

Landfill Site Closure Report

For

Mansel Davies & Sons Glogue Quarry Landfill Site

September 06

Prepared by: **James Gunn**

Approved by: **Adam Waite**

Severn House,
1-4 Fountain Court
Woodlands Lane,
Bradley Stoke,
Bristol
BS32 4LA

Tel 01454 284450

Version V1

Fax 01454 284499

Date 7th September 2006

Email gunnj@rpsgroup.com

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Planning, Transport & Environment

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Copy of Planning Permission (ref. D2/92/26)

1.0 Area of Site Closure

1.1 Background

- 1.1.1 Mansel Davies & Sons Limited have been served a Landfill Closure Notice for Glogue Quarry Landfill Site by the Environment Agency as is required by the Landfill Regulations (England & Wales) 2002, (2002 Regs). As a consequence RPS Planning, Transport & Environment (RPS) have been instructed to prepare a Site Closure Plan on the basis that the Glogue Quarry Landfill Site is progressing to **Definitive Closure** so as to comply with the 2002 Regs and *Landfill Directive Regulatory Guidance Note 7 – Requirement for Landfills that Stop Operating, Closure and Aftercare* and the associated components of this guidance.
- 1.1.2 A Site Conditioning Plan was submitted to the Environment Agency during July 2002. As a consequence the Environment Agency requested that the permit application for the site would need to be made prior to 9th May 2005. The permit application was not made during this time and on the 8th May 2005 Glogue Quarry Landfill ceased taking waste and was regarded as closed, with ongoing restoration works commencing thereafter. The EA has since issued a Landfill Closure Notice for the site.
- 1.1.3 Regulation 15 of the 2002 Regs sets out the requirements for closure and aftercare procedures, including the three circumstances when the closure procedure should begin:
- a) When the conditions specified in the permit (licence) are satisfied;
 - b) When the Agency approves the initiation of the closure procedure following a request from the operator; or
 - c) By reasoned decision of the Agency which shall be set out in a closure notice served on the operator in accordance with Regulation 16.
- 1.1.4 This document details the requirements of Regulation 15 of the 2002 Regs such that the Environment Agency can assess the impacts from the site and provide conformation that the site is classified as '**definitively closed**' and under going restoration.

1.2 Specified Site & Waste Management Operations

- 1.2.1 Glogue Quarry Landfill is located in an area that was originally worked for its slate reserves. The voids created have subsequently been subject to landfill activity. The site was granted planning permission in March 1992 for the disposal of Inert Waste (ref. D2/92/26) and a waste disposal licence was approved on 31st July 1992 for the disposal of inert waste (Class A Wastes) (ref. WD057). This license was modified on the 1st May 1994 to a Waste Management Licence (ref. EAWML34047).
- 1.2.2 The site is located at National Grid Reference (NGR) SN220 328 and is situated approximately 420m north of the village of Glogue. Access to the site is gained via a minor road that runs between Glogue and Tregyn, as indicated on the site location plan JER7159-GQ-001. Potential receptors in the area include Glogue Farm (700m to the North West), Tegryn (650m to the North East), Ffynhon-gaseg (230m to the north of the installation), Llanfrynach (1.5km south of the installation) and Hermon (1.7km south west from the installation).
- 1.2.3 The nearest surface watercourse is the Afon Taf (approximately 280m south of the installation). There are also a number of small land drains in the local area. The Afon Taf has been graded A (Very Good) for water quality.
- 1.2.4 The current Waste Management Licence (ref EAWML34047), shown in figure *JER-7159-GQ-002*, provides for the disposal of inert waste. Prior to the issue of the current licence it is believed that the site was a municipal dump. Before commencing the current waste management operations any non-inert material previously deposited was removed under a Local Waste Authority agreed scheme.
- 1.2.5 The Area of the site progressing to definitive closure is as shown on figure *JER7159-GQ-002* and corresponds with the red line, which defines the Waste Management Licence boundary.

2.0 Waste Mass Stability

2.1 Waste Mass Stability

- 2.1.1 The Working Plan outlines the method of construction for the landfill. Each section of the landfill was to be constructed in two phases. In the initial phase it was intended to lay clean stone to a nominal depth of 2m in 300mm layers to aid surface drainage. Phase two involved the deposition of inert waste to a nominal depth of 5m laid and compacted in layers not exceeding 1m. The design of the landfill had clean stone pillars installed within the waste mass to aid surface water drainage; however there has been an insufficient quantity of waste deposited to warrant constructing such an infrastructure.
- 2.1.2 The fill material deposited at the site was primarily inert waste, consisting of topsoil, subsoil, brickwork, stone, concrete, clay, silica and glass. The volumes of waste actually deposited within the site were minimal. Given this and the inert nature of the material it is unlikely to generate significant volumes of either leachate or landfill gas.
- 2.1.3 The geological succession for the area comprises Palaeozoic Ashgill & Caradoc Slate bedrock. There are no major geological structures identified in the area that are likely to impact on the integrity of the landfill.
- 2.1.4 In agreement with the Environment Agency slope stability and settlement assessments are to be provided to the Environment Agency so as to provide the necessary evidence that the restored landfill will remain stable in the long term. As detailed in RGN 7 a final level survey will be undertaken on completion of the restoration of the site, which will act as a baseline with further surveys undertaken during the aftercare period to confirm settlement rates.

3.0 Site Infrastructure

3.1 Leachate

Leachate Infrastructure

- 3.1.1 There has been no previous requirement for leachate monitoring infrastructure in either the Waste Management Licence, or the working plan. In order to comply with RGN7 and further to discussions with the Environment Agency, a new leachate infrastructure & monitoring regime may be required.

Leachate Infrastructure Management

- 3.1.2 It is proposed to review the monitoring requirements of the site in line with the EA - *Guidance on the Monitoring of landfill leachate, groundwater and surface water*. This will be undertaken within a timescale to be agreed with the Environment Agency and under a new revised site working plan.
- 3.1.3 It is proposed that during the aftercare period any potential leachate management system will be inspected for defects and damage on a regular basis. Any defects or damage shall be noted in the site diary, remedial measures shall be undertaken as soon as possible. A record shall be kept of all remedial actions undertaken. Where leachate is found to be above the compliance level it will be removed by an appropriate contractor. These procedures are to be reviewed and incorporated within a new site working plan.

Leachate Monitoring

- 3.1.3 It is proposed to develop new leachate monitoring procedures and to incorporate these within a new site working plan.

3.2 Groundwater

Groundwater Infrastructure

- 3.2.1 There has been no previous requirement for groundwater monitoring infrastructure in either the Waste Management Licence, or the working plan. In order to comply with RGN7 and further to discussions with the Environment Agency, a groundwater infrastructure & monitoring regime may be required.

Groundwater Infrastructure Maintenance

- 3.2.2 During the after care period new groundwater infrastructure (e.g. groundwater monitoring boreholes) may need to be installed. Any such infrastructure will be

regularly inspected for defects and damage during each routine monitoring exercise. Defects and damage shall be noted in the site diary, remedial measures shall be undertaken as soon as is reasonably possible. A record shall be kept of all remedial actions undertaken. These procedures are to be incorporated within a new site working plan.

Groundwater Monitoring

- 3.2.2 It is proposed to develop new groundwater monitoring procedures and to incorporate these within a new site-working plan.

Surface Water Monitoring

- 3.2.4 It is proposed to develop new surface water monitoring procedures and to incorporate these within a new site-working plan.

3.3 Landfill Gas

Landfill Gas Infrastructure

- 3.3.1 There has been no previous requirement for landfill gas monitoring infrastructure in either the Waste Management Licence, or the working plan. In order to comply with RGN7 and further to discussions with the Environment Agency, a new landfill gas-monitoring infrastructure & monitoring regime may be required.

Landfill Gas Infrastructure Management

- 3.3.2 It is proposed that during the aftercare period any potential landfill gas management system will be inspected for defects and damage on a regular basis. Defects and damage shall be noted in the site diary, remedial measures shall be undertaken as soon as possible. A record shall be kept of all remedial actions undertaken. Where landfill gas is found to be above the compliance level it will be removed by an appropriate contractor. These procedures are to be incorporated within a new site working plan.

Landfill Gas Monitoring

- 3.3.4 It is proposed to develop new landfill gas monitoring procedures and to incorporate these within a new site-working plan.

3.4 Slope Stability/Settlement

- 3.4.1 The current Waste Management Licence (ref EAWML34047) and the working plan provide for the deposit of waste within a pre-agreed boundary. On completion the site is required to be capped with a layer of 450mm of topsoil and seeded.

3.5 Restored Surface

Restored Surface Infrastructure Management

- 3.5.1 It is proposed that the site be allowed to accept appropriate restoration materials during the closure and aftercare process in order to create an agreed landform to the to new approved restoration contours. This will be agreed with the Environment Agency prior to the commencing of any works.
- 3.5.2 In order to facilitate the restoration process it is intended to submit to the Environment Agency a separate application for the registration of an exempt activity under the Waste Management Licensing Regulations 1994 Schedule 3, Paragraphs 13. A Paragraph 13 Exemption will enable suitable inert materials to be used in the restoration of the site so as to achieve an acceptable landform in accordance with planning requirements.
- 3.5.3 The site will finally be covered with topsoil and a planting programme implemented to assist with the stabilising and binding of the restored surface.

Restored Surface Monitoring

- 3.5.2 Once finally restored, the surface will be visually inspected on a regular basis for evidence of depressions and slips. Mansel Davies & Sons Ltd proposes to undertake a final level survey on completion of the restoration activities. It is anticipated that the plantings proposed in the final restoration will facilitate the stabilisation of the site by providing binding matrix.

4.0 Reporting

4.1 Significant Environmental Effects

- 4.1.1 During the closure & aftercare phase Mansel Davies & Sons Ltd will inform the Environment Agency of any breach of agreed trigger levels with regards to groundwater quality, leachate quality and landfill gas.
- 4.1.2 Currently there is no leachate, groundwater or surface water monitoring undertaken on site. However Table 4.1.2 indicates the proposed monitoring suite for groundwater, surface water and leachate monitoring in order to comply with the aftercare requirements as stated in Schedule 3, Table 2 of the Landfill Regs. It is anticipated that monitoring will take place every six months.

Table 4.1.2 – Groundwater, surface water & Leachate Monitoring

Determinant
Suspended Solids
Chloride as Cl
Alkalinity as CaCO ₃
Calcium, Total as Ca
Magnesium, Total as Mg
Sodium, Total as Na
Potassium, Total as K
Nitrogen, Total Oxidised as N
Ionic Balance
Ammonical Nitrogen as N
pH
TOC (filtered)
COD
BOD

- 4.1.3 The following monitoring of landfill gas external to the waste body shall be carried out and recorded in accordance with the standards specified in Table 4.1.4 below. This monitoring regime concerning Landfill gas will comply with the aftercare requirements as stated in Schedule 3, Table 1 of the Landfill Regs.

Table 4.1.4 – Landfill Gas Monitoring

Landfill gas monitoring determinants	Monitoring frequencies	Units and accuracies	Trigger Levels
Methane	Six Monthly	%v/v and 0.1%	>1%
Carbon dioxide	Six Monthly	% v/v and 0.1%	>1.5%
Oxygen	Six Monthly	%v/v and 0.1%	None
Atmospheric pressure	Six Monthly	Mbar and to 1mbar	None

5.0 Habitats

5.1 Habitats Sites

Regulations

- 5.1.1 Under the Conservation (Natural Habitats etc) Regulations 1994 SI 1994 Number 2716, Regulation 10 defines European sites to include Special Areas of Conservation (SACs); sites of community importance and Special Protection Areas (SPAs). It is also the UK Government Policy (set out in PPG9 on nature conservation) that potential SPA and candidate SACs should be considered to be European sites for the purposes of the above Regulation.

Initial Assessment

- 5.1.2 A 10km radius search of the area found no sites of national or international importance. Ramsar, Special Protected Areas (SPA), Special Areas of Conservation (SAC), Sites of Special Interest (SSSI) and National Nature Reserves (NNR) were all included in the search.
- 5.1.3 Under the Landfill (England and Wales) Regulations 2002, Landfill operators are required to screen for potential impacts on European sites in accordance with Regulation 48 of the Habitats Regulations 1994.

Regulation 48 Assessment: Stage 1 Assessment of Relevant Sites – Site Identification

- 5.1.3 As no sites of national or international importance were located within 2km of the installation; there were deemed to be no potentially sensitive receptors.

Assessment of Exposure

- 5.1.4 Environment Agency guidance suggests the main risks posed by landfill operations include leachate, landfill gas, dust and aerosols, birds / vermin / insects, litter and disturbance (noise & vibration). Given the fact landfill operations have now ceased, the risk posed by birds / vermin / insects is non-existent.
- 5.1.2 Table 5.1.4 below the assessment of potential exposure risks.

Table 5.1.4 – Assessment of Exposure

Material	Source	Pathway	Receptor	Risk
Leachate	Landfill material	Surface run off Lateral migration Landslips	Land Quality Controlled waters	Low
Landfill Gas	Landfill material	Transmission to Air	Local residents & site users	Low
Odour	Landfill material	Transmission to Air	Local residents & site users	Low
Dust	Fine Particulates	Transmission to Air	Local surface water course	Low

Risks to Habitat Site Integrity

5.1.5 Taking into consideration the following no significant effects on any of the protected sites has been identified:

- Historic operating and working practises;
- The on-going monitoring;
- Active gas control & leachate management;
- The fact no further waste shall be deposited; and
- The distance to the receptors.

Conclusion

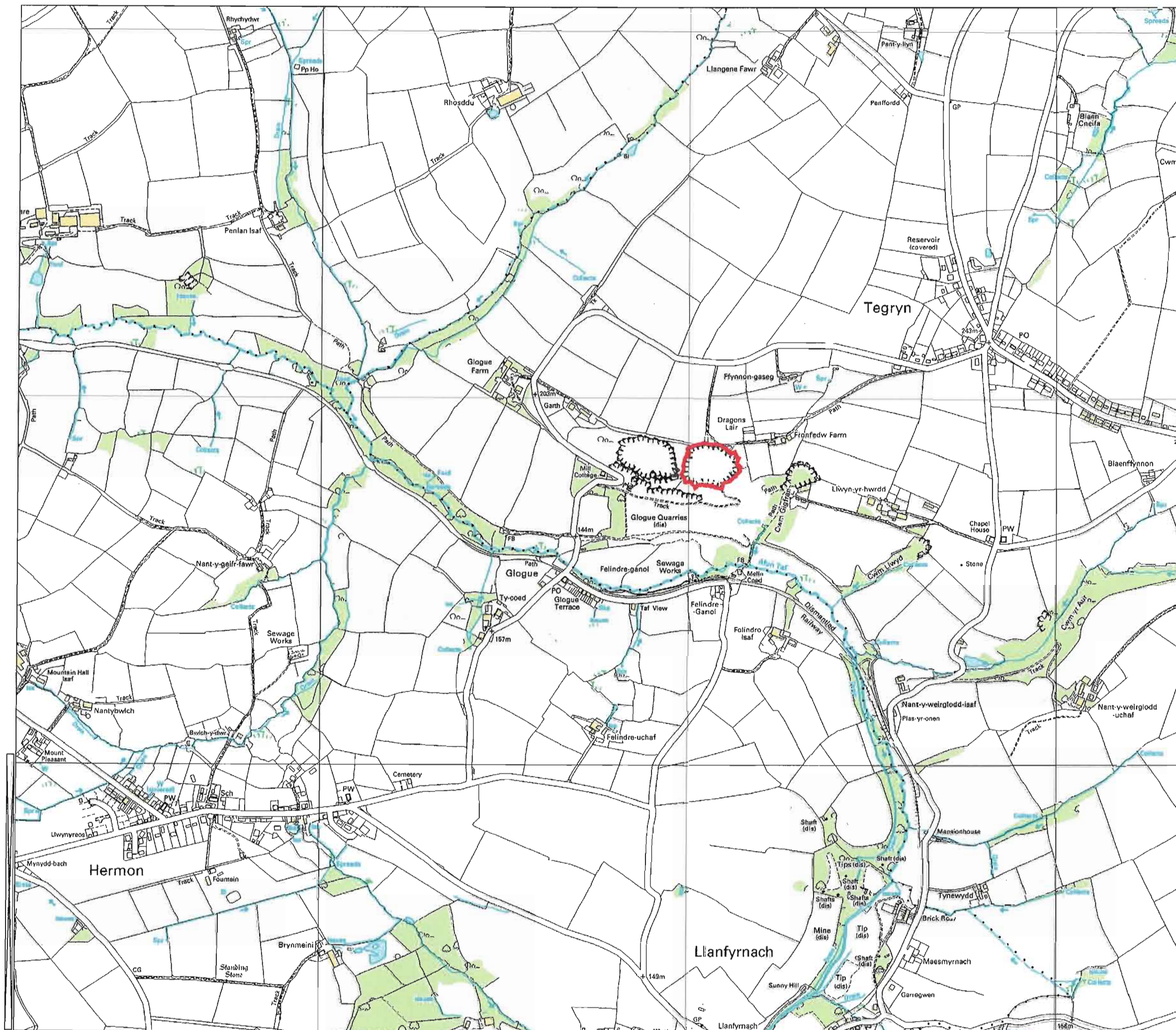
5.1.6 It can be concluded that the installation will not adversely affect the integrity of any of the identified sites of international and national importance during the closure & restoration processes.

Appendices

Appendix A – Drawings

JER7159-GQ-001 – Site Location Plan

JER7159-GQ-002 – WML Boundary



Legend



Site Location

Rev:	Date:	Amendment:	Name:	Checked:

Drawing Based Upon: -

Status:

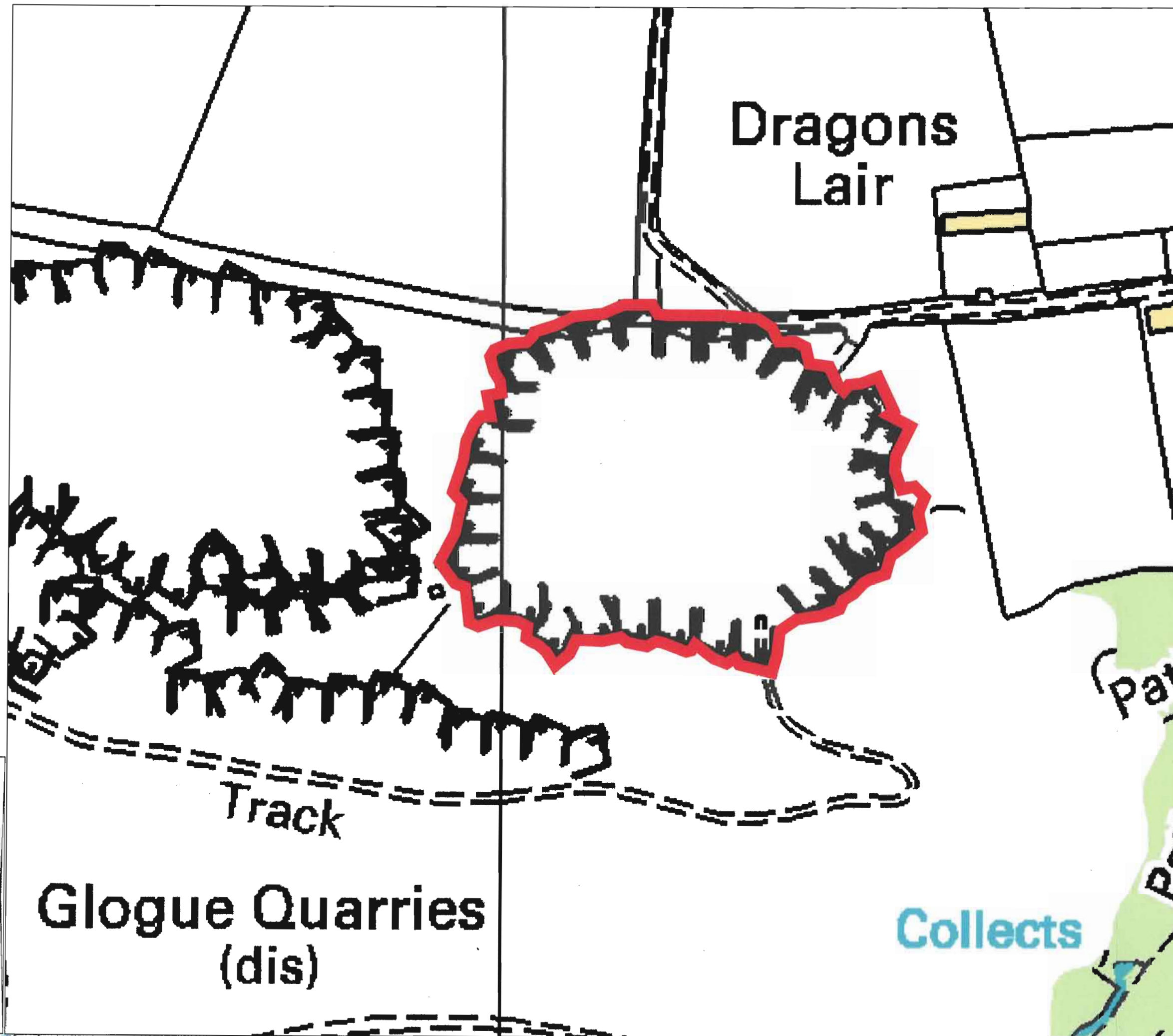
Notes: Contractors are not to scale from this drawing. All dimensions to be checked on site and any discrepancies, ambiguities and/or omissions between this drawing and information given elsewhere must be reported to this office. If in doubt, ask.



Conrad House Beaufort Square Chepstow Monmouthshire NP16 5EP
T 01291 621821 F 01291 627827 E rps@rpsgroup.com W www.rpsgroup.com

Client:	Mansel Davies & Soas
Project:	Glogue Quarry Closure Plan
Title:	Site Location Plan
Date:	31.08.06
Scale:	1:10,000
Original Paper Size:	A3
Drawn:	KRicketts
Checked:	JG
Job Ref:	JER7159

Drawing Number: 001 Rev: 0



Legend

 Site Location

Rev:	Date:	Amendment:	Name:	Checked:

Drawing Based Upon: -

Status:

Notes: Contractors are not to scale from this drawing. All dimensions to be checked on site and any discrepancies, ambiguities and/or omissions between this drawing and information given elsewhere must be reported to this office. If in doubt, ask.



Conrad House Beaufort Square Chepstow Monmouthshire NP16 5EP
T 01291 621821 F 01291 627827 E rps@rpsgroup.com W www.rpsgroup.com

Client:	Mansel Davies & Sons				
Project:	Glogue Quarry Closure Plan				
Title:	Site Boundary Plan				
Date:	31.08.06	Scale:	1:1250	Original Paper Size:	A3
Drawn:	KRicketts	Checked:	JG	Job Ref:	JER7159
Drawing Number:	002		Rev:	0	

Appendix B – Waste Management Licence

Copy of the Waste Management License (EAWML30347)



CONTROL OF POLLUTION ACT 1974 PART I



WASTE DISPOSAL LICENCE

THE * Preseli Pembrokeshire District Council
HEREBY GRANT a Waste Disposal Licence, pursuant to an application dated
, in respect of the following:

Full name and address of licence holder	Mansel Davies & Son Ltd. Station Yard, Llanfyrnach, Pembrokeshire
Full name and address of local representative (if any) of licence holder	
Location of site to which this licence relates	Glogue Quarry Glogue Pembrokeshire
Form of deposit or disposal to which this licence relates	
Types of waste of which deposit or disposal is authorised and any limitation as to quantity	Inert Waste (Class A Wastes)

This Licence is granted subject to the following conditions:—

Schedule A which contains certain definitions
Schedule B which relates to site preparation
Schedule C which contains the definition of inert waste
Schedule D which is the schedule of operating conditions

THE WORKING PLAN AND ASSOCIATED DRAWINGS

Dated 31st JULY 1992 (Signed) A.E. Scott
(Designation) Director of Housing and Environmental Health

THE LICENCE HOLDER SHOULD READ CAREFULLY THE NOTES OVERLEAF.

* Insert name of Waste Disposal Authority.

NOTES

The Control of Pollution Act 1974 provides as follows:—

Variation and Modification of Licences

7.—(1) While a disposal licence issued by a disposal authority is in force, then—

- (a) subject to any regulations in force by virtue of subsection (1) of the preceding section, the authority may—
 - (i) on its own initiative, serve a notice on the holder of the licence modifying the conditions specified in the licence to any extent which, in the opinion of the authority, is desirable and is unlikely to require unreasonable expenditure by the licence holder, and
 - (ii) on the application of the licence holder, serve a notice on him modifying the said conditions to the extent requested in the application;
- and
- (b) it shall be the duty of the authority to serve a notice on the licence holder modifying the conditions specified in the licence—
 - (i) subject to subsection (4) of this section, to the extent which in the opinion of the authority is required for the purpose mentioned in section 9(1)(a) of this Act, and
 - (ii) to the extent required by any regulations in force as aforesaid.

(2) Subsection (4) or, in relation to Scotland, subsection (5) of section 5 of this Act shall with the necessary modifications apply to a proposal to serve a notice in pursuance of paragraph (a) or paragraph (b)(i) of the preceding subsection as it applies to a proposal to issue a disposal licence, except that—

- (a) the disposal authority may postpone the reference in pursuance of the said subsection (4) or (5) so far as the authority considers that by reason of an emergency it is appropriate to do so; and
- (b) the disposal authority may disregard any other authority for the purposes of the preceding provisions of this subsection in relation to a modification which, in the opinion of the disposal authority, will not affect the other authority.

(3) Section 5(6) of this Act shall apply to an application in pursuance of subsection (1)(a)(ii) of this section as it applies to an application for a disposal licence.

(4) Where a disposal licence issued by a disposal authority is in force and it appears to the authority—

- (a) that the continuation of activities to which the licence relates would cause pollution of water or danger to public health or would be so seriously detrimental to the amenities of the locality affected by the activities that the continuation of them ought not to be permitted; and
- (b) that the pollution, danger or detriment cannot be avoided by modifying the conditions specified in the licence,

it shall be the duty of the authority by a notice served on the holder of the licence to revoke the licence.

(5) A notice served in pursuance of this section shall state the time at which the modification or revocation in question is to take effect.

Transfer and relinquishment of licences

8.—(1) The holder of a disposal licence may, after giving notice to the authority which issued the licence that he proposes to transfer it on a day specified in the notice to a person whose name and address are so specified, transfer the licence to that person; but a licence in respect of which such a notice is given shall cease to have effect on the expiration of the period of ten weeks beginning with the date on which the authority receives the notice if during the period of eight weeks beginning with that date the authority gives notice to the transferee that it declines to accept him as the holder of the licence.

(2) If by operation of law the right of the holder of a disposal licence to occupy the relevant land is transferred to some other person, that person shall be deemed to be the holder of the licence during the period of ten weeks beginning with the date of the transfer.

(3) Except as provided by the preceding provisions of this section, references in this Part of this Act to the holder of a disposal licence are references to the person to whom the licence was issued.

(4) The holder of a disposal licence may cancel the licence by delivering it to the authority which issued it and giving notice to the authority that he no longer requires the licence.

Supervision of licensed activities

9.—(1) While a disposal licence is in force it shall be the duty of the authority which issued the licence to take the steps needed—

- (a) for the purpose of ensuring that the activities to which the licence relates do not cause pollution of water or danger to public health or become seriously detrimental to the amenities of the locality affected by the activities; and
- (b) for the purpose of ensuring that the conditions specified in the licence are complied with.

(2) For the purpose of performing the duty which is imposed on a disposal authority by the preceding subsection in connection with a licence, any officer of the authority authorised in writing in that behalf by the authority may, if it appears to him that by reason of an emergency, it is necessary to do so, carry out work on the relevant land and on any plant or equipment to which the licence relates.

(3) Where a disposal authority incurs any expenditure by virtue of the preceding subsection, the authority may recover the amount of the expenditure from the holder of the disposal licence in question, or if the licence has been revoked or cancelled from the last holder of it, except where the holder or last holder of the licence shows that there was no emergency requiring any work or except such of the expenditure as he shows was unnecessary.

(4) Where it appears to a disposal authority that a condition specified in a disposal licence issued by the authority is not being complied with, then, without prejudice to any proceedings in pursuance of section 3 or 6(3) of this Act in consequence of any failure to comply with the condition, the authority may—

- (a) serve on the licence holder a notice requiring him to comply with the condition before a time specified in the notice; and
- (b) if in the opinion of the authority the licence holder has not complied with the condition by that time, serve on him a further notice revoking the licence at a time specified in the further notice.

Appeals

If a licence holder is aggrieved by the decision of the Waste Disposal Authority in granting a licence subject to conditions he may appeal to the Secretary of State in accordance with Section 10 of the Control of Pollution Act 1974. Appeals must be notified within 6 months of the date of this notice to the Secretary, Department of the Environment Waste Disposal Division, Queen Anne's Chambers, 28 Broadway, London SW1H 9JU (for sites in England) or to the Secretary, Welsh Office, Local Government Division, 13th Floor, Pearl Assurance House, Greyfriars Road, Cardiff CF1 3RT, (for sites in Wales). The Secretary of State has power to allow a longer period for the giving of notice of an appeal but he will not normally be prepared to exercise this power unless there are special circumstances which excuse the delay in giving notice of an appeal.

N.B.—The issue of this licence under the provisions of Part I of the Control of Pollution Act 1974 in no way lessens the need of the licence holder to comply with other legislation and any statutory obligations which may rest on him thereunder, in particular the Health and Safety at Work, etc. Act 1974, the Radioactive Substances Act 1960, and any legislation relating to planning, water protection and environmental health.

LANDFILL LICENCE - CATEGORY "A" WASTES

CONTROL OF POLLUTION ACT 1974

LICENCE TO DISPOSE OF WASTE

The Presell Pembrokeshire District Council in pursuance of the powers conferred on them by the Control of Pollution Act 1974, hereby licence:

Mansel Davies & Son Ltd.

of Station Yard, Llanfyrnach, Pembrokeshire
(hereinafter called the "licence holder")

to operate a landfill facility for the disposal of inert waste
on land at Glogue Quarry, Glogue, Crymych, Pembrokeshire.

This licence is granted subject to the conditions set out in the
schedules attached hereto.

Dated this 31st..... day of JULY.....19 92

Signed A. R. Scott.....
(Authorised Officer)

The licence holder's attention is drawn to the notes overleaf

NOTES

THESE NOTES ARE FOR GENERAL GUIDANCE ONLY AND DO NOT CONSTITUTE AN
AUTHORITATIVE STATEMENT OF THE LAW

1. This licence relates only to the requirements of the Control of Pollution Act 1974 for the deposit of waste and the use of plant or equipment subject to the conditions set out in the Schedules and does not constitute a consent required by other legislation. In particular it is the responsibility of the licence holder to comply with any requirements of the HEALTH AND SAFETY AT WORK ACT 1974, the RADIOACTIVE SUBSTANCES ACT 1960, the TOWN AND COUNTRY PLANNING ACTS, BUILDING REGULATIONS and ALL RELEVANT WATER PROTECTION and ENVIRONMENTAL HEALTH legislation.
2. If the licence holder ceases to occupy the land specified above, then he may transfer the licence to the new occupier after giving notice to the Waste Disposal Authority who has the right to decline to accept the new licence holder.
3. If the licence holder wishes to cancel this licence he must return it to the Waste Disposal Authority together with a notice stating that he no longer requires the licence. Cancellation of the licence will not affect any outstanding liability of the licence holder under the conditions of the licence.

CONTRAVENTION OF LICENCE CONDITIONS

Your attention is drawn to the provisions of Sections 3, 9 and 16 of the Control of Pollution Act 1974. A brief resume is included overleaf.

Section 3

Prohibits under penalty the deposits of waste or the use of plant or equipment, otherwise than in accordance with the terms of the licence. This Section applies to all the conditions contained herein, including any which may be the subject of an appeal to the Secretary of State under Section 10 of the Act. Any deposit which takes place without compliance with all the licence conditions may lead to prosecution under this Section.

Section 9

Non compliance with any licence conditions may lead to the revocation of this licence.

Section 16

The licensing authority is empowered to require the removal of any controlled waste deposited in circumstances where any of the conditions of this licence are not being complied with.

Penalties under Section 3

A person who contravenes Section 3 sub section (1) shall, subject to subsection (4), be guilty of an offence and liable on summary conviction to a fine of an amount not exceeding scale 5 (currently £2,000) or on conviction on indictment to imprisonment for a term not exceeding two years or a fine or both.

The increased penalty may be given where a person contravenes Section 3(1) and the waste in question is poisonous, noxious and polluting, is likely to give rise to an environmental hazard, and has been brought for the purpose of being disposed of. Under such circumstances the person would be liable on summary conviction to imprisonment for a term not exceeding six months or a fine not exceeding scale 5 or on conviction on indictment to imprisonment for a term not exceeding five years or a fine or both.

SCHEDULE A - DEFINITIONS

1. WORKING PLAN shall mean the operational statement together with Drawing Numbers 2923/1WP, 2923/2WP of the proposed facility contained in Schedule E.
2. THE ACT shall mean the Control of Pollution Act 1974 as amended.
3. DISPOSAL AUTHORITY shall have the meaning assigned to it in Section 30 (1) of the Control of Pollution Act 1974.
4. DULY AUTHORISED OFFICER shall mean any person authorised in writing by the Disposal Authority pursuant to Section 91 (1) of the Control of Pollution Act 1974.
5. ENVIRONMENTAL HAZARD shall have the meaning assigned to it in Section 4 (5) of the Control of Pollution Act 1974.
6. LICENCE HOLDER shall mean the person or persons to whom this licence is granted.
7. BIODEGRADABLE shall mean material which may be broken down by the action of micro organisms.
8. LEACHATE shall mean liquid which seeps through the landfill and by doing so extracts substances from the deposited waste.
9. INERT WASTE shall mean solid or granular dry materials, free from any noxious, poisonous, or polluting substance, which does not decompose or for which the environmental impact of decomposition is less than, or comparable with, that of topsoil and is virtually insoluble in water.
10. EMERGENCY shall mean a case where a person has reasonable cause to believe that circumstances exist which are likely to endanger life or health or cause damage to property or pollution of water.
11. OPERATING shall mean the deposit of waste or acceptance of waste for deposit and all matters incidental thereto.
12. Notwithstanding the above, words and phrases in this licence have the meaning ascribed to them by the Control of Pollution Act 1974 and its associated regulations.

SCHEDULE B - SITE PREPARATION

1. The preparatory works required by conditions 2 to 9 below shall be supervised and certified, by a suitably qualified person, that they have been constructed in accordance with the working plan. Certification shall be forwarded to the Waste Disposal Authority and no waste material shall be accepted at the facility until the Waste Disposal Authority confirms, in writing, that the site preparatory works have been carried out in accordance with the working plan.

Site Infrastructure

2. Perimeter fencing and gates shall be provided and maintained at all times. The gates shall be securely locked at all times when the facility is unattended. Any damage to the gates and fencing which impairs their effectiveness will be repaired by the end of the working day and if this cannot be accomplished the licence holder shall provide security personnel to guard the facility until such repair is effected.
3. An identification board of durable material and finish shall be displayed at the entrance to the facility, as indicated in the working plan. The following information shall be provided:
 - (a) Name, address and telephone number of facility;
 - (b) Name, address and telephone number of the Waste Disposal Authority responsible for issuing this Licence and the Waste Disposal Licence Number;
 - (c) Hours of Operation (as per licence condition);
 - (d) Name, address and telephone number of Licence Holder;
 - (e) Twenty-four hour emergency telephone number and contact.

The board shall be maintained in a legible condition at all times.

4. A site control office of the type specified in the working plan shall be provided at the location specified in the working plan. The site control office shall be maintained to the original standard as specified in the working plan.
5. The road from the site entrance to the site control office (hereinafter called the site access road) shall be constructed in accordance with the working plan. The site access road shall be maintained to the original standard as specified in the working plan.
6. Wheel cleaning equipment of the type specified in the working plan shall be provided at the location specified in the working plan. The equipment shall be used and maintained as specified in the working plan.
7. Provisions for the storage and maintenance of plant shall be constructed in accordance with the working plan and shall be maintained to the original standard as specified in the working plan.

Site Preparation

8. All water courses, springs and issues located within the facility shall be intercepted and diverted to the perimeter of the facility in accordance with the working plan, in order to prevent the contamination of the water courses, springs and issues.
9. Perimeter surface water drainage shall be constructed in accordance with the working plan. The drainage system shall be maintained to the original standard as specified in the working plan.

SCHEDULE C - TYPES OF WASTE

1. The types of controlled waste accepted at the facility shall consist only of the following inert wastes, as defined in paragraph 9 of Schedule A:

Topsoll
Subsoll
Brickwork
Stone
Concrete
Clay
Sand
Slilla (excluding finely powdered waste)
Glass

2. The total quantity of waste accepted daily shall not exceed 200 tonnes. For the purpose of this licence all vehicles discharging waste of whatever size shall count towards this total.

SCHEDULE D - OPERATIONS

1. The licence holder shall operate the facility in accordance with the working plan as approved by the Waste Disposal Authority and contained in Schedule E of this licence.
2. Any proposed modification to the approved working plan shall be submitted to the Waste Disposal Authority together with the proposed date of implementation at least 8 weeks before the proposed date of such implementation.
3. The licence holder shall obtain written approval from the Waste Disposal Authority for any proposed modification to the actual conduct of the operations from the proposals approved in the working plan.
4. The types of wastes accepted at the facility shall consist only of those specified in Schedule C of this licence. All wastes shall be visually inspected to ensure that they conform with the requirements of Schedule C of this licence. Any wastes not conforming to the requirements of Schedule C shall be rejected as unsuitable for disposal at the facility.
5. The Waste Disposal Authority shall be notified immediately of any waste that has been rejected as unsuitable for disposal in accordance with condition 4 above and Schedule C of this licence. This notification shall include the nature and quantity of waste, the name and address of the producer of the waste, the registration number of the vehicle delivering the waste, the name and address of the vehicle's driver and operator, and the date and time of rejection of the waste.
6. No operations shall be carried out at the facility during the hours of darkness as defined by the statutory lighting up times published by the Science Research Council; i.e. half an hour after sunset to half an hour before sunrise.
7. The facility shall be manned and supervised during operating hours (see condition 8 overleaf) in accordance with the working plan. Supervisors must be able to identify the types of waste permitted by this licence and those wastes specifically excluded.

8. Permitted wastes shall be delivered to the facility between the hours of daylight specified below. No delivery of waste shall take place outside these hours without the prior written approval of the Waste Disposal Authority.

Mondays - Fridays	From	<u>0730 hours</u>
	To	<u>2000 hours</u>
Saturdays	From	<u>0730 hours</u>
	To	<u>2000 hours</u>
Bank Holidays & Sundays	From	<u>Closed</u>
	To	<u></u>

9. A written record shall be kept of the characteristics and quantities of all wastes delivered to the facility, the name and address of the person delivering the waste, the registration number of the vehicle delivering the waste, the date and time of the delivery, and identification of the origin on the waste. This record shall be available to any representative of the Waste Disposal Authority for inspection at the facility at any reasonable time.
10. A summary of the records required by condition 9 above of all wastes delivered to the facility in a calendar month shall be submitted to the Waste Disposal Authority before the tenth day of the succeeding calendar month.
11. The phasing and direction of the depositing of waste shall be carried out as specified in the working plan and each phase shall be completed before the deposit of waste is commenced in each subsequent phase.
12. All available top soil shall be removed from each individual phase prior to any waste being deposited in each individual phase. The top soil removed shall be stored at the facility at the location specified in the working plan.
13. No material shall be burnt within the boundaries of the facility. Any outbreak of fire shall be regarded as an emergency and immediate action shall be taken to extinguish it. Fire fighting equipment and emergency water supplies shall be provided, maintained and identified in accordance with the working plan. All outbreaks of fire shall be reported immediately to the County Fire Brigade and the Waste Disposal Authority.

14. Measures, in accordance with the working plan, shall be taken to remove any mud, debris or any other material that is deposited on any roadway by vehicles using the facility. These measures shall include the sweeping of the site access road, hard surfaced areas and the public highway leading from the facility.
15. The depth of any layer of waste shall not exceed 2.5 metres after initial compaction.
16. Each layer of waste and covering material shall be laid to a fall to encourage surface water run-off from the working face.
17. No processing, sorting, or re-excoavation of any waste shall take place at the facility without the prior written approval of the Waste Disposal Authority.
18. All vehicles leaving the facility shall use the wheel cleaning apparatus required by condition 7 in Schedule B of this licence.
19. Measures, including proper maintenance and use, shall be undertaken to control the noise of machinery and vehicles operating at the facility which may be detrimental to the amenities of the locality.
20. Measures in accordance with the working plan shall be taken to effectively suppress dust and malodours which may be detrimental to the amenities of the locality.
21. Measures in accordance with the working plan shall be taken to deal effectively with any vermin and insects at the facility.
22. Until final restoration, completed landfill areas shall be graded and maintained as detailed in the working plan.
23. Any cessation of operations for a period in excess of 12 weeks shall be notified to the Waste Disposal Authority. Not less than 14 days notice shall be given to the Waste Disposal Authority of the date on which operations are to recommence in the event of such a cessation.
24. A copy of any notice or instruction received in respect of the facility from any authority, other than the Waste Disposal Authority, which in any way relates to the use of the facility, shall be given to the Waste Disposal Authority within 3 days of the receipt of such a notice or instruction.
25. The terms of this licence shall be made known to any person who is given responsibility for the management or control of the facility and be available at all times at the facility for the use of such persons.

26. All site operations shall be carried out in accordance with the licence holder's safety policy entitled "Safe Working Practices" attached to the working plan in Schedule *.
27. Notwithstanding the generality of the conditions in this Schedule, the activities to which this licence relates shall not be carried on so as to cause pollution to water or danger to public health or become seriously detrimental to the amenities of the locality affected by the activities.



PERMIT



OUTGOING



ASiantaeth yr
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

ENVIRONMENTAL PROTECTION ACT 1990, sect. 37(1)(a)

NOTICE OF MODIFICATION OF WASTE MANAGEMENT LICENCE

To: Mansel Davies & Sons Ltd
Of: Station Yard, Llanfyrnach, Crymych

WHEREAS on 20th January 1992 you were granted a Disposal Licence, number WD042, by Preseli Pembrokeshire District Council relating to land at Glogue Quarry, near Llanfyrnach.

AND WHEREAS on 1 May 1994 the said disposal licence converted to a waste management licence pursuant to section 77(2) of the Environmental Protection Act 1990 ("the 1990 Act")

NOTICE is HEREBY GIVEN that the Environment Agency modifies the conditions contained in the said waste management licence as detailed in Appendix A attached. These modifications shall take effect from 00.00 hours 15th March 1999.

~~*[IN the opinion of the Environment Agency it is necessary for the purpose of preventing pollution of the environment or harm to human health that section 43(4) of the 1990 Act should not apply.]~~

Dated: 22nd February 1999.

(Signed).....

For Environment Planning Manager

N.B.- The person served with this notice may under Section 43 of the 1990 Act appeal against the Agency's decision to the Secretary of State within six months of the date of the decision or such longer period as the Secretary of State may allow. ~~*Delete as appropriate [The person on whom this notice is served may also make application to the Secretary of State for a ruling as to whether the Agency has acted reasonably in including the above statement as to the non-application of Section 43(4) of the 1990 Act.]~~ (See notes overleaf.)

Asiantaeth yr Amgylchedd Cymru, Glan Tawe, 154 Ffordd Sant Helen, Abertawe, SA1 4DF
Ffon 01792 645300, Ffacs 01792 470068

Environment Agency Wales, Glan Tawe, 154 St Helens Road, Swansea, SA1 4DF
Tel 01792 645300, Fax 01792 470068



ASiantaeth YR
AMGYLCHEDD CYMRU
ENVIRONMENT
AGENCY WALES

Environmental Protection Act 1990
Section 37
Licence WD042
22nd February 1999

APPENDIX A

(1)

Schedule A, Definitions, 10 previously read 'Special Waste shall have the meaning assigned to it in Section 2 (1) of the Control of Pollution (Special Waste) Regulations 1980.'

Schedule A, Definitions, 10 shall now read 'Special Waste as defined by regulation 2 of the Special Waste Regulations 1996 or any statutory provisions or regulations amending or replacing them.'

Schedule C, Excluded Wastes, part 2 (a) previously read 'Controlled waste being defined as 'Special Waste' in the Control of Pollution (Special Waste) Regulations 1980 and any subsequent amendments, except those listed in paragraph 1 above.'

Schedule C, Excluded Wastes, part 2 (a) shall now read 'Special waste as defined by regulation 2 of the Special Waste Regulations 1996 or any statutory provisions or regulations amending or replacing them, except those listed in paragraph 1 above.'

Dated: 22nd February 1999.

(Signed).....

For Environment Planning Manager

WASTE MANAGEMENT LICENSING APPEALS

Introduction

- 1.1 The purpose of this Appendix is to explain the procedure for, and the provisions relating to, the submission of appeal to the Secretary of State for Wales under:

Section 43 of the Environmental Protection Act 1990 against decisions made by the Environment Agency on waste management licences; (Section 35(12) of the Act provides that "licence" means a waste management licence. The term "licence" is subsequently used in the rest of this Appendix.)

- 1.2 Section 35 (8) and 74 (5) of the 1990 Act duties on the Environment Agency to have regard to any guidance issued to it by the Secretary of State with respect to the discharge of their functions in relation to licences. The Environment Agency should make prospective applicants and licence holders aware of authorities' duties to have regard to this advice; and that the Secretary of State will similarly have regard to this advice in his determination of appeals made to him.

Right to Appeal

- 1.3 Applicants and other persons have a right of appeal to the Secretary of State in the circumstances set out in paragraphs 1.4 below.
- 1.4 Section 43 (1)(a) of the 1990 Act sets out the right of appeal to the Secretary of State by a licence holder where an application to modify the conditions of a licence submitted under Section 37 (1) (b) is rejected by the Environment Agency or is deemed to be rejected under section 37 (b);

Notice of Appeal

- 1.5 Regulation 6 (1) provides that any person who wishes to appeal to the Secretary of State under Section 43 must do so by notice in writing. Regulation 6 (2) provides that the notice of appeal must be accompanied by certain information:

The information to be provided

- (a) a statement of the grounds of appeal;
 - (b) a copy of any correspondence relevant to the appeal;
 - (c) a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate of lawful use or development; and
 - (d) a statement including whether the appellant wishes the appeal to be in the form of a hearing or to be determined on the basis of written Representations;
 - (e) a copy of the appellants application and any supporting documents; and
 - (f) a copy of the waste management licence.
- 1.6 A copy of a form on which notice of appeal may be given is available from:

Welsh Office
Environment Division
Cathays Park
Cardiff

Asiantaeth yr Amgylchedd Cymru, Glan Tawe, 154 Ffordd Sant Helen, Abertawe, SA1 4DF
Ffon 01792 645300, Ffacs 01792 470068

Environment Agency Wales, Glan Tawe, 154 St Helens Road, Swansea, SA1 4DF
Tel 01792 645300, Fax 01792 470068

CF1 3NQ

- 1.7 Regulation 6 (3) require the appellant to serve a copy of his notice of appeal and any documents provided under paragraph 1.5 above, on the Environment Agency.

The Effect of Making an Appeal

- 1.8 The Environment Agency's decision remains in effect pending determination of the appeal in cases of:

Section 43 (1) (a)

- (a) an application for a licence submitted under Section 36 (1) (a) or (b) is rejected by the Environment Agency or is deemed to be rejected under Section 36 (9);
- (b) an application to modify the conditions of a licence submitted under Section 37 (1) (b) is rejected by the Environment Agency or is deemed to be rejected under Section 37 (6);

Withdrawal of an Appeal

- 1.9 Regulation 6(4) provides that if an appellant wishes to withdraw his appeal he must do so by notifying the Secretary of State in writing and send a copy of that notification to the Environment Agency. Subject to these requirements, an appellant may withdraw his appeal at any time.

Time Limit for Making an Appeal

- 1.10 Regulation 7 (1) provides that, subject to Regulation 7 (2), notice of appeal must be given:

Appeals Under Section 43 (1) (a)

- (a) before the expiry date of 6 months beginning with:
 - (i) the date of the decision which is subject to appeal; or
 - (ii) the date on which the Agency is deemed by Section 36 (9), 37(6), 39(10) or 40 (6) of the 1990 Act to have rejected the application; or

- 1.11 Regulation 7 (2) provides that the Secretary of State may, in relation to an appeal under Section 43 of the 1990 Act, at any time allow notice of appeal to be given after the expiry of 6 month period mentioned in paragraph 1.10 (a) above. In the case in which the Secretary of State receives a notice of appeal after the expiry of this 6 month period he will request from the person wishing to appeal, and before considering the exercise of his discretion under Regulation 7 (2), an explanation of the reasons for that person's not giving notice within the time limit provided by Regulation 7 (1) (a). The Secretary of State has no discretion under Regulation 7 (2) to accept an appeal under Section 43 (1) (a) after the expiry of 21 day limit provided by Regulation 7 (1) (b).

Appendix C – Working Plan

Copy of the Current Working Plan



OUTGOING

WORKING PLAN



PERMIT

FOR THE

DISPOSAL OF INERT WASTE

At

Glogue Quarries,
Glogue,
Llanfyrnach,
Dyfed.

For

Mansel Davies & Son Ltd,
Station Yard,
Llanfyrnach,
Dyfed.

Date 6th May, 1992.

Prepared by:-

Llwyd Edwards, B.Arch., A.R.I.B.A.,
Chartered Architect,
The Old Stables,
St. Mary Street,
Cardigan,
Dyfed.
SA43 1HA.

Tel: (0239) 614365.
Fax: (0239) 621085.

To be read in conjunction with drawings:-

2923/1 WP
2923/2 WP

Site Access.

Access to the site will be taken off the County Highways on the road leading from Hermon to Tegryn. Visibility splays will be provided to the satisfaction of Dyfed County Council, Highways and Transport department.

Permanent Works to be undertaken

1. Construction of weigh bridge and washing bay at access.
2. Construction of weigh bridge office to record intake to site.
3. Lay tarmac up to weigh bridge and washing bay.
4. Form track across existing quarry to the site.
5. Lay concrete road on corner rising up to site to prevent erosion of bank.
6. Form concrete yard at entrance to site for purpose of vehicles turning.
7. Provide temporary building for staff rest room and store.
8. Erect 1.8 m security fencing around hole No 1 as indicated with lockable gates at entrance.
9. Form cutting above existing tunnel and entrance into hole No 1 and secure all loose rock.

Phasing of Disposal

1.1.1 Phase 1 Section 1 Layer 1.

Provide clean stone as on site to a nominal depth of 2.00 m laid in 300 mm layers to aid surface water drainage.

2.1.2 Phase 2 Section 1 Layer 2.

Lay inert waste to a nominal depth of 5.00 m laid and compacted in layers not to exceed 1.00 m.

Provide clean stone pillars approx 3.00 m in diameter to aid surface water drainage. Provide temporary fencing around columns to prevent contamination. Remove 1 m of stone from pillar before lifting to next level. Provide suitable geotechnic filter membrane surround to pillars. To prevent contamination from silts.

3.1 & 3 Phase 3 section 1 & 3 layer 2.

Removal of derelict car bodies and scrap metal. This will run alongside the inert landfill and the working face will be inspected periodically for potentially harmful substances.

4.2.1 Phase 4 Section 2 layer 1.

As Paragraph 1.1.1.

5.2.2 Phase 5 Section 2 Layer 2.

As Paragraph 2.1.2.

6.3.1 Phase 6 Section 3 Layer 1.

As Paragraph 1.1.1.

7.3.2 Phase 7 Section 3 Layer 2.

As Paragraph 2.1.2.

8.3.3 Phase 3 Section 3 Layer 3.

Lay inert waste and compacted in layers to exceeding 1.00 m.

Provide clean stone pillars approx 3.00 m in diameter to aid surface water drainage. Provide temporary fencing around columns to prevent contamination. Remove 1 m of stone from pillar before lifting to next level. Provide suitable geotechnical filter membrane surround to pillars to prevent contamination from silts.

After completion of paragraph 3.1 & 2. + affecting this area.

9.2.3 Phase 9 Section 2 Layer 3.

As paragraph 8.3.3 and not to exceed height level access point.

10.1.3 Phase 10 Section 1 Layer 3.

As paragraph 8.3.3 after completion of paragraph 3.1 & 3 -

11.1.1 Phase 11.

Block up low level access with compacted fill and provide weep holes. Grade with top soil and seed.

12.1.1 Phase 12.

Form road to high level access point reposition store and staff room, security gates and fencing.

13.1,2 & 3.4 Phase 13 Section 1,2 & 3 Layer 4.

Lay inert waste and compacted in layers to exceeding 1.00 m.

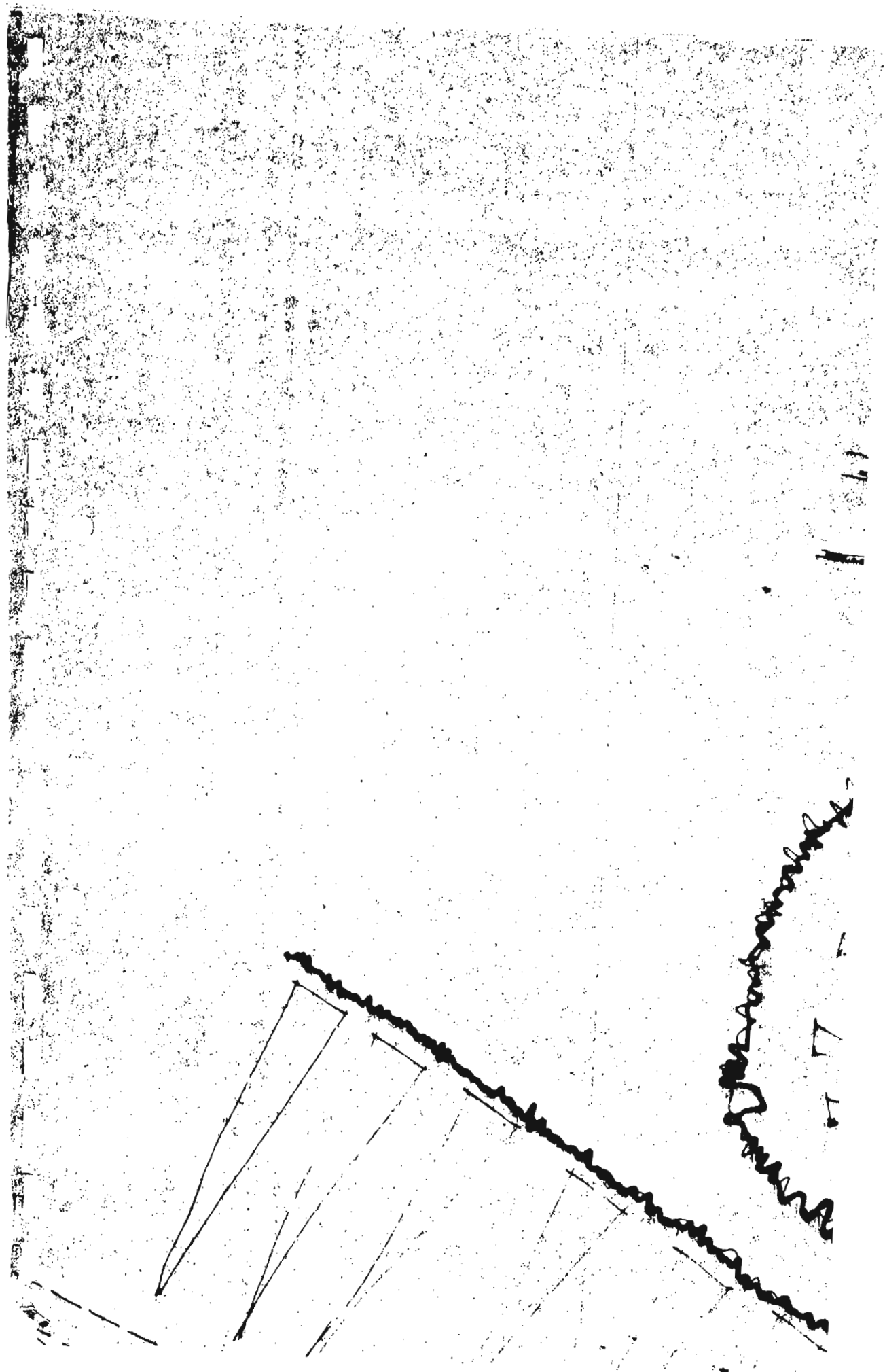
Provide clean stone pillars approx 3.00 m in diameter to aid surface water drainage. Provide temporary fencing around columns to prevent contamination. Remove 1 m of stone from pillar before lifting to next level. Provide suitable geotechnical filter membrane surround to pillars to prevent contamination from silts.

14.2 Phase 14 Section 2.

Form cutting with embankments to provide access onto disposal site and lay 3.00 m wide road with clean stone.

15 Phase 15.

Cover site with 450 mm topsoil and seed. Cap stone columns with geotechnical filter membrane.

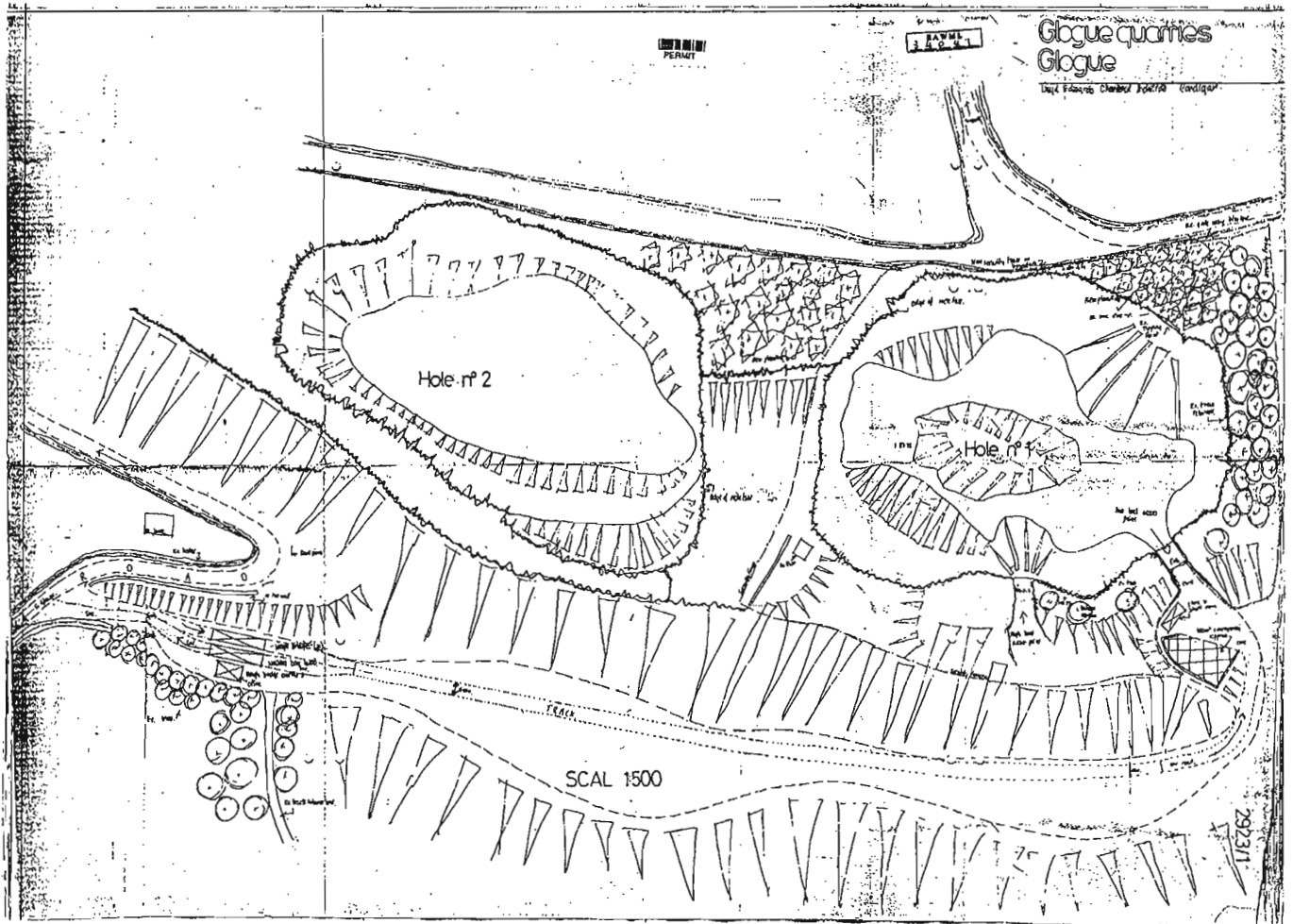


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Appendix D – Planning Permission

Copy of Planning Permission (ref. D2/92/26)

Planning permission

Name and address of applicant

Name and address of agent (if any)

Mansel Davies & Son Ltd
Station Yard
Llanfyrnach
Dyfed

Llwyd Edwards
Chartered Architect
The Old Stables
St Mary Street
CARDIGAN
Dyfed
SA43 1HA

MARCH 1992

Part I - Particulars of application

Date of application:
Received 10 January 1992

Application no.
D2/92/26

Particulars and location of development:

DISPOSAL OF INERT WASTE AND ALTERATION OF ACCESS - GLOGUE QUARRY GLOGUE

NOTE TO APPLICANT

Part II - Particulars of decision

The Local Planning Authority hereby gives notice in pursuance of the provisions of the Town and Country Planning Act 1990 that permission has been granted for the carrying out of the development referred to in Part I hereof in accordance with the application and plans submitted subject to the following conditions:

1. The development must be begun not later than the expiration of five years beginning with the date of this permission.
2. The land shall only be used for the depositing of inert waste. In accordance with the application documents and no other type of waste shall be deposited on the site except with the prior written permission of the Local Planning Authority.
3. The existing access shall be improved; including the provision of visibility splays, prior to the commencement of the use hereby approved and detailed plans of these improvements shall be submitted to and agreed in writing with the Local Planning Authority.
4. The section of Country Road between the proposed vehicular access at the upper quarry entrance and the lower quarry entrance shall be improved to provide at least 5m carriageway width prior to the commencement of development and detailed plans of these improvements shall be submitted to and agreed in writing with the Local Planning Authority.

CONT/...

The reasons for the conditions are:

1. Required to be imposed pursuant to section 91 of the Town and Country Planning Act 1990
2. In order to prevent pollution and protect the environment.
- 3.4. In the interests of road safety;

Date 11 MAR 1992
Cambria House
Haverfordwest
Pembrokeshire

CONT/...

Director of Planning
AW/DAR

Note: This permission refers only to that required under the Town and Country Planning Acts and does not include any consent or approval under any other enactment, bylaw, order or regulation.