3.0 INTRODUCTION

Before conducting the study, designing the work that will be done during the study is crucial in ensuring the smoothness of the study. This will give a more clearly and concisely in an effort to achieve the objectives of the study.

3.1 STUDY AREA

Belat River is one of the rivers that are located in Tanah Putih, Kuantan. Belat River is once famous as tourist anglers. The location of Belat River is near the industrial area Batu 3 Tanah Putih, Kuantan. Figure 3.1 shows the location of Belat River. As it is near to the industrial area, this river is exposed to water pollution problems that caused by the industrial sector. The effluent from the nearby industrial area if do not treat well will enter the stream and affect the water quality of the Belat River.

This location was chosen based on preliminary observations made where there is a critical source of pollution due to industrial adventure. Wastewater from the industrial activities is identified as the source of contamination.
3.1.1 Flow Chart

Figure 3.1 shows the flowchart of the study methodology.

Study area selection

Survey of the study area

Literature review

Water quality data collection

Data analysis

Thesis writing

Figure 3.0: Location of the Belat River

Figure 3.1: Flowchart of the research framework.
3.1.2 Stations of Sampling

The locations of sampling stations were determined first before the sampling process can be conducted. This is done by observing the plan Belat River and a visit to the site survey to find out the landscape before sampling is done. This is to ensure that the sampling process runs smoothly.

Water sampling locations are determined by several factors. The main factors that have been considered are:

i. Direction of effluent from the industrial area to ensure that the sampling really contents with the industrial waste material.

ii. Topography is considering whether there are barriers of the natural soil structure or high slopes. Location of the stations selected in the flat land because it facilitates the sampling works.

Three sampling stations were established in the study area. Selection is based on the observations and a survey that has been conducted on the suitability and facilities for sampling works. The location of the station is as in the figure 3.2.

![Figure 3.2: Location of Stations](image-url)