



ALS Malaysia

January 2018

ENVIRONMENTAL SEMINAR

Volatile Organic Compounds (VOCs) Analysis in Drinking Water

Volatile Organic Chemicals (VOCs) in drinking water are hazardous to human health. The risk to human health is a function of the exposure route, level of exposure, and length of the exposure. In general, exposure to low levels of certain VOCs over long periods of time may lead to impaired immune system function, may damage the liver or increase the risk of cancer.

VOCs are a class of carbon-containing chemicals and are found in a variety of commercial, industrial, and residential products, including gasoline, solvents, cleaners and degreasers, paints, inks and dyes, and pesticides. VOCs evaporate easily into air at ambient temperatures and when in contact with water may dissolve in and be transported by water. In addition, the dissolved VOCs in water may vaporize out of water into the air.

Due to the inherent chemical and physical characteristics of VOCs, sampling and analysis of VOCs in water must be properly designed to reduce the volatile loss. Loss of the volatile compounds during sampling or analysis will result in false negatives or biased-low results thus leading to wrongful conclusions on the drinking water quality. **This seminar will cover the commonly used method guidance for sampling and analysis for VOCs in Drinking Water. Analysis of VOCs using GCMS techniques with reference to USEPA and APHA methods will be further elaborated.**



The objective of this seminar is to provide some insight into Volatile Organic Compounds (VOCs) Analysis in Drinking Water:

- Overview of VOCs Contamination in Drinking Water
- Physical and Chemical Characteristics of VOCs in Water
- VOCs Sampling in Water – Dos and Don'ts
- Common methods for VOCs Extraction and Analysis
- Quality Assurance and Quality Control in VOCs Analysis
- Analytical Data Review – How to Review the Lab's Data

25th January 2018

8.30am – 12.00pm

Wisma ALS

Venue

ALS Technichem (M) Sdn Bhd
Wisma ALS,
No. 21, Jalan Astaka U8/84,
Section U8, Bukit Jelutong,
Shah Alam



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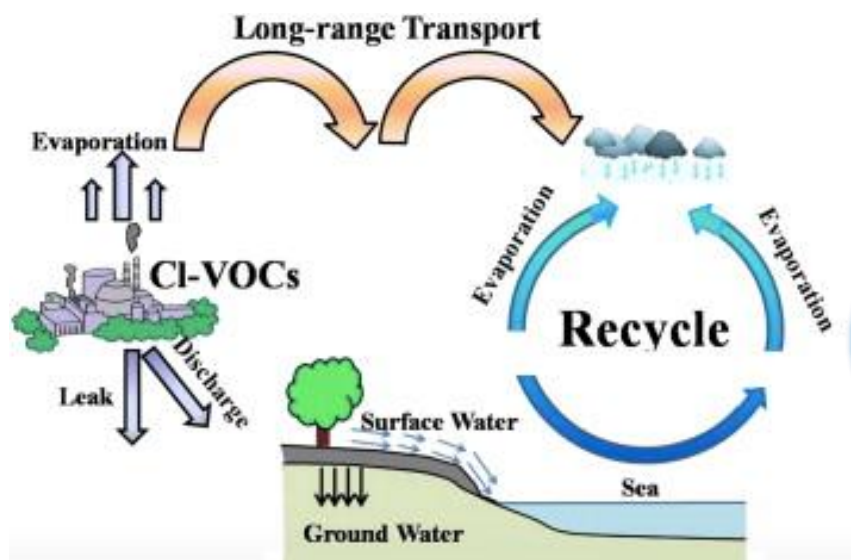


Program

- 08:30 – 09:00 Registration (AM)
- 09:00 – 10:00 Overview on VOCs Contamination in Water
- 10:10 – 11:15 Lab Analysis, QA/QC & Data Review
- 11:15 – 11:40 Refreshment
- 11:40 – 12.00 ALS Lab Tour (PM noon)

ALS Malaysia is part of the ALS global laboratory group and is an ISO 17025 accredited laboratory equipped with state of the art facilities. We provide testing services to various government and private sectors across the world.

Our laboratory’s methods are in accordance with international standards to provide you with confidence to make informed decisions based on reliable data.



Registration

(one per person)

First, Last Name		
Company/Department		
Position		
Address		
City		State
Phone		Mobile
Email		

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