

Apart from the major role of disruption of the sludge bacteria, disintegration of other sources of solid organics were also important in the process. For this reason, we have measured the availability of the solubilized organic matters in the liquid phase (Fig. 3). Mechanical effects of power ultrasound provide a high solubilization of oxidizable materials.	In order to understand the tendency of solubilization of organics, the TOC was explored in the liquid phase and it was proved that solubilized TOC follows a similar path with the COD.
Conclus	sions
•Ultrasound is capable to solubilize the WAS into liquid phase	e.
•It reduces the size of the solid particles until 8-9 $\mu$ m.	
•The tendency of solubilization of COD and TOC are following	g a similar path.
•When working at high powers, it is possible to solubilize the bacteria upto 90-100%.	
E.g. in 60 min it is possible to have 65% efficiency of CO	D solubilization at 100 W For municipal sludge
•Ultrasound is a good way of pretreatment before (Catalytic)	Wet Air Oxidation.
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