

**JABATAN KIMIA MALAYSIA  
PROFICIENCY TESTING PROGRAMME**

**ENVITEST 5-19  
Year 2019**

**Turbidity and Total Alkalinity in Surface Water**

**KIMIA PT Report No. 8/2019**

June 2019



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## ACKNOWLEDGEMENTS

This proficiency testing programme was conducted by Quality Management and Research Centre in collaboration with Environmental Chemistry Division of Department of Chemistry Malaysia, Petaling Jaya.

We would like to thank the management and staff of the participating laboratories for their support towards this programme.

Approved signatory,

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This report was authorized by  
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Date: 18<sup>th</sup> June 2019

## SUMMARY

This proficiency testing programme was conducted in April - May 2019. A total of ninety-one (91) participants from laboratories in Malaysia and ASEAN countries participated in this PT scheme. A set of two PT items labelled as ENVITEST 5-19 "Item A" and "Item B" was dispatched to the participating laboratories and 80 participants had submitted their results.

Results for this study are summarised as follows:

PT Item	Testing Parameter	Assigned value	Expanded Uncertainty	Number of scores, $ z  \leq 2.0$	Total number of responses	% $ z  \leq 2.0$
Item A	Turbidity	29.8 NTU	0.4 NTU	76	80	95
Item B	Total Alkalinity	21.7 mg/L	0.8 mg/L	66	77	86

*The expanded uncertainties are based on an estimated confidence probability of not less than 95% and have a coverage factor of  $k = 2$*

