

## UCMR2 List 1 Instructions – Read Carefully Before Sampling

Note: The EPA requires the laboratory to spike at least one of 20 samples in duplicate. These spiked samples, called Laboratory Fortified Sample Matrix and Duplicate (LFSM/LFSMD) require extra volume. You may receive extra bottles labeled LFSM/LFSMD for one or more of your sites.

- **EPA 529 Sampling Instructions**

**BOTTLES** — Enclosed are 2 - 1 Liter amber bottles labeled 529 (4 bottles when LFSM/LFSMD are needed). Bottles are pre-preserved with 500mg copper sulfate and 5g of Tris buffer.

**SAMPLE COLLECTION** — When sampling from a water tap, open the tap and allow the system to flush until the water temperature has stabilized (usually about 2 min). Adjust the flow to about 500 mL/min and collect samples from the flowing stream. The sample should nearly fill the bottle, but does not need to be headspace free. A powder preservative has been added to the bottle prior to sampling. Be careful not to rinse it out during sample collection. Keep samples sealed from collection time until analysis. When sampling from an open body of water, fill the sample container with water from a representative area. Sampling equipment, including automatic samplers, must be free of plastic or rubber tubing, gaskets, and other parts that may leach interfering analytes into the water sample.

### IMPORTANT !!!

**SAMPLE TRANSPORT AND STORAGE** - Pre-chill all samples either in a refrigerator overnight, or in a cooler packed with ice for 2 hours. After chilling, transfer the bottles to the styrofoam shipping packs, place in the provided cooler, fill with crushed ice, and return to the laboratory via an overnight carrier. Following this procedure will ensure that the samples are received at the proper temperature (<10C). **We will not analyze any samples that arrive at the lab >10C, and further bottles and shipping costs may be added to the analysis costs.**

- **EPA 527 Sampling Instructions**

**BOTTLES** — Enclosed are 2 - 1 Liter amber bottles labeled 527 (4 bottles when LFSM/LFSMD are needed). Bottles are pre-preserved with 100mg ascorbic acid, 350mg EDTA, and 9.4g potassium dihydrogen citrate.

**SAMPLE COLLECTION** — When sampling from a water tap, open the tap and allow the system to flush until the water temperature has stabilized (usually about 2 min). Adjust the flow to about 500 mL/min and collect samples from the flowing stream. The sample should nearly fill the bottle, but does not need to be headspace free. A powder preservative has been added to the bottle prior to sampling. Be careful not to rinse it out during sample collection. Keep samples sealed from collection time until analysis. When sampling from an open body of water, fill the sample container with water from a representative area. Sampling equipment, including automatic samplers, must be free of plastic or rubber tubing, gaskets, and other parts that may leach interfering analytes into the water sample.

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