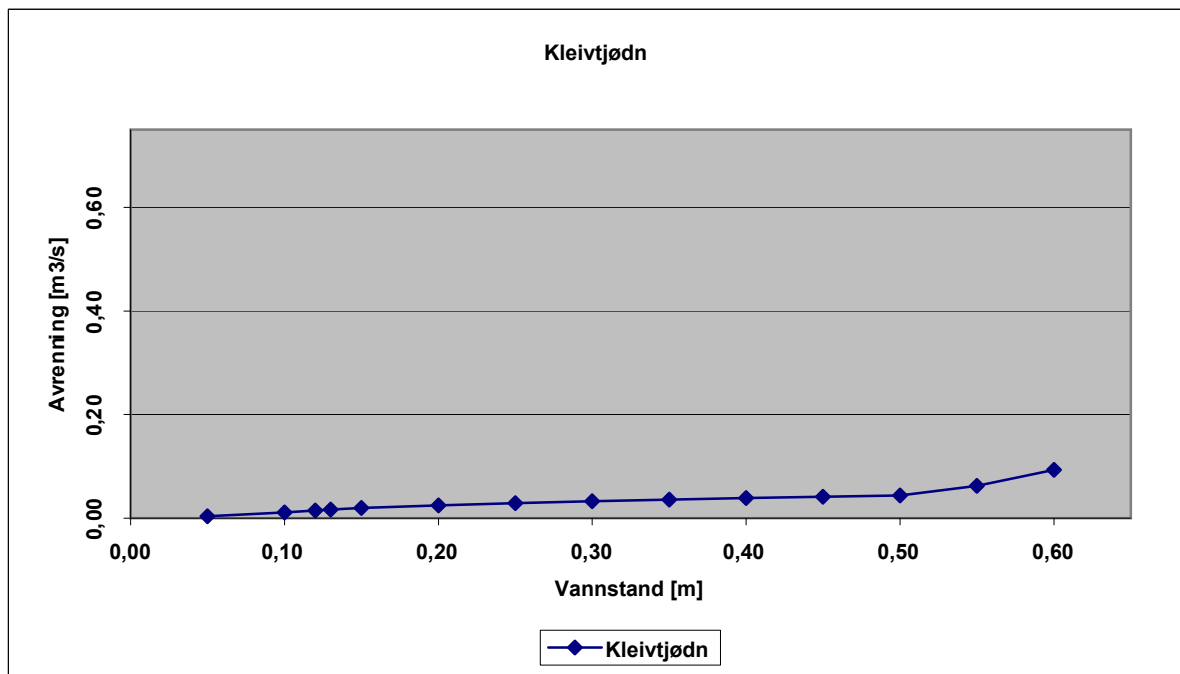


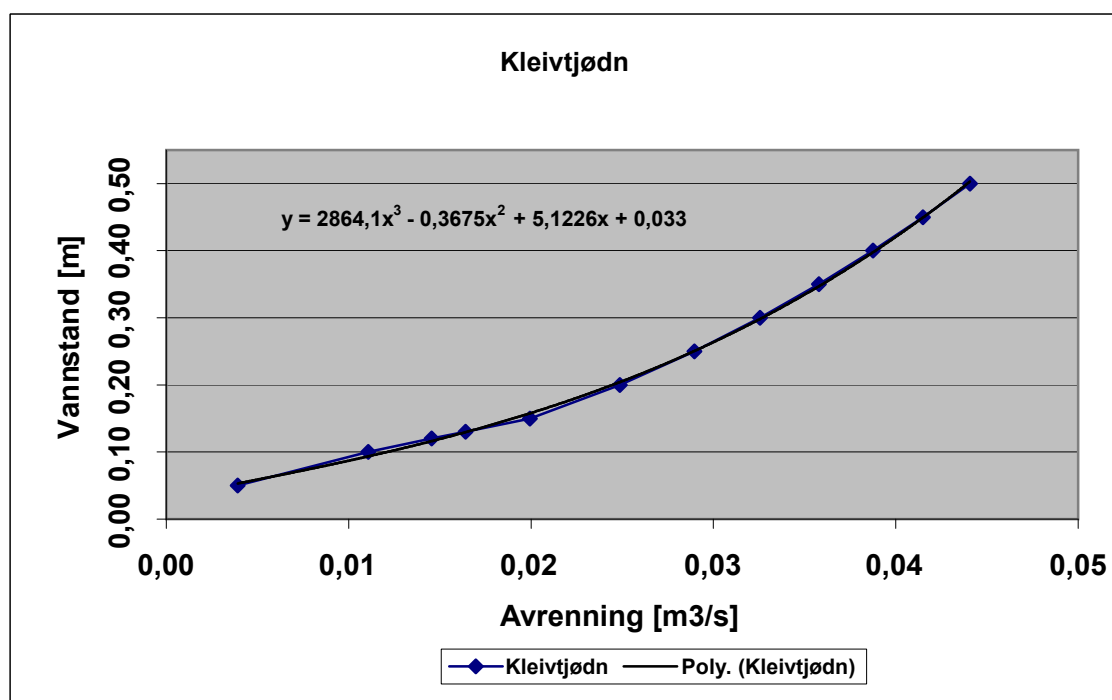
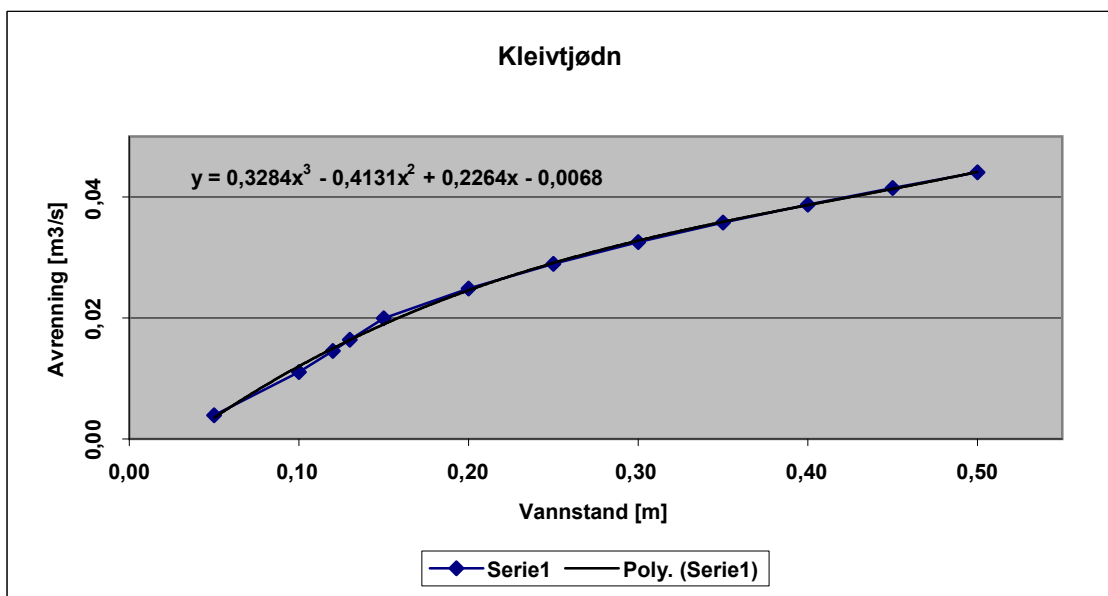
Vedlegg 7 - Beregninger dempingsmagasin

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Kleivtjød

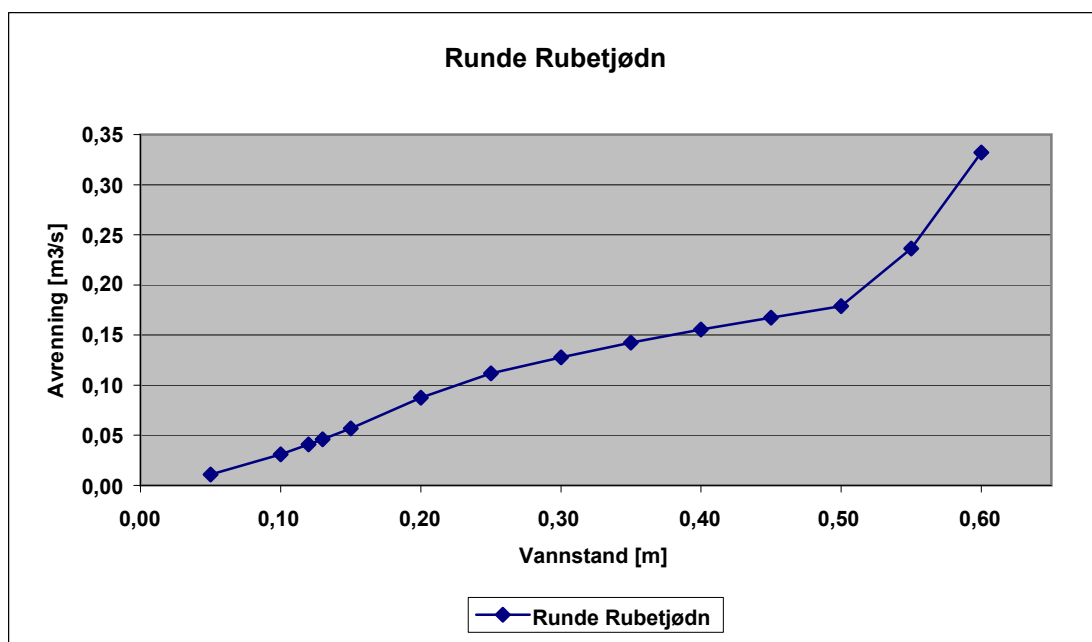
a [m]	0,1	b [m]	0,25
C [m ^{1/2} /s]	1,4	V [m/s]	0
C _c [-]	0,6	Grense, friskeil [m]	0,14
H [m]	Q [m/s]	Tilslig, middel [m ³ /s]	0,0103
	Formel	L _{eff} [m]	1
0,05	0,0039		
0,10	0,0111		
0,12	0,0145		
0,13	0,0164		
0,15	0,0199		
0,20	0,0249		
0,25	0,0290		
0,30	0,0325		
0,35	0,0358		
0,40	0,0387		
0,45	0,0415		
0,50	0,0441		
0,55	0,0622		
0,60	0,0931		

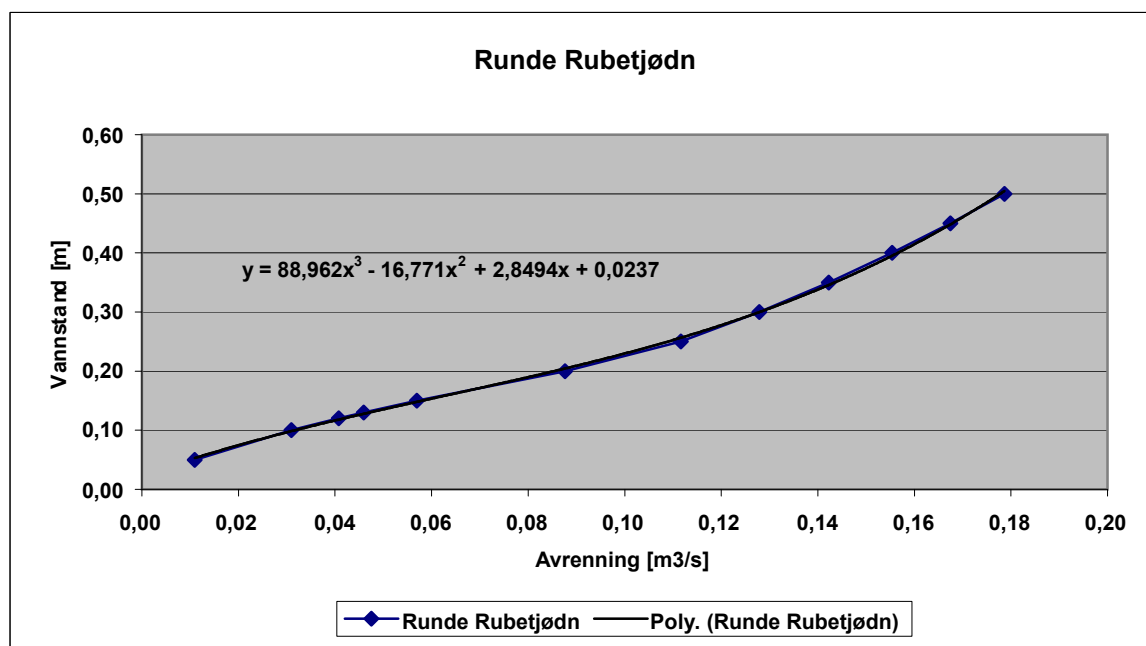
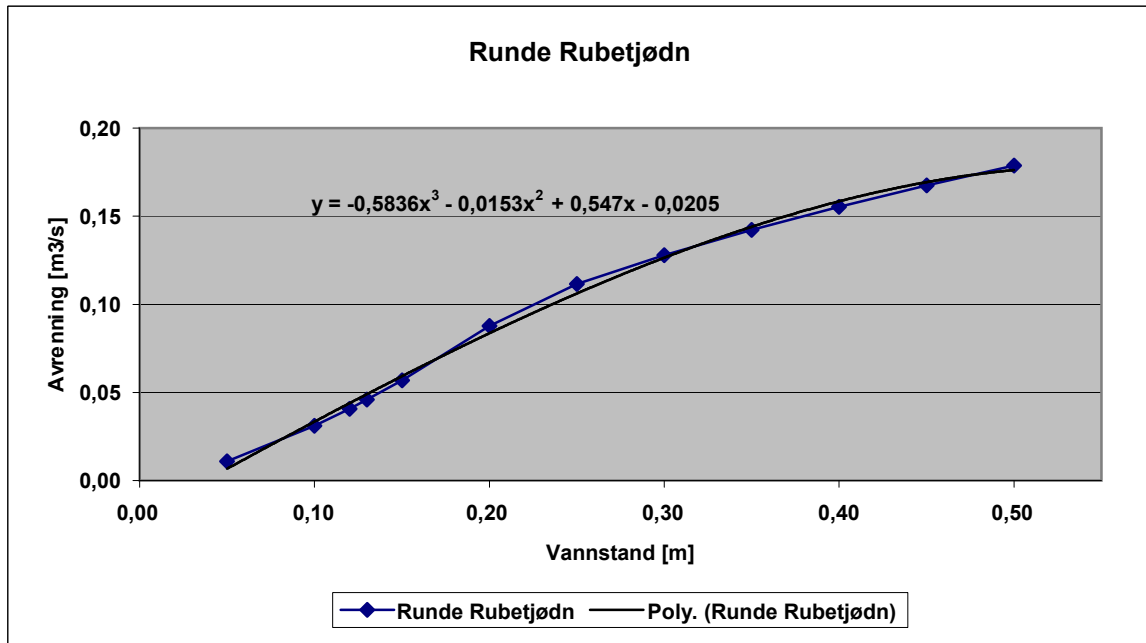




Runde Rubetjødn

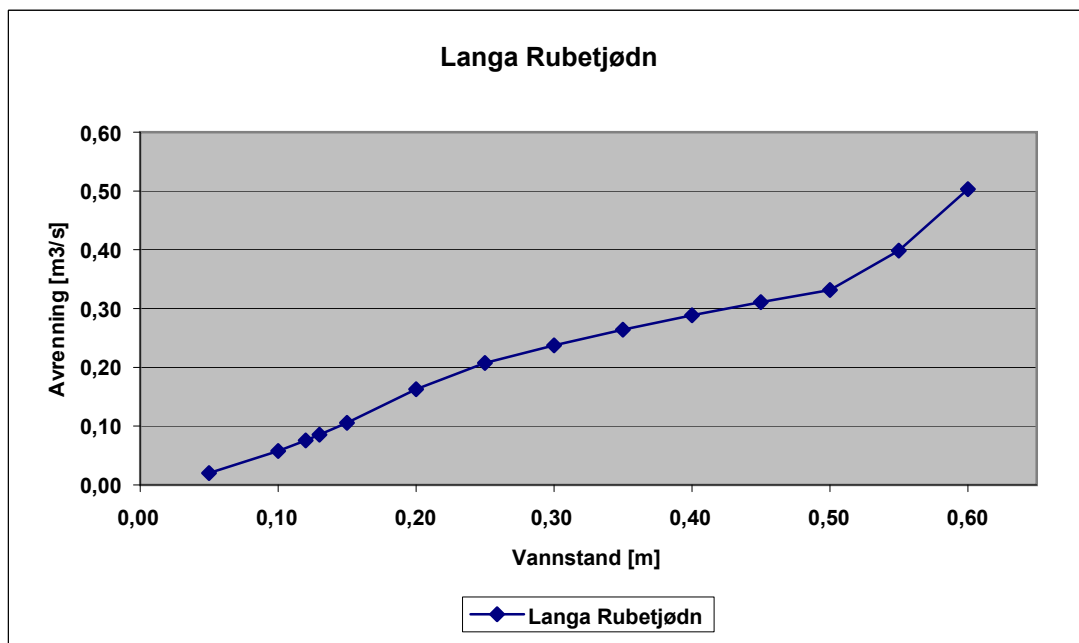
a [m]	0,15	b [m]	0,7
C [m ^{1/2} /s]	1,4	V [m/s]	0
C _c [-]	0,6	Grense, friskeil [m]	0,21
H [m]	Q [m ³ /s]	Tilslig, middel [m ³ /s]	0,0357
	Formel	L _{eff} [m]	3
0,05	0,0110		
0,10	0,0310		
0,12	0,0407		
0,13	0,0459		
0,15	0,0569		
0,20	0,0877		
0,25	0,1116		
0,30	0,1279		
0,35	0,1423		
0,40	0,1554		
0,45	0,1674		
0,50	0,1787		
0,55	0,2362		
0,60	0,3321		

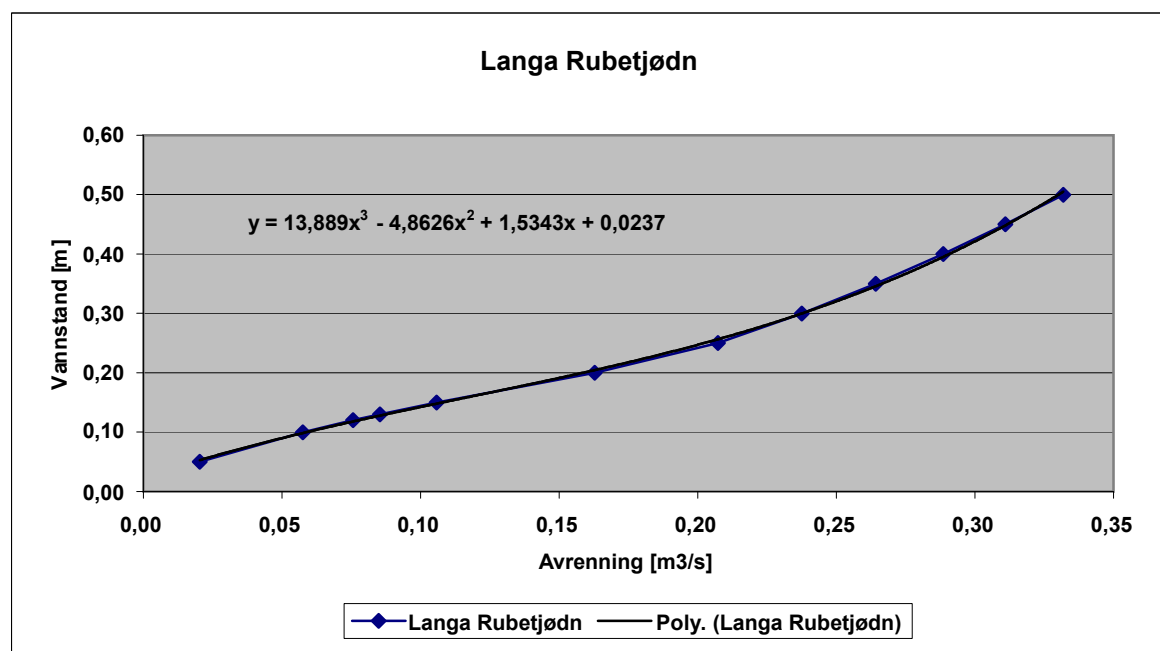
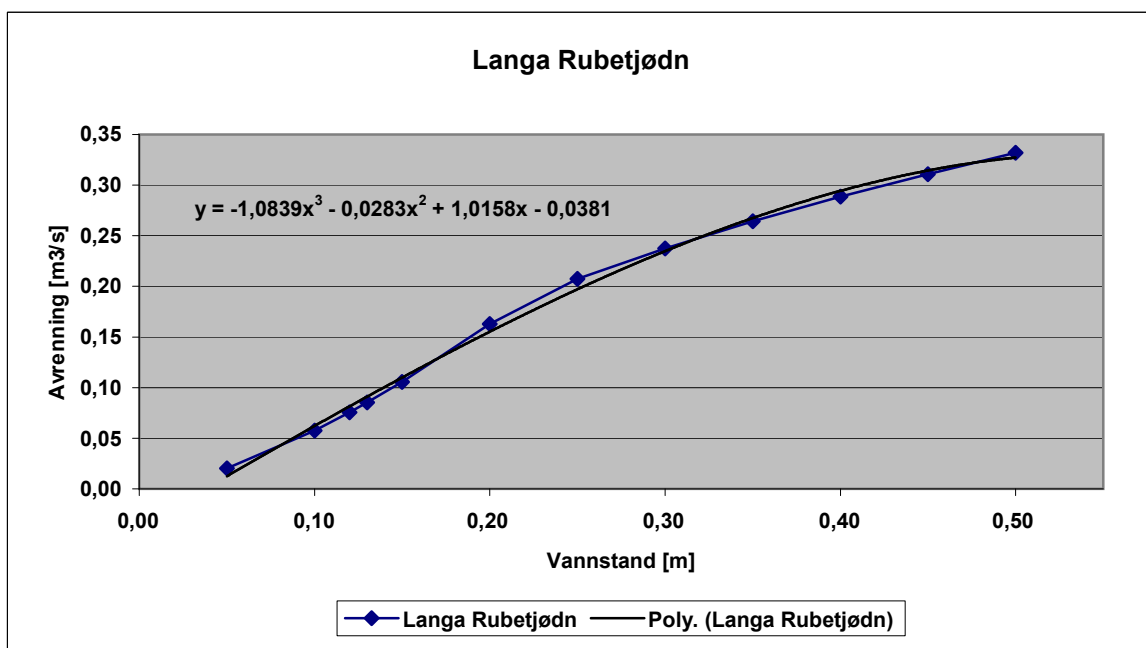




Langa Rubetjødne

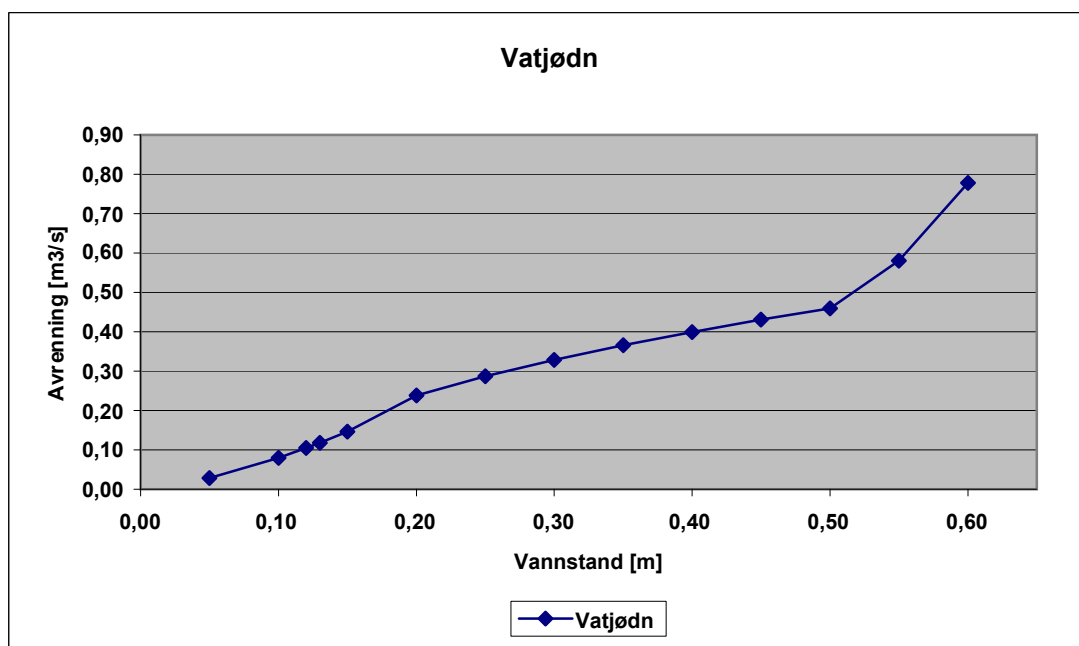
a [m]	0,15	b [m]	1,3
C [m ^{1/2} /s]	1,4	V [m/s]	0
C _c [-]	0,6	Grense, friskeil [m]	0,21
H [m]	Q [m ³ /s] Formel	Tilslig, middel [m ³ /s] L _{eff} [m]	0,0617 3
0,05	0,0203		
0,10	0,0576		
0,12	0,0757		
0,13	0,0853		
0,15	0,1057		
0,20	0,1628		
0,25	0,2073		
0,30	0,2375		
0,35	0,2643		
0,40	0,2885		
0,45	0,3109		
0,50	0,3318		
0,55	0,3984		
0,60	0,5029		

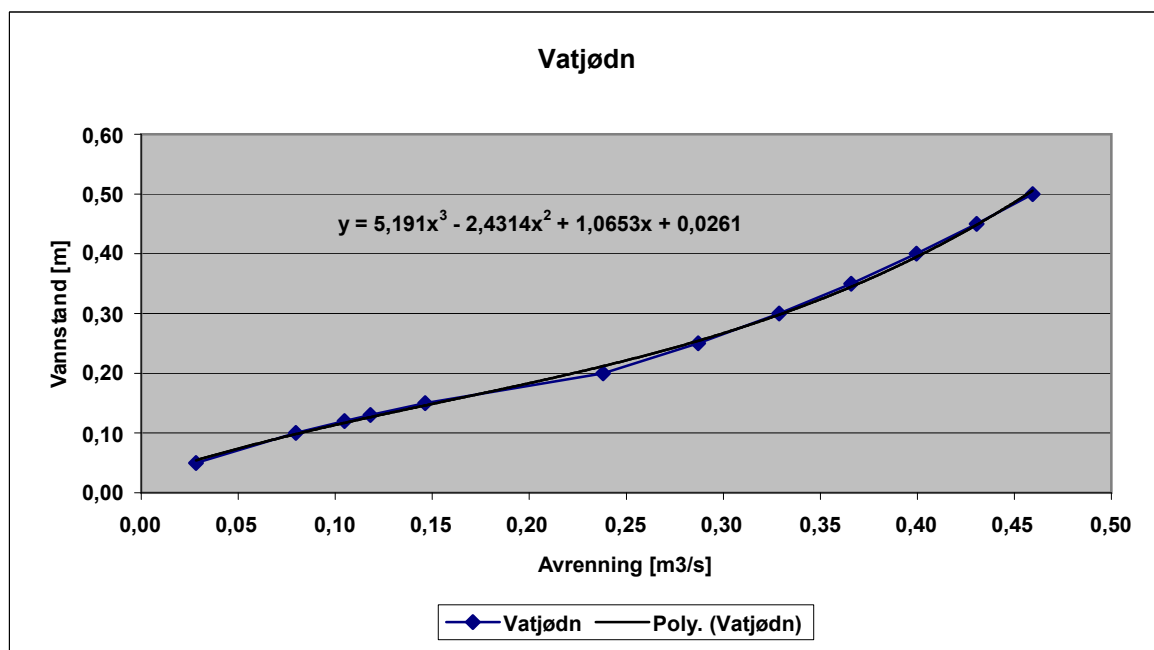
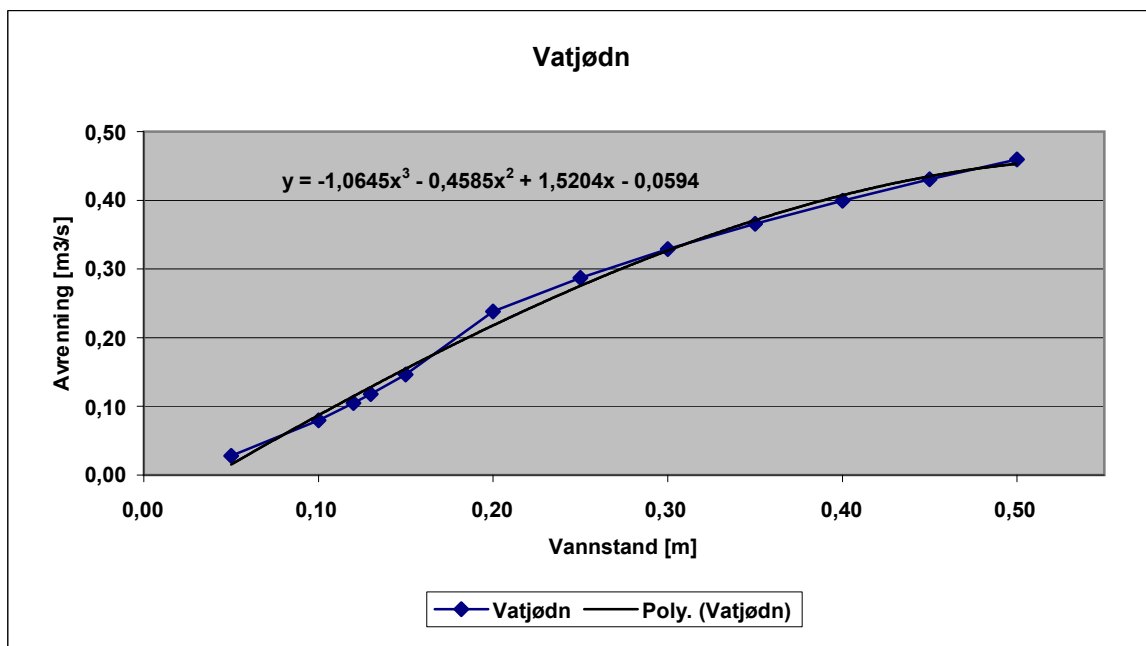




Vatjød

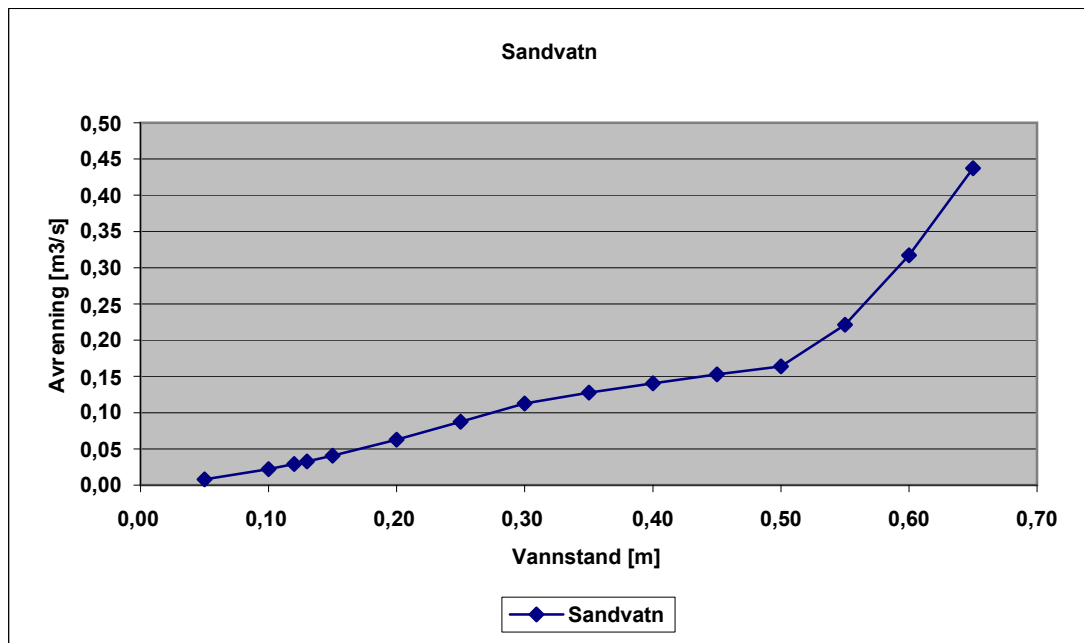
a [m]	0,15	b [m]	1,8
C [m ^{1/2} /s]	1,4	V [m/s]	0
C _c [-]	0,6	Grense, friskeil [m]	0,21
H [m]	Q [m ³ /s]	Tilslig, middel [m ³ /s]	0,0843
	Formel	L _{eff} [m]	6
0,05	0,0282		
0,10	0,0797		
0,12	0,1048		
0,13	0,1181		
0,15	0,1464		
0,20	0,2380		
0,25	0,2870		
0,30	0,3288		
0,35	0,3659		
0,40	0,3995		
0,45	0,4305		
0,50	0,4595		
0,55	0,5806		
0,60	0,7781		

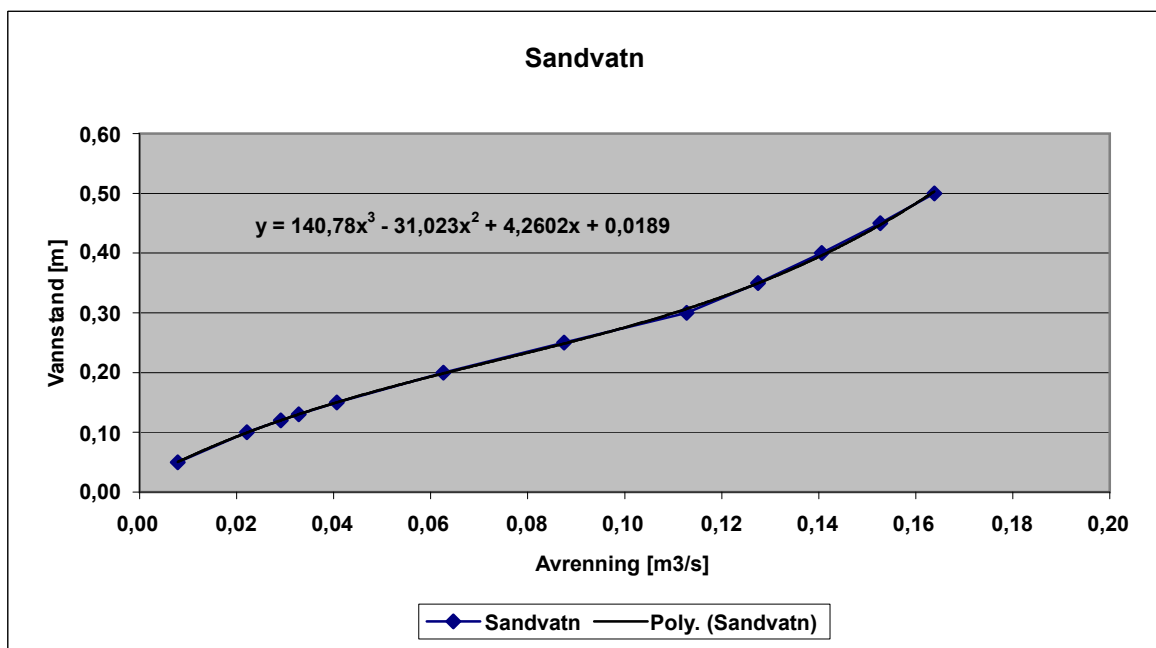
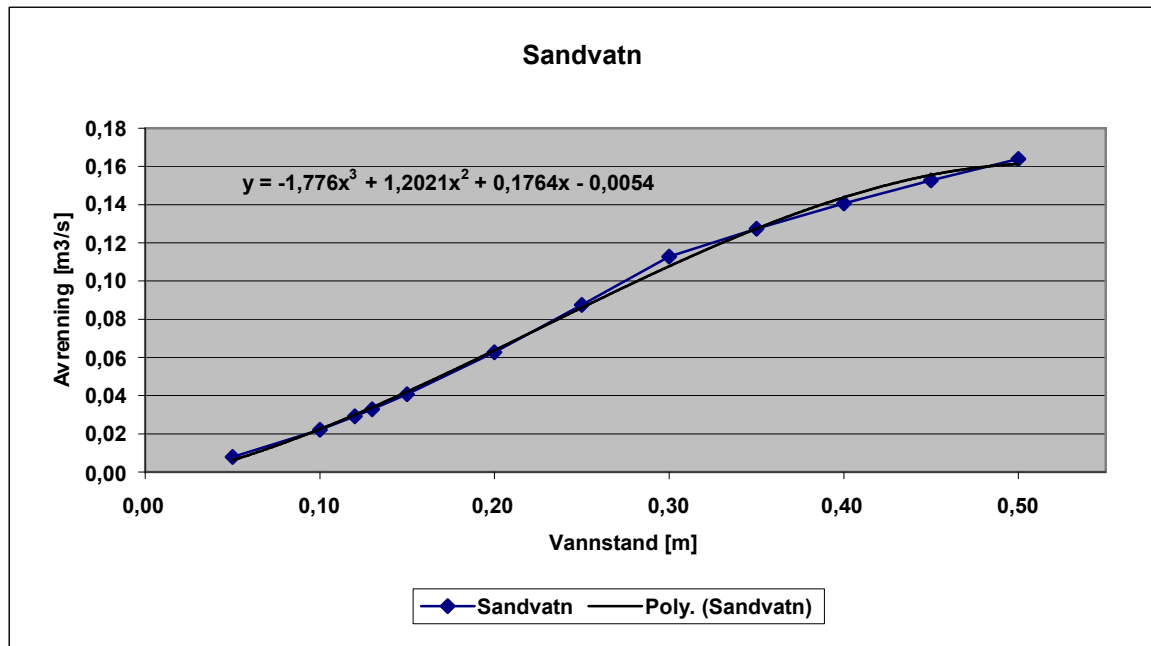




Sandvatn

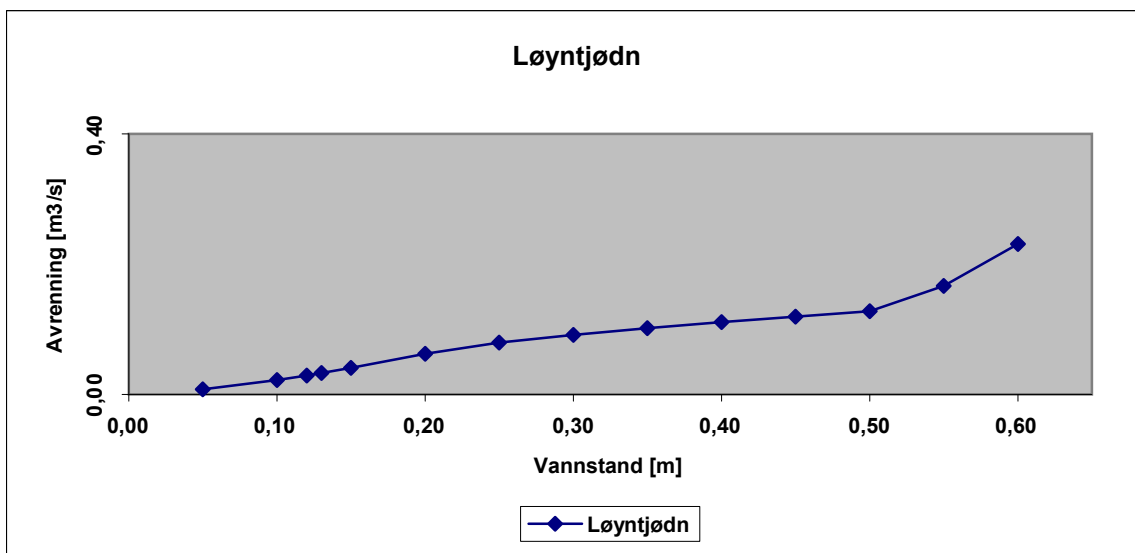
a [m]	0,2	b [m]	0,5
C [m ^{1/2} /s]	1,4	V [m/s]	0
C _c [-]	0,6	Grense, friskeil [m]	0,28
H [m]	Q [m ³ /s]	Tilslig, middel [m ³ /s]	0,0321
	Formel	L _{eff} [m]	3
0,05	0,0078		
0,10	0,0221		
0,12	0,0291		
0,13	0,0328		
0,15	0,0407		
0,20	0,0626		
0,25	0,0875		
0,30	0,1128		
0,35	0,1275		
0,40	0,1406		
0,45	0,1527		
0,50	0,1638		
0,55	0,2212		
0,60	0,3169		
0,65	0,4375		

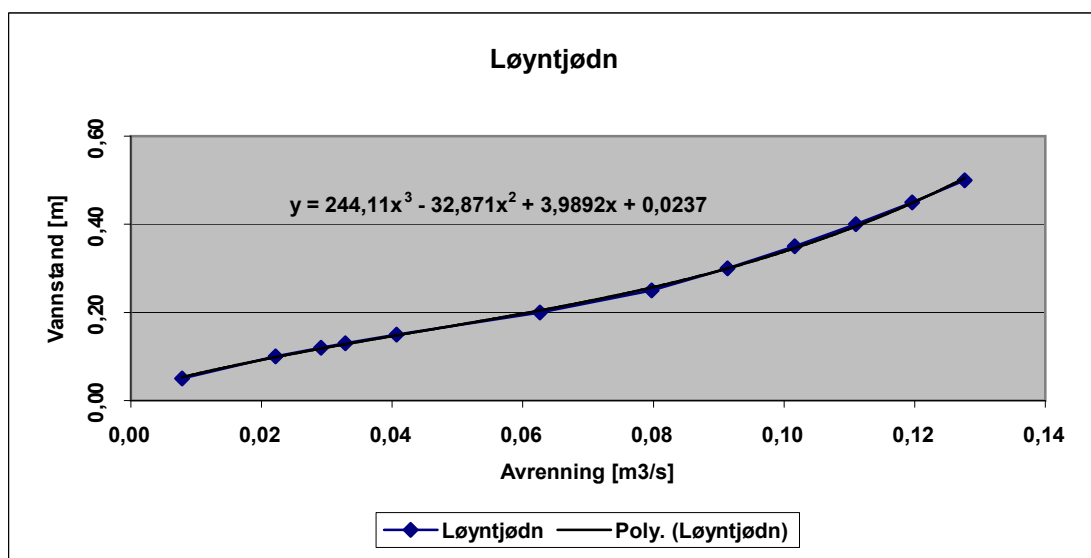
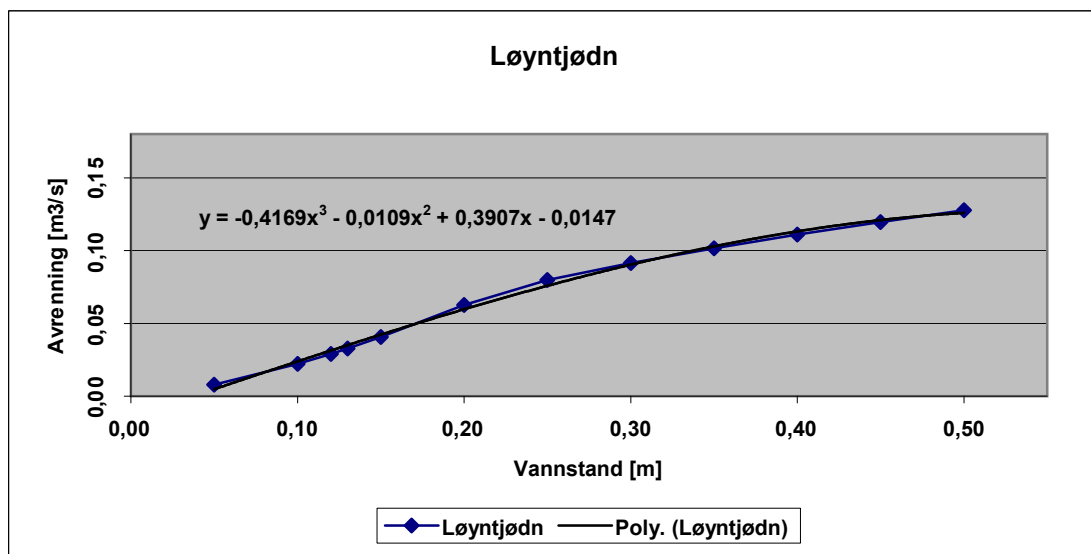




Løyntjødñ

a [m]	0,15	b [m]	0,5
C [m ^{1/2} /s]	1,4	V [m/s]	0
C _c [-]	0,6	Grense, friskeil [m]	0,21
H [m]	Q [m/s]	Tilslig, middel [m ³ /s]	0,0238
	Formel	L _{eff} [m]	2
0,05	0,0078		
0,10	0,0221		
0,12	0,0291		
0,13	0,0328		
0,15	0,0407		
0,20	0,0626		
0,25	0,0797		
0,30	0,0913		
0,35	0,1016		
0,40	0,1110		
0,45	0,1196		
0,50	0,1276		
0,55	0,1665		
0,60	0,2309		





Formelliste

[1] Frispeilstømning

$$Q = C \cdot b \left(H + \frac{V^2}{2g} \right)^{3/2} \Rightarrow H = \left(\frac{Q}{C \cdot b} \right)^{2/3} - \frac{V^2}{2g}$$

[2] Grense, frispeilstømning

$$\frac{H}{a} = 1,4 \Rightarrow H = 1,4 \cdot a$$

[3] Dykket innløp, skytende strøm nedstrøms

$$Q = C_c \cdot a \cdot b \sqrt{2g \left(H + \frac{V^2}{2g} - C_c \cdot a \right)} \Rightarrow H = \frac{1}{2g} \left(\frac{Q}{C_c \cdot a \cdot b} \right)^2 + C_c \cdot a - \frac{V^2}{2g}$$

[4] Kapasitetsberegning, overløp

$$Q = C \cdot L_{eff} \cdot (H)^{3/2}$$