## **Quality Management and Upload Platform** for Field Measurements Data

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# A Monitoring Result is Born

CUNENTATION that stays with you, forever

#### **Objective**

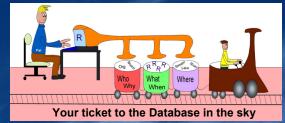
Provide a simple Excel platform for small monitoring groups, that do not have any IT support, to help them publish their field observations and measurements results.

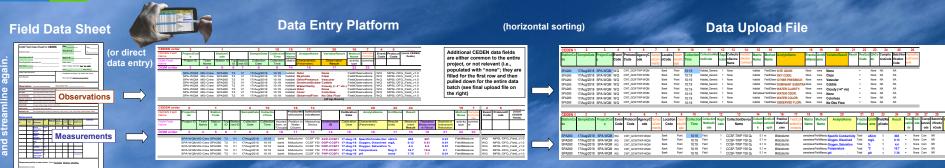
The Data Quality Management (DQM) was created in the early 2000s by the Author, then a member of the Clean Water Team the Citizen Monitoring Program of the California State Water Resources Control Board.

#### **Receiving Data Exchange Network**

The California Environmental Data Exchange Network (CEDEN) was created by the California State Water Resources Control Board and other Agencies in collaboration with academia and research institutes, and launched in the early 2010s. The data reside in several Data Centers across California. Very convenient: vaulability of upload templates, dictionaries and lookup tables, on-line data checker, and support team with real humans.

Less convenient: the order of data fields in the templates does not support the order of operators' activities in the field and the office.







### Data Quality Management Platforms: Accuracy and Precision

Project ID	Instrument ID	Characterisitc	Units	Date	Time	Reason	Standard Material	Theoretical ("True") Value	Reading in Standard	Action taken	Reading after calibration	Drift	Accuracy (%)
SPA-WQM SPA-WQM		Dissolved oxygen Dissolved oxygen			8:30 13:48	Pre-event Post event	humid air humid air	100 100		none cal	NA 100.3	0.2 -5.3	0.2 -5.3
					8:30 13:48	Pre-event Post event	TWP-PH5 TWP-PH5	7		cal	7.04 7.02	0.04 0.05	0.6 0.7
		Specific Conductive Specific Conductive Cond			8:30 13:48	Pre-event Post event	TWP-EC2 TWP-EC2			none cal	NA 999	-1 14	-0.1 1.4
				-							-		

Why do you need an accuracy check SOON after data collection?



#### DRIFT HAPPENS

If you do not check and record how much your instrument has drifted from the calibrated state, you are reporting data of unknown quality!



The DQM Project File can be easily tailored to any upload template and receiving database or data exchange network.

Tailoring requires basic Excel skills and ability to follow instructions (provided with the file). Please contact Revital by email (revitalk at sbcglobal.net) for advice, kibbitz, and other kinds of help.