



Proficiency Testing Program Organised by

Center for Laboratory Proficiency Testing Department of Science Service,

Ministry of Science and Technology, Bangkok, Thailand

pH - value in water

PTEN - W03 - 1801

21 February 2018

SUMMARY SHEET

Laboratory Name : Technical Training and Support Service, Center for Scientific and

Technological Equipment, Walailak University

Laboratory Code

: W03 - 1801 - 246

Test item	Sample	No. of results	Assigned value		Standard deviation	Lab's result		7 score
			Xpt	MU	for proficiency assessment (σ_{pt})	Value	MU	z-score
pH-value at 25 °C	Α	382	4.300	0.017	0.050	4.32	0.06	0.40
	В	382	9.729	0.022	0.050	9.59	0.12	-2.78 W

Note

- 1. Assigned values (x_{pt}) are the reference values determined by reference laboratory (National Institute of Metrology, Thailand).
- 2. Standard deviations for proficiency assessment (σ_{pt}) are the target standard deviations by perception from the standard methods for the examination of water and wastewater, AWWA, APHA, 23^{rd} ed., 2017. part 4500-H † B. and ISO 10523:2008, Water quality-determination of pH.
- 3. MU is measurement uncertainty at 95% confidence level.
- 4. Each z-score marked with "A" is an outlier ($|z| \ge 3.0$). Therefore, laboratory which is marked with "A" shall investigate the result. Laboratory is also encouraged to review the result which has an absolute z - score value between two and three (2.0 < |z| < 3.0) marked with "W".
- 5. This summary sheet shall be read in conjunction with the final report.

Reported by

W. Suprance

(Miss Suprawee Wongsuchoto) Program Coordinator

Approved by

(Mrs. Pochaman Tagheen)

Head of Center for Laboratory Proficiency Testing

Department of Science Service