



Proficiency Testing Program  
Organised by  
Center for Laboratory Proficiency Testing  
Department of Science Service,  
Ministry of Science and Technology, Bangkok, Thailand

× Biochemical Oxygen Demand (BOD<sub>5</sub>) in water

PTEN - W05 - 1801

27 August 2018

SUMMARY SHEET

Laboratory Name : Technical Training and Support Service, Center for Scientific and Technological Equipment, Walailak University

Laboratory Code : W05 - 1801 - 151

Test item	Number of results	Assigned value ( $x_{pt}$ )	Standard deviation for proficiency assessment ( $\sigma_{pt}$ )	Lab's result		z-score
				Value	MU	
Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/L	207	196.2	19.6	170	-	-1.34

Note

1. Assigned value ( $x_{pt}$ ) is the robust average of the participant results in this round, calculated by using Algorithm A (ISO 13528:2015).
2. Standard deviation for proficiency assessment ( $\sigma_{pt}$ ) is the target standard deviation from expert judgement.
3. Each z-score marked with "A" is an outlier ( $|z| \geq 3.0$ ). 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".
4. This summary sheet shall be read in conjunction with the final report.

Reported by

*W. Suprawee*

(Miss Suprawee Wongsuchoto)  
Program Coordinator

Approved by

(Mrs. Pochaman Tagheen)  
Head of Center for Laboratory Proficiency Testing  
Department of Science Service