

NON-TECHNICAL SUMMARY

Environmental and sustainability solutions provided to
BRYN RECYCLING LTD

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Document Title	Non-Technical Summary
Client	Bryn Recycling Ltd
Revision	V2.0
Date	04/01/2024
Document Reference	BRY-A02
Project Reference	1213/J05
Author: Martin Ropka	Reviewer: Joseph Epicheff
	

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REVISION LOG

Revision	Details	Date
0.1	Initial draft	24/04/2023
0.2	Internal review	28/04/2023
0.3	Update following client review	08/06/2023
1.0	First issue	24/08/2023
2.0	Second issue	04/01/2024

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1.0 INTRODUCTION

This Non-Technical Summary sets out the considerations relevant to the recovery of up to 420,000m³ of inert waste materials by Bryn Recycling Ltd (hereon referred to as Bryn Recycling) at Gelliargwellt Farm, Gelligaer, Hengoed. It details the nature of the site, relevant site and infrastructure works, methods of operation and environmental controls. The inert waste material will be permanently recovered on largely agricultural land to the west of the Material Recycling Facility (MRF) at Gelliargwellt Farm. This waste will be recovered for the extension of the materials processing and storage yard at the existing Materials Recycling Facility and for the creation of a screening bund surrounding the southern and southwestern boundaries of this storage yard. These operations are required to enable higher recycling rates from the material being received at the MRF.

The Non-Technical Summary has been prepared in accordance with the following documents:

- The Environmental Permitting (England and Wales) Regulations 2016
- Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste

The Non-Technical Summary is in conjunction with the following documents:

- BRY-A01 Waste Recovery Plan
- BRY-A03 Site Condition Report
- BRY-B01 Environmental Permit Management System Manual
- BRY-B02 Environmental Risk Assessment
- BRY-B03 Dust Management Plan
- BRY-B04 Fugitive Emissions Management Plan
- BRY-B05 Noise & Vibration Management Plan
- BRY-B06 Accident Management Plan
- BRY-OP01 Environmental Permit Reporting
- BRY-OP02 Waste Acceptance
- BRY-OP03 Waste Recovery
- BRY-OP04 Maintenance Schedule
- BRY-OP05 Monitoring Schedule
- BRY-OP06 Recording Procedure

1.1 Site Address

Bryn Recycling Ltd
Gelliargwellt Farm,

Gelligaer Road,
Hengoed
CF82 8FY

1.2 Operational Location

Site Grid Reference: ST 12393 96501

1.3 Description

The area in which the waste would be deposited for recovery is within land that makes up part of Gelliargwellt Uchaf Farm. The primary vehicle access is from Gelligaer Road, which is located to the northwest of the site. It also connects neighbouring towns including Gelligaer and Penpedairheol which are located approximately 800m and 2,000m respectively, to the northeast of the site. Penybryn is located approximately 1,300m to the east, with the Penallta Industrial Estate located slightly further east. Caerphilly is located approximately 8.5km south of the site.

The site is bound to the south by agricultural land and Parc Penallta Country Park, which comprises an area of public open space and woodland is located approximately 850m to the southeast. Nelson Bog Site of Special Scientific Interest (SSSI) is located 550m to the southeast of the site. Waun Rydd Site of Importance for Nature Conservation (SINC) is located to the east of the site and Coed Gelliau'r – Gwellt SINC is located immediately adjacent (west) to the site and comprises an ancient woodland.

1.4 Plans

Reference Drawings: BRY_001 Site Location Plan
BRY_002 Site Layout Plan

1.5 Permits and Licences

Bryn Recycling Ltd (hereon referred to as Bryn Recycling) currently hold no permit for the deposit for recovery of waste but are seeking to obtain a Bespoke Environmental Permit for the recovery of 420,000m³ of waste. The waste would be recovered on the land for the extension of the materials processing and storage yard at the existing Materials Recycling Facility and for the creation of a screening bund surrounding the southern and southwestern boundaries of this storage yard. The Materials Recycling Facility operates under an environmental permit (permit reference number TP3695FC).

1.6 Planning Permission

An application for planning permission for the extension of the materials processing and storage yard and for the creation of a screening bund surrounding the southern and southwestern boundaries of this storage yard was submitted on 24/06/2022 and was validated on 27/06/2022 (reference number 22/0567/FULL). The application is currently awaiting a decision.

Planning permission was previously granted for the permanent operation of the MRF together with the erection of a new processing building and associated material storage bays (APP/K6920/A/12/2173010 – LPA Ref 11/0226/FULL) in 2012.

1.7 Hours of Operation

The site operates Monday to Friday, between 07:00 and 18:00 and on Saturday between 07:00 and 13:00.

Bryn Recycling is seeking permission to recover 420,000m³ of waste on largely agricultural land for the extension of the materials processing and storage yard at the existing Materials Recycling Facility and for the creation of a screening bund surrounding the southern and southwestern boundaries of this storage yard. A Standard Rules permit is not appropriate as the volume of waste to be recovered is more than 60,000m³. Therefore, a bespoke permit is required.

2.0 PROPOSED OPERATIONS

2.1 Proposed Development

Bryn Recycling propose to permanently recover of 420,000m³ of waste at Gelliargwellt Farm. The waste would be recovered on the land for the extension of the materials processing and storage yard at the existing Materials Recycling Facility and for the creation of a screening bund surrounding the southern and southwestern boundaries of this storage yard. The waste will be recovered in line with the requirements set out in the permit.

2.2 Operational Procedure

The materials that will be used within this proposed development are wastes that have been brought to site directly by small local landscaping contractors or utility companies via the MRF. These wastes will not contain any hazardous materials. The recovery of discarded

material is justifiable as it potentially diverts waste that would normally be going to landfill for disposal.

A detailed Waste Acceptance Procedure (BRY-OP02 Waste Acceptance) will be followed to ensure that only appropriate waste materials are accepted onto site.

2.3 Concrete Pad

The work proposed in this application is for the purpose of creating a level area on which the existing MRF processes could be extended by means of a material processing and storage yard. In order to do this, the profile of the land on which the processing and storage would be needs to be altered to create a plateau. This would be done by means of steepening the existing hillslope in the form of a bund to create a plateau at the top. This level area will then be covered in impermeable concrete and installed with a natural fall to direct surface water to a new surface water storage lagoon.

2.4 Bund

The bund will be located at the top of the newly profiled hillslope and will not only screen the extended material processing and storage yard and help to reduce the risk of fugitive releases from the extended area but it will also help to visually screen some of the existing infrastructure on the wider farm site.

The hillslope and bund will be topped with an additional 3,000 tonnes of non-waste (PAS 100 accredited compost) which will be used as a top layer to provide a growing medium for the planting of native broadleaf woodland linking to the existing Coed Gelliau'r-gwellt to the west.

2.5 Waste Types

The waste used for this development at Bryn Recycling will be inert. The specific types of waste are listed in BRY-OP02 Waste Acceptance. In summary, waste materials will be general fill type materials.

3.0 ENVIRONMENTAL IMPACT AND MITIGATION MEASURES

All facilities have an impact on the environment around them. An Environmental Risk Assessment has been undertaken to include all operations on site (document reference BRY-B02 Environmental Risk Assessment). The nearest protected habitat (Special Area of

Conservation (SAC), Special Protection Area (SPA), Ramsar Site or Site of Special Scientific Interest (SSSI)) is Nelson Bog SSSI to the south and Coed Gelliau'r-gwellt SINC immediately west of the site. Bryn Recycling will be employing process management and monitoring techniques which will mitigate the environmental impact within the sections listed below:

3.1 Dust

The site has in place a full Dust Management Plan (BRY-B03) which focuses on mitigating dust emissions from the site during the waste recovery operation.

3.2 Noise

There are residential properties within approximately 200 metres (sensitive receptors) of the facility. The site has in place a full Noise and Vibration Management Plan (BRY-B05) which focuses on mitigating noise and vibration emanating from the site during the waste recovery operation.

3.3 Flora and Fauna

The nearest ecological receptor is the Coed Gelliau'r-gwellt SINC immediately west of the site and Nelson Bog SSSI which is located approximately 600m south of the site.

3.4 Groundwater

The site is situated outside any Groundwater Source Protection Zones.

3.5 Surface Water

The proposed development will create surface water runoff from the extended MRF storage area and as the gradient of the slope increases. The extended storage area features its own surface water storage lagoon.

To combat the runoff from the hillslope, prior to the import of material under the Waste Recovery permit a new appropriately sized southern surface water attenuation lagoon will be constructed with appropriately placed temporary drainage channels directing surface water runoff from the works area directing waters to the lagoon. The location and number of these channels will vary as the works progress.

This information is presented in more detail in the Construction Environmental Management Plan.

3.6 Sensitive Receptors

There are residential properties within approximately 200 metres (sensitive receptors) of the facility, namely the properties on Gelligaer Road (B4254) at the top of the entrance road to the site, however these belong to Bryn Recycling. The closest independent sensitive receptor is Top Hill Farm which is 269m away.

4.0 TECHNICAL STANDARDS SUMMARY

WRM Ltd are acting consultants for Bryn Recycling who have commissioned WRM to produce a list of Technical Standards that the site will be working to during the operational lifetime of the permit.

As outlined within this document, Bryn Recycling are proposing to accept inert waste materials for recovery to land in place of non-waste materials at Gelliargwellt Farm. The table below presents a list of technical documents which have been utilised in order to produce this permit application and will continue to be in use as point of reference during the operational life of the permitted site. Documents have been sourced from regulatory bodies.

Table 1 – Deposit for Recovery Technical Standards

Technical Guidance Note	Document Reference
Develop a management system: environmental permits	DEFRA and NRW Guidance
Controlling and monitor emissions for your environmental permit	DEFRA and NRW Guidance
General guide to pollution prevention	EA Pollution Prevention Guidance
Waste acceptance procedures for waste recovery on land	NRW Guidance
Waste recovery plans and guidance	NRW Guidance
Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste	EA SGN IPPC S5.06