

NUTRIENT BUDGET TECHNICAL NOTE

Site: Vineview Cottage, Tytherley Road, Winterslow, SP5 1PZ

Applicant: Brian Gamet

Planning Application: PL/2026/01523

1. Purpose

This Technical Note accompanies the revised Nutrient Budget Calculator. It explains the basis of the principal technical assumptions used within the nutrient budget and provides supporting information for the Local Planning Authority's Habitats Regulations Assessment.

2. Development

The application relates to ancillary works associated with the implementation of the previously approved Class Q conversion of an existing agricultural building to a single one-bedroom dwelling. The proposal includes a package treatment plant and drainage field, a modest side extension and a small agricultural shed. No additional residential units are proposed.

3. Package Treatment Plant

The proposed foul drainage system comprises a GRAF One2Clean Package Treatment Plant certified to BS EN 12566-3. Independent testing by PIA – Prüfinstitut für Abwassertechnik GmbH (Test Report PIA2014-216B14.01.e) confirms the following treated effluent performance:

- COD: 43 mg/L
- BOD₅: 7 mg/L
- Suspended Solids: 14 mg/L
- Ammoniacal Nitrogen (NH₄-N): 0.5 mg/L
- Total Nitrogen (N_{tot}): 7.9 mg/L
- Total Phosphorus (P_{tot}): 1.6 mg/L

The Nutrient Budget Calculator has therefore been completed using a user-defined Package Treatment Plant value of 7.9 mg TN/L supported by the independent PIA certification.

4. Land Use Methodology

The revised Nutrient Budget Calculator has been prepared using measured land-use areas derived from the accompanying annotated plan.

Only those areas subject to a change of land use have been entered as residential urban land. Areas of lowland grazing and the agricultural track that are retained remain unchanged in use. The current Natural England calculator does not provide a future land-use category for retained agricultural grazing. Accordingly, the accompanying land-use plan

identifies these retained areas to provide a clear audit trail of the proposed land-use changes.

5. Supporting Information

This Technical Note should be read alongside the revised Nutrient Budget Calculator and the following appendices.

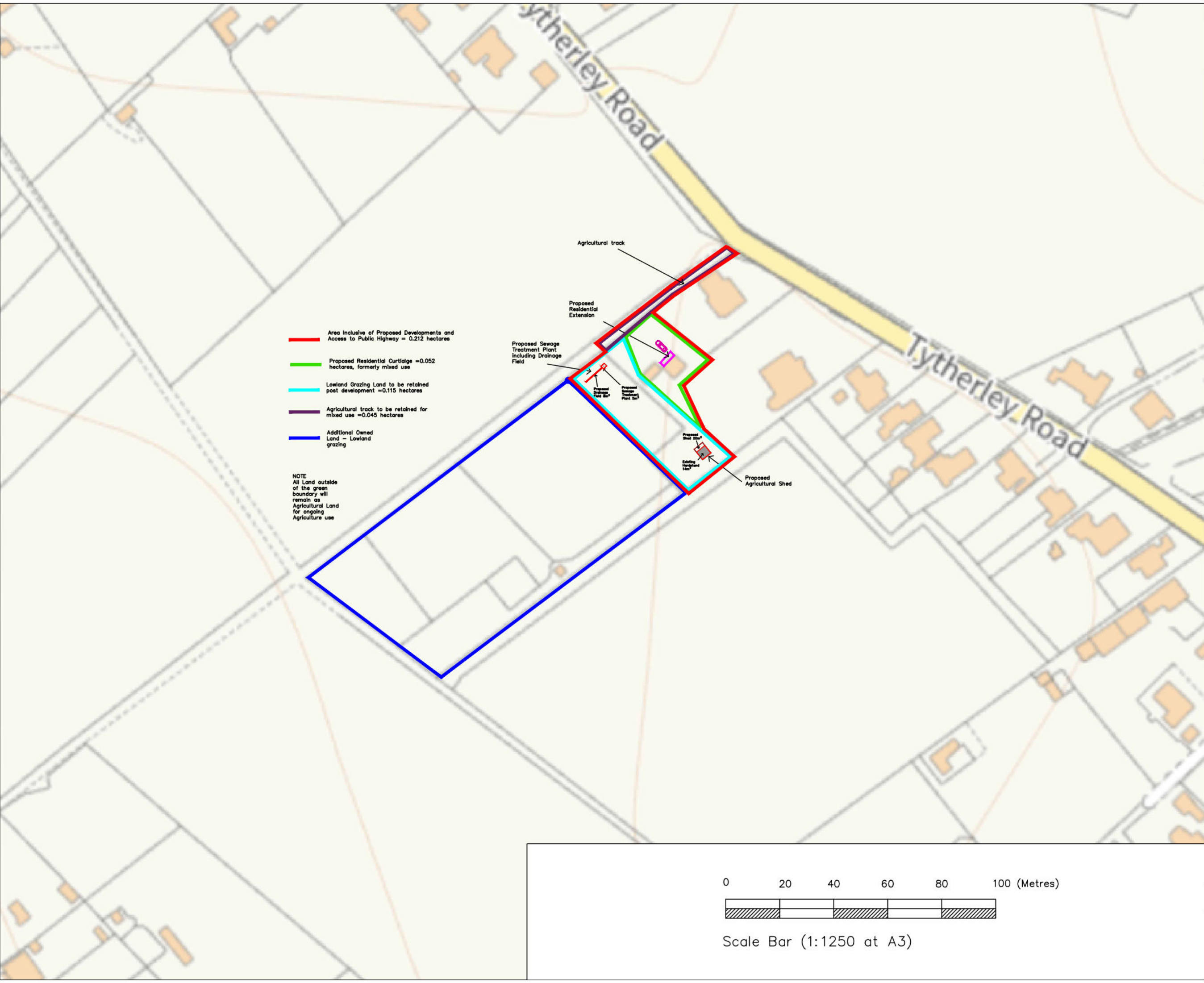
6. Conclusion

The revised nutrient budget has been prepared using independently certified treatment plant performance and measured land-use information. The applicant respectfully requests that Wiltshire Council consider the enclosed information when reviewing the nutrient budget and undertaking the Habitats Regulations Assessment.

Appendices

Appendix A – GRAF One2Clean PIA Test Report

Appendix B – Annotated Land Use Plan



NOTES: 1. This drawing has been produced to support a planning application and should not be used for any other purpose		
N		
Rev	Amendment	Date
A	Red/Blue/Orange lines amended	03/11/25
Client & Project Address: Vineview Cottage Tytherley Road, Winterslow, Wilts. SP1 1PZ		
Project Description: Vineview Cottage		
Drawing Title: Location Plan		
Scale: 1:1250 at A3		
Drawing Ref: 0996/Ex/01		Rev: E



Prüfinstitut für
Abwassertechnik
GmbH

PERFORMANCE RESULTS

Otto Graf GmbH

Carl-Zeiss-Str. 2 - 6, 79331 Teningen, Germany

EN 12566-3

Small wastewater treatment systems for up to 50 PT

Small wastewater treatment system one2clean

SBR plant in one two-zone polypropylene tank

Test report PIA2014-216B14.01.e

Nominal organic daily load*	0.27	kg/d	
Nominal hydraulic daily load	0.75	m³/d	
Material	polypropylene		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	94.2 %	43 mg/l
	BOD ₅	98.0 %	7 mg/l
	SS	96.3 %	14 mg/l
	NH ₄ -N**	98.3 %	0.5 mg/l
	N _{tot} **	87.0 %	7.9 mg/l
	P _{tot}	80.2 %	1.6 mg/l
Electrical consumption	0.63	kWh/d	

*at a test influent of ≥ 300 mg/l BOD₅ (mean)

**determined for temperatures $\geq 12^{\circ}\text{C}$ in the bioreactor

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH

(PIA GmbH)

Hergenrath Weg 30

52074 Aachen, Germany

This document replaces neither the declaration
of performance nor the CE marking.



Notified Body
No.: 1739



Certified according to
ISO 9001:2008



Deutsche
Akkreditierungsstelle
D-PL-17712-01-00



Elmar Lancé

November 2014