Question	Response
How do you anticipate introducing the coagulant?	Our current design standard method either injects into the pipework with an inline mixer, or into a channel which has natural turbulence. However, we are asking the challengers to provide us with alternative ideas.
What is the pH range of the coagulant (and can you provide a datasheet)?	We have a range of chemicals that we use for phosphorus removal: Ferric Sulphate typically has a pH less than 1. It typically has a working range of pH 5-8, but it varies depending on the application. (S.G. 1.55-1.58) Ferric Chloride and Ferrous Chloride are similar to Ferric Sulphate, with a pH less than 1 in its concentrated form. The working range is 5-8. (Ferric Chloride S.G. 1.45) (Ferrous Chloride S.G. 1.25) Aluminium Sulphate has a pH of 2-3 in concentrated form. It has a working range of pH 6-7 but can go as low as pH 5.5. (S.G. 1.32) Polyaluminium Chloride (PACL) has a pH from 2-3. It has a wider working range than Aluminium Sulphate, from pH 5-8. (10% PACL S.G. 1.2) (18% PACL S.G. 1.4). These are the most commonly used coagulants for the purposes of phosphorus removal. General datasheets for these chemicals are available online.
How do you treat the phosphorus?	Chemical coagulation.
How will it be stored - big bag / 25kg bag / silo?	Liquid chemical - powder systems not applicable.
What should be the flow rate in kg/h	Liquid chemical - powder systems not applicable.
Requiring informtion on: Pump capacity Dimensions of incoming pipes Pump pressure Viscosity Density (liquid) Suspended Solid mmSS/litre For small, medium and large WRCs	This information is very site specific - we are unable to provide generic information.
Would you consider different technologies dependent on site requirements, ie gravity or pumped ?	Yes - we welcome proposals for a range of site requirements
Would you consider equipment for pumped flow only, ie can we dose a pumped main to then mix in with the gravity flow ?	Unclear on question - please submit your proposal and any ideas will be welcomed.
Who is supplying the feed pumps if required ?	Wessex Water standard feed pumps.
Are you looking for a complete package including dosing pumps, if so who is you preferred supplier for the chemical dosing pumps ?	No - we have our standard chemical storage and chemical dosing pumps already supplied.
Is it flow proportional dosing or modeled on diurnal flows, who is supplying the flow meters ?	Dosing control varies depending on site size. Flow meters will be supplied by Wessex Water.
Are you looking at existing suppliers only?	No - we welcome submissions from existing and new suppliers.