Phosphate Budget Calculator Stage 1

	Stage 1	Calculate Total Phosphorus (T	d from the developme	ent as a resu	t of increased				
	Note: This calculation should only include the <b>additional</b> units resulting from the proposed development, including any development that will result in overnight accommodation. For land not currently in residential use, this will be the total units proposed by the development. However, for land already in residential use, this should only be the increase in units.								
	1.	Calculate the additional pop	ulation	Value Unit					
		Number of units as flats, care-hor Average occupancy	n proposed	1.65	dwellings persons/dwelling				
		Number of houses proposed Average occupancy		2.36	dwellings persons/dwelling				
		Number of <b>additional</b> rooms above multiple occupation Average occupancy	is) for houses in	1.65	dwellings persons/dwelling				
	Number of rooms in a hotel or guest house proposed Average occupancy Number of weeks open per year (1-52) Average occupancy rate (1-100) Total population increase generated by the development				1.65	dwellings persons/dwelling Weeks %			
					0	Persons			
Please select how the sewage from the proposed development will be handled, noting that a development must be handled by either WwTW or package treatment, and cannot be handled by both. Consideration of wastewater loading is not required where a site drains to a WwTW that does not drain in to the River Clun catchment - in this case the occupancy rate should be set to zero.									
Is sewage to be handled by WwTW?	No				Is sewage to	be handled by PTP?		No	
2a. TP budget that would exit the Wastewater Treatment Works (WwTW) after treatment 2b.						TP budget fo	or Package Treatment Plants (P	PTPs)	
Note: if the sewage is to be treated by WwTW then the user should select "Yes" in the list above. If PTP are to be used instead, then the user should select "No" above.				Note: If the sewage is to be treated by PTP then the user should select "Yes" in the list above. If WwTW are to be used instead, then the user should select "No" above.					
This is the process of collecting wastewater from houses and guiding it, via calculated by multiplying the number of people by the expected water usage the discharge level of the appropriate WwTW. The TP loading is expressed	rk, to a WwTW . The phosphorus concentrations of the effluent is	hospharus concentration of the influent is within the effluent is calculated by applying decentralized wastewater treatment. The phospharous influent phospharus effluent is calculated by applying the PTP reduction				alculated by multiplying the number of peop	le by the expected load		
Calculate the wastewater volume generated		Value	Unit	Calculate TP loa	ad prior to t	reatment		Value	Unit
Total population increase generated by the development Water use per person		0 110	Persons Litres/person/day	Total population increase generated by the development Average TP loading per person			0 0.99	Persons Kg/person/year	
Wastewater volume generated by the development		0	Litres/day	Total Phosphorus prior to treatment				0.00	Kg/year
Confirm receiving WwTW and discharge level		Value	Unit	Calculate TP loa	ad after trea	atment		Value	Unit
elect the WwTW the development will connect to				_	iving PTP reduction efficiency ischarge after PTP treatment			0.00	% Kg/year
WwTW discharge level		0.90	mg/L	ir uistilaige aitei	rir treatile	ıı		0.00	Ng/year
Note: Please use the drop down lists to select the WwTW that the proposed development will be connected to. If the WwTW is not known, then please select Unknown from the drop down list.				Note: The user must input the reduction efficiency of the PTP. The efficiency of the PTP used must be evidenced. The evidence should include the test result documents from the laboratory (in English) and/or measured effluent concentrations from real world applications. If the efficiency is unknown then a precautionary value of 50% can be used.					
Calculate the TP discharged by the WwTW		Value	Unit	Calculate TP loa	ad from dev	elopment wastew	vater with on-site PTP	Value	Unit
TP discharged by WwTW TP discharged by WwTW		0 0.0000	mg/day Kg/day	PTP TP load				0.00	Kg/year
TP loading from WwTW		0.00	Kg/year						
	3.	Calculate the additional pop	ulation TP load		Value	Unit			
		TP load from additional population	on		0.00	Kg/year			

Version 2.2 25/04/2022