

Work instruction Drinking water: calculation of 90-Percentile concentration

- Request the raw data for the substance of concern via www.vewin.nl/probleemstoffen
- Insert the following summarizing block below all measurements (start at cell C, two lines below last entry).
 - Make sure the codes for the locations match the formulas.
 - **NEW: code HAV should be replaced with STE**
 - *REASON: The Stellendam location has been abandoned mid 2017 and is replaced with Haringvliet*
 - *In order to have the formulas working until further notice the code STE is still to be used, also for new measurements*
 - make sure that the right row numbers are selected for each abstraction point.

Total no of measurements = `=COUNT(F2:Fxxx)`
 Number of measurements exceeding the drinking water criterion = `=COUNTIF(I2:Ixxx,"J")`
 Number of measurements exceeding the detection limit = `=COUNTIF(E2:Exxx,"+")`
 Maximum value = `=MAX(H2:Hxxx)`
 Number of times that concentration is 0.1 µg/L = `=COUNTIF(H2:Hxxx,"0.1")`
 Overall 90-percentile = `=PERCENTILE(H2:Hxxx,0.9)`

	Total	#>d.l.	#>0.1 µg/L	90-Percentile for each abstraction point
# measurements Andijk:	<code>=COUNTIF(A\$2:A\$xxx,"And")</code>	<code>=COUNTIF(E2:Exxx,"+")</code>	<code>=COUNTIF(I2:Ixxx,"J")</code>	<code>=PERCENTILE(H2:Hxxx,0.9)</code>
# measurements Nieuwegein:	<code>=COUNTIF(A\$2:A\$xxx,"Ngn")</code>	<code>=COUNTIF(Exx:Exxx,"+")</code>	<code>=COUNTIF(Ixx:Ixxx,"J")</code>	<code>=PERCENTILE(Hxx:Hxxx,0.9)</code>
# measurements Amsterdam Rijn-Kanaal (=Nieuwersluis):	<code>=COUNTIF(A\$2:A\$xxx,"Nsl")</code>	Etc.	Etc.	Etc.
# measurements Brakel:	<code>=COUNTIF(A\$2:A\$xxx,"Bra")</code>			
# measurements	<code>=COUNTIF(A\$2:A\$xxx,"Hee")</code>			

Heel:

=COUNTIF(A\$2:A\$xxx,"Kei")

measurements
 Petrusplaat
 (=Keizersveer)

:
 # =COUNTIF(A\$2:A\$xxx,"Ste")

measurements
 Scheelhoek
 (=Haringvliet/S
 tellendam):

=COUNTIF(A\$2:A\$xxx,"Dra")

measurements
 Drentsche Aa

Totals =SUM(fxxx:fxxxx) =SUM M(hx
 (gxxx: xx:hx
 gxxxx) xxx)

All available data of RIWA Rhine/Meuse and Drentsche Aa over period (e.g.) 2009-2013 are taken into account. Values below detection limit are transferred to 0.5* detection limit.

- Please take into account the number of decimals (final report should not contain additional decimals compared to the raw data and rounding should be done in the final stage only).
- Report the summary of the findings in the following format in the National Addendum assessment (Part B section 5, section 9.8.7.3 drinking water criterion)

Table 9.8.7.3-1 Monitoring data for [name] at drinking water abstraction points from surface water in the period (e.g.) 2009 – 2013

Abstraction point	Number of measurements above detection limit/ Number of measurements [n/N]	Number of measurements above drinking water limit/ Number of measurements [n/N]	Overall 90-percentile [µg/L]
Andijk			
Nieuwegein			
Amsterdam-Rijn kanaal (Nieuwersluis)			
Brakel			
Heel			
Petrusplaat/Keizersveer			
Scheelhoek/Stellendam*			
Drentsche Aa (De Punt)			

* please note that from June 2017 onwards this abstraction point is renamed to Haringvliet

- In addition provide Ctgb with the spreadsheet calculations.