

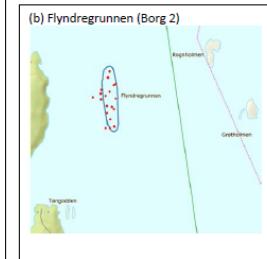
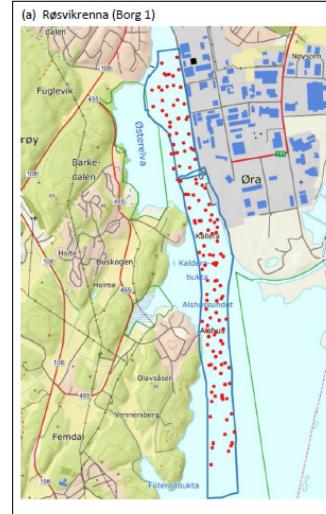
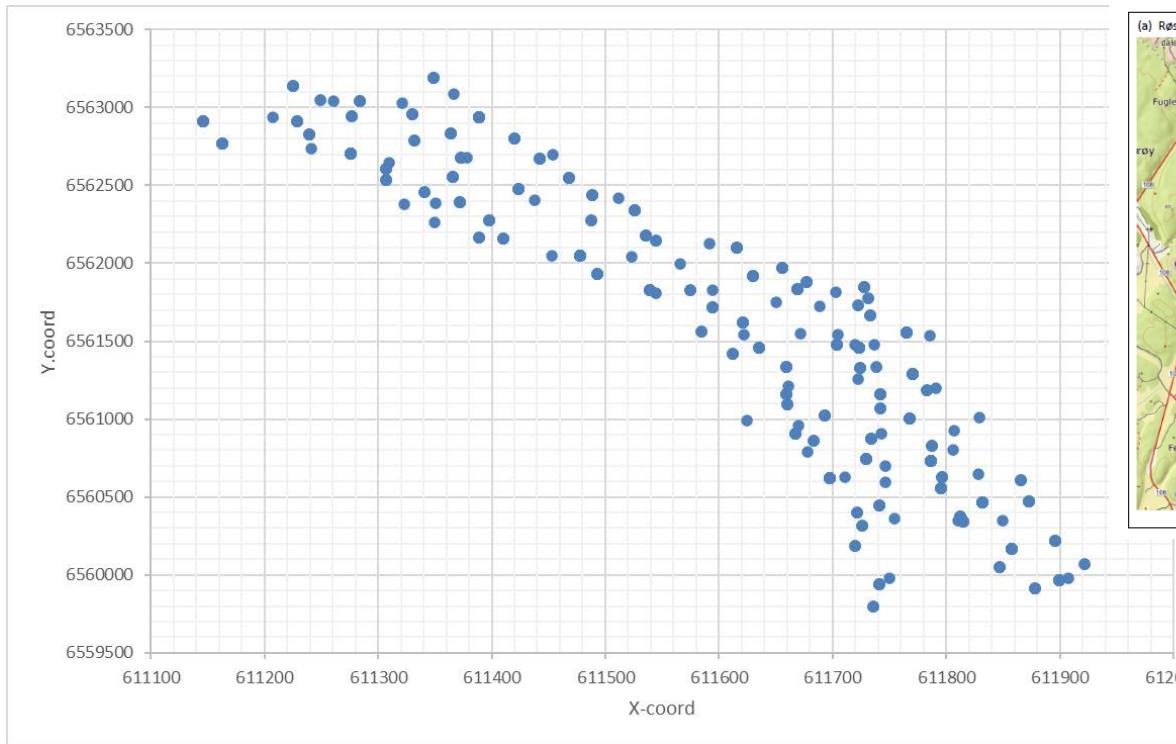


eQ case Borg Havn

Geotechnical and env. properties sediments

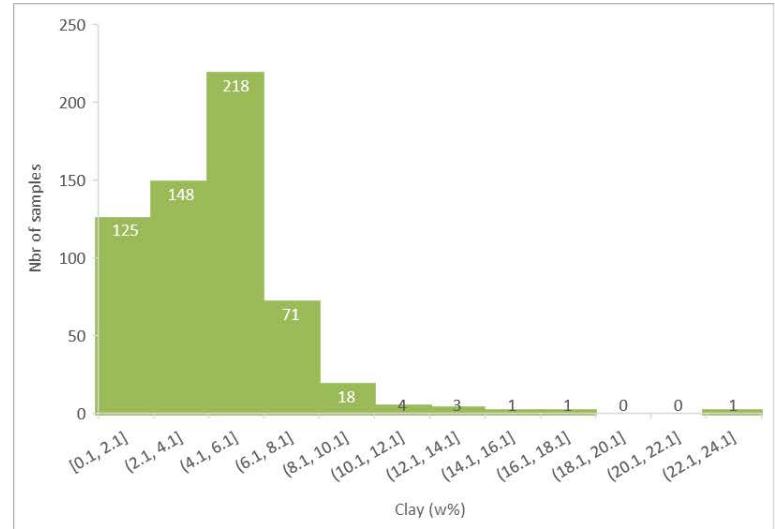
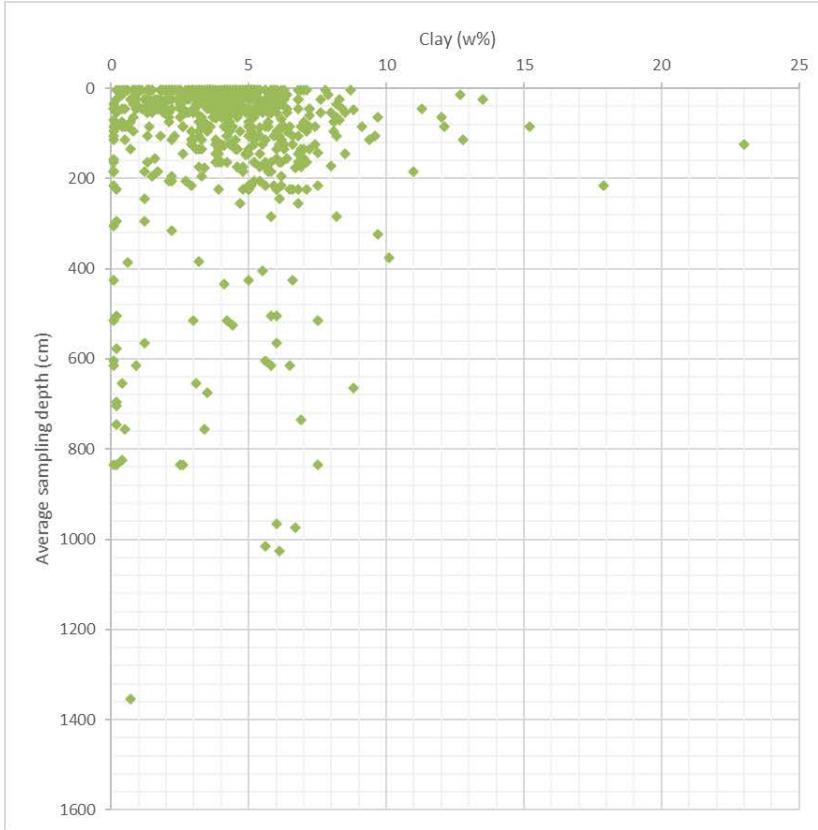
2022-03-15, Paul og Stefan

Locations



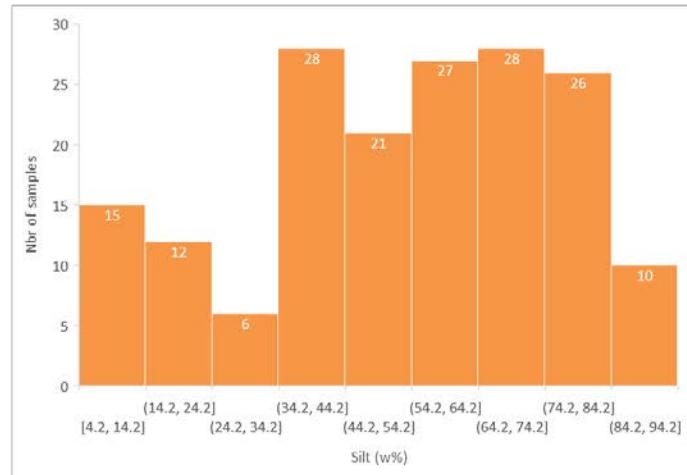
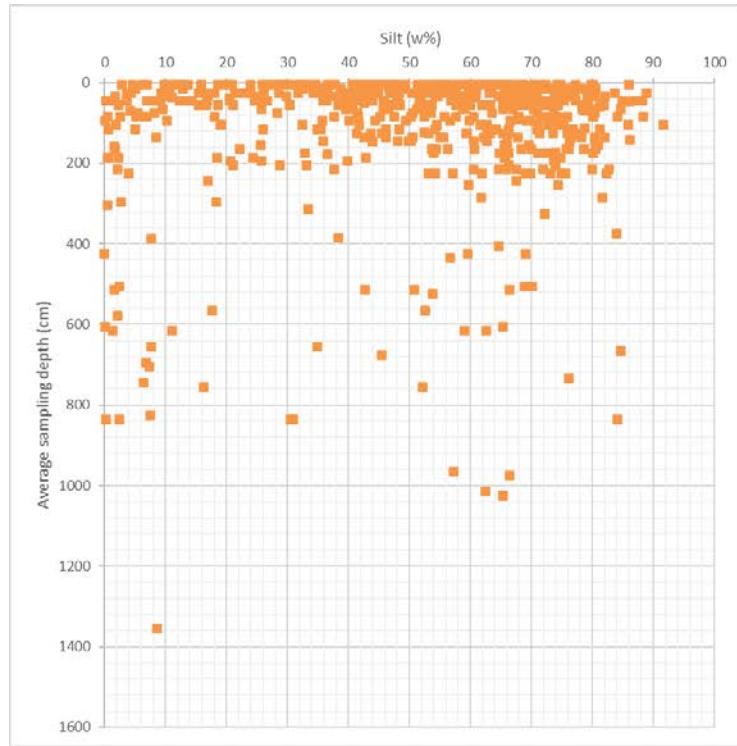
from NIVA 7277-2018

Clay content



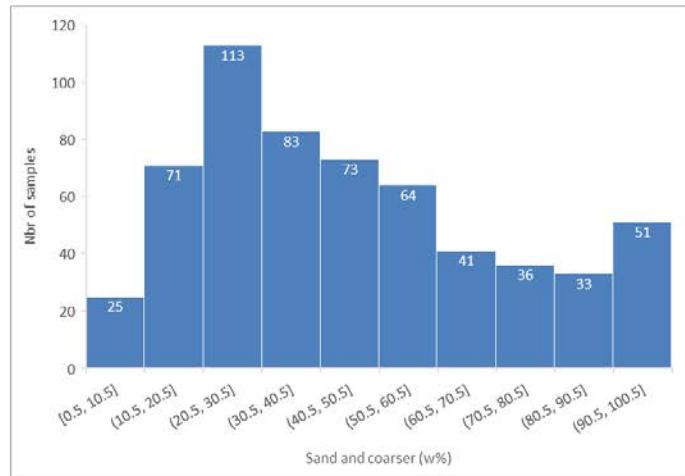
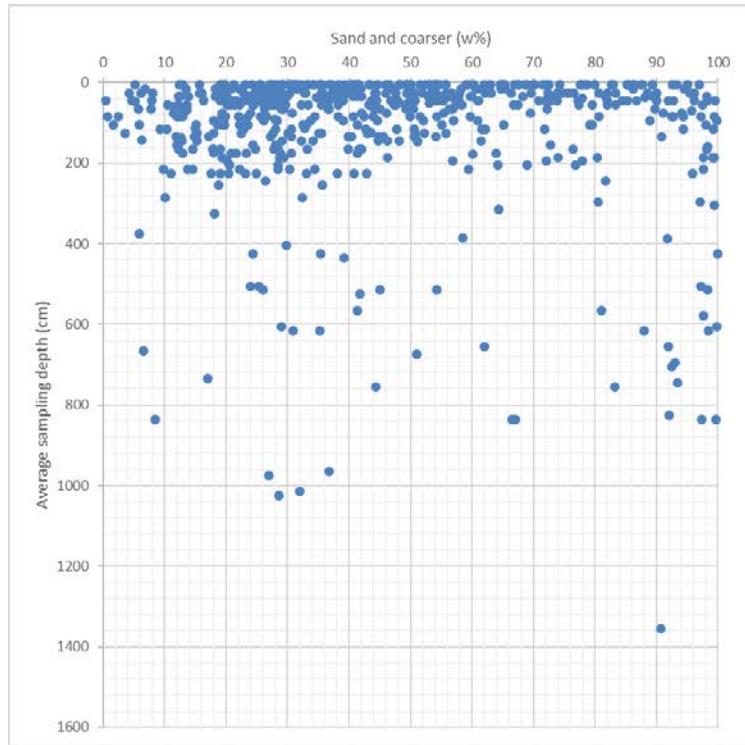
- ↗ no clear trend with depth
- ↗ most samples have a clay content < 6 w%
- ↗ slightly lower clay content than [1]

Silt content



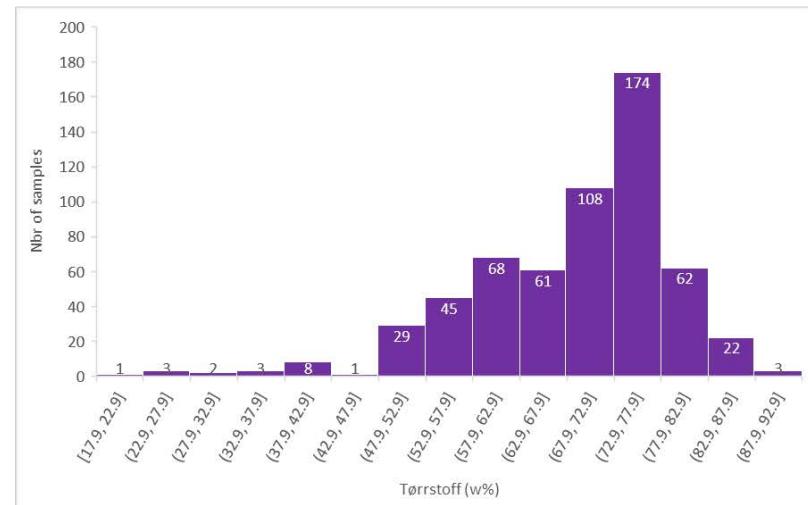
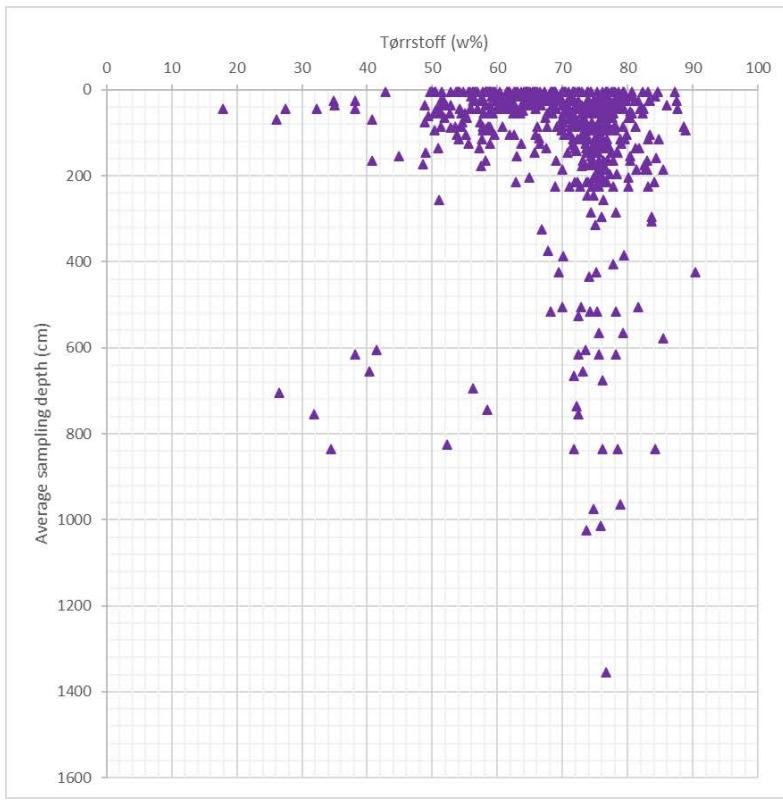
- ¬ no clear trend with depth
- ¬ most samples have a silt content between 34 to 84 w%
- ¬ large variation
- ¬ lower silt content compared to [1]

Sand and coarser



- no clear trend with depth
- most samples have a sand and coarser content between 20 to 30 w%
- notable variation
- more «sand» compared to [1]

Tørrstoff (%) = dry mass / total mass

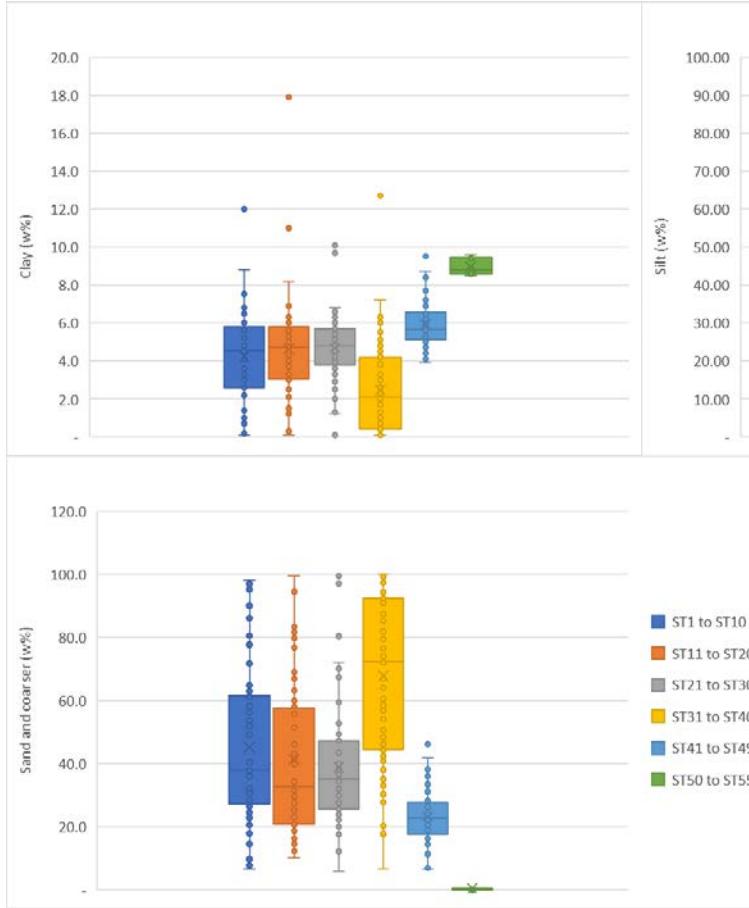


- most samples have 70 - 80 w% tørrstoff
- lower values close to surface
- outliers (?)

Overview results

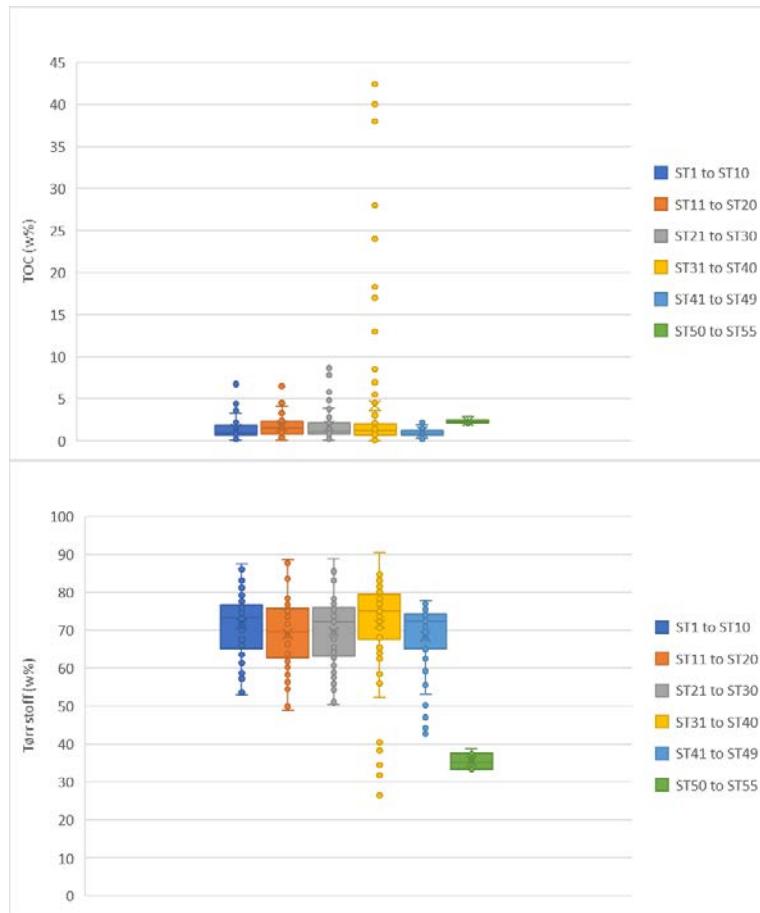
| | Mean | Stdv |
|---------------------------------|------|------|
| Sand and coarser (>63 µm) in w% | 45.9 | 25.8 |
| Silt (<63 µm and >2 µm) in w% | 49.8 | 23.6 |
| Clay (<2 µm) in w% | 4.2 | 2.6 |
| Tørrstoff in w% | 68.7 | 10.7 |

Spatial variation of particle size



- ☛ coarser from ST1 to ST40
- ☛ ST50 to ST55 all samples from a depth 0-10 cm

Spatial variation TOC and Tørrstoff



↗ ST50 to ST55
all samples
from a depth
0-10 cm

Om miljøprøver

- ☛ Sett på prøver med over 50 % sand (størst potensial for gjenbruk)
- ☛ En stor andel er forurensset
- ☛ Ev. behandling kan fjerne mye av forurensningen fra sanden, med mulig oppkonsentrering i finstoff. Dette må testes.
- ☛ Gjenbruk på land mht. innhold av metaller og PAH ser lovende ut, forutsatt lav utlekking.
- ☛ Størst utfordring knyttet til PCB, som myndighetene vil ha ut av kretsløpet og ikke inn i sirkulære prosesser. 30 % av prøvene med >50 % sand overskridet normverdi for PCB i jord/løsmasser.
- ☛ TBT er også mulig joker. Må testes.
- ☛ Saltinnhold er ikke målt, men antar at dette er relativt høyt.