

# Results of the survey: Expression of interest for an ultra- clean dish-washer

On the website <https://www.geotraces.org/> during 6 weeks  
+ announcement in Geotraces newsletter (Feb 2022)

13 questions: 79 answers:

- on the regular use of a cleaning equipment already commercially available : 2 yes
- on the interest of developing such a facility : 55 yes (i.e. 69.6%)
- If the equipment is developed (for rinsing), ok to buy ? : 46 yes (i.e. 58.2%)
- Important points raised in the survey (slide 2)
- About the size and type of bottles to rinse (slide 3)
- Number of bottles to rinse: depends on the size
- Would you be interested for other trace elements(in add.to Pb, Co, Cu, Zn, Mn, Fe)?(slide 4)
- Would you be interested in analysing elements...(slide 5)

# Important points raised in the answers

- Irregular use: the dishwasher must offer cleanliness (ultra) even if the use is occasional
- MilliQ water management (the flow rate from the MilliQ tank must be sufficient)
- Ability to wash different types of bottles (including vials)
- Cap washing management (dedicated trays)
- Correct cleaning of « **narrow neck** » bottles
- ....
- Resistance over time (corrosion/rinsing water contains traces of acids)
- ....
- Compact system
- Same rendering as Geotraces protocols (handwash)
- Power management (US)
- Don't forget Metal-free outer casing for cleanroom installation

# Different sizes of bottles listed in the answers

- ✓ 2mL
- ✓ 4mL
- ✓ 7mL
- ✓ 15mL
- ✓ 20mL
- ✓ 30mL
- ✓ 50mL
- ✓ 60mL
- ✓ 90mL
- ✓ 100mL
- ✓ 125mL
- ✓ 250mL
- ✓ 500mL

- ✓ 1L
- ✓ 2L
- ✓ 2.5L
- ✓ 4L
- ✓ 5L
- ✓ 10L

Probably no size above 500ml  
will be considered

Would you be interested in this device for other trace elements (in add.to Pb, Co, Cu, Zn, Mn, Fe)?

Cd  
Al  
Ag  
As  
Cr  
Th  
Ni  
radio isotopes U  
V  
first row transition metals  
REEs  
Mn  
Ti  
Boron and Silicon (not trace, I realize)  
Hg

ligands of those elements

Ga  
Ba  
N  
P  
Li  
Ce  
Sr  
Sm  
La  
Y

Would you be interested in analysing those elements following the same protocol as we do for trace metals

(in add.to Pb, Co, Cu, Zn, Mn, Fe)?

Cd  
Al  
Th  
REEs (Rare Earth Elements)  
Ni  
Other first row transition metals  
Ti  
Hg  
As  
V  
Se  
U  
Cr

Ba  
N  
P  
Si  
B  
Li  
Nd  
Hs  
La  
Y  
Ga

For those who expressed their interest in participating in supplementary analyses, could you directly send us your contact details and elements you are willing to analyse please?  
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Thanks a lot to all participants to the  
survey

We'll give you news asap about the  
progress of this project

In the meantime don't hesitate to  
contact us

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