

Total Nitrogen Load Budget using Natural England Methodology

Site	Oakfields Winchester Road Fair Oak SO50 7HA
Planning Reference	

Notes

Stage 1 - Load from proposed development				
	Housing units		9	
A	People per unit	2.37		
	Additional Population		21.33	
B	Waste water volume per person	110		litres/day
	Waste water volume		2346.3	litres/day
C	WwTW permit limit [% deduction]	27.0	0.0	27.0 mg/l TN
	Deduct Acceptable TN load		2	
	TN discharge after treatment		58658	mg/TN/day
	Convert to kg/TN/day [divide by]	1,000,000	0.0587	kg/TN/day
	Convert to per year [multiply 365]	365	21.410	kg/TN/yr
	Wastewater total nitrogen load		21.410	kg/TN/yr
Stage 2 - Load from current land use				
	Urban use area ha	0.228		
D	Nitrate -Nitrogen loss type	Urban	14.3	
			3.260	kg/ha/yr
	Total Nitrogen load current land use		3.260	kg/TN/yr
Stage 3 - Load from future use				
	Housing area ha	0.228		
D	Nitrate -Nitrogen load type	Urban	14.3	
			3.260	kg/ha/yr
	Area new Mitigation land ha	0.000		
	Nitrogen load mitigation land	0.000		kg/ha/yr
			0.000	
	Nitrogen load future land uses		3.260	kg/TN/yr
Stage 4 - Net change in nitrogen load from the development				
	Stage 1		21.410	kg/TN/yr
E	Net Change [Stage 3 - Stage 2]		0.000	
	Nitrogen Budget		21.410	
	Budget without buffer [divide by 5]	5.0	4.282	
F	Nitrogen budget with 20% buffer		25.692	kg/TN/yr

Notes

- A Average household occupation Office for National Statistics Labour Force Survey 2019
 - B Water consumption based upon specification to achieve compliance with planning policy
 - C Served by Chickenhall WwTW which has no permit limit
 - D Urban land use figure 14.3 see paragraph 4.54 of guidance
 - E No change in use resulting in a reduction/increase of load
 - F Mitigation required as a positive TN load
- Based upon Natural England advice for Local Planning Authorities June 2020

12/08/2020

v1.0