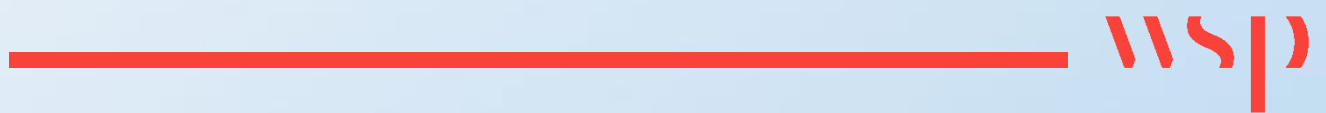


Appendix G

NITROGEN OFFSET CALCULATIONS



Denny, James

From: West, David <David.West@tetrattech.com>
Sent: 16 June 2021 11:27
To: dos Santos Gil, Joao
Cc: Denny, James; Isnenghi, Enrico; Jonathan Walton
Subject: RE: Long Copse Ln - Nitrogen Offset & Light treatment

Hi Joao

Please see my calculations below.

Catchment	Impermeable areas	SAAR (1961- 1990)	Average Annual Runoff Volume	Runoff TN Concentration	Runoff TN	TN Removal Efficiency	TN Removed	TN Removal Rate	Wetland Area Required
	ha	mm	m ³	mg/l	Kg/yr	%	Kg/yr	g/m ²	m ²
A	3.47	782	27,135.40	3.0	81.41	37	30.12	181	166.41
B	0.70	782	5,474.00	3.0	16.42	37	6.08	181	33.60
C	1.40	782	10,948.00	3.0	32.84	37	12.15	181	67.13

The key figure is the last column – this is the wetland area for reedbed which we need to accommodate within the SuDS train.

Give me a call if you need to discuss.

Kind regards

David West CEnv
Associate Ecologist

Tetra Tech

The Pavilion, 1st Floor, Botleigh Grange Office Campus, Grange Road, Hedge End, Hampshire, SO30 2AF

Tel: +44 2382 022 860

Mob: +44 7557 582 803

tetrattechurope.com

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Registered Office: 3 Sovereign Square, Sovereign Street, Leeds LS1 4ER VAT No: 431-0326-08.



TETRA TECH



From: dos Santos Gil, Joao <Joao.dosSantosGil@wsp.com>

Sent: 16 June 2021 10:59

To: West, David <David.West@tetrattech.com>

Cc: Denny, James <James.Denny@wsp.com>; Isnenghi, Enrico <Enrico.Isnenghi@wsp.com>

Subject: RE: Long Copse Ln - Nitrogen Offset & Light treatment

Hi David,

Thanks for letting me know.