

***** Technical Fact Sheet *****
Tips for Successful Sample Packaging
And Transport To the Laboratory

Collecting samples is costly. How you handle samples following their collection is critical to ensure the analytical results are technically valid and legally defensible. The temperature and condition of the samples upon receipt at the laboratory is vital information. After the samples are collected, it is important that the samples be handled correctly and in accordance with EPA guidelines. Below are some suggestions for packaging and handling your samples for the best results.

- Place all samples in a cooler. Use plenty of ice or blue ice. The temperature of the cooler should be maintained at 0 - 6°C until it is opened at the laboratory. If you use ice, seal the ice in zip-lock type bags. You can prepare your own ice blocks by filling zip-lock bags with water, sealing, and freezing overnight. It is often a good idea to place the frozen ice bag inside a second zip-lock bag to avoid leaks.
- You need to package the ice and samples in a fashion so that when the ice melts, it doesn't contact the samples. This will prevent sample labels from detaching, potential cross-contamination, and a leaking cooler.
- If required, make sure you are using sample preservatives (for groundwater, wastewater, drinking water, etc.). EMA provides pre-preserved sample containers at no charge to our clients.
- Seal any associated paperwork, such as a chain-of-custody form in a double zip-lock bag. This will keep the chain-of-custody dry, legible, and intact.
- Always place glass containers upright, do not pack tightly, and use plenty of packing material (bubble wrap works best). This helps prevent breakage during cooler transport and handling.
- Collect (2) 40-ml VOA samples for each volatile analysis per location when sampling for volatiles. Place the VOAs in zip-lock type bags. Use one zip-lock per sampling location, (2) VOAs per bag. This helps prevent possible cross-contamination and segregates your samples in case of breakage.
- A number of the tests performed at EMA must be performed within very short holding times from the time of sample collection (Residual Chlorine, pH, and Ortho-phosphate within 15 minutes, and Coliforms within 6 hours!).

The best policy is to deliver the samples to the laboratory as soon as possible following sample collection. This allows adequate time for analysis of your samples. It also prevents expedited turn-around-time charges to maintain holding times.

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EnviroMatrix Analytical, Inc.
4340 Viewridge Avenue, Suite
San Diego, California 92123
Phone: (858) 560-7717
Fax: (858) 560-7763