

Caulmert Limited

Engineering, Environmental & Planning
Consultancy Services

Bryn Posteg Landfill Site
Sundorne Products (Llanidloes) Limited

Environmental Permit Variation Application

Expenditure Plan

Prepared by

Caulmert Limited

5 Farrington Way, Eastwood Link Business Park, Eastwood, Notts, NG16 3BF

Tel: 01773 749132

Fax: 01773 746280

Email: andystocks@caulmert.com

Web: www.caulmert.com

Doc Ref: 3428-CAU-XX-XX-RP-V-0314- A0-C1

May 2018

APPROVAL RECORD

Site: Bryn Posteg Landfill Site

Client: Potters Waste Managment Limited

Project Title: Landfill Permit Variation

Document Ref: 3428-CAU-XX-XX-RP-V-0314 A0 C1

Report Status: Final

Project Manager: Andy Stocks

Caulmert Limited: 5 Farrington Way, Eastwood Link Business Park, Eastwood, Notts, NG16 3BF

Tel: 01773 749132

Author	Andy Stocks	Date	17/05/2018
Reviewer	Sarah Venning	Date	21/05/2018
Approved	Andy Stocks	Date	31/05/2018

DISCLAIMER

This report has been prepared by Caulmert Limited with all reasonable skill, care and diligence in accordance with the instruction of the above named client and within the terms and conditions of the Contract with the Client.

The report is for the sole use of the above named Client and Caulmert Limited shall not be held responsible for any use of the report or its content for any purpose other than that for which it was prepared and provided to the Client.

Caulmert Limited accepts no responsibility of whatever nature to any third parties who may have been made aware of or have acted in the knowledge of the report or its contents.

No part of this document may be copied or reproduced without the prior written approval of Caulmert Limited.

SUPPORTING DOCUMENT**TABLE OF CONTENTS**

1	INTRODUCTION	3
1.1	Application context.....	3
2	PROVISION	3
2.1	The financial provision.....	3
3	ENVIRONMENTAL MONITORING	4
3.1	Monitoring Infrastructure.....	4
3.2	Testing Costs	4
3.3	Technician Visits.....	4
3.4	Surveys.....	4
4	CAPPING & RESTORATION.....	4
4.1	Area of capping.....	4
4.2	Restoration Soils	4
4.3	Capping costs	4
5	LEACHATE MANAGEMENT.....	4
5.1	Leachate Generation.....	4
5.2	Long Term Disposal Costs	4
6	LANDFILL GAS MANAGEMENT	5
6.1	Gas Abstraction Infrastructure	5
7	SURFACE WATER MANAGEMENT	6
7.1	Drainage.....	6
8	SECURITY.....	6
8.1	Fencing & Gates	6
9	SPECIFIED EVENTS.....	6
9.1	Leachate Head Rise above Trigger Levels	6
9.2	Repair/Maintenance of Cap.....	6
10	SITE REPORTS	6
10.1	Annual Environmental Performance Report	6
10.2	Final Environmental Report.....	6

Appendix 1 Expenditure Plan

1 INTRODUCTION

1.1 Application context

1.1.1 For all landfills, the financial provision (FP) arrangements should be established before a permit is granted. A financial provision assessment should be undertaken for:

- an application for a permit,
- an application to vary a permit, where additional obligations result

1.1.2 This variation application is to amend the final restoration profile of the landfill resulting from overtipping that has increased the amount of waste accepted. Therefore a revised expenditure plan is required to assess the financial provision required at the site.

1.1.3 The revised expenditure plan is contained within Appendix 1 which has been produced in accordance with EPR 5.02.2 - Guidance on Financial Provision for Landfill using the EA's latest template FP Expenditure Plan spreadsheet.

1.1.4 Therefore the structure of this expenditure is very different to the current approved expenditure plan to conform to latest guidance.

1.1.5 This document has been provided to provide further detail on how the financial provision was calculated within the expenditure plan.

2 PROVISION

2.1 The financial provision

2.1.1 The maximum provision of **£2,493,666** is required during the life time of the site in year one of the aftercare period following closure of the site. This figure includes for the capping of the final cell.

2.1.2 The provision will reduce by **£168,133** once capping has been completed and then reduce incrementally throughout the 60 year aftercare period in accordance with the estimated spend profile shown within the 'provision' tab spreadsheet.

3 ENVIRONMENTAL MONITORING

3.1 Monitoring Infrastructure

3.1.1 Monitoring infrastructure based on current and future requirements as stipulated within the permit and Annex 3 of the Landfill Directive (as per guidance). Estimated infrastructure design life as per guidance recommendations, replacement costs are based on Caulmert experience.

3.2 Testing Costs

3.2.1 Testing requirements based on the permit and Annex 3 of the Landfill Directive requirements. Testing costs are as provided by the operator.

3.3 Technician Visits

3.3.1 Monthly visits by a technician are included within the FP

3.4 Surveys

3.4.1 The cost of an annual survey is included

4 CAPPING & RESTORATION

4.1 Area of capping

4.1.1 The area of capping for the remaining phase are as those projected within the original FP expenditure plan and current phasing plans.

4.2 Restoration Soils

4.2.1 The restoration of the site (top soil application, seeding and tree planting etc.) is controlled by the planning consent and therefore not subject to Financial Provision.

4.3 Capping costs

4.3.1 The proposed capping for the remaining phase of the site is a LLDPE geomembrane overlain by a drainage geocomposite. The costs included in the spreadsheet were provided by the operator and based on previous capping work undertaken at the site.

5 LEACHATE MANAGEMENT

5.1 Leachate Generation

5.1.1 Leachate generation rates were taken from those predicted in the latest version of the Hydrogeological Risk Assessment Review (3400-CAU-XX-XX-RP-O-0301.A0-C1)

5.2 Long Term Disposal Costs

- 5.2.1 Treatment and disposal costs are as provided by the operator and are in accordance with those suggested within the guidance.

6 LANDFILL GAS MANAGEMENT

6.1 Gas Abstraction Infrastructure

- 6.1.1 Infrastructure based on that detailed with the latest version of the Landfill Gas Management Plan (3428-CAU-XX-XX-RP-V-0303.A0-C1) March 2018.
- 6.1.2 Estimated infrastructure design life as per guidance recommendations, replacement costs are based on Caulmert experience.

7 SURFACE WATER MANAGEMENT

7.1 Drainage

7.1.1 Assumes maintenance of a perimeter surface water drain around the whole site

8 SECURITY

8.1 Fencing & Gates

8.1.1 Based on existing security arrangements and Caulmert estimated costs

9 SPECIFIED EVENTS

9.1 Leachate Head Rise above Trigger Levels

9.1.1 Specified event includes for additional monitoring, groundwater testing, and installation of additional leachate abstraction point.

9.2 Repair/Maintenance of Cap

9.2.1 Updated from existing Provision

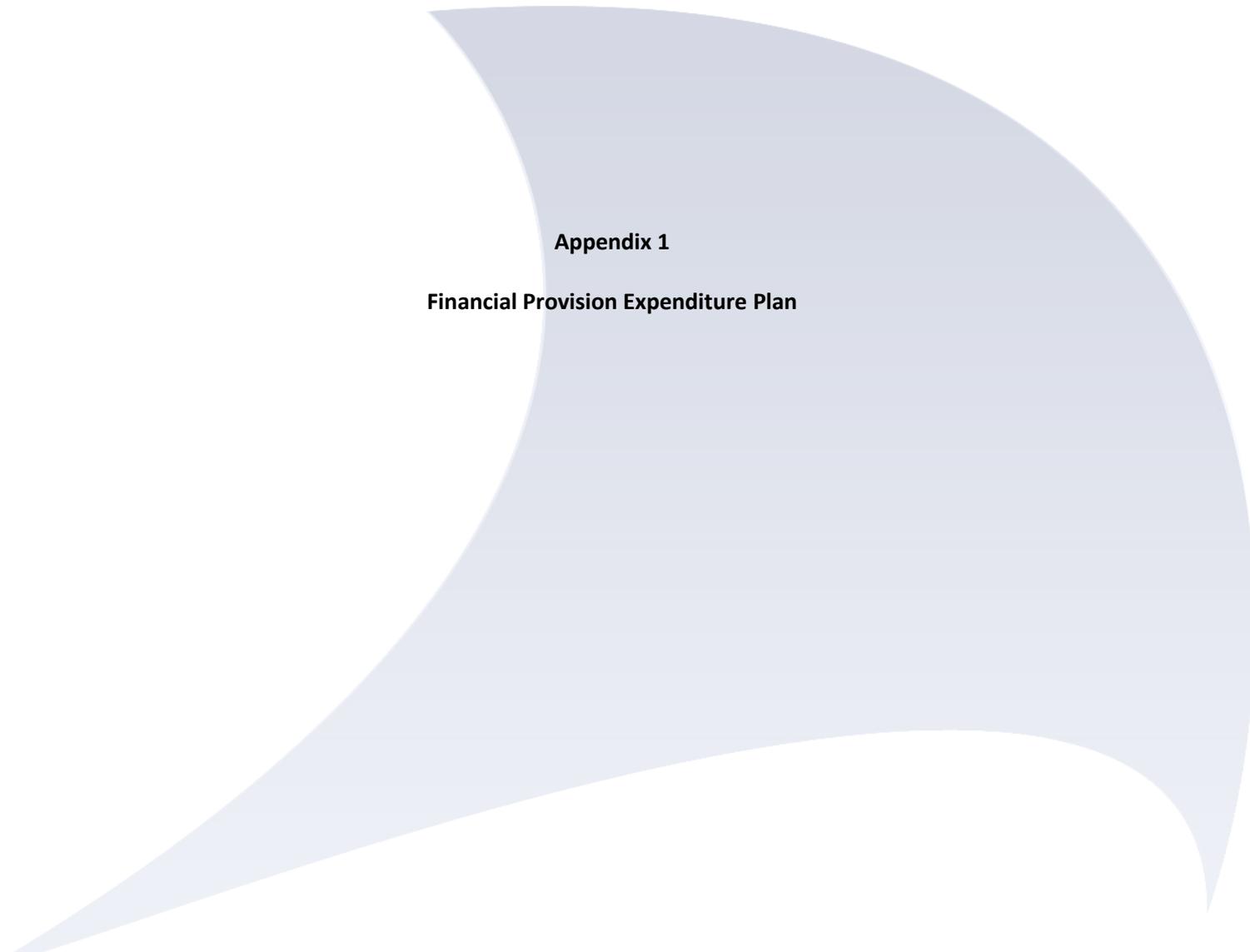
10 SITE REPORTS

10.1 Annual Environmental Performance Report

10.1.1 Provision of annual monitoring reports

10.2 Final Environmental Report

10.2.1 Provision of Final Report to support Permit Surrender



Appendix 1

Financial Provision Expenditure Plan



Registered Office: Parc Menai, Bangor, Gwynedd, LL57 4FG

Tel: 01248 672666

Fax: 01248 672601

Email: contact@caulmert.com

Web: www.caulmert.com