

## **Claire Mason**





• Natural reference sediment sample (created in-house)

covers full range of sieves tests all sieve shakers are giving the same result tests competence of analyst

- Balances calibrated annually
- Sample weighed before, (during), and after. All these weights compared and some initial limits have been set to determine whether sample needs re-sieving.





- Natural reference sediment sample (created in-house) sand (for manual SOPs) and mud (for autosampler SOP) run in-house at start and end of analyses Defined limits set and stert chart created to show instrument drift, etc.
- Certified reference materials glass run in autosampler and manually once a month.
- Laser data checked forbackground (channel 1 <140, channel 20 <20) and smooth curve from channel 1 to channel 52 obscuration (5-20%) weighted residual and residual
- Laser diffraction proficiency testing scheme (PACQs)



## Whole method

Whole sample

NMBAQC PSA ring test

2 samples a year

- sandy sediment
- muddy sediment

Test the PSA method used for monitoring samples



## Advantages

Cefas

- Gives confidence in results
- Proves method repeatable and accurate

## Disadvantages

Adds time to analysis

