

BLUE SKY RESOURCE RECOVERY LTD.

LISBANE LANDFILL

ENGINEERED BUND CQA PLAN

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1 Introduction

1.1 General

Taggarts were appointed by Blue Sky Resource Recovery Ltd. to prepare a Construction Quality Assurance (CQA) Plan for the installation of an engineered bund at Lisbane Landfill Site. This plan has been prepared in accordance with NIEA requirements and relevant guidance documents.

1.2 Location

Lisbane Landfill Site is located on Aughlish Road, approximately 2.3km southeast of Tandragee. The Irish Grid Reference for the site is J 04803 44531. The site previously accepted a variety of primarily non-hazardous wastes since 1997. The site was constructed as a containment landfill with a groundwater management system and a composite lining system. The immediate surrounding area is primarily agricultural, open farmland with scattered farm buildings and dwellings.

1.3 Project Description

The works will comprise the construction of 500mm compacted clay bund along the edge of the landfill area in order to retain any runoff. This runoff will then be pumped back into the landfill, where it will be extracted and treated at the leachate treatment plant. Further details of the works and approximate location can be seen on Drawing 15047-100B.

2 Definitions

For clarification, the following definitions are given:

Construction Quality Assurance (CQA) - A planned and systematic pattern of all means and actions designed to provide confidence that items or services meet contractual and regulatory requirements. Construction Quality Assurance refers to means and actions employed to assure conformity of the lining system, i.e. its preparation, production and installation, to this CQA Plan, the Contract Drawings and Specifications. CQA is provided by a party independent from production and installation.

Construction Quality Control (CQC) – Actions that provide a means of measure and regulation to characteristics of an item or service to contractual requirements. CQC refers to those actions taken by Manufacturers, Installers, Contractors, or the employer to ensure materials and workmanship meet the requirements of the plans and specifications.

Contractor - means the person or persons, firm, company or other body to whom the Contract has been awarded by the employer, and includes the Contractor's personal representatives or other parties, e.g. Sub-contractors, Manufacturer. The Contractor will undertake the execution of the works under the terms of the Contract.

3 Engineered Bund

The engineered bund is designed to retain any runoff from the landfill area of the site to ensure it is pumped by into the landfill. It will then be extracted to the leachate treatment system before being tankered off site.

The bund will consist of a 500mm compacted clay bund to ensure all runoff is captured by the bund. Only material deemed fit for purpose by the CQA Supervisor shall be utilised.

A sump pump will be installed at the low point, will extract the collected runoff and then pump it back into the landfill via the leachate extraction point. The runoff will then be pumped to the leachate treatment plant.

4 CQA Validation Report

A CQA Validation Report shall be submitted upon completion of the works. It will provide the following information:

- Final as-built plans and surveys including engineering details of the work;
- Records of any problems or non-compliance and the solution applied;
- A selection of photographs showing progress, compliance, noncompliance and any remedial actions; and
- Validation that all aspects of works have been completed in accordance with this CQA Plan unless otherwise agreed in advance with NIEA.

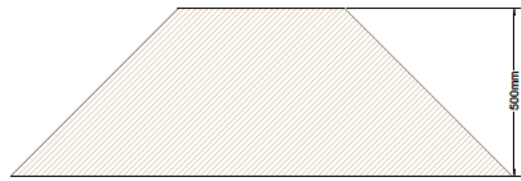
Appendix A **Drawings**



Engineered Bund
Sump Pump Pipework

Sump Pump
Location indicative only
To be located at lowest point confirmed on site

Leachate Extraction Pump



Compacted Clay Engineered Bund

REV	DATE	DESCRIPTION	DRN	CKD
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Taggarts

CLIENT BLUE SKY RESOURCE RECOVERY LTD.

CONTRACT LISBANE LANDFILL

DRAWING ENGINEERED BUND DETAILS

SCALE	1:1,000 @A3	DATE	26/09/23
DRAWN		CHECKED	
DRG No.	15047-100B	REVISION	

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