

Changes to CLP Organic Analysis under Statement of Work SOM01.1

This fact sheet is being used to introduce the new statement of work (SOW) SOM01.1 for informational purposes only. Effective June 1, 2006, all organic analysis through CLP will be analyzed under SOM01.1.

SOM01.1 defines methods for the isolation, detection, and quantitative measurement of trace volatile, low/medium volatile, semivolatiles, pesticide, and Aroclor target compounds in water and soil/sediment environmental samples (a combination of two previous Statements of Work). Specific information can be obtained from the EPA web site at www.epa.gov/superfund/programs/clp/som1.htm.

The **Target Compound List (TCL)** has been modified under SOM01.1. A complete list is attached. The following compounds were added to the list:

Volatiles: 1,4-dioxane, bromochloromethane, 1,2,3-trichlorobenzene, xylenes are separated as o-xylene and m,p-xylene

Semivolatiles: 1,2,4,5-tetrachlorobenzene and 2,3,4,5-tetrachlorophenol

Aroclors: Aroclor-1262 and Aroclor-1268

Under SOM01.1, **volatile analysis (VOA)** is now defined as five levels:

1. **Trace water by SIM** - includes select ion monitoring (SIM) for lower quantitation levels for the following compounds:

1,4-dioxane	2 ug/L
1,2-dibromoethane	0.05 ug/L
1,2-dibromo-3-chloropropane	0.05 ug/L

2. **Trace Water** - includes complete target compounds list (TCL) with 1,4-dioxane using the low concentration method.

TCL	0.5 ug/L
Ketones	5 ug/L
1,4-Dioxane	20 ug/L

3. **Low Water** - includes complete target compounds list (TCL) with 1,4-dioxane

TCL	5 ug/L
Ketones	10 ug/L
1,4-dioxane	100 ug/L

4. **Low Soil** - same list and quantitation levels (ug/Kg) as Low Water

5. **Medium Soil** - includes complete target compounds list with 1,4-dioxane

TCL	250 ug/Kg
Ketones	500 ug/Kg
1,4-dioxane	5000 ug/Kg

Quality Control Samples

The new organic SOW SOM01.1 incorporates changes to some quality control samples. Deuterated monitoring compounds (DMC) are used for the VOC and SVOC fractions and replace the matrix spike/matrix spike duplicate (MS/MSD) analyses. The DMCs are used to measure matrix effects on each sample. DMCs are **not** available for pesticides and Aroclor fractions so the use of MS/MSDs are still required for those two fractions.

1,4 - Dioxane results should be considered advisory

SOM01.1 incorporates methodology for the trace analysis of 1,4-dioxane that was previously only available with the use of a flexclause. Using the various levels offered for the VOA analysis under SOM01.1, the compound 1,4-dioxane can be detected and reported in a range of 2 ug/L to 5000 ug/Kg. The poor purging efficiency of this compound has led to inconsistent data of sufficiently known quality. Therefore, results for 1,4-dioxane using this method should be considered advisory. Data being generated under this new contract is being evaluated and assessed to determine the best approach. A **modified analysis** (i.e., flexclause) is also available, which provides 1,4-dioxane as an analyte using the semivolatile methodology. By using this technique the quantitation is 2 ug/L. Studies are on-going to determine the best approach for 1,4-dioxane. If this approach is used additional sampling requirements are necessary.

Sampling Requirements Modified

Due to the variety of levels and the elimination of MS/MSD samples for VOA and SVOC fractions some changes have been made to the sampling requirements. For more details refer to the CLP web site, www.epa.gov/superfund/programs/clp/som1.htm. Specific questions should be directed to the Client Services Team of the Analytical Services and Quality Assurance Branch.

Electronic Deliverables (SEDD)

The Staged Electronic Data Deliverable (SEDD) format for electronic deliverables is now required under SOM01.1.
