

















Monitoring salt in	groundwater		
Electrical conductance measurements			
$ \begin{array}{c} \rho_{s} = F^{*} \ \rho_{w} \end{array} \begin{array}{c} \rho_{s} & = resistance \ subsoil \ \& \ groundwater \\ \rho_{w} & = resistance \ groundwater \\ F & = formation \ factor \end{array} $			
Lithology	F		
Gravel with sand	7		
Coarse sand	5		
Sand with silt	2 - 3		
Clay	1-3*	F varies with the resistance	
peat	1*	of the ground	water
If the lithology is known AND the measurement is in an aquifer $\rightarrow \rho_w$ can be calculated			
	5/8/2013	(	Deltares









