



Synthetic Organic Compounds (SOC) Sampling Instructions

SOC Sampling Kit Includes:

- One Box/Cooler
- Plastic bag for ice, chain of custody form, sampling instructions
- 2 X 1 L amber glass bottles pre-preserved with sodium sulfite (Na₂SO₃) and labeled method 525
 - 2 X 7 mL clear glass vials of hydrochloric acid (HCl)
- 3 X 60 mL amber glass vials pre-preserved with sodium sulfite (Na₂SO₃) and labeled method 515
- 2 X 60 mL amber glass vials pre-preserved with sodium thiosulfate (Na₂S₂O₃) and MCA and labeled method 531
- 4 X 40 mL clear glass vials pre-preserved with sodium thiosulfate (Na₂S₂O₃) and labeled method 504 and 505
- 1 X 40 mL clear glass vial pre-preserved with sodium thiosulfate (Na₂S₂O₃) and labeled method 504 TRIP BLANK
 - **Do not open this vial as it is already filled with deionized water**
- 1 X 250 mL brown plastic bottle pre-preserved with sodium thiosulfate (Na₂S₂O₃) and labeled method 549
 - 1 X 7 mL clear glass vial of sulfuric acid (H₂SO₄)
- 1 X 250 mL amber glass bottle pre-preserved with sodium thiosulfate (Na₂S₂O₃) and labeled method 548
- 1 X 40 mL clear glass vial pre-preserved with sodium thiosulfate (Na₂S₂O₃) and labeled method 547

SOC Sampling Kit (525, 515, 531, 504)

Subcontracted (549, 548, 547)



Collecting the Sample:

1. Make sure all contents of the kit are present and that none of the bottles are broken.
2. Fill each **bottle** to just below the threads without overflowing and causing the preservative to be lost.
 - a. Empty 1 X 7 mL clear glass vial of hydrochloric acid (HCl) to each 1 L amber glass bottle labeled method 525
 - b. Empty 1 X 7 mL clear glass vial of sulfuric acid (H₂SO₄) to the 250 mL brown plastic bottle labeled method 549
3. Fill each **vial** until there is a reverse meniscus, or dome of water, on the very top of the vial without overflowing.
 - a. After the vials have been filled and the caps secured, turn the vial upside down and gently tap the vial to check for air bubbles. If there are any air bubbles, open the vial and add a few additional drops of sample water.
4. Fill out the chain of custody form.
5. Fill the plastic bag for ice with ice cubes and place over the packed bottles and vials in the cooler.
 - a. Samples must be preserved on ice and kept at a temperature of approximately 4° Celsius.
6. Please ship or deliver the SOC sample bottles and vials on Monday through Thursday allowing Suburban Laboratories to subcontract the bottles and vial for methods 549, 548, and 547 within the method holding time of 7 days.
7. Please collect and deliver or ship the SOC sample bottles and vials on the same day of collection.
 - a. If you ship the SOC sample bottles, please ship for overnight delivery.

If you have any questions regarding sampling, please call Suburban Laboratories at (708) 544-3260. If you have any questions regarding synthetic organic compounds in drinking water, including the interpretations of results and what to do if a result is detected; please call the United States Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.

REFERENCE: (IEPA/PWS/89-090abc) Sample Collector's Handbook, Illinois Environmental Protection Agency Division of Public Water Supplies, 4/89

