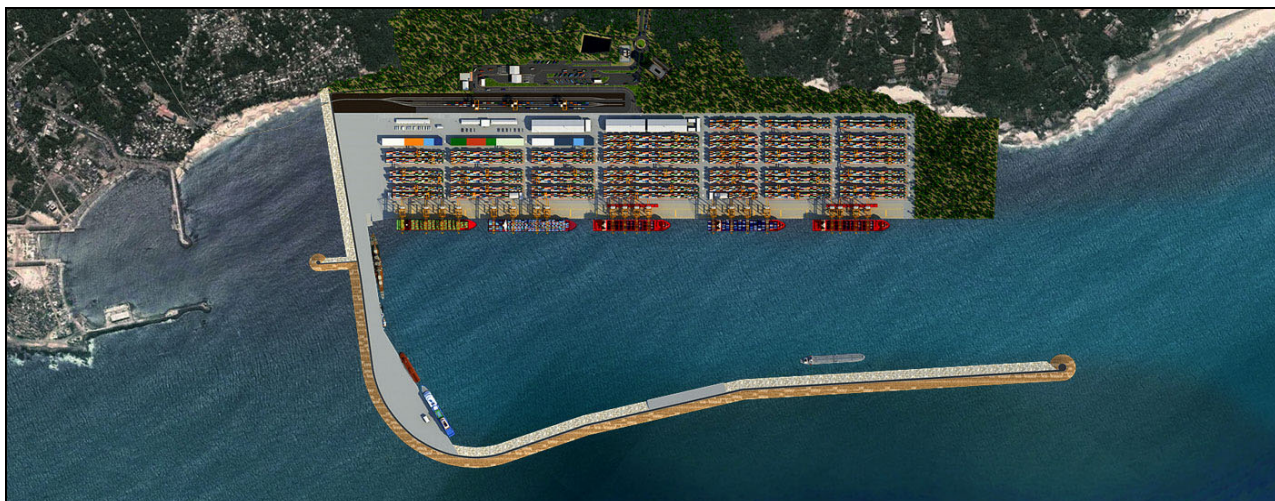


Environment Monitoring Report



Adani Vizhinjam Port Pvt. Ltd.

Vizhinjam, Kerala

November – 2019

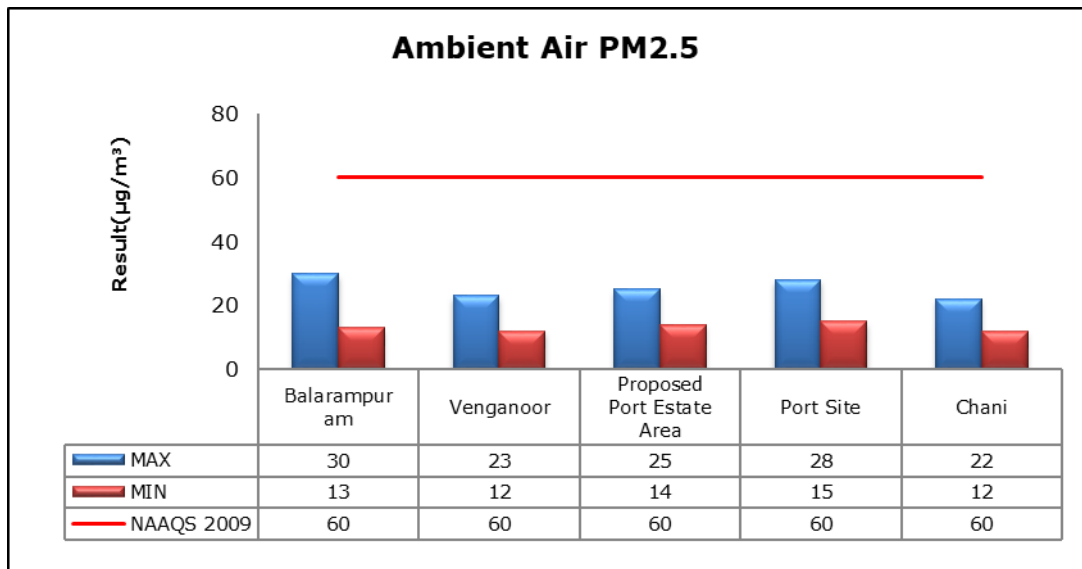
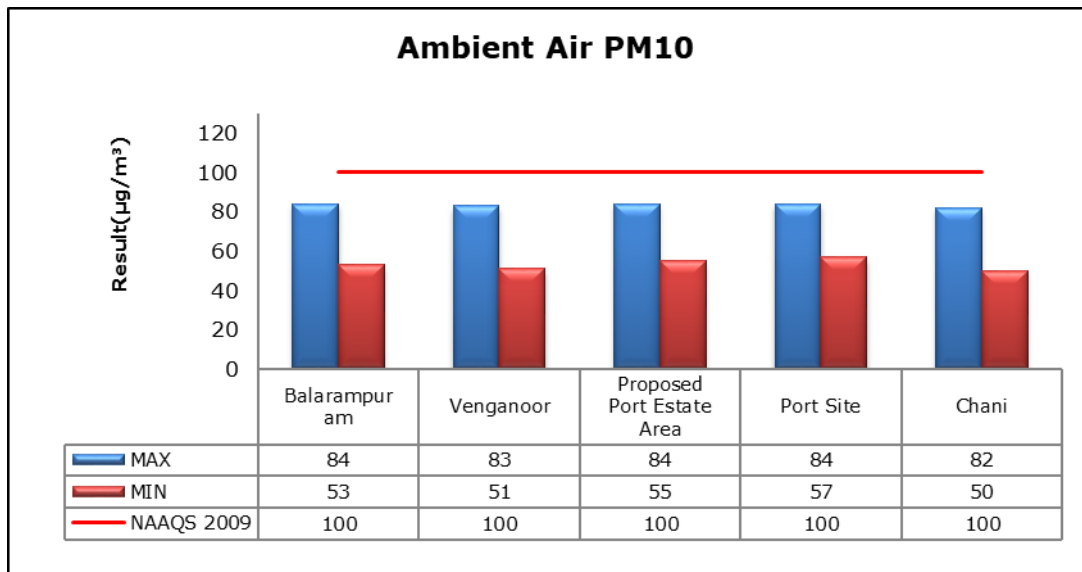
Environment Monitoring Locations:

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)

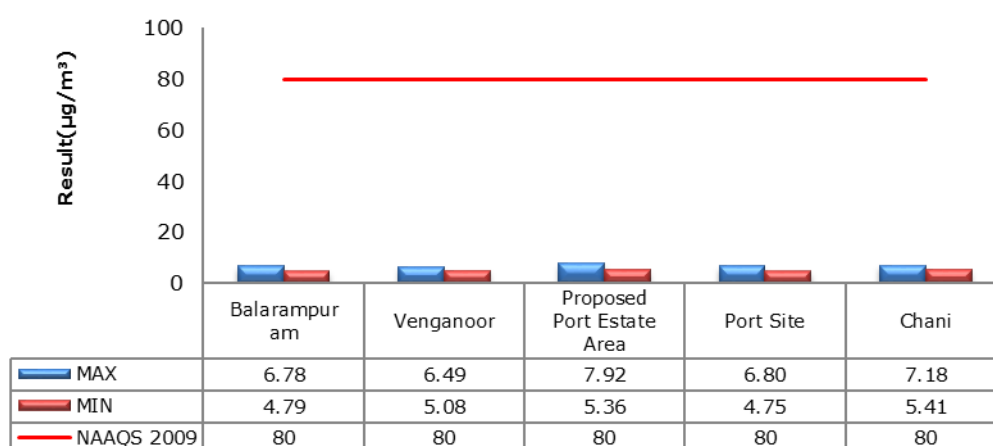
1. Summary

- 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 November 2019.
- Noise readings were within limits at all the monitoring locations during the month of November 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.

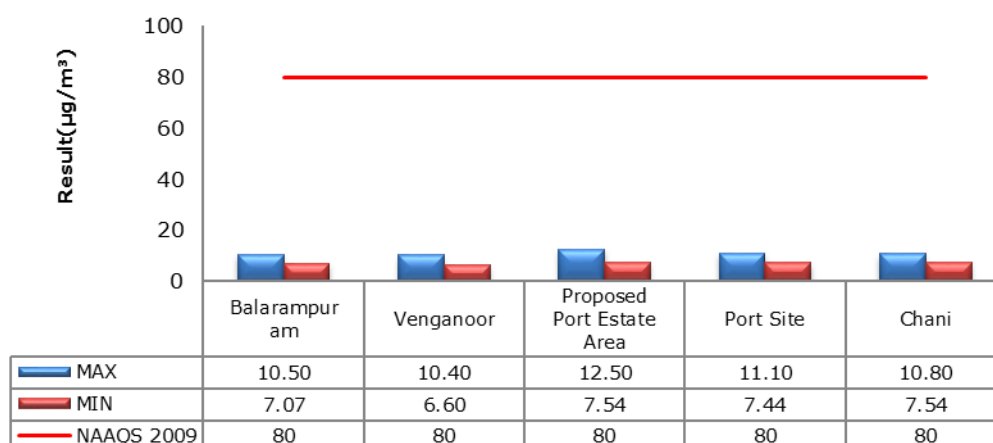
2. Ambient Air Quality



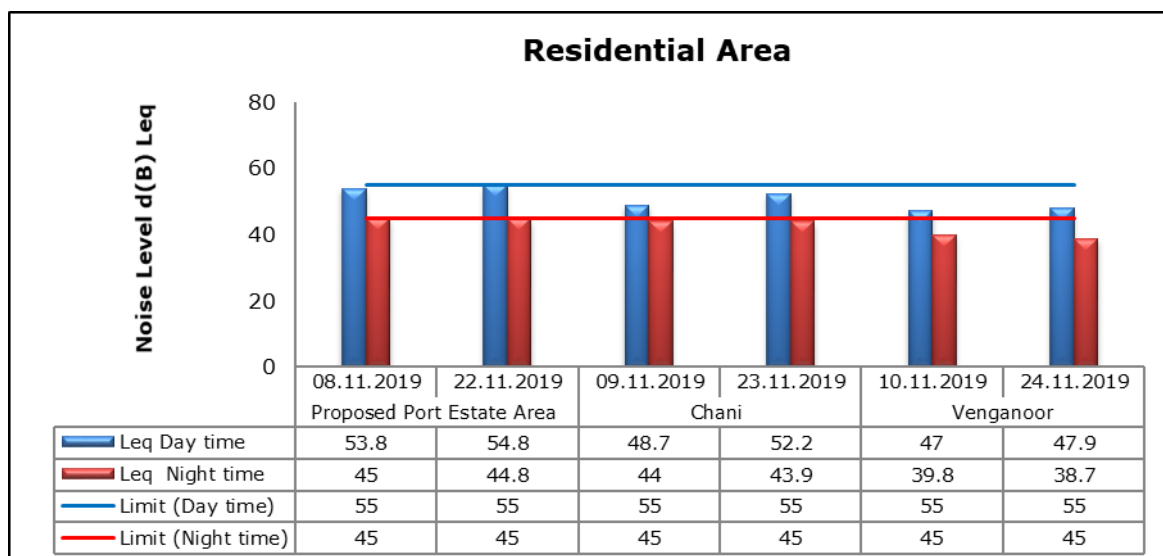
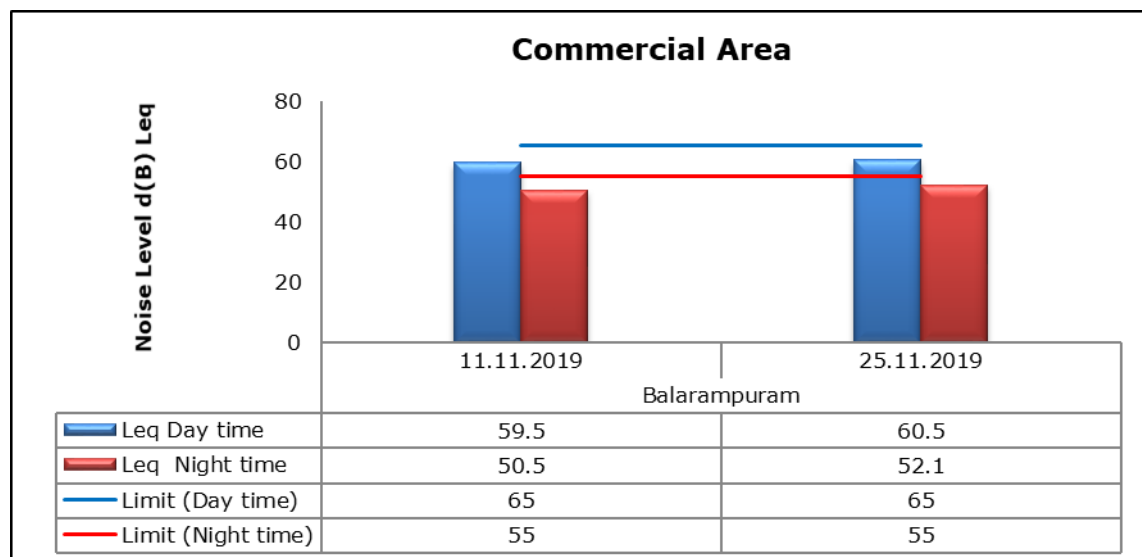
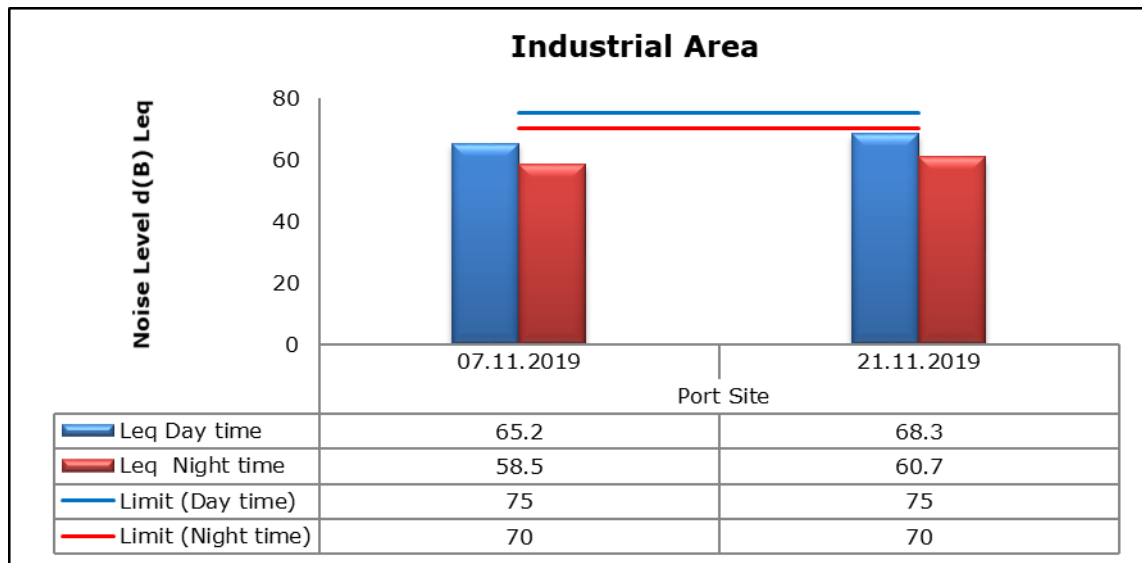
Ambient Air SO₂



Ambient Air NO_x

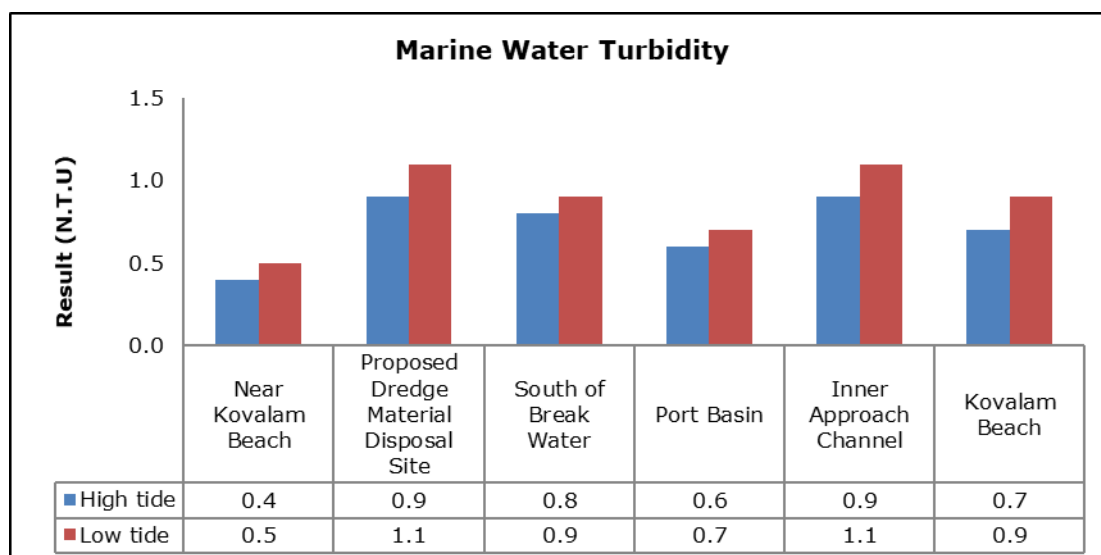
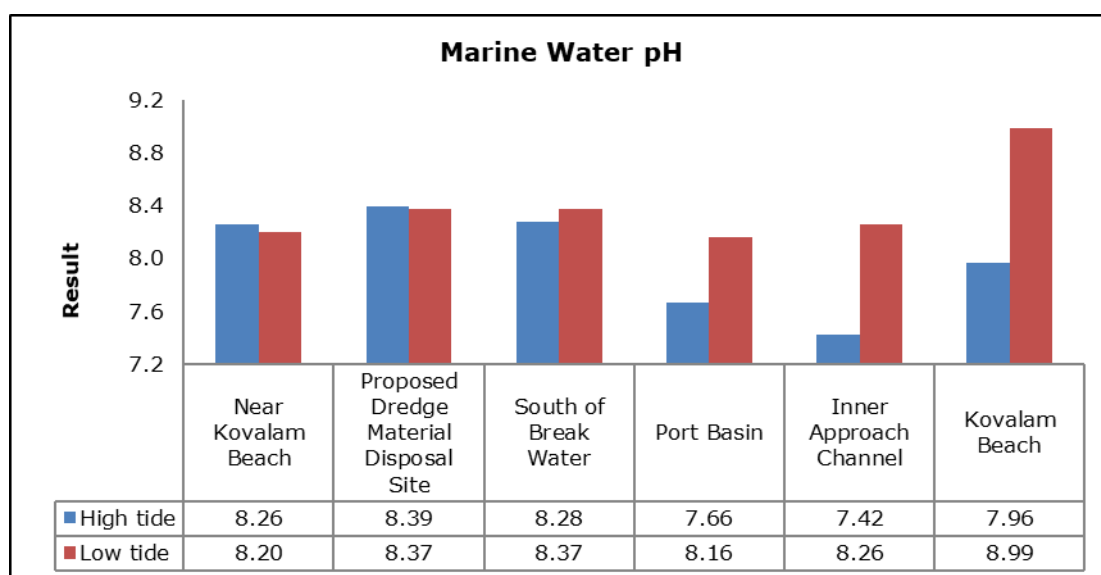
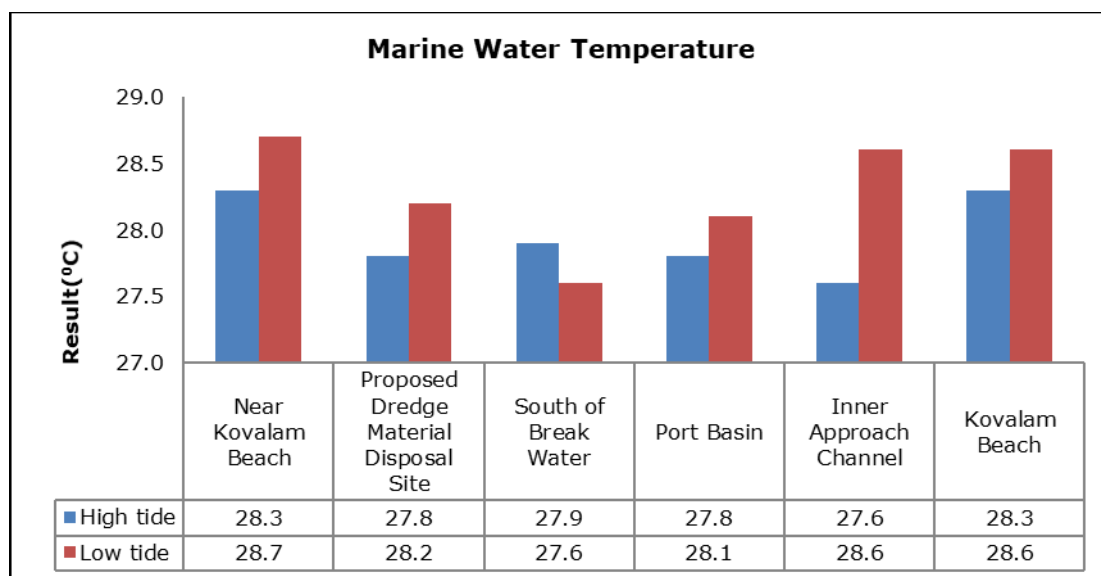


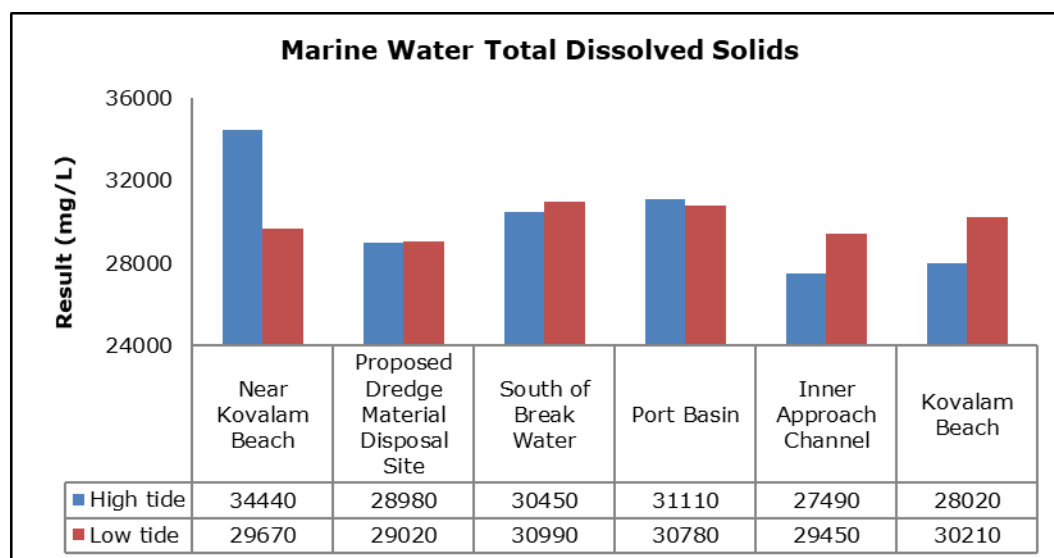
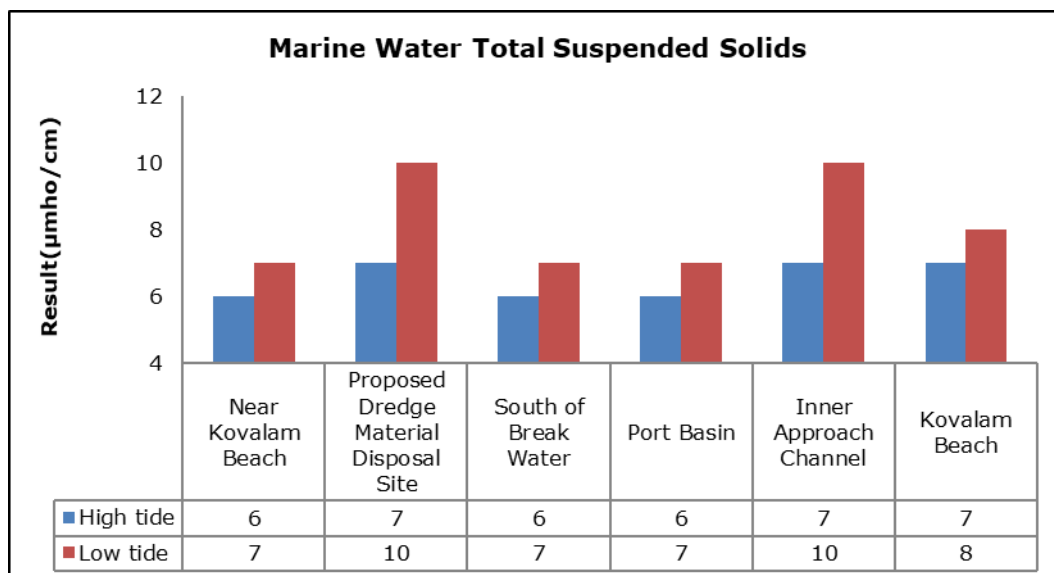
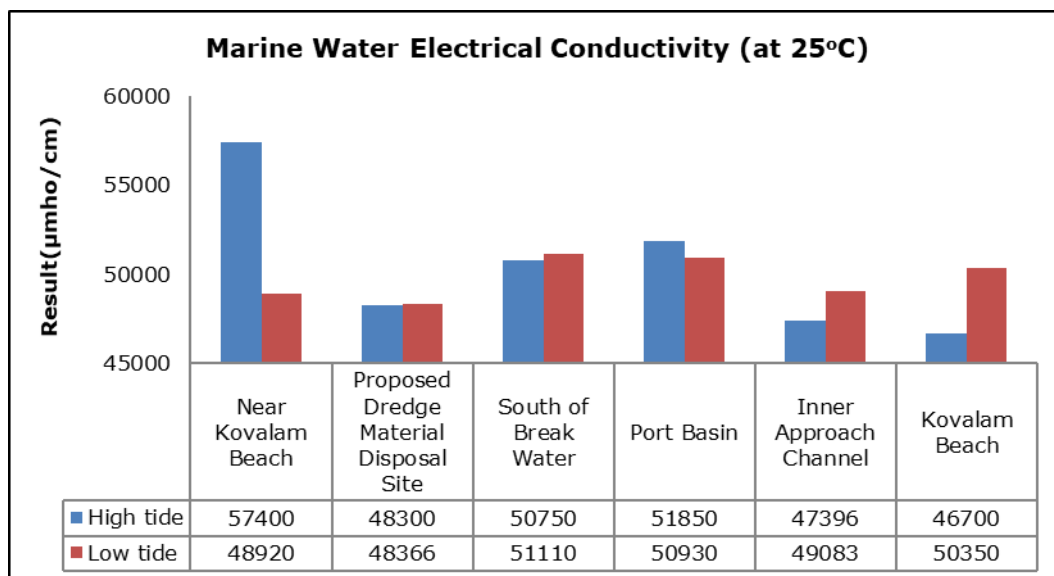
3. Ambient Noise

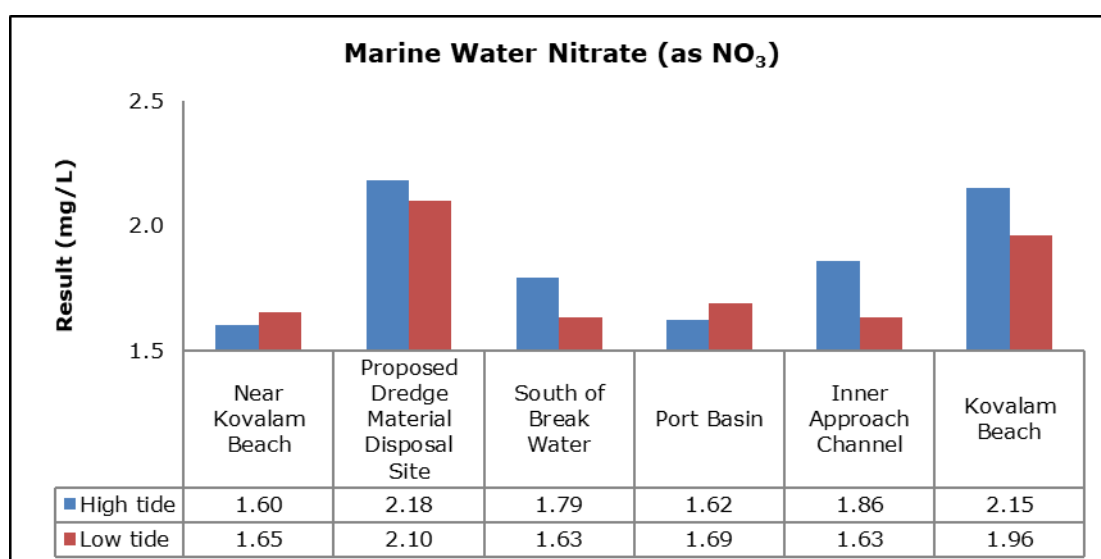
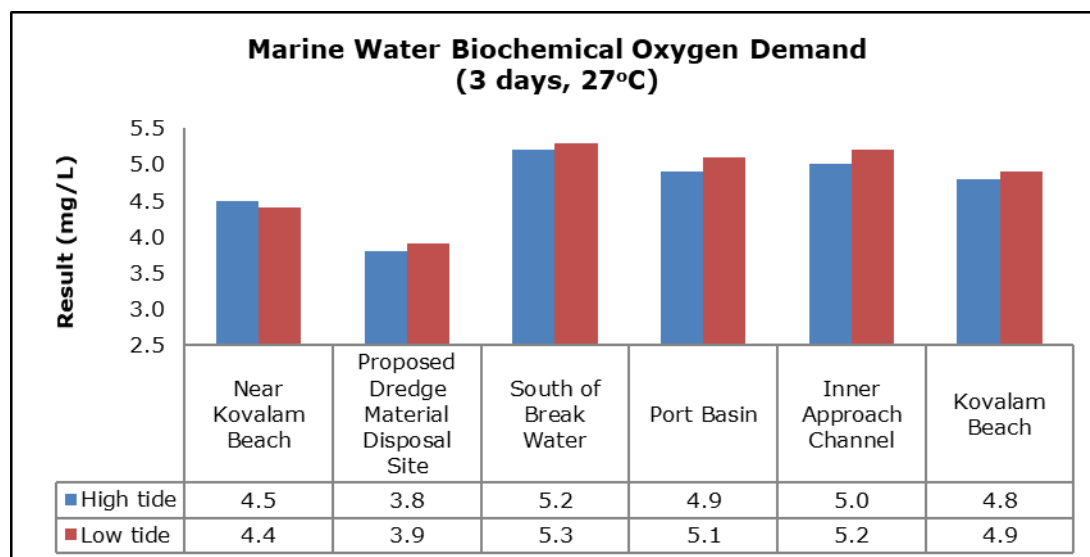
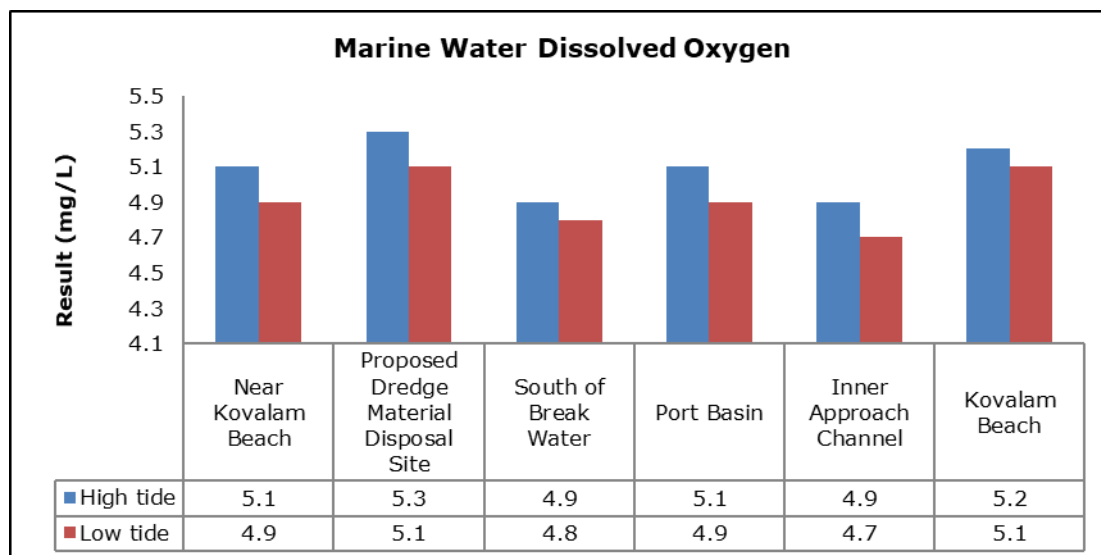


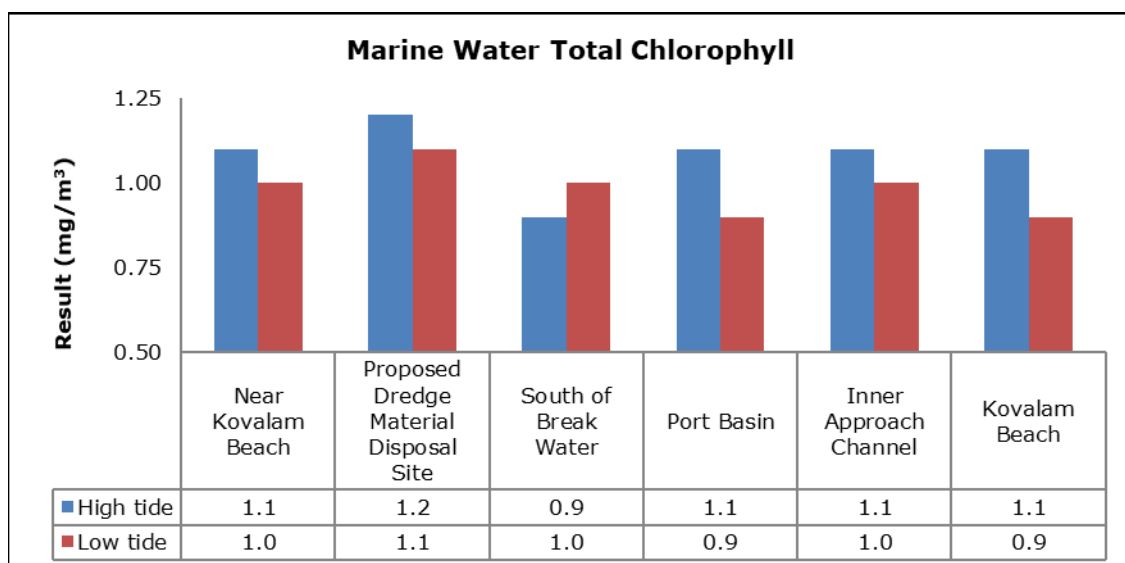
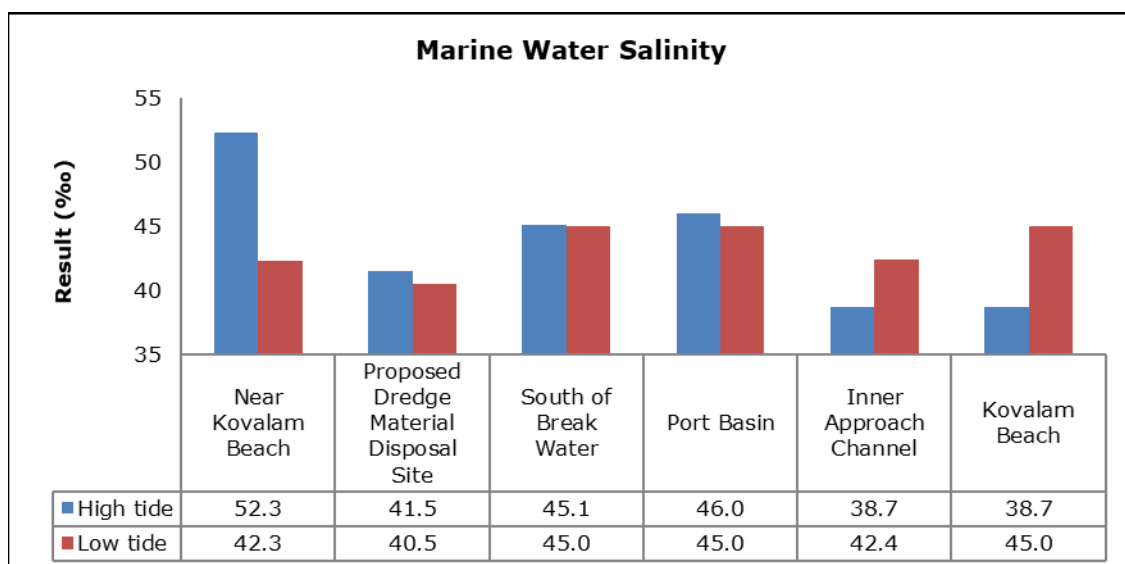
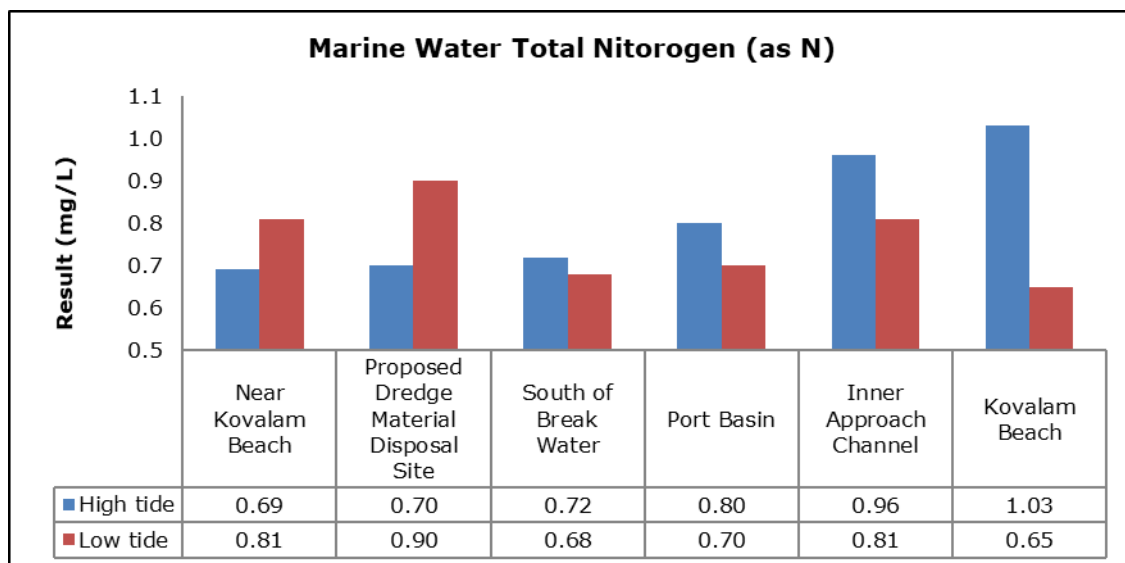
4. Marine Survey

4 a. Marine Water Analysis

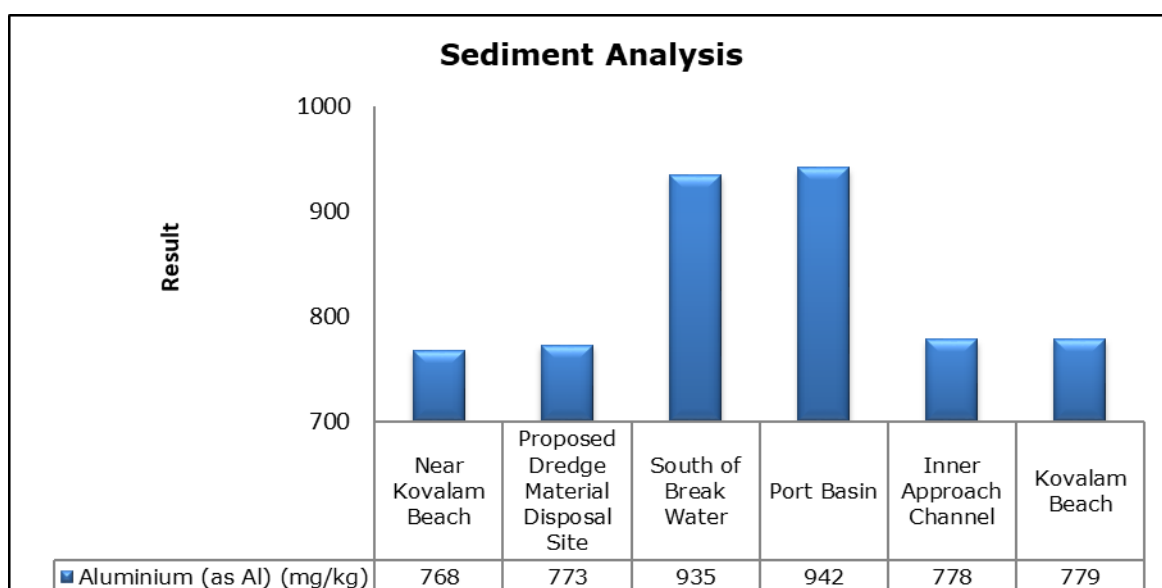
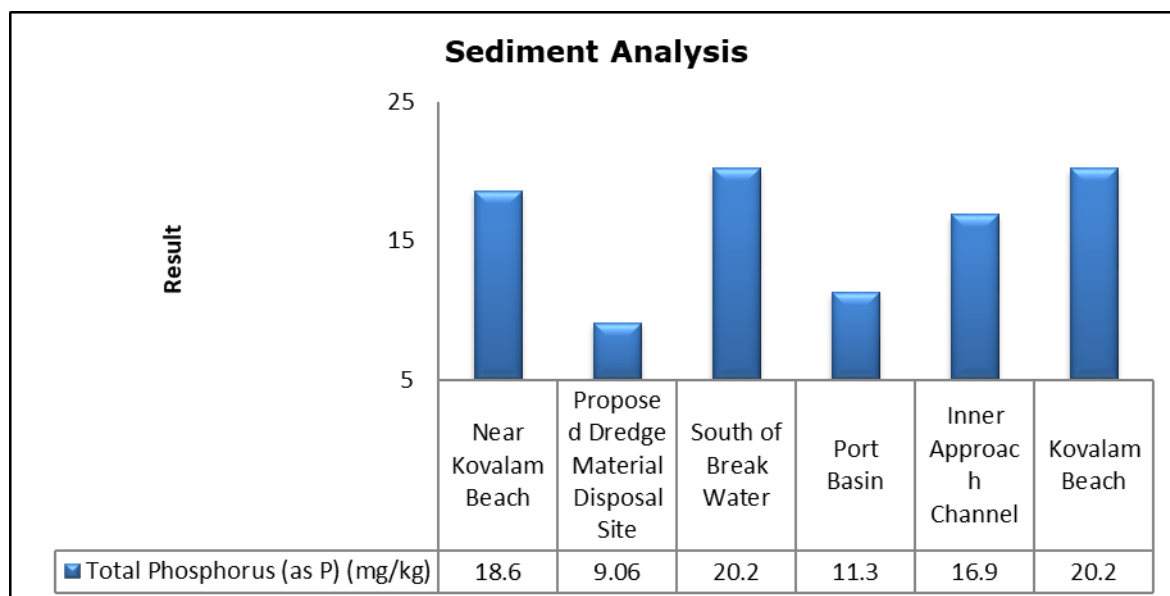
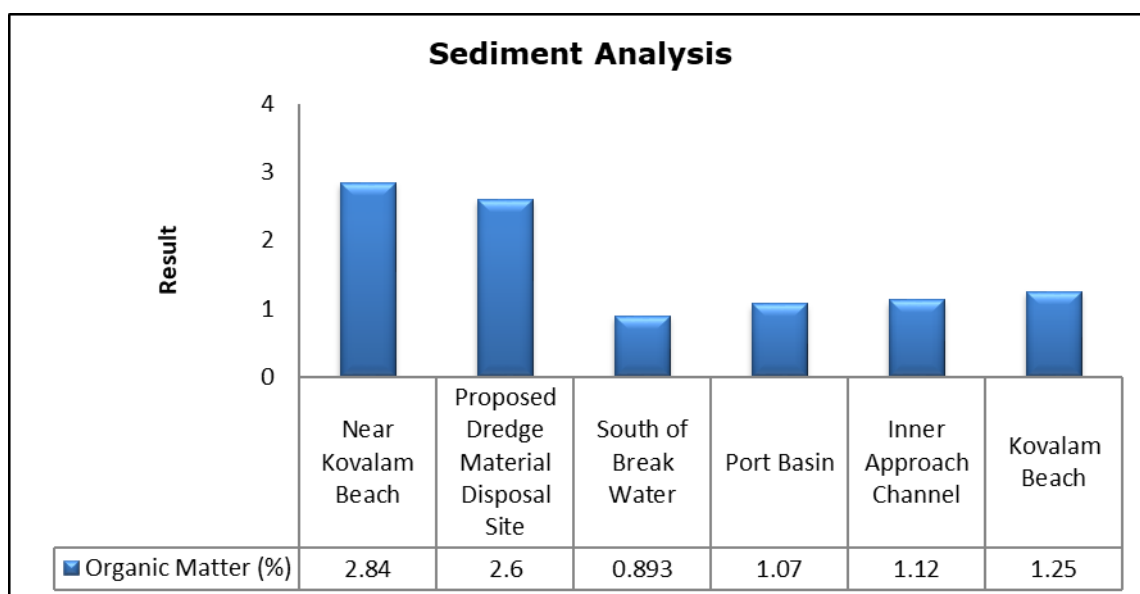


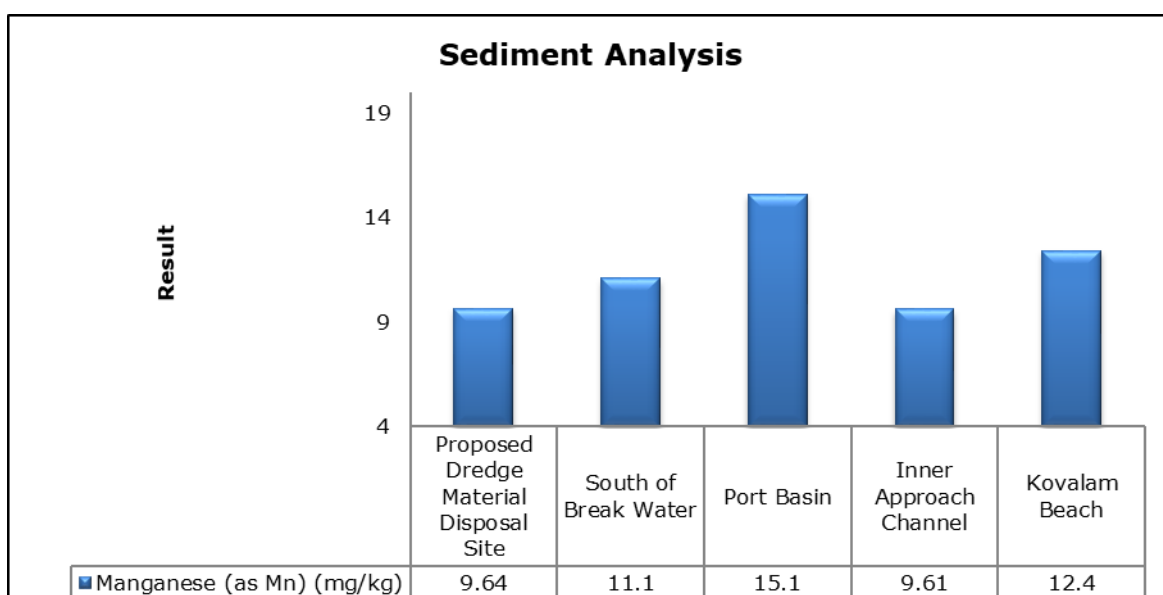
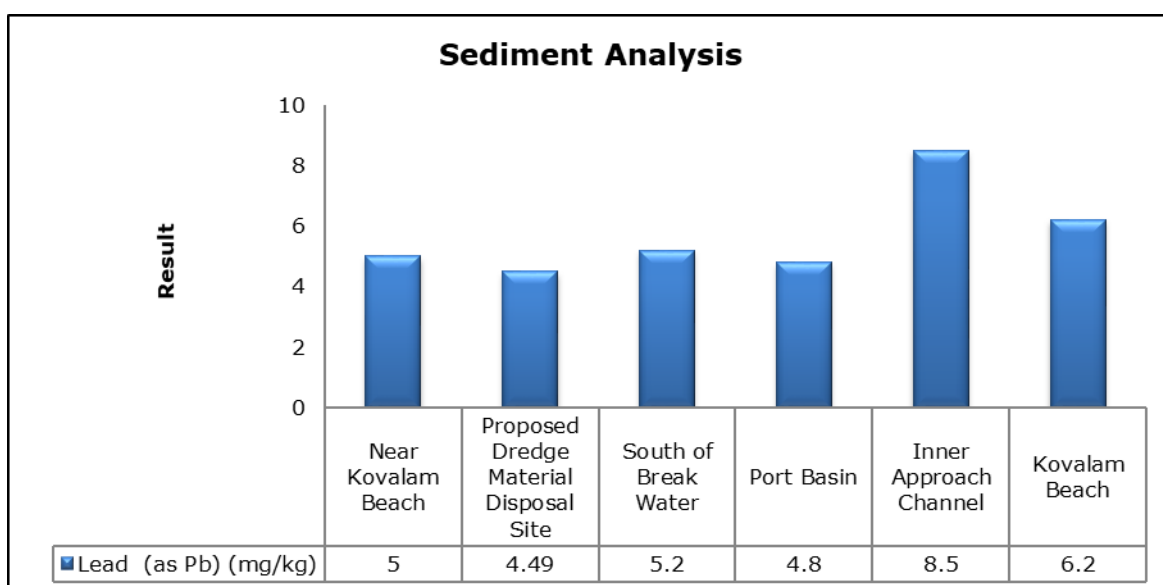
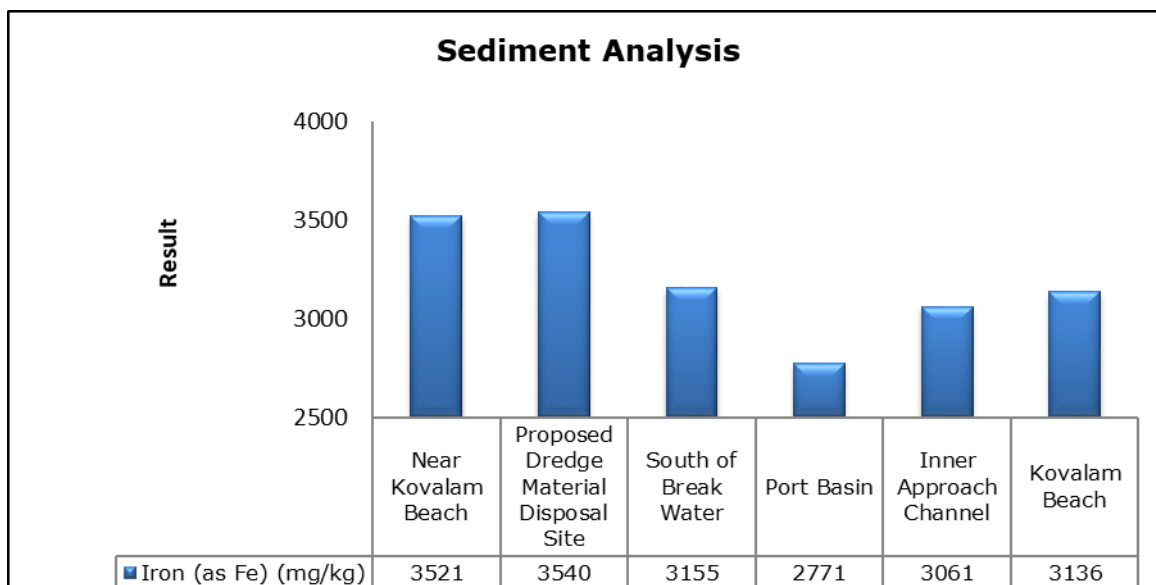


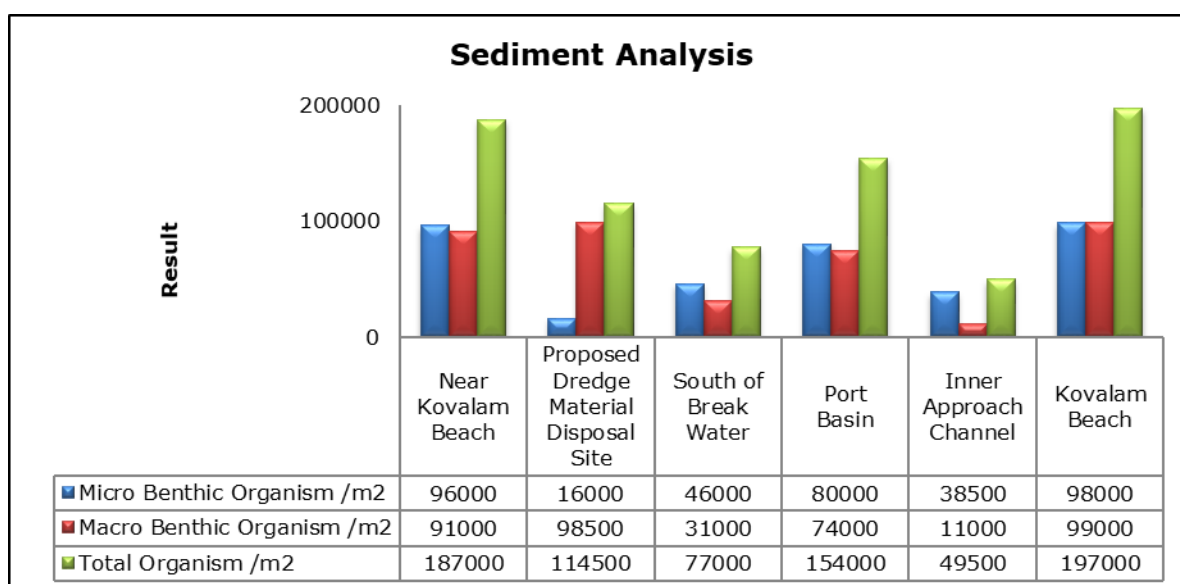
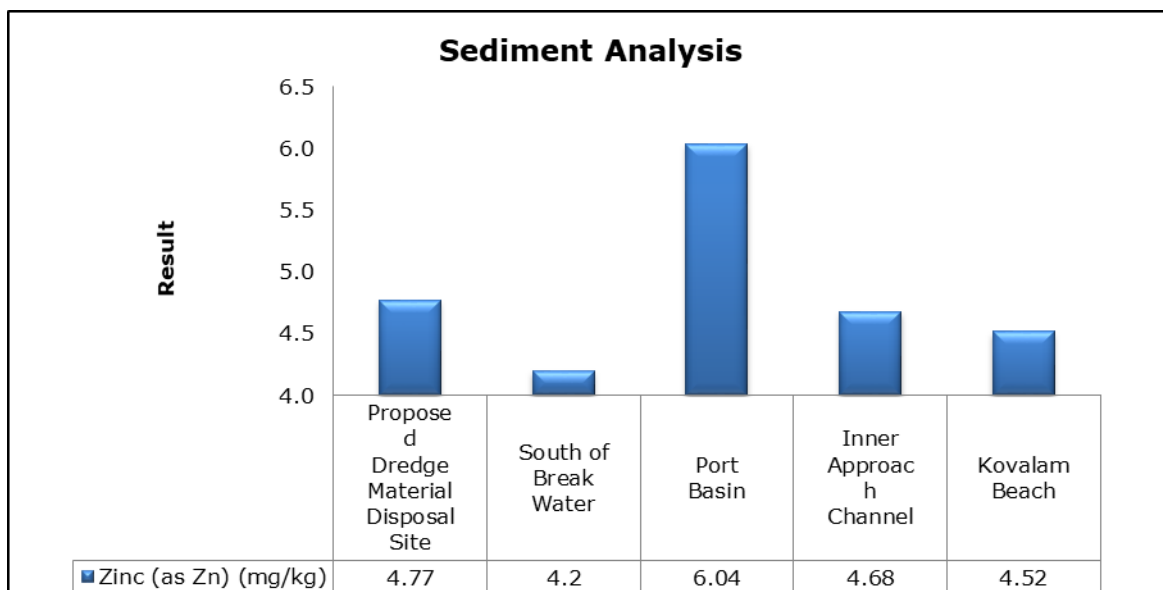




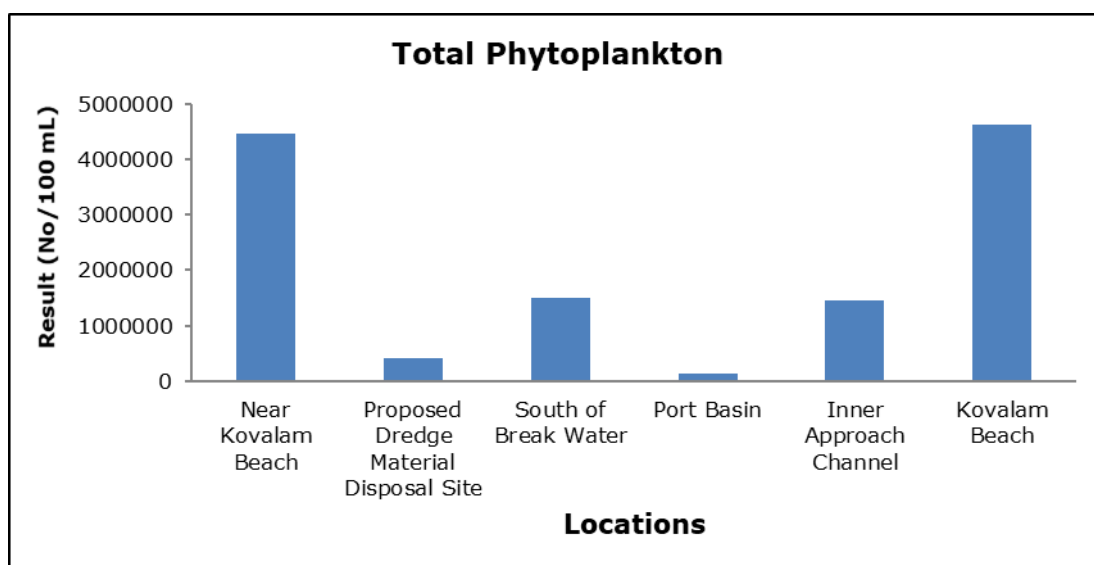
4 b. Sediment Analysis



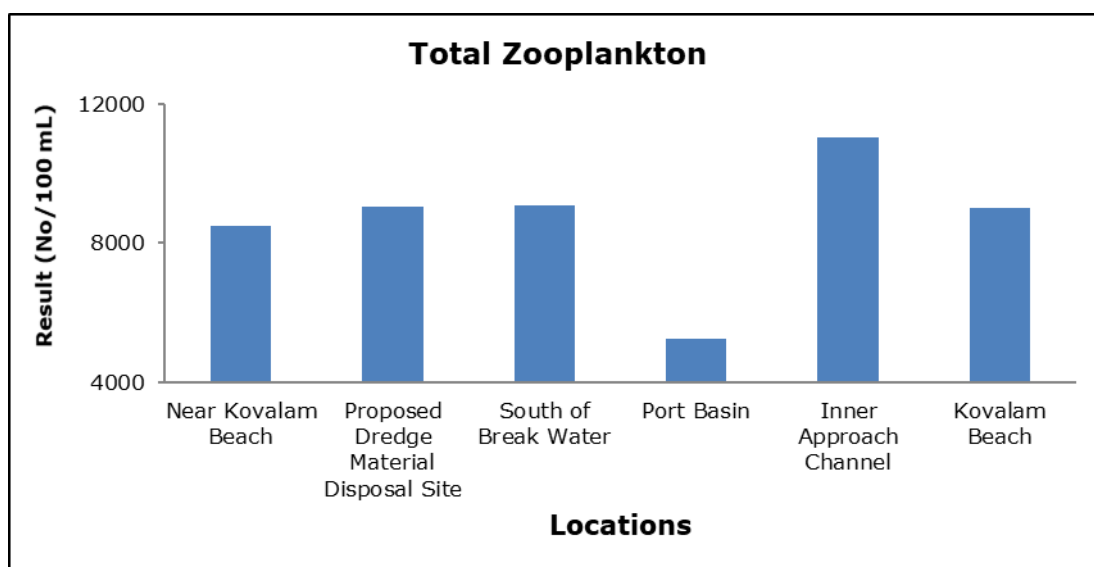




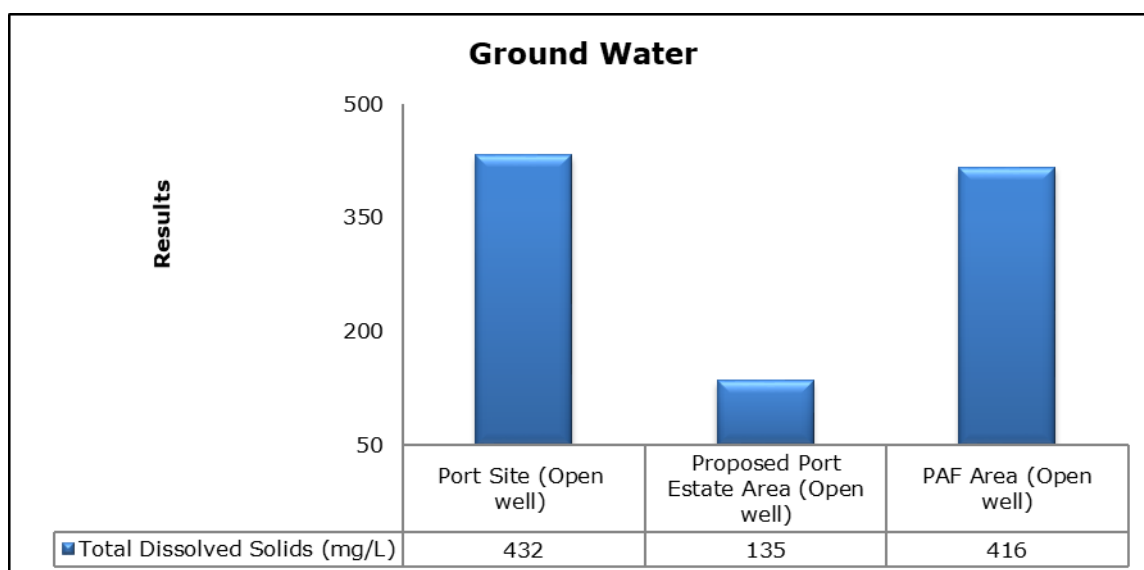
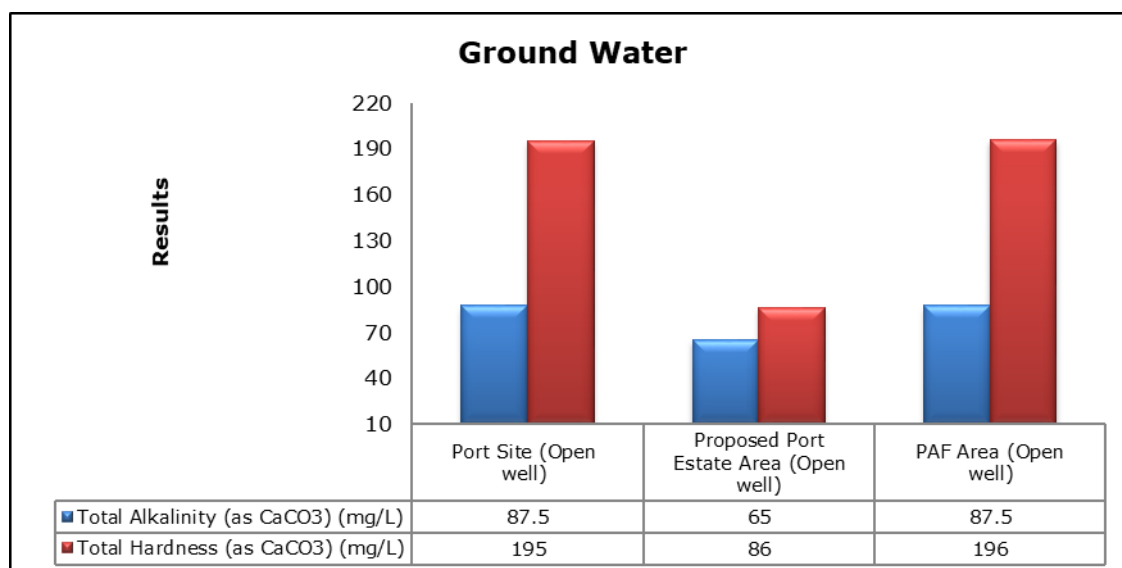
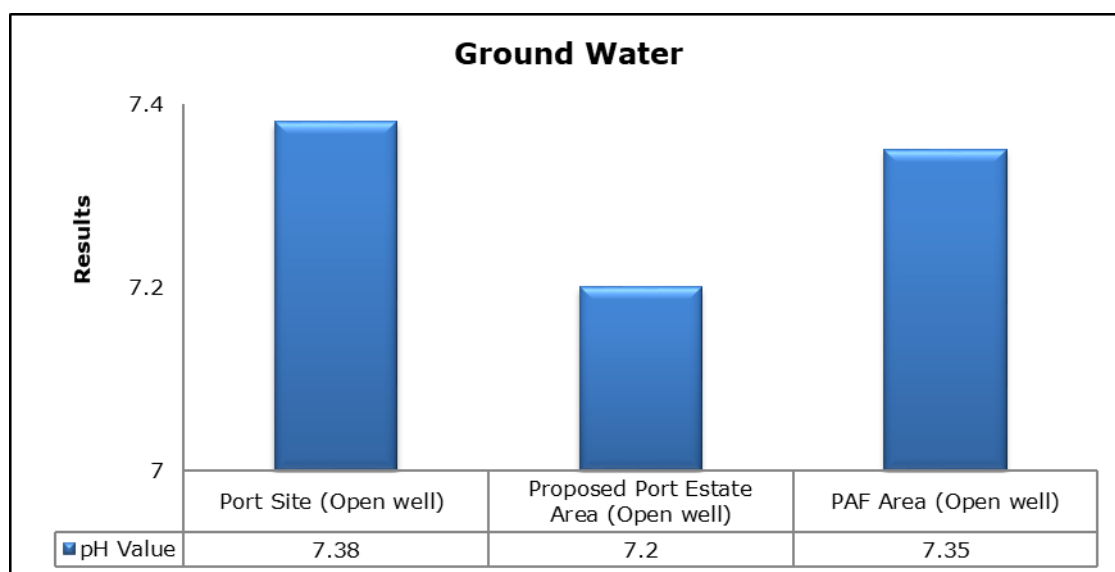
4 c. Phytoplankton Analysis from Marine Samples

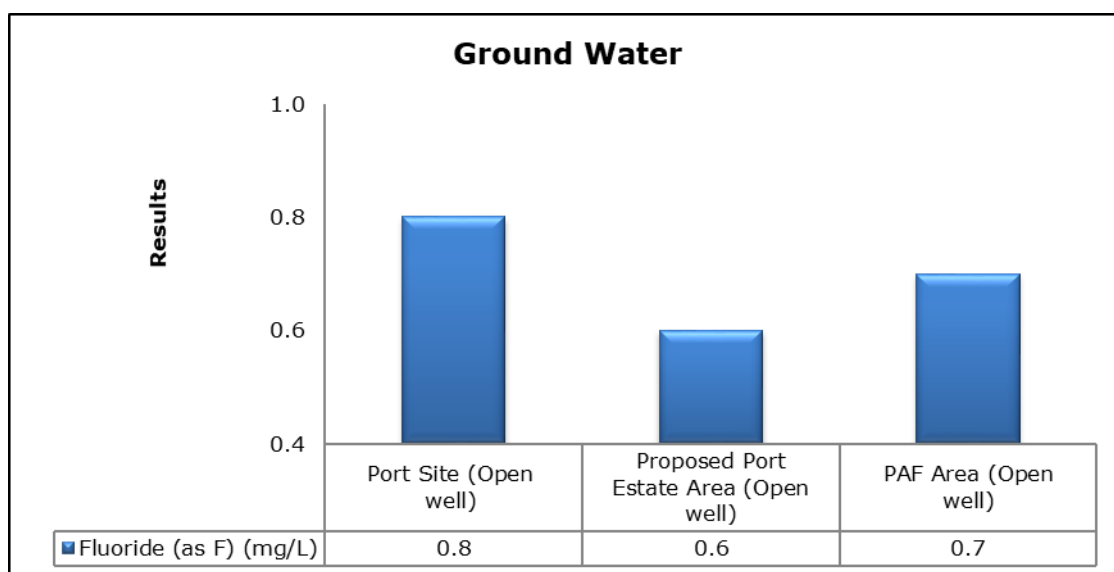
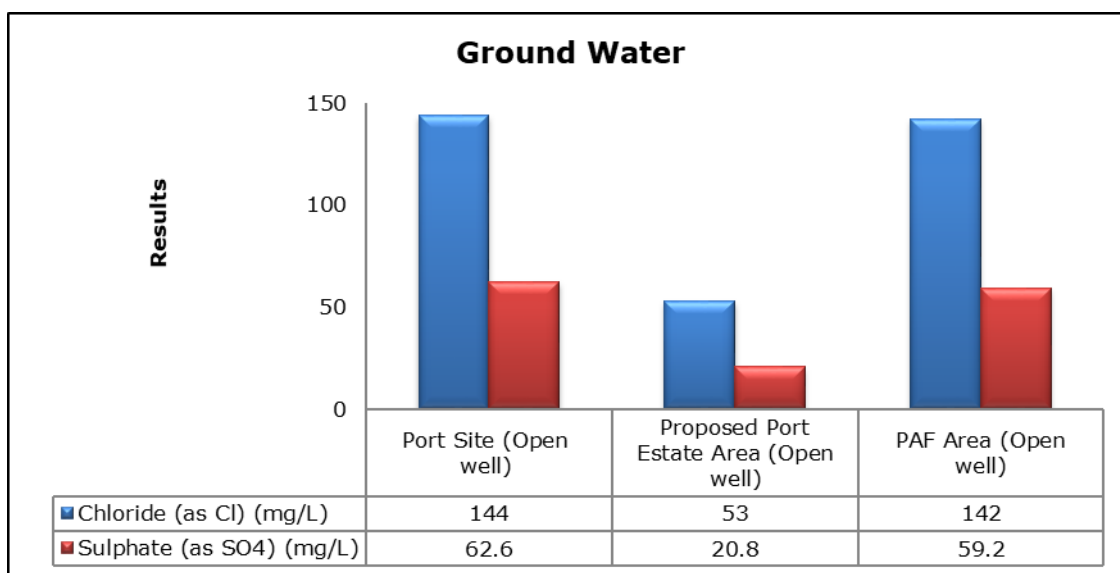
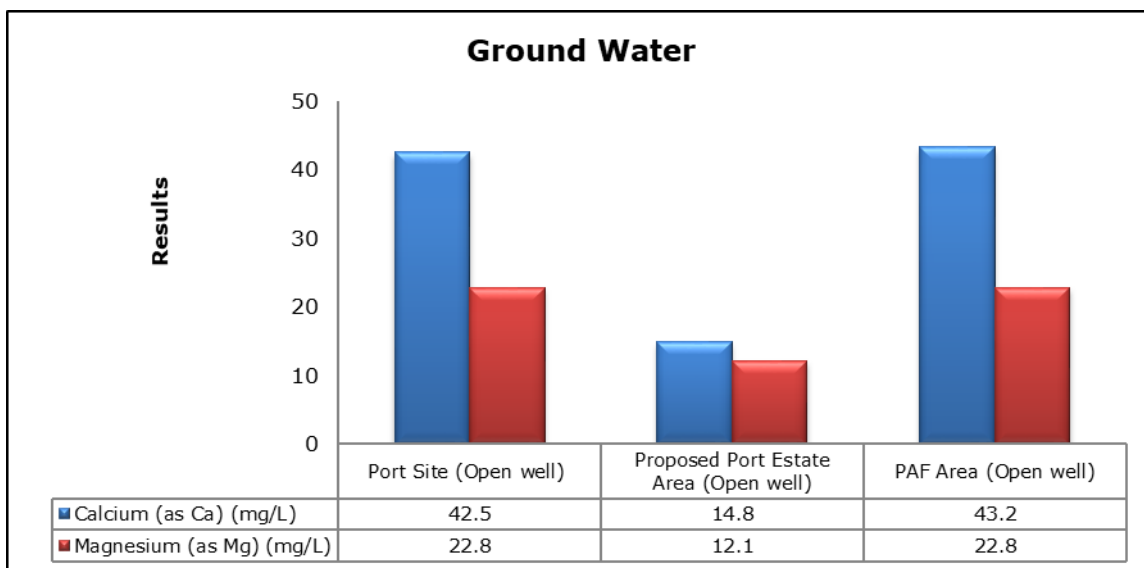


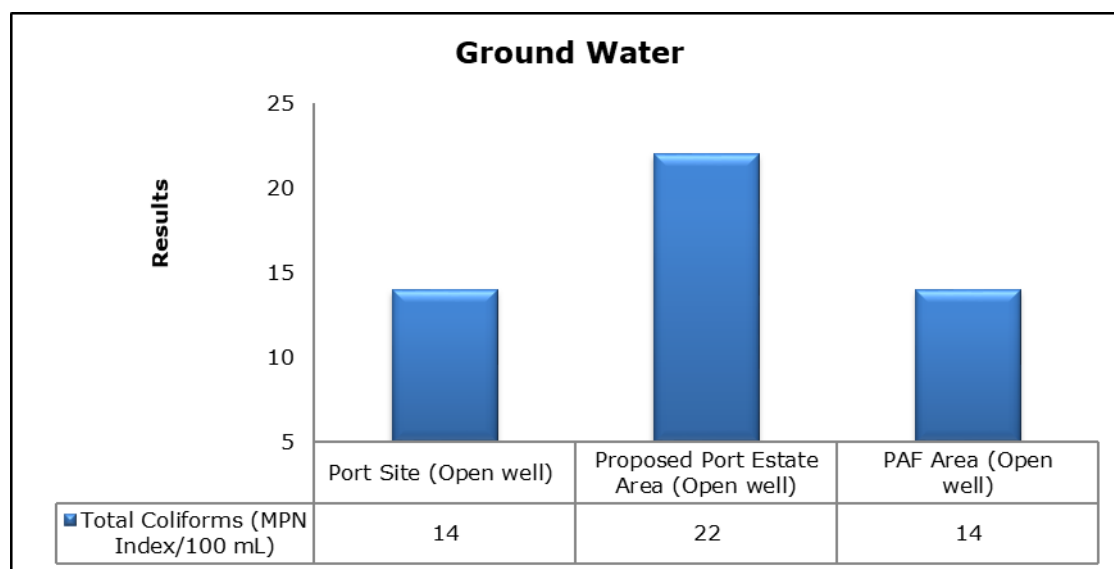
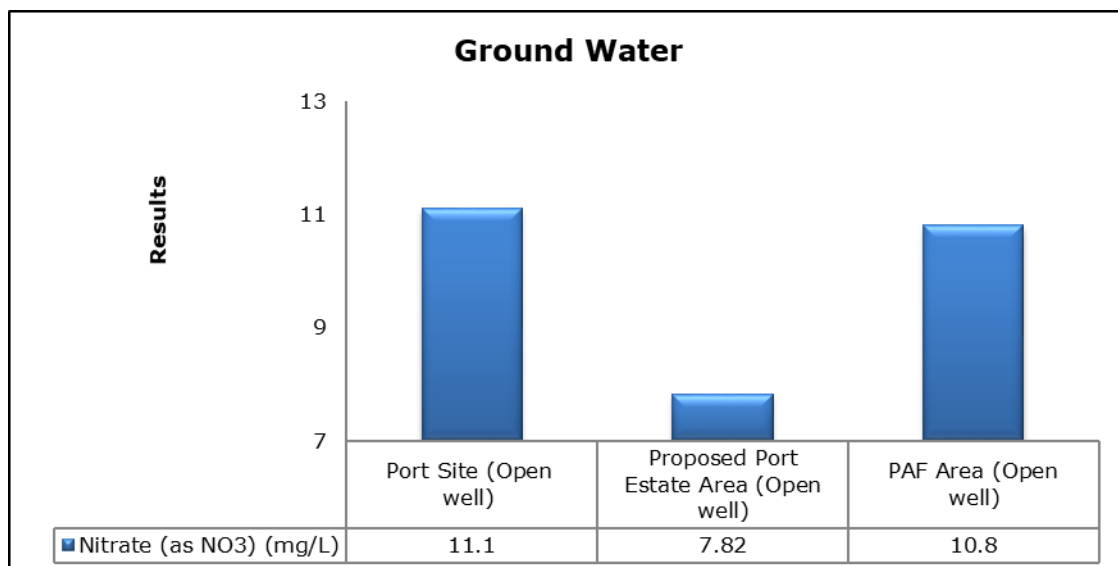
4 d. Zooplankton Analysis from Marine Sample



5. Groundwater Analysis







6. Surface Water Analysis

