

Appendix 1

Tier 1 Study

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CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Our Ref: P1530

Mr. Kieran Duffy
Scotch Corner Landfill
Letterbane
Annyalla
Castleblaney
Co. Monaghan

Date: 10th April 2018

Re: Tier 1 Environmental Assessment at Scotch Corner Historic Landfill –
Proposal Letter

Dear Kieran,

Further to your recent request, Fehily Timoney (FT) is pleased to provide this proposal for the preparation of a Tier 1 Environmental Risk Assessment for the Scotch Corner Historic Landfill, Castleblaney, Co. Monaghan.

FT have extensive experience in the preparation of Tier 1, 2 & 3 Risk Assessments and have expertise in groundwater, geotechnical and hydrogeological risk assessments.

A Tier 1 Assessment is a preliminary assessment of a site which comprises a desktop study and site walkover to describe the site and develop a preliminary conceptual site model (CSM). The CSM will be developed using information obtained from the desk study, site inspection and preliminary risk assessment.

The Site

MCCs operated a historic landfill across the road to the south from t Scotch Corner Landfill. Landfilling on the site ceased in 1991 and the site approximately 4.5 hectares.

Information from existing borehole records indicates that waste in this historic landfill is mainly deposited directly over the bedrock.

The Tier 1 risk assessment will be compiled as per the EPA Code of Practice: Environmental Risk Assessment for Unregulated Waste Disposal Sites.

Tier 1 Table of Contents

The Tier 1 Risk Assessment Report for the landfill will be prepared considering the following:

Introduction

A brief overview of the site.

Site Description

Land use, topography, historical landfilling activities.



Geology

Soils mapping, GSI mapping and other resources will be utilised to characterise and map geology of the site.

Hydrogeology

Aquifers and other geological features will be classified and identified.

Ground Water Vulnerability

The Geological Survey of Ireland have produced a GW vulnerability map and resource for the island of Ireland. This will be consulted to classify the vulnerability – low, moderate, high or extreme are the classifications.

Hydrology

Floodplains, rivers, lakes and other water features close to, on or near the site require identification.

Ecology

A review will be undertaken to identify SPAs, SACs, NHA or any (candidate) cSAC'S/cSPA's within 10km from the vicinity of the site.

Previous investigations

FT understand that a site investigation was undertaken in October 2002 at the site of the historic landfill. This will be reviewed and discussed in the Tier 1 report. A summary of the historic investigation is provided below.

2002 – six deep boreholes were drilled and screened in bedrock (B1 to B6) and six shallow boreholes (B1a to B6a) were drilled and screened only in the overburden. Within the historic landfill waste body, boreholes SI1, SI2, SI3 and SI6 were drilled through overburden of fill/made ground, waste and boulder clay and into bedrock. These boreholes are still present on site, with the exception of SI3, but are not included in the waste licence monitoring programme.

Seven trial pits (TP1 to TP7) were also excavated in the area of the historic landfill.

Site Walkover

This site walkover/survey is an integral part of the Tier 1 Risk Assessment Methodology and will allow for the information collated during the desk study to be confirmed or otherwise. The purpose of the walkover will be to identify, confirm or rule out the source, pathways or receptors (S-P-R linkages) as identified by the desktop survey.

Risk Classification

Tier 1 assessment assign a risk classification to the site in accordance with the Guidance Document.



Fee Proposal

The proposed fee associated with the preparation of the Tier 1 assessment is outline in Table 1 below.

Table 1 Professional Services Fee

ID	Task	Professional Fees (Excl expenses and VAT)
1	Site Walk Over	€520
2	Tier 1 Risk Assessment Report	€1,440
Total:		€1,960

Proposed Programme

FTC can commence works within 1 week of appointment.

Should you have any further queries in relation to this proposal, please do not hesitate to contact the undersigned.

Yours sincerely,


James O'Neill

for and on behalf of Fehily Timoney & Company

Encl.