

## UCMR2 List 2 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 525.2 Sampling Instructions**

**BOTTLES** — Enclosed are 2 1Liter amber bottles labeled 525.2 (4 bottles when LFSM/LFSMD are needed). Bottles are pre-preserved with 45mg sodium thiosulfate and also come with a small vial of 1:1 hydrochloric acid to add during sampling.

**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. Fill the bottle to about half, and then pour in the small vial of 1:1 hydrochloric acid. Continue filling until the bottle is nearly full and cap. 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.

**Hydrochloric acid is corrosive!!** -- If you contact any of this solution, rinse immediately with water. Dispose the empty vial after rinsing it with water.

### IMPORTANT !!!

**SAMPLE TRANSPORT AND STORAGE** - Pre-chill all samples either in a refrigerator overnight, or in a cooler packed with ice for 2 hours. 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 521 Sampling Instructions**

**BOTTLES** — Enclosed are 2 500ml amber bottles labeled 521 (4 bottles when LFSM/LFSMD are needed). Bottles are pre-preserved with 45mg sodium thiosulfate.

**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. The dechlorinating agent has been added to the bottle prior to sampling. Be careful to not 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. 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 535 Sampling Instructions**

**BOTTLES** — Enclosed are 2 500ml amber bottles labeled 535. (Still only 2 bottles when LFSM/LFSMD are needed). Bottles are pre-preserved with 55mg ammonium chloride.

**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. The dechlorination agent 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.

**SAMPLE DECHLORINATION** -- All samples must be dechlorinated at the time of collection. 25-30 mg Ammonium Chloride is contained in each sampling bottle. Simply fill the bottle from the source, and the solid will dissolve.

## **IMPORTANT !!!**

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