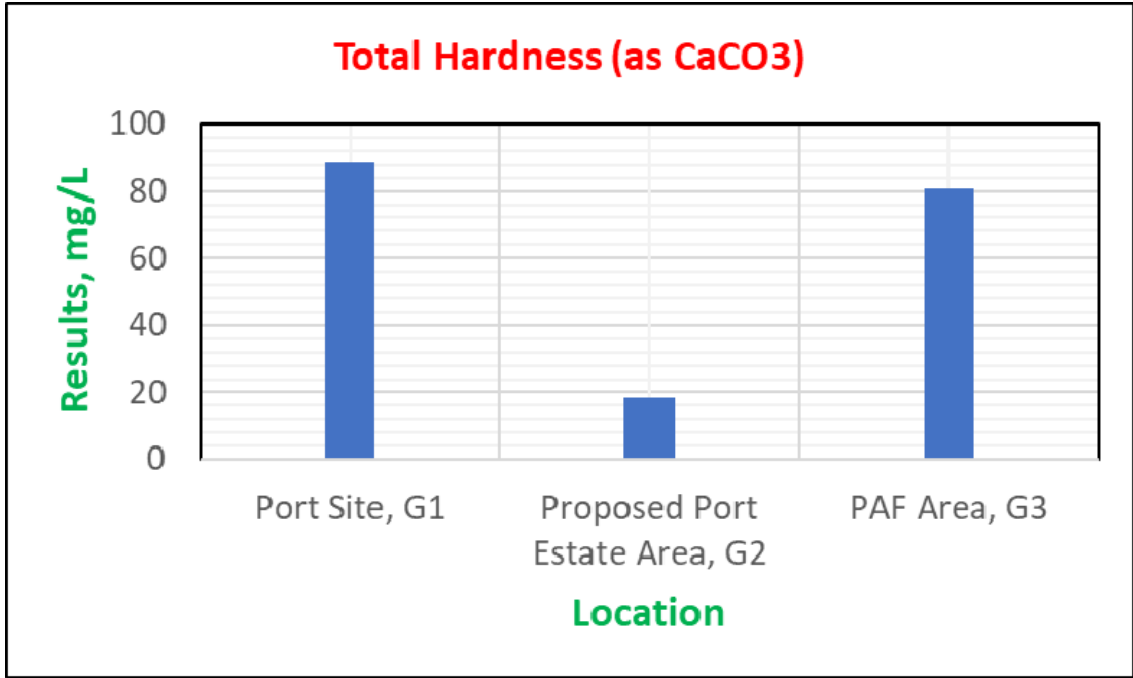
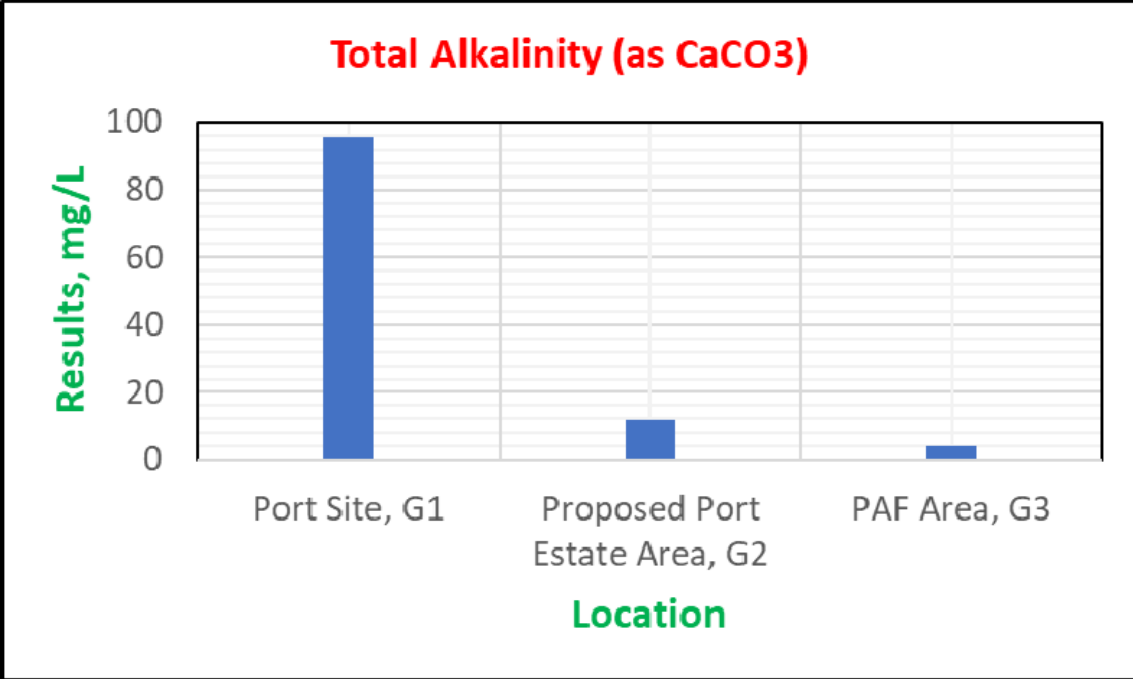
5. Groundwater Analysis

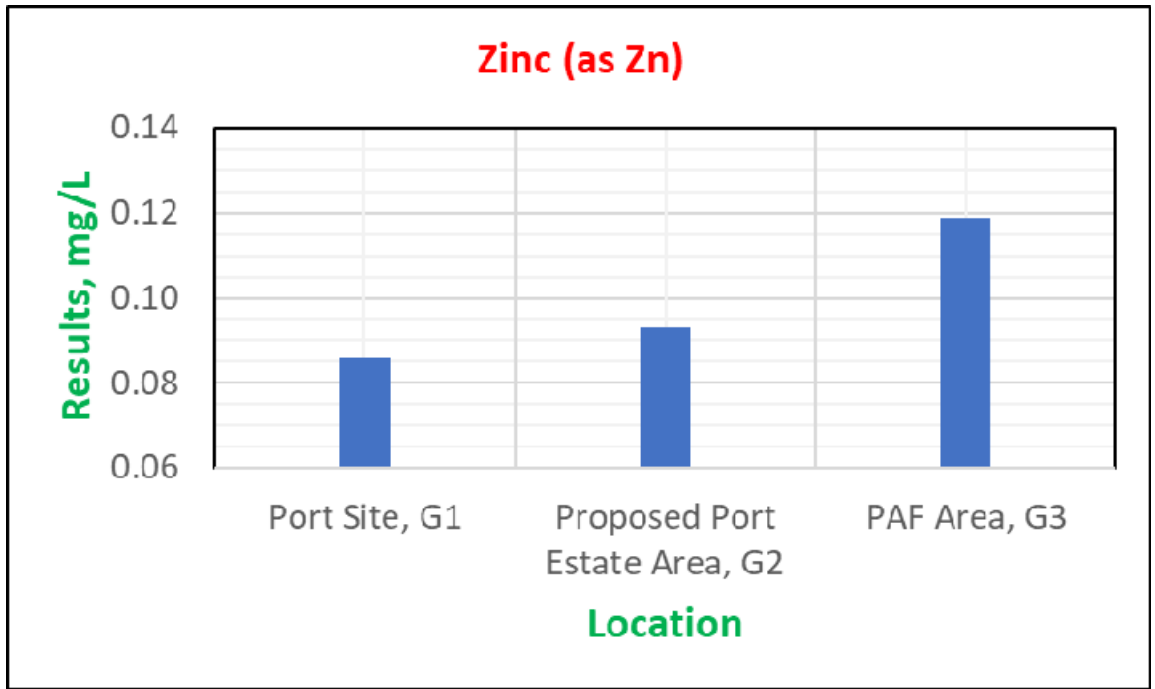












6. Surface Water Analysis

