



Low Volume Initiative

Alpha Analytical recognizes the challenges of conducting routine water sampling in a highly competitive market. In an effort to enhance our value added services to our customers and advance our technological offerings Alpha now offers a Low Volume approach to specific extractable analysis. This initiative will reduce sample collection efforts, minimize the use of organic solvents and reduce waste. Alpha took a research approach to evaluating LVI in order to confirm that it works effectively maintaining Alpha's high-quality standards.

Alpha undertook this initiative after careful consideration and a series of side-by-side comparison studies. Alpha's method development process included a pilot with continuous monitoring of customer feedback, operational progress, and data quality. Alpha then conducted a wider scale phased release in our main laboratory facility.

The LVI approach makes use of the same laboratory equipment, and analytical methods which results in comparable data quality and reporting limits for environmental water samples. Alpha's LVI applies to select RCRA SW-846 Methods including:

- Pesticides (8081)
- PCBs (8082)
- Semi-volatile analysis (8270)
- TPH - DRO (8015m)
- 1,4 - Dioxane (8270 SIM - ID)

Advantages of LVI approach include:

- Less sample volume
- Comparable data quality
- Same or better reporting limits
- Fewer & lighter weight coolers
- Less extraction solvent
- Reduced waste generated

Bottle Requirements:



- TPH - DRO by 8015m @ 2 x 500 mL unpreserved amber glass
- Pesticides by 8081 @ 2 x 125 mL unpreserved amber glass
- PCBs by 8082 @ 2 x 125 mL unpreserved amber glass
- SVOC by 8270 full scan and SIM @ 2 x 250 mL unpreserved amber glass
- 1,4 Dioxane by 8270 - SIM - Isotope Dilution @ 2 x 250 mL unpreserved amber glass

Please note: This change in volumes and containers may require sampling plans and QAPPs to be updated

Please contact your Alpha Analytical Project Manager or Account Representative for more information.

Visit us on the web at: www.alphalab.com

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