

What is SEDD?

The Staged Electronic Data Deliverable (SEDD) is an inter-agency effort to create a generic format for electronic delivery of analytical data for environmental programs. SEDD is a hierarchical file created by a Laboratory Information Management System (database). A SEDD file contains information regarding the chemical analysis of sample(s). Information (analytical results) from a SEDD file can be reviewed and then input into customer databases using parsing routines. Parsing routines need to be written ONLY once for each database type. The data deliverable generated by SEDD is an industry-standard Extensible Markup Language (XML) file.

The SEDD Stages

SEDD has four stages of data elements based on the following criteria:

Stage 1 contains the minimum number of analytical data elements to convey results ONLY data to the end user (and is equivalent to the data on the current CLP Form I).

Stages 2a and 2b build on Stage 1. Stages 2a and 2b add method and instrument Quality Control data, respectively.

Stage 3 builds on Stages 1 and 2, and adds additional measurement data to allow for independent recalculation of reported results. Stage 3 will be similar in detail to the current CLP electronic deliverable.

Stage 4 builds on Stages 1, 2, and 3 and adds the raw instrument data files. This Stage is currently under development by EPA ASB.

Pilots & Inter-Agency Efforts

EPA ASB is working with offices from the United States Army Corps of Engineers (USACE) to develop contract requirements for delivery of electronic files based on the SEDD Specification. Joint efforts are also underway to develop tools for reviewing SEDD deliverables utilizing existing data review software. In addition, ASB is working with the EPA National Air & Radiation Laboratory, the US Army, and Department of Energy to develop SEDD for radiation chemistry methods.

The DataChem Connection

DataChem has been awarded one of the first Organic CLP contracts that requires Stage 3 SEDD as its electronic data deliverable. As Stage 4 comes on line, DataChem will be in the forefront encompassing all SEDD contract requirements to serve not only government agencies but commercial clients as well.

**For a complete list of our services,
visit us at www.datachem.com**

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SEDD Deliverable

DataChem Laboratories, Inc. was previously the Analytical Chemistry Department of the Utah Biomedical Test Laboratory (UBTL). UBTL was founded in 1971 as part of the University of Utah Research Institute to perform artificial heart research. When Federal funding for heart research ended in 1974, UBTL established an analytical chemistry laboratory. In 1983 UBTL became a privately held company, and in 1986 incorporated its Analytical Chemistry Department into a new entity—DataChem Laboratories, Inc.

DataChem was one of the first private laboratories in the U. S. to offer industrial hygiene testing utilizing NIOSH and OSHA methods, and has served NIOSH as a contract laboratory continuously since 1974. In the early 1980's, we entered the expanding environmental analytical chemistry arena to provide support for the growing Environmental Protection Agency (EPA), Department of Defense (DOD), and private industry regulatory compliance needs.

DataChem Laboratories, Inc. is a premier provider of industrial hygiene, environmental, radiochemistry, and mycology/microbiological analytical testing services with laboratories located throughout the United States. DataChem has earned a nationwide reputation for providing high quality and legally defensible data, which aids DataChem's government and private clients in efforts to promote human health and preserve the environment.

Environmental Project Experience

DataChem is a NELAC accredited laboratory providing environmental analytical services to government and private clientele such as the EPA, Departments of Defense and Energy, and numerous environmental engineering firms. In supporting environmental investigation and monitoring programs, DataChem performs a full range of organic and inorganic analyses using SW-846 and EPA methodologies on a wide range of sample matrices including groundwater, surface water, wastewater, soil, sludge, and hazardous waste.

Industrial Hygiene Project Experience

DataChem is one of the original laboratories accredited by the American Industrial Hygiene Association (AIHA) and has been the National Institute for Occupational Safety and Health (NIOSH) contract laboratory since 1974. With that experience, DataChem offers a comprehensive array of both NIOSH and OSHA analytical methods, as well as EPA, ASTM, AOAC, and innovative methods developed by DataChem that may be adapted to situation-specific requirements in support of industrial hygiene programs, indoor air quality assessment, odor detection, and other types of air testing.

Mycology Project Experience

In response to the increase in public awareness of the hazards to human health from mold and other microbiological organisms, DataChem provides analytical services to assist with the detection and removal efforts of site investigators. DataChem is EMPAT accredited by the American Industrial Health Association (AIHA) and offers mycological, endotoxin, and bacterial analyses, including microbial culture techniques, spectrophotometry, microscopy, and GC/MS methodology, on a variety of sample matrices.

Radiochemistry Project Experience

Paragon Analytics, a division of DataChem, has been a leading provider of radiochemistry, mixed waste, and environmental analytical services for nearly 15 years and is licensed by the State of Colorado to receive and handle radioactively contaminated samples. Paragon has supported numerous Department of Energy decommissioning, remediation, and monitoring projects as well as analyzing potentially hazardous and/or radioactive samples from groundwater monitoring, landfill evaluation, and RCRA closures.

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