

BLUE SKY RESOURCE RECOVERY LTD.

LISBANE LANDFILL

ENGINEERED BUND AND GAS LINE

CQA REPORT



DOCUMENT CONTROL

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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) Report for the installation of an engineered bund and new gas line 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 comprised the construction of 500mm compacted clay bund along the edge of the landfill area in order to retain any runoff and the installation of a new gas line and knock out pot. This runoff is pumped the leachate treatment plant. Further details of the works and approximate location can be seen on Drawing 15047-102B.

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 Description of the Works

3.1 Parties/Responsibilities

Client: Blue Sky Resource Recovery Ltd.
Contractor: PC Plant (Bund) and McCormick Contracts (Gas
CQA Supervision: Line) Taggarts

3.2 Scope of Works

An engineered bund was required to retain any runoff from the landfill area of the site and to ensure it is pumped to the leachate treatment plant. The bund consisted of a 500mm compacted clay bund to ensure all runoff is captured.

A clay area in front of the bund was also installed and compacted via wacker plate to ensure a suitable surface. Only material deemed fit for purpose by the CQA Supervisor was utilised. A sump pump was installed at the low point, it will extract the collected runoff and then pump it to the leachate treatment plant.

A new gas line and knockout pot was installed in order to ensure the landfill gas management system is operating effectively. The new line consisted of a 225m MDPE pipeline which will connect with the knockout pot and then the existing gas network.

A drawing showing the layout of the works is shown in Appendix A.

4 Summary

This CQA Validation Report outlines the constructions quality assurance procedures in place throughout the works at Lisbane Landfill Site.

Taggarts were appointed as CQA Supervisors for the works and observed and monitored all works undertaken. The works were completed in accordance with the CQA Plan and completed to the satisfaction of the CQA Supervisor.

CQA Certificate

On the basis of supervising of the works carried out at Lisbane Landfill Site, we hereby certify that:

Engineered bund and new gas line works were carried out in accordance with the approved CQA Plan.

Signe



Date: 30/04/24

CQA Supervisor (for and on behalf of Taggarts)

Appendix A **Drawings**



KEY

- GAS PIPELINE
- GAS MANIFOLD
- GAS WELL
- MANHOLE RING
- APPROX. EXTENT OF COMPACTED CLAY AND BUND
- SUMP PUMP

REV	DATE	DESCRIPTION	DRN	CKD
CQA REPORT				

Taggarts

CLIENT	BLUE SKY RESOURCE RECOVERY LTD.			
CONTRACT	LISBANE LANDFILL SITE			
DRAWING	GAS WELLS AND BUND LAYOUT			
SCALE	1:1,000 @A3	DATE	30.04.24	
DRAWN		CHECKED		
DRG No.	15047-102B	REVISION		
Architects	23 Bedford Street Belfast BT2 7EJ			
Waste & Energy	t: 028 9066 2121 e: info@taggarts.uk w: www.taggarts.uk			
Project Managers				

Appendix B **Photographs**



Figure 1.1 – Compacted Clay Bund



Figure 1.2 – Sump Pump



Figure 1.3 – New Gas Line