Marina Development
Strand Road,
Monkstown, Co. Cork

Sediment Sampling Specification

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Client: *Monkstown Bay Marina Company*

Cronin Millar
Consulting Engineers
Civil • Marine • Structural • Environmental

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1.0 Introduction

As part of the planning application submitted on behalf of Monkstown bay Marina Company Ltd. to Cork County Council, an EIS was prepared. A Request for Further Information (RFI) was issued by Cork County Council. Part of this request identified the need for the results of sediment testing from the target dredge area to be submitted.

It is proposed to reuse the suitable material (sands and graves that are dredged for the site. Unsuitable materials (silts) will be disposed of at sea or at a suitable licensed landside facility.

2.0 Site Location & Sampling Locations

The attached dredging plan indicates the locations of the proposed sampling points.

Sampling Points SP1 to SP4 are located within the proposed marina basin which will be dredged to achieve adequate design navigation depths. It is likely that both capital and maintenance dredging operations will be carried out in this area.

3.0 Sampling Methodology

It is proposed to take surface samples only for the purposes of this study. The type of sampling device will be agreed with Cronin Millar prior to sampling commencing. Appropriate sampling equipment shall be used, e.g. stainless steel devices for samples requiring analysis for metals.

All sampling shall be carried out by trained personnel in accordance with appropriate procedures.

All sample containers and foil lid liners shall be acid washed for metals and solvent rinsed for organics.

Sample jars shall be labelled with sample identity, date, location, sediment depth and water depth.

4.0 Sample Analysis

The following analysis shall be carried out on all samples:

1. Visual Inspection: Colour, texture, odour, presence of animals etc.
2. Water content, density.
3. Granulometry: % gravel, % sand, %silt.
4. The following determinants in the sand-silt fraction:
   - Total Organic Carbon
   - Mercury, arsenic, cadmium, copper, lead, zinc, chromium, nickel, lithium.
   - Tributyltin (TBT), dibutyltin (DBT).