

# ENVIRONMENTAL PERMIT VARIATION APPLICATION FOR THE MATERIALS RECYCLING FACILITY

at

**BRYN QUARRY, GELLIARGWELLT FARM, GELLIGAER  
ROAD, GELLIGAER, CAERPHILLY**

## **SITE CONDITION REPORT**

Prepared for:

**BRYN RECYCLING LIMITED**

Part of the



Document reference: BRL-EPV-2019-SCR

Submitted by:-

***JPCE Limited***

(John Perkins Consulting Engineers)  
Bronhaul Abernant Road  
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## **CONTENTS**

- 1 Site Data
- 2 Condition of the land at permit issue
- 3 Permitted activities
- 4 Changes to the activity
- 5 Measures taken to protect the land
- 6 Pollution incidents that may have had an impact on land and their remediation
- 7 Soil gas and water quality monitoring
- 8 Decommissioning and removal of pollution risk
- 9 Reference data and remediation
- 10 Statement of site condition

## **ISSUE AND REVISION RECORD**

Revision	Date	Author	Description
-	01.05.2019	Beth Jones	Initial issue
A	26.05.2020	Beth Jones	Resubmission
B	24.03.2021	Beth Jones	Proposed environmental permit updated

<b>1 Site Data</b>	
Name of the applicant	Bryn Recycling Ltd
Activity address	Gelliargwellt Farm Gelligaer Hengoed Mid Glamorgan CF82 8FY
National grid reference	312673, 196395
Document reference and dates for Site Condition Report at permit application	BRL-EPV-2019-SCR, May 2020
Document references for site plans	<ul style="list-style-type: none"> <li>• Current environmental permit boundary drawing no. BRL-EPV-2019-001revB</li> <li>• Proposed environmental permit boundary drawing no. BRL-EPV-2019-002revC</li> <li>• Combined existing and proposed environmental permit boundaries drawing no. BRL-EPV-2019-003revA</li> </ul>
<b>2 Condition of the land at permit issue</b>	
Environmental setting	<p>The Materials Recycling Facility (MRF) site is located east of the A470 which connects Cardiff with Merthyr Tydfil, approximately 20km northwest of Newport. Access to the site is via the site access road off Gelligaer Road.</p> <p>To the north east of the site is a farm complex operated by Price &amp; Co Farming Limited. To the north west of the site is an Anaerobic Digestion Facility (AD) that is operated by Bryn Power Ltd. To the west of the site is a HDPE lined and covered liquid digestate lagoon operated by the AD. To the north of the site is a building formally operated as an in-vessel composting facility (IVC).</p> <p>The area is underlain by the solid geology of the Upper Westphalian Grovesend Formation, predominantly argillaceous, comprising mudstones and siltstones, with well-developed coals; minor lithic ("Pennant") sandstones and locally developed red mudstones in the type area. There are clay rich superficial drift deposits in the area.</p> <p>The geological classification is of a Secondary Aquifer (permeable) - These are permeable layers of rock or drift deposits capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.</p>

	<p>The application area is not located within a groundwater source protection zone (SPZ) or an area at risk of flooding. The area is not located within a Nitrate Vulnerable Zone (NVZ).</p> <p>There are no active ground or surface water abstractions within 1km of the extension. The nearest natural surface water feature to the application area is approximately 20m to the south east. This water feature is a small unidentified stream that flows to the south before joining with another stream.</p> <p>Nelson Bog, 1km south of the area boundary is a designated Site of Special Scientific Interest (SSSI).</p>
Pollution history	<p>Prior to the construction of the MRF the site remained undeveloped as open land and woodland since at least 1875. The floor of the IVC building is impermeable reinforced concrete and has remained intact through the use of the building as an IVC facility. The fully sealed underground drainage servicing the building already feeds into the AD facility.</p> <p>A trial pit investigation carried out prior to the construction of the AD in the west of the site revealed no visual or olfactory evidence of contamination in the application area and there is no evidence of vegetative stress.</p> <p>The floor of the drying shed and surrounding area is formed from impermeable reinforced concrete with all surface water run off directed through an interceptor prior to discharge to soakaway.</p> <p>The previously unpermitted area of the site is formed from inert hardcore produced by the MRF in line with the WRAP quality protocol for the production of aggregates from inert waste.</p> <p>There are not considered to be any potential contaminants of concern associated with the historical use of the site.</p>
Evidence of historic contamination.	<p>It is not considered necessary to obtain site soil sample analyses to assess the background contamination levels.</p> <p>In addition the site does not lie within a groundwater SPZ I or SPZ II.</p>
Baseline soil and groundwater reference data	<p>Given the historic land use on site, no soil and groundwater reference data were collated as the ground surface of the site to be transferred is impermeable concrete. There are considered to be no significant levels of contamination on site relating to historical activities.</p>

<b>3 Permitted activities</b>	
Permitted activities	Permitted activities applied for: Environmental permit variation application
Non-permitted activities undertaken	None
<b>4 Changes to the activity</b>	
Have there been any changes to the activity boundary?	<p>The MRF is incorporating four areas into its environmental permit. The areas are shown as Area A, Area B, Area C and Area D on drawing no. BRL-EPV-2019-003revA.</p> <p>Area A - The environmental permit for the former IVC facility has been surrendered. The land covered by the IVC environmental permit boundary will be incorporated into the environmental permits for the adjacent anaerobic digestion facility and materials recycling facility.</p> <p>Area B – includes an open fronted storage shed and area of concrete hardstanding. This area has been surrendered by the AD facility and is currently used by the MRF to store dried woodchip and wood waste.</p> <p>Area C – includes an area of previously undeveloped land that is necessary for the infrastructure upgrades required by the Fire Prevention and Mitigation Plan.</p> <p>Area D – this is an area of land in the quarry adjacent to the existing green waste composting area. The areas include areas of land surfaced with impermeable reinforced concrete to the south east and the surface water runoff lagoon to the south west.</p>
Have there been any changes to the permitted activities?	No
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	No

## **5 Measures taken to protect the land**

The new undeveloped areas will be surfaced with impermeable reinforced concrete.

All runoff from areas of the yard that will be used to stock wood waste materials will be collected in new underground storage tanks. The water stored in the tanks will be disposed of in suitably permitted facilities.

All runoff from areas of the yard that vehicles travel over will continue to be discharged through an interceptor.

## **6 Pollution incidents that may have had an impact on land and their remediation**

There are no known pollution incidents at the site.

## **7 Soil gas and water quality monitoring**

None required

## **8 Decommissioning and removal of pollution risk**

None required

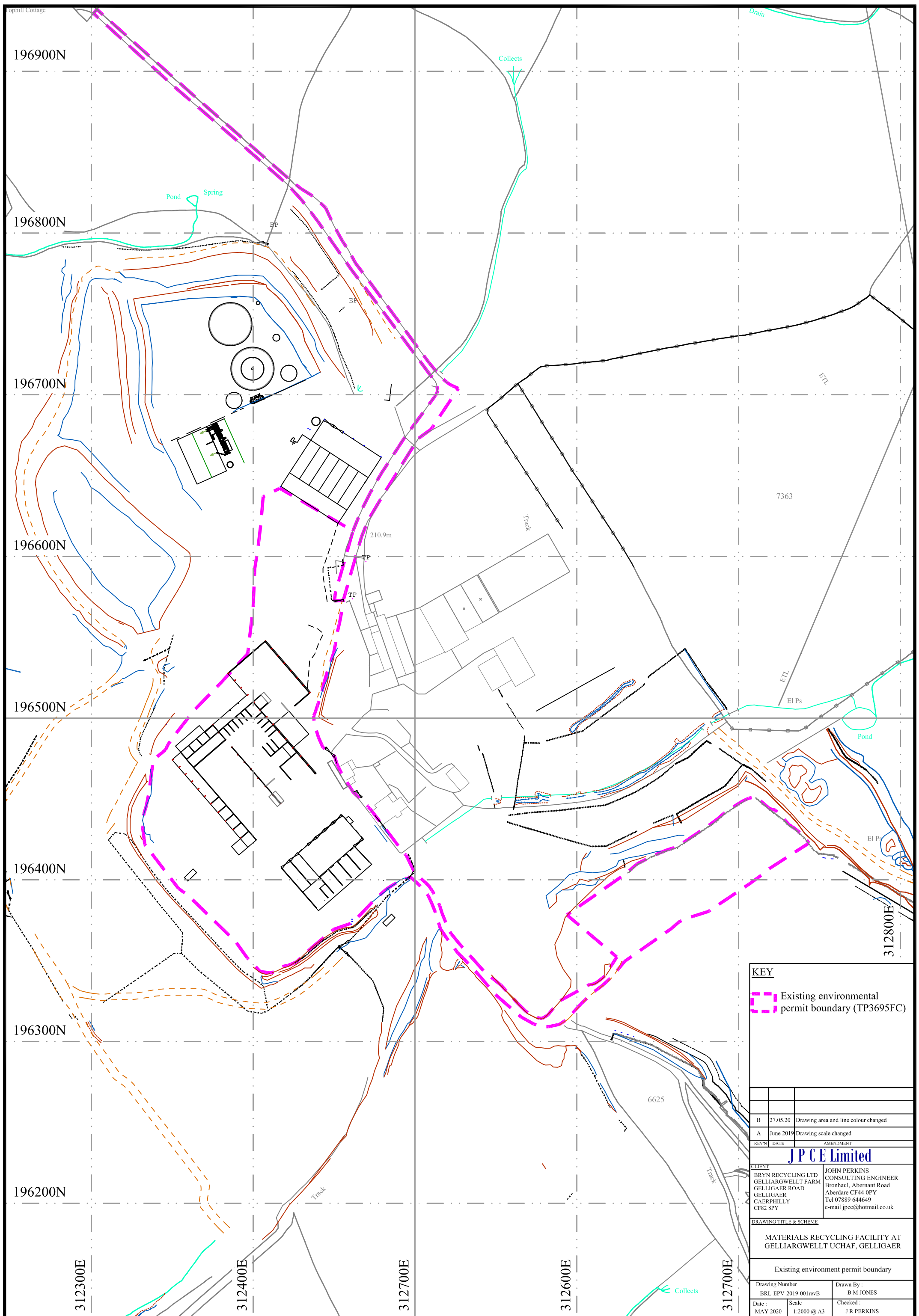
## **9 Reference data and remediation**

None required

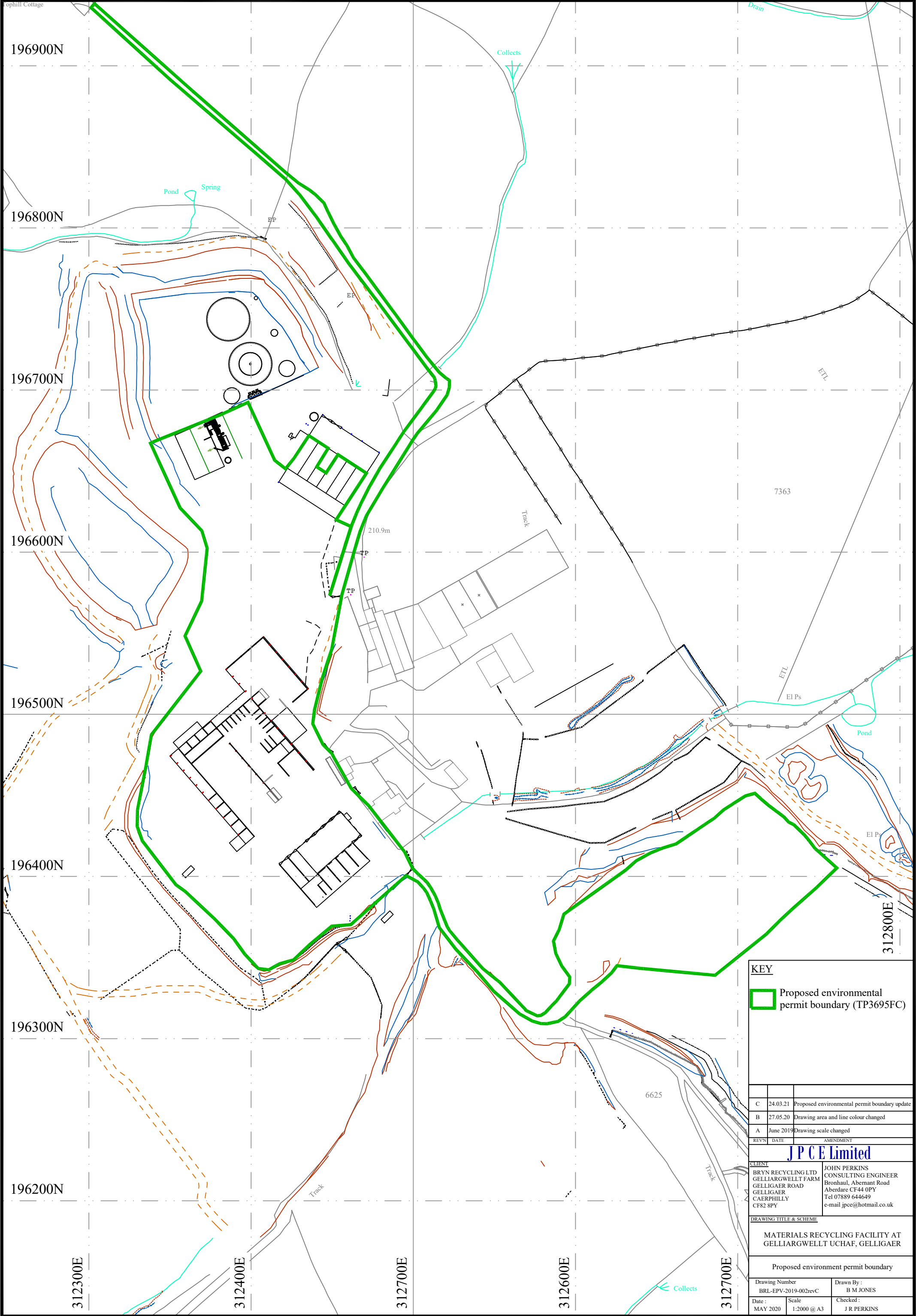
## **10 Statement of site condition**

The proposed new areas to be included in the environmental permit boundary are or will be surfaced with impermeable concrete. There is no evidence of contamination prior to construction of the previous operations from the AD, IVC or quarry and no known pollution incidents occurred during the operation of the facilities.

The land to be included in the MRF environmental permit is in a satisfactory condition.







KEY

Proposed environmental permit boundary (TP3695FC)

C	24.03.21	Proposed environmental permit boundary update
B	27.05.20	Drawing area and line colour changed
A	June 2019	Drawing scale changed
REV	DATE	AMENDMENT

CLIENT

BRYN RECYCLING LTD  
GELLIARGWELLT FARM  
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CF82 8PY

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DRAWING TITLE & SCHEME

MATERIALS RECYCLING FACILITY AT  
GELLIARGWELLT UCHAF, GELLIGAER

Proposed environment permit boundary

Drawing Number  
BRL-EPV-2019-002revC

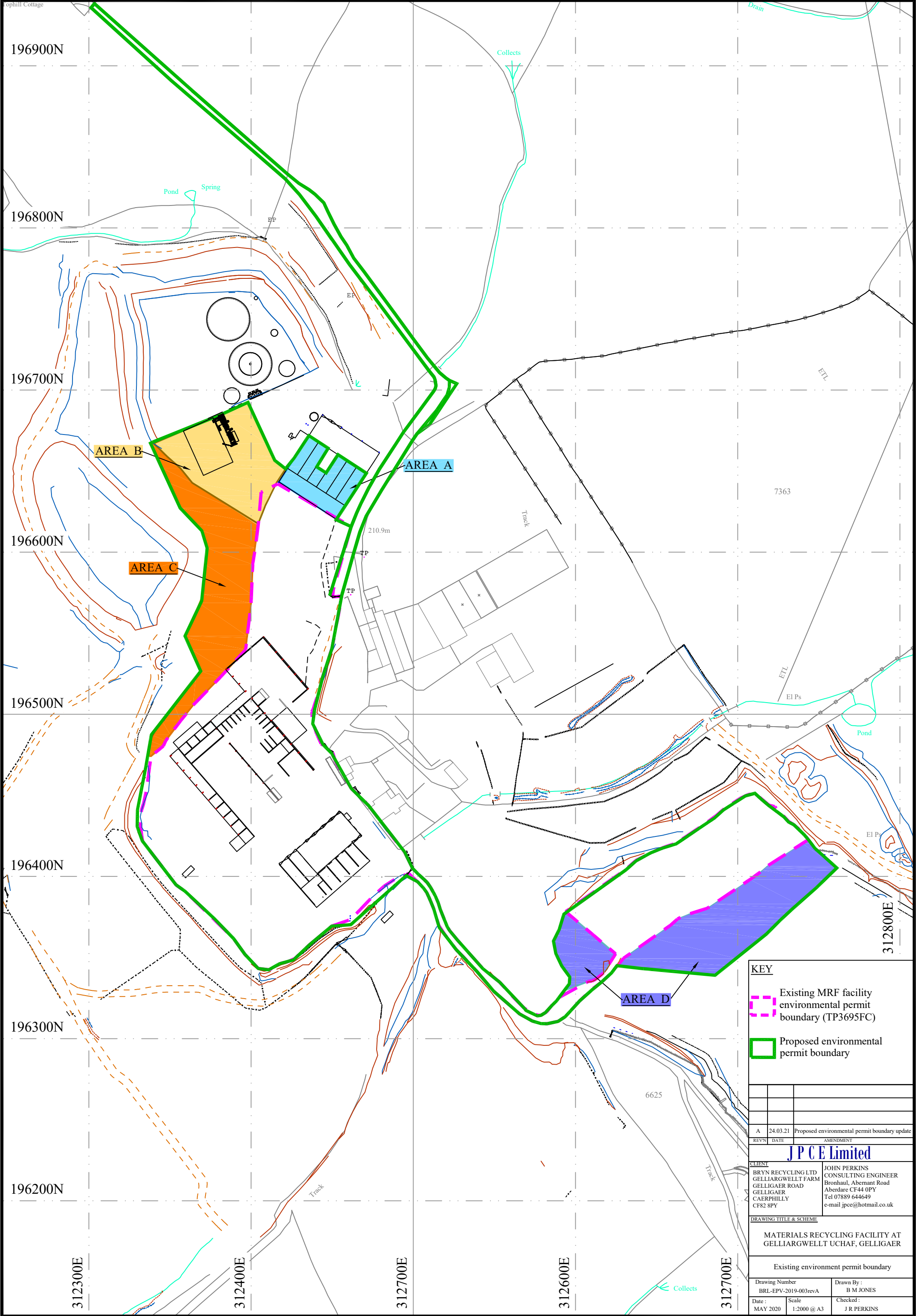
Drawn By :  
B M JONES

Date :  
MAY 2020

Scale  
1:2000 @ A3

Checked :  
J R PERKINS





**KEY**

- Existing MRF facility environmental permit boundary (TP3695FC)
- Proposed environmental permit boundary

A	24.03.21	Proposed environmental permit boundary update
REV/N	DATE	AMENDMENT

**J P C E Limited**

**CLIENT**

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**DRAWING TITLE & SCHEME**

MATERIALS RECYCLING FACILITY AT  
GELLIARGWELLT UCHAF, GELLIGAER

Existing environment permit boundary

Drawing Number BRL-EPV-2019-003revA	Drawn By : B M JONES
Date : MAY 2020	Scale : 1:2000 @ A3
	Checked : J R PERKINS