

U.S. ENVIRONMENTAL PROTECTION AGENCY
CLP Sample Management Office
300 North Lee Street, Suite 200
P.O. Box 818
Alexandria, Virginia 22314
Phone: 703/557-2490 - FTS/557-2490

SAS No.

1149

SPECIAL ANALYTICAL SERVICES

Client Request

Regional Transmittal

A. EPA Region/Client: Region II/CDM FPC - TES V
B. RSCC Representative: Kathy Kinsella
C. Telephone Number: (908) 549-3112
D. Date of Request: August 24, 1992
E. Site Name/ SS ID: Tutu Wellfield
St. Thomas, U.S. Virgin Islands
Site No. 2PID
Cerclis ID# VID982272569

Please provide below a description of your request for Special Analytical Services under the Contract Laboratory Program. In order to most efficiently obtain laboratory capability for your request, please address the following considerations, if applicable. Incomplete or erroneous information may result in a delay in the processing of your request. Please continue response on additional sheets, or attach supplementary information as needed.

1. General description of analytical services requested:

Analysis of water samples samples for methyl tertiary butyl ether (MTBE), n-propylbenzene and 1,2-dibromoethane.

2. Definition and number of work units involved (specify whether whole samples or fractions; Whether organics or inorganics; whether aqueous or soil and sediments and whether low, medium or high concentration):

Six (6) low-concentration low concentration water (including 1 fieldblank and 1 trip blank) samples for methyl tertiary butyl ether (MTBE), n-propylbenzene and 1,2-dibromoethane analysis.

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3. **Purpose of analysis (specify whether Superfund enforcement or remedial action, RCRA, NPDES, etc.):**

TES V Enforcement, RI/FS Compliance

4. **Estimated Date(s) of collection:**

The samples are scheduled to be collected during the week of September 28, 1992.

5. **Estimated date(s) and method of shipment:**

Samples will be shipped the day they are collected via Federal Express

All samples must be refrigerated at 4 degrees Celcius. The laboratory must have personnel available on Saturdays(except legal holidays) to receive, log in and refrigerate samples. The laboratory will be informed by 3 pm on Friday, if Saturday delivery is to be expected.

The laboratory shall have all applicable USDA permits including the USDA Compliance Agreement and the Application and Permit to Move soil to allow entry of soil samples into the U.S. from the U.S. VIRGIN ISLANDS. These permits shall be signed by the appropriate regulatory officials and legible copies of these documents must be provided to CDMFPC prior to the intial sampling date.

6. **Number of days analysis and data required after laboratory receipt of samples:**

All samples must be analyzed within ten (10) days of verified time of sample receipt. A complete data package containing all the sample delivery groups(SDG's) associated with the case must be submitted in its entirety within thirty five(35) days of verified time of sample receipt of the last sample in the case.

7. **Analytical protocol required (attached copy if other than a protocol currently used in this program):**

All samples must be prepared and analyzed per the protocols described in Section D, "Analytical Methods for Volatiles" of the current revision of the CLP RAS Statement of Work for Organics analysis OLM01.8, Rev.3/90.

Any modifications of the specified procedures must be approved by SMO, prior to sample analysis.

8. **Special Technical instructions (if outside protocol requirements, specify compound names, CAS numbers, detection limits, etc.):**

The maximum number of samples in a sample delivery group is 20. All calibration, QA/QC procedures, and analytical procedures as specified in the current revision of the CLP RAS Statement of Work for Organics Analysis OLM01.8, Rev 3/90 must be performed.

In addition to this the laboratory must:

1. Perform Method detection limit studies for the analytes of interest as described in 40 CFR Pt 136, App.B(attached).

2. The analytes of interest must be included in all calibration standards.

9. **Analytical results required (if known, specify format for data sheets, QA/QC reports, Chain-Of-Custody documentation, etc.). If not completed, format of results will be left to program discretion.**

Submit all documentation including data sheets with data results, laboratory duplicate and method blank results, QA/QC information, raw data, calibration curves, SAS packing lists, chain-of-custody forms, SAS client request form, copy of airbill(s), sample tags, and all CLP deliverables required for the VOA fraction.

The laboratory must submit all supporting documentation to demonstrate the performance of the MDL studies.

The complete EPA sample numbers as they appear on chain-of-custody and CLP paperwork, must be used in the raw data and on all data reporting forms. The entire data package must be paginated.

Results are to be reported on CLP data forms modified to include the analytes requested in Section 2 of this SAS Request. The laboratory must submit a lab generated mass spectrum for all compounds detected above and below the detection limit stated in the method.

A written case narrative describing problems encountered in the receipt of samples or during preparation and analysis and the corrective actions taken must be provided(including telephone record logs, etc.). The case narrative should explain any deviations and their effect on the final results.

The data package must be equivalent to the CLP RAS data package as specified in the Statement of Work for Organics analysis OLM01.8, Rev 3/90.

10. Other (use additional sheets or attach supplementary information, as needed):

The laboratory must provide a detailed example calculation that clearly demonstrates the manner in which the initial and final result was derived. Where applicable, each component of the calculation must be explained (e.g., if the calculation includes a dilution factor, it must be clear where, why, and how each dilution occurred). The laboratory must supply any and all information required to produce during independent data review, all results reported by the laboratory. Submit sample preparation logs, the concentrations and amounts of standards added for all QC analyses.

The laboratory's copy of the SAS request, along with documentation of any communications with SMO that resulted in the amendment of the SAS request must be included in the package.

11. Name of sampling/shipping contact: Sally Odland or Vasu Desikan

Phone: (212) 393-9634 or (908)-757-9500

12. Data Requirements

<u>Parameter</u>	<u>Detection Limit</u>	<u>Precision Desired +/- % or conc.</u>
MTBE	10 ug/L*	+/- 25%
n-propylbenzene	10 ug/L*	+/- 25%
1,2-dibromoethane	10 ug/L*	+/- 25%

* Although these detection limits have been specified, it is recognized that the laboratory will perform Method Detection Limit studies as specified in Section 8 of this SAS request.

13. QC Requirements

All QC requirements are per the current revision of the CLP RAS SOW for Organics OLM01.8, Rev 3/90.

MTBE, n-propylbenzene, and 1,2-dibromoethane standards must be added to all calibration standards. System Monitoring Compounds (SMCs) should be added to all samples, blanks, matrix spike, and matrix spike duplicate prior to purging. The SMCs are used to evaluate the purge efficiency.

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14. Action required if limits are exceeded

Follow all actions specified in the current revision of the CLP RAS Statement of Work for Organics analysis OLM01.8, Rev 3/90.

Failure to obtain method blank values less than the detection limit requires that all samples prepared with that method blank be re-prepared and re-analyzed. All blank data are to be reported and the necessity for re-analysis must be included in the narrative summary. If the duplicate results exceed control limits, re-analyze the sample and the duplicate. If re-analysis fails to produce results in control, contact SMO.

Please return this request to the Sample Management Office as soon as possible to expedite processing of your request for special analytical services. Should you have any questions or need any assistance, please contact your Regional representative at the Sample Management Office.