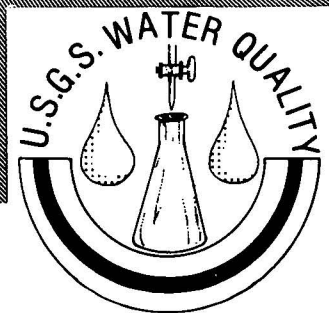
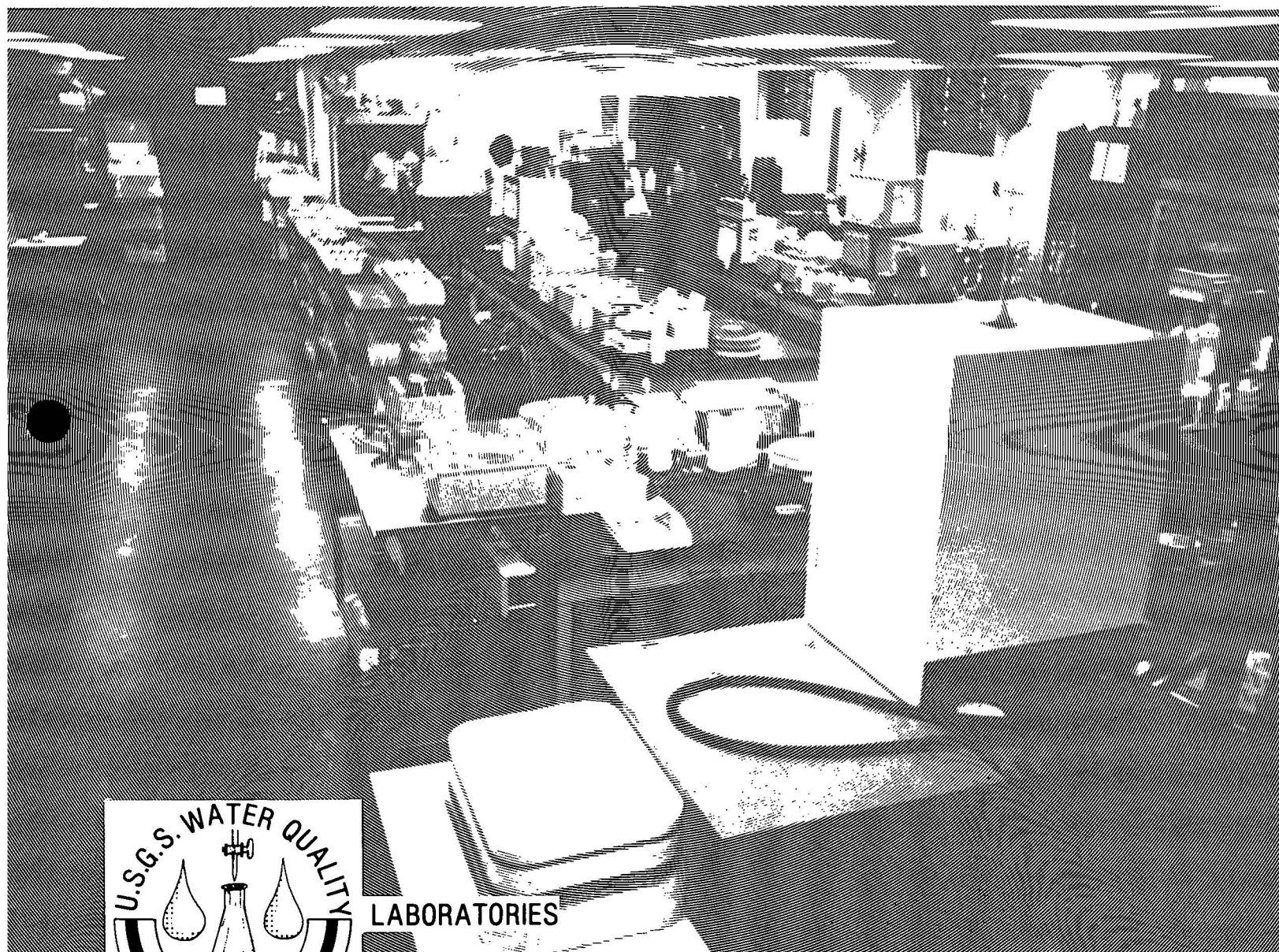


# 1980 WATER QUALITY LABORATORY SERVICES CATALOG



LABORATORIES

**U.S. GEOLOGICAL SURVEY**  
**Open-File Report 79-697**

**UNIVERSITY OF UTAH**  
**RESEARCH INSTITUTE**  
**EARTH SCIENCE LAB.**



1980  
WATER QUALITY LABORATORY  
SERVICES CATALOG

Open-file report 79-697.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

1980  
WATER QUALITY LABORATORY  
SERVICES CATALOG

L. C. Friedman and W. A. Beetem, editors

Open-file report 79-697

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Reston, Virginia

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

---

May be obtained from the following offices:

Quality of Water Branch  
U. S. Geological Survey  
Room 5A416, National Center  
12201 Sunrise Valley Drive  
Reston, Virginia 22092

Denver Central Laboratory  
U. S. Geological Survey, WRD  
MS-407, Box 25046  
Denver Federal Center  
Lakewood, Colorado 80225

Atlanta Central Laboratory  
U. S. Geological Survey, WRD  
6481 Peachtree Industrial Blvd.  
Suite H  
Doraville, Georgia 30340

## PREFACE

This catalog provides information on determinations made by water-quality laboratories for programs of the Geological Survey. These services are supplied to district and project personnel of the Water-Resources Division, Geological Survey, and consequently the costs indicated are costs to the project rather than program costs. The catalog has been prepared to provide these laboratory users with information on cost, precision, sample volume, and treatment required for determinations performed by water quality laboratories. The catalog also details combinations of parameters that can be used in requesting analyses through the Central Laboratories.

The applicable ranges of concentrations for the methods used and the majority of the precision data for inorganic determinations have been taken from Techniques of Water-Resources Investigations of the Geological Survey, Book 5, Chapter A1 (Skougstad, M. W. and others) and from Techniques of Water-Resources Investigations of the Geological Survey, Book 5, Chapter A3 (Wershaw, R. L., and others.)

This catalog supersedes U. S. Geological Survey Open-File Report 79-842, "1979 Water Quality Laboratory Services Catalog" September 11, 1979.

## CONTRIBUTORS

### INTRODUCTION

W. A. Beetem  
L. C. Friedman

### INORGANIC TABLES

W. A. Beetem  
D. E. Costello  
S. S. Duncan  
L. C. Friedman  
F. E. King  
A. J. Horowitz  
L. E. Lowe  
V. C. Marti  
H. J. Miller  
E. L. Skinner  
C. A. Watterson  
A. I. Yang

### CHEMICAL ANALYSES AND PHYSICAL PROPERTIES OF SEDIMENTS

W. A. Beetem  
L. C. Friedman

### ORGANIC TABLES

W. A. Beetem  
D. E. Costello  
L. C. Friedman  
Roland Grabbe  
L. E. Lowe  
D. B. Manigold

### BIOLOGICAL TABLES

L. C. Friedman  
D. F. Leifeste  
R. G. Lipscomb

Also gratefully acknowledged is the time and effort spent by Eileen Garten and Donna Costello in the typing and preparation of this catalog.

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## 1980 WATER QUALITY LABORATORY SERVICES CATALOG

### INTRODUCTION

The information in this catalog is provided to assist Water Resources Division personnel in the selection of analytical determinations, estimation of cost, calculation of sample volume requirements, identification of the necessary sample treatment, and selection of laboratory precision for samples to be submitted to Central Laboratories. The catalog contains 18 tables. Tables 1-4 are arranged alphabetically by constituent or schedule, and where available, include parameter name, unit of measurement, lab code or schedule code, applicable range and precision of the method, parameter code, method number and name, and a page index. Tables 1 and 2 list inorganic and organic constituents determined in water samples, table 3 provides information on determinations of chemical and physical properties of sediments, and table 4 lists biological determinations. Page references in these first four tables refer to the tables of determinations (tables 5 through 8) or to the tables of calculations (tables 9 through 12). Constituents that are found in more than one category are cross-referenced (e.g. nitrogen, organic is found in the inorganic table and is cross indexed in the organic table).

Tables 13 through 16 list sample containers, sample preservations, and sample designations for each determination. Table 17 lists materials (bottles, preservatives, standardized solutions, and so forth) which may be purchased from the Central Laboratories. Table 18 lists agency codes which can be used to indicate the agency collecting or analyzing samples. Although the catalog is being released now, its effective date is September 11, 1979 to September 10, 1980. The early release is for program planning only.

### DETERMINATIONS

Tables 5 through 8 contain the inorganic determinations and schedules, the organic determinations and schedules, the chemical analyses and physical properties for sediments and the biological determinations and schedules. The cost per determination or schedule, the volume or weight of sample required and the sample designation to be used on the sample container are also included in these tables.

The "inorganic determinations" are further subdivided into major ions, major nutrients, trace constituents, physical properties of water, radiochemical measurements, and isotope ratios. The "organic determinations" are subdivided into gross measures, carbamate insecticides, chlorinated phenoxy acid herbicides, industrial chemicals, munition products, organochlorine insecticides, organophosphorus

insecticides, herbicides, and volatile organics. The "chemical analyses and physical properties of sediment" table is subdivided into inorganic chemical analyses, organic chemical analyses, sample preparation, and physical properties of sediments. The "biological determinations" are subdivided into gross measures, benthic invertebrates, periphyton, phytoplankton, and zooplankton.

The small number of schedules listed in this catalog is in marked contrast to the 1979 Water Quality Laboratory Services catalog. Schedules, listed in the tables of determinations (5 through 8) were created on the basis of analytical efficiency and are meant to be used as "building blocks" in creating more complicated district or user schedules. In order to benefit from the price reduction which is inherent in all of the listed schedules, districts should use the schedules rather than just listing individual parameters when requesting creation of district schedules. A few determinations can be requested only by using a schedule; in such cases the determinations are associated only with a SH (schedule) number and not with a LC (lab code) number. The laboratory will assume the responsibility for meeting any constraint specified in the schedule (e.g., detection level) and will select appropriate methodology.

Further explanation of use of the "minischedules" or "building blocks" listed here for creating district schedules will be given in a planned WRD memorandum. The memorandum will describe procedures to be used in creating or recreating schedules annually during the period July 15-September 1. The memorandum is planned for issuance about June 15, 1979.

Calculated parameters will be automatically reported on the Central Laboratory analytical sheet and stored in WATSTORE if all determinations necessary for these calculations are requested. Calculated parameters should not be separately requested.

Not all determinations listed can be offered without limits. The laboratories have manpower constraints and are programmed on the basis of national priorities. However, it is felt that the laboratories' special capabilities should be known so that when projects need these services, they may be requested for consideration. Many "custom" analyses are indicated in the tables of determinations and schedules; others will be announced in the Central Laboratories Newsletters. If such analyses are desired, their availability (which depends on time, manpower, etc.) must be discussed with the lab chief prior to submission of the samples. The cost of such custom analyses may vary with the number of samples to be analyzed.

The development or addition of new custom analyses may be requested of the Analytical Services Coordinator through the Laboratory Chiefs. After the high priority of the work has been established through submission of a work plan, the methodology has been agreed upon, and it has been established

that the work can be done, costs will be assigned depending upon estimated development or setup time of the method, difficulty of analysis, manpower required, and number of samples to be done. Where requests exceed the laboratories' capabilities, priorities will be worked out with the appropriate Regional Hydrologist.

"Limited" analyses (analyses which can be routinely performed by the Central Laboratories but which have manpower, time, space, or equipment constraints) are also indicated in the tables. Both "limited" and "custom" analyses may entail abnormal turnaround times. Nomenclature consistent with WATSTORE is incorporated in this catalog. Provision is made also for parameter codes consistent with EPA (STORET codes), the listing of multiple detection levels, and the listing of more extensive groupings of parameters as schedules. In cases where more than one analytical range has been listed for a single element or compound, different lab codes have been assigned. Currently, only one parameter code can be used when the laboratories enter data for these several lab codes into WATSTORE, but eventually the multiple levels of precision represented by the several lab codes will be stored and indicated in the output from WATSTORE.

In the past, charges associated with the need to confirm some organic analyses have been averaged over all organic analyses. Now, organic determinations and schedules will not automatically include confirmation. Confirmation must be requested (at either of two levels) by using one of the designated schedule numbers. Costs associated with such confirmation will be charged only if the confirmations prove necessary.

Differences between determinations in sample container and preservation requirements have led to the use of a variety of bottle types. The Central Laboratories will not perform a requested analysis if the correct bottle and preservation are not used for the sample; therefore, it is highly recommended that users familiarize themselves with the sample designation symbols and the related treatment and/or preservation requirements. Particular care should be given to determining the number of bottles required; in many cases, more than one bottle of a particular type will be required. The Central Laboratories will control the quality of materials listed in table 17; unless the district conducts a similar quality control program, listed materials should be purchased only from the Central Laboratories.

#### Methods used to arrive at precision values

The precision figures indicated in the tables of determinations were computed as the relative deviation (coefficient of variation of a set of determinations). Each number is associated with the low, medium, or high concentration area of the analytical range. Not all of the precision values have

the same degree of reliability because data of different types were used. Precision values based on multilaboratory data are considered more reliable than values based on single-laboratory, multiple-operator data; similarly values based on multiple-operator data are considered more reliable than values based on single operator data. Furthermore, precision values based on analyses of natural waters are considered more reliable than values based on analyses of solutions prepared by adding the constituent to be determined to distilled water.

Precision values tabulated in this catalog are intended as a guide only. In order to know what type of data they were based on, the listed references should be consulted. In order to make it possible to compare one value in the table with another, single-operator precision values were multiplied by an arbitrary factor of three, thereby making them roughly equivalent to multi-operator precision data and avoiding giving the requestor a false sense of confidence in the precision of the data they receive.

Total, total recoverable, and bottom material precision data are generally estimates based on dissolved, multilab precision data. Some of the precision data listed are based on precision data from similar methods. (For example, data are available for a manual procedure, but not for the corresponding automated procedure.) In some cases the values are completely unsupported estimates found in the literature (for example "although no data are available, the precision should be . . .") and in some cases they are estimates of precision based on analyst's knowledge of the method.

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### Glossary

**Cost--**Water quality laboratory analytical cost, without Washington Office Technical Service Charge (WOTSC) to WRD users. A cost is associated with each parameter and/or method. In many cases, particularly when dealing with organic determinations, a dozen parameters may cost only a fraction more than the cost of a single parameter.

**Custom analysis--**An analysis of a constituent or by a method not routinely performed by the central laboratories. If an analytical method has been developed, the constituent or nonroutine method is tabulated; others will be announced by the Central Laboratories Newsletters as they are developed. Requests for this type of custom service should be submitted in writing to the lab chief; the technical approach and analytical cost must be accepted in writing by both district and laboratory. The laboratory will select the methodology to be used. A new custom analysis may involve a method already being researched or may necessitate extensive analytical development and/or purchase of new equipment. These factors, plus the difficulty of analysis, manpower requirements and the number of samples to be analyzed will be used to determine analytical cost.

**Dissolved--**That material which passes through a 0.45-um membrane filter. This is a convenient operational definition used by Federal Agencies that are collecting water data. Determinations of "dissolved" constituents are made on measured portions of the filtrate. It is recognized that some types of water samples will contain colloidal material that has passed through the 0.45-um filter. Determinations of "dissolved" constituents may be made on portions of an unfiltered sample, if it is known that the presence of suspended material has no effect on the determination.

**Lab code--**A four digit code, always preceded by the letters "LC", which uniquely represents the analytical method for the constituent measured.

Limited analysis--An analysis for which the ability of the laboratories to respond is severely constrained by manpower, time, space, or instruments. Because the laboratories can generally analyze only a certain number of these samples per unit time, annual estimates (with quarterly updates) will be required.

Method number--An alpha-numeric combination which is unique to each method. The letter represents the type of parameter (B = Biological, I = Inorganic, O = Organic, P = Physical, R = Radiochemical) and the last two digits of the number represent the year of last revision.

Phase/treatment--See following page.

Precision--The degree of agreement of repeated measurements by a specified method or procedure, here expressed as the relative deviation (coefficient of variation) at the concentration level indicated. It is calculated in percent and is equal to the standard deviation times 100 divided by the mean of a set of analytical values. Precision values listed are for low, medium, and high values in the method ranges and may be considered as showing the percent of random error of the method (although not the error due to method bias) at the designated points in the range.

In general, the detection limit has not been used in computing the low-end precision value because of possible distortion. Since instrument noise is often 2 to 3 times the detection limit, low end precision values were usually computed at 5 times the detection limit.

Range--The minimum and maximum values of the method with no dilution, expressed in units consistent with those reported for the parameter. Bottom material ranges were ordinarily calculated by dividing the minimum concentration allowable in the sample extract (computed from the comparable water method) by the maximum weight of sample likely to be used, and by dividing the maximum concentration allowable by the minimum weight likely.

Recoverable from bottom material--The amount of a given constituent that is in solution after a bottom material sample has been digested by a method (usually with an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment employed, and there is reason to believe that the determination represents less than the total amount (or less than 95 percent) of the constituent sought in the sample. To ensure comparability of analytical data, equivalent digestion procedures must be used by all laboratories performing such analyses.

Sample designation--Symbols which specify the type of container and pretreatment which the sample must receive. These symbols are required to be marked on the sample container.

Phase/treatment--(Continued)

Phase/treatment is defined as shown below:

Phase Treatment	Dissolved (filtration through a 0.45um filter or its equivalent)	Suspended	Dissolved and suspended	Bottom material
Complete extraction from solid phase (actual or calculated on basis of extraction efficiency)	---	Suspended, total	Total	Total in bottom material
Extraction from solid phase less than complete (non-reproducible)	---	Suspended, recoverable	Total recoverable	Recoverable from bottom material
filtered (0.45 um)	Dissolved	---	---	---

Schedule number--A number preceded by the letters "SH" which represents a group of determinations. The laboratory will assume the responsibility for meeting any constraint specified in the schedule (e.g., detection level) and will select appropriate methodology

Standard deviation--A number which represents the scatter of a series of results around their average.

Suspended, recoverable--The amount of a given constituent that is in solution after the material which is retained on an 0.45-um membrane filter has been digested by a method (usually with an acid or mixture of acids) that results in dissolution of readily soluble substances. More commonly, the difference of determinations of total recoverable and dissolved concentrations of the constituent.

Suspended, total--That material which is retained by an 0.45-um membrane filter. Determinations of "suspended" constituent are made either by analyzing portions of the material collected on the filter disk or, more commonly, by difference, based on determinations of (1) dissolved and (2) total (dissolved-plus-suspended) concentrations of the constituent.

Total (dissolved plus suspended)--The total amount of a given constituent in a water-suspended sediment sample, regardless of its physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total."

Total in bottom material--The total amount of a given constituent in a bottom material sample, regardless of its physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total."

Total recoverable--The amount of a given constituent that is in solution after a water-suspended sediment sample has been digested by a method (usually with an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment employed and there is reason to suspect that the determination actually represents something less than the "total" amount (95 percent ) of the constituent sought in both phases of the sample.



Volume or weight needed--The volume or weight of sample necessary for the analysis. When more than one determination is requested, the volume or weight required may be less than the sum of the individual values.

WATSTORE code--Five digit parameter code (conforms to STORET code) used to permanently store and retrieve values. May correspond to more than one lab code.

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Acidity</b>						
dissolved (mg/L as H) LC0001	0.1 to 100	9 -- --	71825	I-1020-78	Electrometric titration . . . . .	73
dissolved (mg/L as CaCO <sub>3</sub> ) LC0150	5 to 5,000	-- -- --	00435	I-1020-78	Calculated from LC0001 . . . . .	141
<b>Alkalinity</b>						
dissolved (mg/L as CaCO <sub>3</sub> ) LC0070	1 to 8,000	7 -- --	00410	I-2030-78	Electrometric titration, automated . . . . .	73
<b>Alpha (SEE gross alpha radioactivity)</b>						
<b>Aluminum</b>						
dissolved (ug/L as Al) LC0004	10 to 1,000	23 9 --	01106	I-1052-78	Atomic absorption spectrometric, chelation-extraction . . . . .	77
LC0099	100 to 5,000	23 -- --	01106	I-1051-78	Atomic absorption spectrometric, direct . . . . .	77
SH1090	50 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Al) LC0230	--	-- -- --	01107	I-7000-79	Calculated from LC0003 and LC0004 . . . . .	141
total recoverable (ug/L as Al) LC0003	10 to 1,000	>23 >9 --	01105	I-3052-78	Atomic absorption spectrometric, chelation-extraction . . . . .	81
LC0109	100 to 5,000	>23 -- --	01105	I-3051-78	Atomic absorption spectrometric, direct . . . . .	81
<b>Ammonia (SEE nitrogen, ammonia)</b>						
<b>Anions (SEE trace constituents or individual parameters)</b>						
<b>Anions</b>						
dissolved SH1009	--	-- -- --	-----	-----	. . . . .	73
SH1012	--	-- -- --	-----	-----	. . . . .	73
<b>Anions, major anions</b>						
dissolved SH1014	--	-- -- --	-----	-----	. . . . .	74
<b>Antimony</b>						
dissolved (ug/L as Sb) LC0077	1 to 15	4 -- --	01095	I-1055-78	Atomic absorption spectrometric, hydride . . . . .	77
SH1090	30 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended LC0078	--	-- -- --	01096	I-7001-79	Calculated from LC0080 and LC0077 . . . . .	141
total (ug/L as Sb) LC0080	1 to 15	>4 -- --	01097	I-3055-78	Atomic absorption spectrometric, hydride . . . . .	81
<b>Arsenic</b>						
dissolved (ug/L as As) LC0112	1 to 15	58 -- 19	01000	I-2062-78	Atomic absorption spectrometric, hydride, automated . . . . .	77
suspended total (ug/g as As) LC0239	1 to 150	>58 -- --	-----	I-7063-78	Atomic absorption spectrometric, hydride . . . . .	81
suspended total (ug/L as As) LC0231	--	-- -- --	01001	I-7001-79	Calculated from LC0118 and LC0112 . . . . .	141
total (ug/L as As) LC0118	1 to 15	>58 -- >19	01002	I-4062-78	Atomic absorption spectrometric, hydride, automated . . . . .	81

Atterburg limits and indices (SEE Atterburg limits and indices under Sediments section)

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Barium</b>						
dissolved (ug/L as Ba)						
LC0007	100 to 5,000	38 6 --	01005	I-1084-78	Atomic absorption spectrometric, direct . . . . .	77
SH1043	6 to 10,000	-- -- --	01005	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	5 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Ba)						
LC0233	--	-- -- --	01006	I-7000-79	Calculated from LC0234 and LC0007 . . . . .	141
total recoverable (ug/L as Ba)						
LC0234	100 to 5,000	>38 >6 --	01007	I-3084-78	Atomic absorption spectrometric, direct . . . . .	81
<b>Beryllium</b>						
dissolved (ug/L as Be)						
LC0170	10 to 200	19 -- 8	01010	I-1095-78	Atomic absorption spectrometric, direct . . . . .	77
SH1043	1.5 to 10,000	-- -- --	01010	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	1 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Be)						
LC0235	--	-- -- --	01011	I-7000-79	Calculated from LC0236 and LC0170 . . . . .	141
total recoverable (ug/L as Be)						
LC0236	10 to 200	>19 -- >8	01012	I-3095-78	Atomic absorption spectrometric, direct . . . . .	81
<b>Bismuth</b>						
dissolved (ug/L as Bi)						
SH1090	1,000 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
<b>Boron</b>						
dissolved (ug/L as B)						
LC0010	20 to 1,000	68 12 --	01020	I-1110-78	Colorimetric, dianthrimide . . . . .	77
LC0255	100 to 1,000	68 13 --	01020	I-1112-78	Colorimetric, curcumin . . . . .	77
SH1090	5 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as B)						
LC0270	--	-- -- --	01021	I-7000-79	Calculated from LC0271 and LC0010 . . . . .	141
total recoverable (ug/L as B)						
LC0271	20 to 1,000	>68 >12 --	01022	I-3110-78	Colorimetric, dianthrimide . . . . .	81
LC0595	100 to 1,000	>68 >13 --	01022	I-3112-78	Colorimetric, curcumin . . . . .	81
<b>Bromide</b>						
dissolved (mg/L as Br)						
LC0011	0.01 to 0.10	12 6 9	71870	I-1127-78	Colorimetric, catalytic oxidation . . . . .	77
LC0222	1 to 50	7 2 1	71870	I-1125-78	Titrimetric, hypochlorite oxidation . . . . .	77
Bulk density (SEE bulk density under Sediments section)						
<b>Cadmium</b>						
dissolved (ug/L as Cd)						
LC0073	1 to 50	22 -- --	01025	I-1136-78	Atomic absorption spectrometric, chelation-extraction . . . . .	77
LC0126	10 to 250	31 -- --	01025	I-1135-78	Atomic absorption spectrometric, direct . . . . .	77
LC0705	.01 to 17	56 -- --	01025	I-1137-78	Atomic absorption spectrometric, graphite furnace . . . . .	77
SH1043	3 to 10,000	-- -- --	01025	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	1 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Cd)						
LC0241	--	-- -- --	01026	I-7000-79	Calculated from LC0242 and LC0126 . . . . .	141
total recoverable (ug/L as Cd)						
LC0131	10 to 250	>31 -- --	01027	I-3135-78	Atomic absorption spectrometric, direct . . . . .	81
LC0242	1 to 50	>22 -- --	01027	I-3136-78	Atomic absorption spectrometric, chelation-extraction . . . . .	81
LC0713	.01 to 17	>56 -- --	01027	I-3137-78	Atomic absorption spectrometric, graphite furnace . . . . .	81

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
<b>Calcium</b>								
dissolved (mg/L as Ca)								
LC0012	0.1 to 60	7	--	8	00915	I-1152-78	Atomic absorption spectrometric, direct . . . . .	73
LC0831	.01 to 6.0	--	--	--	00915			73
SHT043	.06 to 1,000	--	--	--	00915	I-1472-79	Emission spectrometric, semiquantitative . . . . .	79
SHT090	1 to 1,000	--	--	--		I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (mg/L as Ca)								
LC0243	--	--	--	--	-----	I-7000-79	Calculated from LC0324 and LC0012 . . . . .	141
total recoverable (mg/L as Ca)								
LC0244	0.1 to 60	>7	--	>8	-----	I-3152-78	Atomic absorption spectrometric, direct . . . . .	74
LC0324	.1 to 60	>7	--	>8	00916	I-3153-78	Atomic absorption spectrometric, direct-EPA . . . . .	74
Carbon (SEE carbon under Organic section)								
Carbon, inorganic (SEE carbon inorganic under Organic section)								
Carbon, organic (SEE carbon, organic under Organic section)								
Carbon-13/carbon-12								
stable isotope, ratio per ml								
LC0440	--	--	--	--	-----	-----	Mass spectrometry . . . . .	85
Carbon-14								
apparent age of water in years								
LC0439	40,000 yrs to	--	--	--		R-1100-76	Apparent age, liquid scintillation method . . . . .	83
Carbonate, soil (SEE carbonate, soil under Sediments section)								
Cation exchange capacity (SEE cation exchange capacity under Sediment section)								
Cations (SEE trace constituents or individual parameter names)								
Cations, major cations								
dissolved								
SHT003	0.1 --	--	--	--	-----	-----	. . . . .	73
Cesium-137, gamma scan								
dissolved (pCi/L as Cs-137)								
LC0960	1.0 to 10,000	--	--	--	28403	R-1110-76	Inorganic ion-exchange method-gamma counting . . . . .	83
Cesium, radiocesium								
dissolved								
LC0934	--	--	--	--	-----	-----	. . . . .	83
suspended								
LC0935	--	--	--	--	-----	-----	. . . . .	84
total								
LC0936	--	--	--	--	-----	-----	. . . . .	84
Chemical oxygen demand (SEE oxygen demand, chemical)								
Chloride								
dissolved (mg/L as Cl)								
LC0015	0.1 to 100	16	5	--	00940	I-2187-78	Colorimetric, ferric thiocyanate, automated . . . . .	73
LC0835	.01 to 10	--	--	--	00940	-----	Colorimetric, ferric thiocyanate, automated . . . . .	73

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Chromium</b>						
dissolved (ug/L as Cr)						
LC0017	10 to 400	27 -- 30	01030	I-1236-78	Atomic absorption spectrometric, direct . . . . .	77
LC0146	1 to 25	25 -- 82	01030	I-1238-78	Atomic absorption spectrometric, chelation-extraction . . . . .	77
LC0706	.2 to 700	26 -- --	01030	I-1235-78	Atomic absorption spectrometric, graphite furnace . . . . .	77
SH1090	50 to 10,000	-- -- --		I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable						
LC0245	--	-- -- --	01031	I-7000-79	Calculated from LC0246 and LC0017 . . . . .	142
total recoverable (ug/L as Cr)						
LC0147	1 to 25	>25 -- >82	01034	I-3238-78	Atomic absorption spectrometric, chelation-extraction . . . . .	81
LC0246	10 to 400	>27 -- >30	01034	I-3236-78	Atomic absorption spectrometric, direct . . . . .	81
LC0714	.2 to 700	>26 -- --	01034	I-3235-78	Atomic absorption spectrometric, graphite furnace . . . . .	81
<b>Chromium, hexavalent</b>						
dissolved (ug/L as Cr)						
LC0016	1 to 25	25 -- 82	01032	I-1232-78	Atomic absorption spectrometric, chelation-extraction . . . . .	77
<b>Cobalt</b>						
dissolved (ug/L as Co)						
LC0018	1 to 50	20 14 --	01035	I-1240-78	Atomic absorption spectrometric, chelation-extraction . . . . .	77
LC0148	50 to 1,000	-- -- 10	01035	I-1239-78	Atomic absorption spectrometric, direct . . . . .	77
LC0707	.2 to 500	40 -- --	01035	I-1241-78	Atomic absorption spectrometric, graphite furnace . . . . .	77
SH1043	9 to 10,000	-- -- --	01035	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	5 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Co)						
LC0247	--	-- -- --	01036	I-7000-79	Calculated from LC0248 and LC0018 . . . . .	142
total recoverable (ug/L as Co)						
LC0149	50 to 1,000	-- -- >10	01037	I-3239-78	Atomic absorption spectrometric, direct . . . . .	81
LC0248	1 to 50	>20 >14 --	01037	I-3240-78	Atomic absorption spectrometric, chelation-extraction . . . . .	81
LC0715	.2 to 530	>40 -- --	01037	I-3241-78	Atomic absorption spectrometric, graphite furnace . . . . .	81
<b>Cobalt-60</b>						
dissolved (pCi/L as Co-60)						
LC0461	1.5 to 10,000	-- -- --	-----	-----	Gamma spectrometry . . . . .	83
<b>COD (SEE Oxygen demand, chemical)</b>						
<b>Color</b>						
(platinum-cobalt units)						
LC0020	1 to 70	100 -- 14	00080	I-1250-78	Electrometric, visual comparison . . . . .	83
<b>Conductance (SEE specific conductance, laboratory)</b>						
<b>Conductivity (SEE specific conductance, laboratory)</b>						

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and unit Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
<b>Copper</b>								
dissolved (ug/L as Cu)								
LC0022	1 to 75	23	--	--	01040	I-1271-78	Atomic absorption spectrometric, chelation-extraction . . . . .	78
LC0151	10 to 1,000	15	9	--	01040	I-1270-78	Atomic absorption spectrometric, direct . . . . .	77
LC0701	.2 to 500	60	--	--	01040	I-1272-78	Atomic absorption spectrometric, graphite furnace . . . . .	78
SH1043	30 to 10,000	--	--	--	01040	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	10 to 10,000	--	--	--	-----	I-1471-79	Emission spectrography, semiquantitative . . . . .	80
suspended recoverable (ug/L as Cu)								
LC0249	--	--	--	--	01041	I-7000-79	Calculated from LC0250 and LC0022 . . . . .	142
total recoverable (ug/L as Cu)								
LC0156	10 to 1,000	>15	>9	--	01042	I-3270-78	Atomic absorption spectrometric, direct . . . . .	81
LC0250	1 to 75	>23	--	--	01042	I-3271-78	Atomic absorption spectrometric, chelation-extraction . . . . .	81
LC0709	.2 to 500	>60	--	--	01042	I-3272-78	Atomic absorption spectrometric, graphite furnace . . . . .	81
Custom sample preparation (physical properties of solids) (SEE custom sample preparation under Sediments section)								
<b>Cyanide</b>								
dissolved (mg/L as CN)								
LC0880	0.01 to 0.30	6	--	3	00723	I-2302-78	Colorimetric, barbituric acid, automated . . . . .	78
total recoverable (mg/L as CN)								
LC0023	0.01 to 0.30	>6	--	>3	00720	I-4302-78	Colorimetric, barbituric acid, automated . . . . .	81
<b>Density</b>								
(g/mL at 20°C)								
LC0024	.990 to 1.500	--	1	--	71820	I-1312-78	Gravimetric . . . . .	83
Detergents (SEE methylene blue active substances under Organics section)								
<b>Deuterium/protium (hydrogen-2/hydrogen-1)</b>								
Stable isotope ratio per mil								
LC0300	--	--	--	--			Mass spectrometry . . . . .	85
Dissolved solids (SEE solids, residue on evaporation at 180°C)								
<b>Fluoride</b>								
dissolved (mg/L as F)								
LC0031	0.1 to 3.0	12	5	--	00950	I-2327-78	Electrometric, ion-selective electrode . . . . .	73
total (mg/L as F)								
LC0273	0.1 to 3.0	>12	--	--	00951	I-4327-78	Electrometric, ion-selective electrode, automated . . . . .	74
<b>Gallium</b>								
dissolved (ug/L as Ga)								
SH1090	30 to 10,000	--	--	--	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
<b>Germanium</b>								
dissolved (ug/L as Ge)								
SH1090	30 to 10,000	--	--	--	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Grain density (SEE grain density under Sediment section)						
Gross alpha radioactivity						
dissolved (ug/L as U natural)						
LC0444	0.4 to 500,000	-- -- --	80030	R-1120-76	Residue method . . . . .	83
LC0800	.4 to 500,000	-- -- --	80030	R-1120-76	Residue method (ground water) . . . . .	83
suspended total (ug/L as U natural)						
LC0446	0.4 to 500,000	-- -- --	80040	R-7120-79	Residue method . . . . .	84
total (ug/L as U natural)						
LC0209	0.4 to 500,000	-- -- --	-----	R-3120-79	Residue method (ground water) . . . . .	84
Gross beta radioactivity						
dissolved (pCi/L as Cs-137)						
LC0455	0.4 to 700,000	-- -- --	03515	R-1120-76	Residue method . . . . .	83
LC0798	.4 to 700,000	-- -- --	03515	R-1120-76	Residue method (ground water) . . . . .	83
suspended total (pCi/L as Cs-137)						
LC0456	0.4 to 700,000	-- -- --	03516	R-7120-79	Residue method . . . . .	84
total (pCi/L as Cs-137)						
LC0210	0.4 to 700,000	-- -- --	-----	R-3120-79	Residue method (ground water) . . . . .	84
Gross beta radioactiity						
dissolved (pCi/L as Sr-90/Y-90)						
LC0445	0.4 to 700,000	-- -- --	80050		Calculated from LC0455 . . . . .	142
LC0793	.4 to 700,000	-- -- --	80050		Calculated from LC0798 . . . . .	142
suspended (pCi/L as Sr-90/Y-90)						
LC0447	0.4 to 700,000	-- -- --	80060		Calculated from LC0456 . . . . .	142
total (pCi/L as Sr-90/Y-90)						
LC0213	0.4 to 700,000	-- -- --	-----		Calculated from LC0210 . . . . .	142
Gross radioactivity						
dissolved and suspended						
SH1405	--	-- -- --	-----	-----	. . . . .	84
total						
SH1403	--	-- -- --	-----	-----	. . . . .	85
Hardness						
dissolved (mg/L as CaCO <sub>3</sub> )						
LC0033	--	-- -- --	00900	I-1340-78	Calculated from LC0012 and LC0040 . . . . .	142
Hardness, noncarbonate						
dissolved (mg/L as CaCO <sub>3</sub> )						
LC0032	--	-- -- --	00902	I-1344-78	Calculated from LC0012, LC0040 and LC0070 . . . . .	142
Heavy mineral separation and grain mount (SEE heavy mineral separation and grain mount under Sediments section)						
Hydrogen-2/hydrogen-1 (SEE deuterium/protium)						
Iodide						
dissolved (mg/L as I)						
LC0035	0.001 to .060	75 51 48	71865	I-1371-78	Colorimetric, ceric-arsenious oxidation . . . . .	78
LC0164	1 to 50	40 23 3	71865	I-1370-78	Titrimetric, bromine oxidation . . . . .	78

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and unit Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Iron</b>						
dissolved (ug/L as Fe)						
LC0172	10 to 1,000	31 10 --	01046	I-1381-78	Atomic absorption spectrometric, direct . . . . .	78
SH1043	9 to 10,000	-- -- --	01046	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	5 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Fe)						
LC0275	--	-- -- --	01044	I-7000-79	Calculated from LC0189 and LC0172 . . . . .	143
total recoverable (ug/L as Fe)						
LC0189	--	-- -- --	-----	-----	. . . . .	
LC0037	10 to 1,000	>31 >10 --	01045	I-3381-78	Atomic absorption spectrometric, direct . . . . .	81
<b>Iron and manganese</b>						
dissolved						
SH1044	--	-- -- --	-----	-----	. . . . .	78
<b>Lead</b>						
dissolved (ug/L as Pb)						
LC0038	1 to 100	38 10 --	01049	I-1400-78	Atomic absorption spectrometric, chelation-extraction . . . . .	78
LC0191	100 to 4,000	33 -- --	01049	I-1399-78	Atomic absorption spectrometric, direct . . . . .	78
LC0702	.1 to 500	86 -- --	01049	I-1401-78	Atomic absorption spectrometric, graphite furnace . . . . .	78
SH1043	30 to 10,000	-- -- --	01049	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	30 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Pb)						
LC0256	--	-- -- --	01050	I-7000-79	Calculated from LC0257 and LC0038 . . . . .	143
total recoverable (ug/L as Pb)						
LC0192	100 to 4,000	>33 -- --	01051	I-3399-78	Atomic absorption spectrometric, direct . . . . .	81
LC0257	1 to 100	>33 >10 --	01051	I-3400-78	Atomic absorption spectrometric, chelation-extraction . . . . .	81
LC0710	.1 to 500	>86 -- --	01051	I-3401-78	Atomic absorption spectrometric, graphite furnace . . . . .	81
<b>Lead-210</b>						
dissolved (pCi/L as Pb-210)						
LC0448	2.0 to 10,000	-- -- --	17507	R-1130-76	Chemical separation and precipitation . . . . .	83
<b>Lithium</b>						
dissolved (ug/L as Li)						
LC0039	10 to 1,000	9 5 --	01130	I-1425-78	Atomic absorption spectrometric, direct . . . . .	78
SH1043	12 to 100,000	-- -- --	01130	I-1472-79	Emission spectrometric, semiquantitative . . . . .	79
SH1090	50 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, semiquantitative . . . . .	80
suspended recoverable (ug/L as Li)						
LC0276	--	-- -- --	01131	I-7000-79	Calculated from LC0277 and LC0039 . . . . .	143
total recoverable (ug/L as Li)						
LC0277	10 to 1,000	>9 >5 --	01132	I-3425-78	Atomic absorption spectrometric, direct . . . . .	81
<b>Lithium-7/lithium-6</b>						
stable ratio per ml						
LC0996	--	-- -- --	-----	-----	. . . . .	85
Lithologic description (SEE lithologic description under Sediments section)						



Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Magnesium</b>						
dissolved (mg/L as Mg)						
LC0040	0.1 to 50	9 5 --	00925	I-1447-78	Atomic absorption spectrometric, direct . . . . .	73
LC0832	.01 to 5.0	-- -- --	00925		. . . . .	73
SH1043	.012 to 100,000	-- -- --	00925	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	1 to 1,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (mg/L as Mg)						
LC0260	--	-- -- --	00926	I-7000-79	Calculation from LC0325 and LC0040 . . . . .	143
total recoverable (mg/L as Mg)						
LC0261	0.1 to 50	>9 >5 --	-----	I-3447-78	Atomic absorption spectrometric, direct . . . . .	74
LC0325	.1 to 50	>9 >5 --	00927	I-3448-78	Atomic absorption spectrometric, direct-EPA . . . . .	74
<b>Manganese</b>						
dissolved (ug/L as Mn)						
LC0042	10 to 1,000	20 9 --	01056	I-1454-78	Atomic absorption spectrometric, direct . . . . .	78
LC0193	1 to 100	-- -- --	01056	I-1456-78	Atomic absorption spectrometric, chelation-extraction . . . . .	78
SH1043	30 to 10,000	-- -- --	01056	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	1 to 10,000	-- -- --	--	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable						
LC0262	--	-- -- --	01054	I-7000-79	Calculation from LC0041 and LC0042. . . . .	143
total recoverable (ug/L as Mn)						
LC0041	10 to 1,000	>20 >9 --	01055	I-3454-78	Atomic absorption spectrometric, direct . . . . .	81
<b>MBAS (SEE methylene blue active substance under Organics section)</b>						
<b>Mercury</b>						
dissolved (ug/L as Hg)						
LC0226	.1 to 8	33 15 12	71890	I-2462-78	Atomic absorption spectrometric, flameless, automated . . . . .	78
suspended recoverable (ug/L as Hg)						
LC0263	--	-- -- --	71895	I-7000-79	Calculation from LC0227 and LC0226. . . . .	143
total recoverable (ug/L as Hg)						
LC0227	0.5 to 10	>46 >18 --	71900	I-3462-78	Atomic absorption spectrometric, flameless . . . . .	81
<b>Metals, trace metals</b>						
dissolved						
SH1043	--	-- -- --	-----	-----	. . . . .	79
total recoverable						
SH1045	--	-- -- --	-----	-----	. . . . .	79
SH1046	--	-- -- --	-----	-----	. . . . .	79
<b>Metals, trace metals, semiquantitative</b>						
dissolved						
SH1090	--	-- -- --	-----	-----	. . . . .	80
<b>Methylene blue active substance (SEE methylene blue active substance under Organics section)</b>						
<b>Moisture content (physical properties of solids) (SEE moisture content under Sediments section)</b>						
<b>Molybdenum</b>						
dissolved (ug/L as Mo)						
LC0110	1 to 50	36 11 8	01060	I-1490-78	Atomic absorption spectrometric, chelation-extraction . . . . .	78
SH1043	30 to 10,000	-- -- --	01060	I-1472-79	Emission spectrometric, semiquantitative . . . . .	79
SH1090	10 to 10,000	-- -- --	--	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Mo)						
LC0264	--	-- -- --	01061	I-7000-79	Calculation from LC0265 and LC0265 and LC0110 . . . . .	143
total recoverable (ug/L as Mo)						
LC0265	1 to 50	>36 >11 >8	01062	I-3490-78	Atomic absorption spectrometric, chelation-extraction . . . . .	81

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Nickel</b>						
dissolved (ug/L as Ni)						
LC0044	1 to 25	37 31 23	01065	I-1500-78	Atomic absorption spectrometric, chelation-extraction . . . . .	78
LC0197	100 to 10,000	10 3 3	01065	I-1499-78	Atomic absorption spectrometric, direct . . . . .	78
LC0703	1 to 1,700	63 -- --	01065	I-1501-78	Atomic absorption spectrometric, graphite furnace . . . . .	78
SH1090	50 to 10,000	-- -- --	--	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Ni)						
LC0266	--	-- -- --	01066	I-7000-79	Calculation from LC0267 and LC0044 . . . . .	143
total recoverable (ug/L as Ni)						
LC0198	100 to 10,000	>10 >3 >3	01067	I-3499-78	Atomic absorption spectrometric, direct . . . . .	81
LC0267	1 to 25	>37 >31 >23	01067	I-3500-78	Atomic absorption spectrometric, chelation-extraction . . . . .	82
LC0711	1 to 1,700	>63 -- --	01067	I-3501-78	Atomic absorption spectrometric, graphite furnace . . . . .	82
SH1036	--	-- -- --	-----	-----	. . . . .	75
<b>Nitrogen</b>						
dissolved						
SH1036	--	-- -- --	-----	-----	. . . . .	75
total (mg/L as N)						
LC0072	--	-- -- --	00600	-----	Calculated from LC0084 and LC0304 . . . . .	145
SH1038	--	-- -- --	-----	-----	. . . . .	76
total (mg/L as NO <sub>3</sub> )						
LC0278	--	-- -- --	71887	-----	Calculated from LC0084 and LC0304 . . . . .	145
<b>Nitrogen and orthophosphate</b>						
total						
SH1039	--	-- -- --	-----	-----	. . . . .	76
<b>Nitrogen and phosphorus</b>						
dissolved						
SH1032	--	-- -- --	-----	-----	. . . . .	75
SH1037	--	-- -- --	-----	-----	. . . . .	75
total						
SH1040	--	-- -- --	-----	-----	. . . . .	76
SH1133	--	-- -- --	-----	-----	. . . . .	76
<b>Nitrite plus nitrate and orthophosphate</b>						
dissolved						
SH1031	--	-- -- --	-----	-----	. . . . .	75
<b>Nitrogen species and phosphorus</b>						
total						
SH1134	--	-- -- --	-----	-----	. . . . .	77
SH1135	--	-- -- --	-----	-----	. . . . .	77
<b>Nitrogen, ammonia plus organic</b>						
dissolved (mg/L as N)						
LC0268	0.1 to 10	18 6 --	00623	I-2552-78	Colorimetric, block digestion-salicylate hypochlorite, automated .	74
suspended						
LC0269	--	-- -- --	00624	I-7001-79	Calculated from LC0084 and LC0268. . . . .	144
total (mg/L as N)						
LC0084	0.1 to 10	>18 >6 --	00625	I-4552-78	Colorimetric, block digestion-salicylate hypochlorite, automated .	75

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
Nitrogen, ammonia								
dissolved (mg/L as N)								
LC0301	0.01 to 10.0	17	6	--	00608	I-2523-78	Colorimetric, indophenol, automated . . . . . 74	
LC0830	.001 to .50	--	--	--	00608	-----	. . . . . 74	
dissolved (mg/L as NH <sub>4</sub> )								
LC0005	0.001 to 10.0	--	--	--	71846	-----	Calculated from LC0301. . . . . 143	
total (mg/L as N)								
LC0123	0.01 to 10.0	>17	>6	--	00610	I-4523-78	Colorimetric, extraction-indophenol, automated . . . . . 75	
LC0836	.001 to .50	--	--	--	00610	-----	. . . . . 75	
Nitrogen, nitrate								
dissolved (mg/L as N)								
LC0167	0.1 to 5.0	--	--	--	00618	I-1531-78	Calculated from LC0228 and LC0160 . . . . . 144	
LC0841	--	--	--	--	00618	I-1531-78	Calculated from LC0826 and LC0827 . . . . . 144	
dissolved (mg/L as NO <sub>3</sub> )								
LC0045	--	--	--	--	71851	-----	Calculated from LC0160 or LC0228 . . . . . 144	
total (mg/L as N)								
LC0303	0.1 to 5.0	--	--	--	00620	I-3531-78	Calculated from LC0304 and LC0302. . . . . 75	
LC0842	--	--	--	--	00620	I-3531-78	Calculated from LC0839 and LC0840. . . . . 144	
Nitrogen, nitrite plus nitrate								
dissolved (mg/L as N)								
LC0228	0.1 to 5.0	14	8	11	00631	I-2545-78	Colorimetric, cadmium reduction-diazotization, automated . . . . . 74	
LC0826	.01 to .50	--	--	--	00631	-----	. . . . . 74	
total (mg/L as N)								
LC0304	0.1 to 5.0	> 14	> 8	> 11	00630	I-4545-78	Colorimetric, cadmium reduction-diazotization, automated . . . . . 75	
LC0839	.01 -- .50	--	--	--	00630	-----	. . . . . 76	
Nitrogen, nitrite								
dissolved (mg/L as N)								
LC0160	0.01 to 1.0	--	--	--	00613	I-2540-78	Colorimetric, diazotization, automated . . . . . 74	
LC0827	.001 to .10	--	--	--	00613	-----	. . . . . 74	
dissolved (mg/L as NO <sub>2</sub> )								
LC0046	--	--	--	--	71856	-----	Calculated from LC0160 . . . . . 144	
total (mg/L as N)								
LC0302	0.01 to 1.0	--	--	--	00615	I-4540-78	Colorimetric, diazotization, automated . . . . . 76	
LC0840	.001 to .10	--	--	--	00615	-----	. . . . . 76	
Nitrogen, organic								
dissolved (mg/L as N)								
LC0161	0.1 to 10	--	--	--	00607	I-2547-78	Calculated from LC0268 and LC0301 . . . . . 144	
total (mg/L as N)								
LC0071	0.1 to 10	--	--	--	00605	I-4548-78	Calculation from LC0084 and LC0123 . . . . . 144	
Nitrogen-15/nitrogen-14								
stable isotope ratio per mil								
LC0995	--	--	--	--	-----	-----	Mass spectrometry . . . . . 85	
Oil and grease (SEE oil and grease under Organics section)								
Organic nitrogen (SEE nitrogen, organic)								
Oxygen demand, chemical								
total (mg/L)								
LC0076	10 to 500	28	--	9	00340	I-3561-78	Colorimetric, dichromate oxidation . . . . . 82	

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
Oxygen-18/oxygen-16 stable isotope ratio per mil LC0489	--	--	--	--	-----	-----	Mass spectrometry. . . . .	85
Particle size distribution, dry sieve (SEE particle size distribution under Sediments section)								
Particle size distribution, dry sieve and hydrometer (SEE particle size distribution under Sediments section)								
Percent sodium (SEE sodium, percent)								
pH, laboratory (standard units) LC0068	4 to 9	--	--	--	-----	I-2587-79	Electrometric, glass electrode, automated. . . . .	73
Phenols (SEE phenols under Organics section)								
Phosphorus								
dissolved (mg/L as P)								
LC0128	0.01 to 2.0	12	--	--	00666	I-2600-78	Colorimetric, phosphomolybdate, automated . . . . .	75
LC0829	.001 to .20	--	--	--	00666	-----	. . . . .	75
total (mg/L as P)								
LC0129	0.01 to 2.0	>12	--	--	00665	I-4600-78	Colorimetric, phosphomolybdate, automated . . . . .	76
LC0837	.001 to .20	--	--	--	00665	-----	. . . . .	76
total (mg/L as PO <sub>4</sub> )								
LC0130	--	--	--	--	71886	-----	Calculated from LC0129 . . . . .	145
Phosphorus, hydrolyzable								
dissolved (mg/L as P)								
LC0280	0.01 to 2.0	12	--	--	00672	I-2602-78	Colorimetric, phosphomolybdate, automated . . . . .	75
total (mg/L as P)								
LC0283	0.01 to 2.0	>12	--	--	00669	I-4602-78	Colorimetric, phosphomolybdate, automated . . . . .	76
Phosphorus, organic								
dissolved (mg/L as P)								
LC0281	0.01 to 2.0	--	--	--	00673	I-2603-78	Calculated from LC0128, LC0280, and LC0162. . . . .	145
total (mg/L as P)								
LC0284	0.01 to 2.0	--	--	--	00670	I-4603-78	Calculated from LC0283, LC0297, and LC0129. . . . .	145
Phosphorus, orthophosphate								
dissolved (mg/L as P)								
LC0162	0.01 to 2.0	20	--	--	00671	I-2601-78	Colorimetric, phosphomolybdate, automated . . . . .	75
LC0828	.001 to .20	--	--	--	00671	-----	. . . . .	75
total (mg/L as P)								
LC0297	0.01 to 2.0	>20	--	--	70507	I-4601-78	Colorimetric, phosphomolybdate, automated . . . . .	76
LC0838	.001 to .20	--	--	--	70507	-----	. . . . .	76

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Pore-water extraction (SEE pore-water extraction under Sediments section)						
Porosity, pore-size distribution of cohesive samples (SEE porosity under Sediments section)						
Porosity, pore-size distribution of friable undisturbed samples (SEE porosity under Sediments section)						
Potassium						
dissolved (mg/L as K)						
LC0054	0.1 to 100	11 -- --	00935	I-1630-78	Atomic absorption spectrometric, direct . . . . .	73
LC0833	.01 to 1.0	-- -- --	00935	-----	. . . . .	73
SH1090	1 to 1,000	-- -- --	00935	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
total recoverable (mg/L as K)						
LC0321	0.1 to 100	>11 -- --	-----	I-3630-78	Atomic absorption spectrometric, direct . . . . .	74
LC0327	.1	>11 -- --	-----	I-3631-78	Atomic absorption spectrometric, direct-EPA . . . . .	74
Potassium-40						
dissolved (pCi/L as K-40)						
LC0457	.07 to 75	-- -- --	-----	-----	Calculated from LC0054. . . . .	145
Radium-226						
dissolved (pCi/L as Ra-226)						
LC0449	0.01 to 1000	-- -- --	09511	R-1141-76	Radon emanation . . . . .	84
LC0458	.1 to 1000	-- -- --	09510	R-1140-76	Precipitation (planchet count) . . . . .	84
LC0794	.01 to 1000	-- -- --	09511	R-1141-76	Radon emanation (ground water) . . . . .	84
LC0799	.1 to 1000	-- -- --	09510	R-1140-76	Precipitation (planchet count, ground water) . . . . .	83
Radium-228						
dissolved (pCi/L as Ra-228)						
LC0850	0.1 to 1000	-- -- --	-----	R-1142-76	Separation and counting of actinium-228 . . . . .	84
total (pCi/L as Ra-228)						
LC0851	0.1 to 1000	-- -- --	-----	R-1142-76	Separation and counting of actinium-228 (ground water) . . . . .	84
Radon-222						
dissolved (pCi/L as Rn-222)						
LC0490	0.1 to 10,000	-- -- --	-----	R-1146-79	Radon emanation method . . . . .	84
dissolved gas (pCi/L as Rn-222)						
LC0491	0.1 to 10,000	-- -- --	-----	-----	. . . . .	84
Residue on evaporation (SEE solids, residue on evaporation at 180°C)						
ROE (SEE solids, residue on evaporation at 180°C)						
Ruthenium, rutheruthenium						
dissolved (pCi/L as Ru-106)						
LC0937		-- -- --	28008	-----	. . . . .	84
suspended (pCi/L as Ru-106)						
LC0938		-- -- --	28009	-----	. . . . .	84
total						
LC0939 (pCi/L as Ru-106)		-- -- --	28010	-----	. . . . .	84

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
SAR (SEE sodium absorption ratio)						
Selenium						
dissolved (ug/L as Se)						
LC0087	1 to 20	29 27 47	01145	I-1667-78	Atomic absorption spectrometric, hydride-automated . . . . .	78
suspended						
LC0285	--	-- -- --	01146	I-7001-78	Calculated from LC0286 and LC0087 . . . . .	145
total (ug/L as Se)						
LC0286	1 to 15	>29 >27 >47	01147	I-4667-78	Atomic absorption spectrometric, hydride-automated . . . . .	82
Silica						
dissolved (mg/L as SiO <sub>2</sub> )						
LC0056	0.1 to 60	5 -- --	00955	I-2700-78	Colorimetric, molybdate blue, automated . . . . .	73
SH1043	.03 to 25	-- -- --	00955	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	.09 to 10,000	-- -- --	00955	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
Silver						
dissolved (ug/L as Ag)						
LC0166	1 to 10	14 14 14	01075	I-1720-78	Atomic absorption spectrometric, chelation-extraction . . . . .	78
LC0708	.02 to 170	79 -- --	01075	I-1721-78	Atomic absorption spectrometric, ICP semi-quantitative . . . . .	78
SH1090	10 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP quantitative . . . . .	80
suspended recoverable (ug/L as Ag)						
LC0287	--	-- -- --	01076	I-7000-79	Calculated from LC0288 and LC0166 . . . . .	145
total recoverable (ug/L as Ag)						
LC0288	1 to 10	>14 >14 >14	01077	I-3720-78	Atomic absorption spectrometric, chelation-extraction . . . . .	82
LC0716	.02 to 170	>79 -- --	01077	I-3721-78	Atomic absorption spectrometric, graphite furnace . . . . .	82
Sodium						
dissolved (mg/L as Na)						
LC0059	0.1 to 80	9 4 4	00930	I-1735-78	Atomic absorption spectrometric, direct . . . . .	73
LC0834	.01 to 8	-- -- --	00930	-----	. . . . .	73
SH1043	.6 to 1,000	-- -- --	00930	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	1 to 1,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
total recoverable (mg/L as Na)						
LC0320	0.1 to 80	>9 >4 >4	-----	I-3735-78	Atomic absorption spectrometric, direct . . . . .	74
LC0326	.1 to 80	>9 >4 >4	00929	I-3736-78	Atomic absorption spectrometric, direct-EPA . . . . .	74
Sodium absorption ratio						
LC0057	--	-- -- --	00931	I-1738-78	Calculation from LC0012, LC0040 and LC0059 . . . . .	146
Sodium, percent						
(percent)						
LC0060	--	-- -- --	00932	I-1740-78	Calculation from LC0012, LC0040, LC0059 and LC0054 . . . . .	146
Solids						
dissolved						
SH1047	--	-- -- --	-----	-----	. . . . .	83

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
Solids, residue at 105 <sup>o</sup> -110 <sup>o</sup> C								
dissolved (mg/L) LC0159	1 to 40,000	10	--	--	00515	I-1749-78	Gravimetric . . . . .	83
suspended (mg/L) LC0169	1 to 40,000	33	10	1	00530	I-3765-78	Gravimetric . . . . .	83
total (mg/L) LC0165	1 to 40,000	>11	--	--	00500	I-3750-78	Gravimetric . . . . .	83
Solids, residue on evaporation at 180 <sup>o</sup> C								
dissolved (mg/L) LC0027	1 to 40,000	11	--	--	70300	I-1750-78	Gravimetric . . . . .	83
Solids, volatile on ignition,								
dissolved (mg/L) LC0229	1 to 10,000	--	6	--	00520	I-1753-78	Gravimetric . . . . .	83
suspended (mg/L) LC0049	1 to 10,000	--	>6	--	00535	I-3767-78	Gravimetric . . . . .	83
total (mg/L) LC0085	1 to 10,000	>6	--	--	00505	I-3753-78	Gravimetric . . . . .	83
Solids, non-volatile								
suspended (mg/L) LC0322	--	--	--	--	00540	I-3766-78	Calculated from LC0169 and LC0049 . . . . .	147
total (mg/L) LC0086	--	--	--	--	00510	I-3752-78	Calculated from LC0085 and LC0165 . . . . .	147
Solids								
dissolved (tons per acre-foot) LC00029	--	--	--	--	70300	-----	Calculated from LC0027 or LC0028 and LC0061 . . . . .	146
dissolved (tons per day) LC0030	--	--	--	--	70302	-----	Calculated from LC0027 or LC0028 and LC0061 . . . . .	146
Solids (sum of constituents)								
dissolved (mg/L) LC0028	--	--	--	--	70301	I-1751-78	Calculated from LC0012, LC0040, LC0059, LC0015, LC0056, LC0063 and LC0070 . . . . .	146
Specific conductance, laboratory (micromhos per cm at 25 <sup>o</sup> C)								
LC0069	1 to 17,000	3	--	--	00095	I-2781-78	Electrometric, wheatstone bridge, automated . . . . .	83
Strontium								
dissolved (ug/L as Sr) LC0062	10 to 5,000	34	9	--	01080	I-1800-78	Atomic absorption spectrometric, direct . . . . .	78
SH1043	.5 to 10,000	--	--	--	01080	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	5 to 10,000	--	--	--	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Sr) LC0289	--	--	--	--	01081	I-7000-78	Calculated from LC0062 and LC0290 . . . . .	147
total recoverable (ug/L as Sr) LC0290	10 to 5,000	>34	>9	--	01082	I-3800-78	Atomic absorption spectrometric, direct . . . . .	82

Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Strontium-89 dissolved (pCi/L as Sr-89) LC0940	--	-- -- --	-----	-----	.....	84
Strontium-90 dissolved (pCi/L as Sr-90) LC0450	.5 to 100,000	-- -- --	13503	R-1160-76	Separation and precipitation .....	84
LC0795	.5 to 100,000	-- -- --	13503	R-1160-76	Separation and precipitation (ground water) .....	84
Sulfate dissolved (mg/L as SO <sub>4</sub> ) LC0063	5 to 300	13 2 --	00945	I-2822-78	Colorimetric, complexometric, methylthymol blue, automated .....	73
Sulfide total (mg/L as S) LC0089	0.5 to 500	-- -- --	00745	I-3840-78	Titrimetric, iodometric .....	82
Sulfur-34/sulfur-32 stable isotopes LC0298	--	-- -- --	-----	-----	Mass spectrometry .....	84
Surface area (physical properties of solids) (SEE surface area under sediments section)						
Tannin and lignin (SEE tannin and lignin under Organics section)						
Thin section preparation (SEE thin section preparation under Sediments section)						
Tin dissolved (ug/L as Sn) LC0225	100 to 10,000	100 -- --	01100	I-1850-78	Atomic absorption spectrometric, direct .....	78
SH1090	50 to 10,000	-- -- --	-----	I-1741-79	Emission spectrometric, ICP semiquantitative .....	80
suspended recoverable (ug/L as Sn) LC0291	--	-- -- --	01101	I-7000-79	Calculated from LC0225 and LC292 .....	147
total recoverable (ug/L as Sn) LC0292	100 to 10,000	>100 -- --	01102	I-3850-78	Atomic absorption spectrometric, direct .....	82
Titanium dissolved (ug/L as Ti) SH1090	5 to 10,000	-- -- --	-----	I-1471-79	Emission spectrometric, ICP semiquantitative .....	80
TOC (SEE carbon, organic)						
Total Hardness (SEE hardness)						
Tritium total (pCi/L) LC0881	60 to 320	-- -- --	07000	R-1172-76	Electrolytic enrichment-liquid scintillation .....	84
LC0452	320 to 300,000	-- -- --	07000	R-1171-76	Liquid scintillation method .....	84
LC0460	16 to 320	-- -- --	07000	-----	.....	84



Table 1.--Method names, method numbers, parameter codes and applicable range for inorganic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method name	Abbreviated method name	Page
		Low	Med	Hi				
<b>Turbidity</b> (Nephelometric-turbidity unit)								
LC0050	1 to 40	--	23	23	00076	I-3860-78	Nephelometer . . . . .	83
<b>Uranium</b>								
dissolved (ug/L as U)								
LC0453	0.4 to 2,000	--	--	--	22703	R-1180-76	Fluorimetric-direct . . . . .	78
LC0454	.01 to 5.0	--	--	--	80020	R-1181076	Fluorimetric-extraction . . . . .	78
LC0796	.4 to 2,000	--	--	--	22703	R-1180-76	Fluorimetric-direct (ground water) . . . . .	78
LC0797	.01 to 5.0	--	--	--	80020	R-1181-76	Fluorimetric-extraction (ground water) . . . . .	78
total								
LC0618	0.4 to 2,000	--	--	--	28011	-----	. . . . .	82
<b>Uranium-238/uranium-234</b> isotope ratio								
LC0619	--	--	--	--	28013	-----	Alpha spectrometric . . . . .	85
<b>Vanadium</b>								
dissolved (ug/L as V)								
LC0111	0.1 to 100	43	--	--	01085	I-1880-78	Colorimetric, catalytic oxidation . . . . .	78
SH1043	18 to 10,000	--	--	--	01085	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	10 to 10,000	--	--	--	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
<b>Zinc</b>								
dissolved (ug/L as Zn)								
LC0067	10 to 3,000	35	14	7	01090	I-1900-78	Atomic absorption spectrometric, direct . . . . .	78
LC0704	.03 to 50	--	79	--	01090	I-1901-78	Atomic absorption spectrometric, graphite furnace . . . . .	78
SH1043	9 to 10,000	--	--	--	01090	I-1472-79	Emission spectrometric, ICP quantitative . . . . .	79
SH1090	10 to 10,000	--	--	--	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80
suspended recoverable (ug/L as Zn)								
LC0295	--	--	--	--	01091	I-7000-79	Calculated from LC0067 and LC0296 . . . . .	147
total recoverable (ug/L as Zn)								
LC0296	10 to 3,000	> 35	> 14	> 7	01092	I-3900-78	Atomic absorption spectrometric, direct . . . . .	82
LC0712	.03 to 50	--	> 79	--	01092	I-3901-78	Atomic absorption spectrometric, graphite furnace . . . . .	82
<b>Zirconium</b>								
dissolved (ug/L Zr)								
SH1090	5 to 10,000	--	--	--	-----	I-1471-79	Emission spectrometric, ICP semiquantitative . . . . .	80

Table 2.--Method names, method numbers, parameter codes and applicable range organic parameters offered as analytical services.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method names	Page
<b>Aldrin</b>						
dissolved (ug/L) LC0463	0.01	0.01	39331	0-0201-78	Gas chromatography . . . . .	97
suspended (ug/L) LC0404	0.01	0.01	39332	0-0202-78	Gas chromatography . . . . .	98
total (ug/L) LC0175	0.01	0.01	39330	0-0201-78	Gas chromatography, dissolved plus suspended . . . . .	102
LC0350	.01	.01	39330	0-0201-78	Gas chromatography . . . . .	102
LC0738	.002	.002	39330	-----	Gas chromatography . . . . .	102
LC0882	10	10	39330	-----	Gas chromatography, high level scan . . . . .	102
<b>Alpha BHC</b>						
total (ug/L) LC0806	--	--	39337	-----	Gas chromatography . . . . .	102
<b>Ametryne</b>						
total (ug/L) LC0848	0.1	0.1	----	-----	Gas chromatography . . . . .	111
<b>2-Amino 4, 6-dinitrotoluene</b>						
total SH1377	--	--	----	-----	Gas chromatography-mass spectrometry . . . . .	97
<b>4-Amino 2, 6-dinitrotoluene</b>						
total SH1377	--	--	----	-----	Gas chromatography-mass spectrometry . . . . .	97
<b>Aroclors of polychlorinated biphenyl</b>						
dissolved SH1361	--	--	----	-----	Gas chromatography . . . . .	93
suspended SH1362	--	--	----	-----	Gas chromatography . . . . .	94
total SH1364	--	--	----	-----	Gas chromatography . . . . .	95
<b>Aroclor 1016 (polychlorinated biphenyl)</b>						
dissolved (ug/L) LC0787	0.1	0.1	----	-----	Gas chromatography . . . . .	93
suspended (ug/L) LC0788	0.1	0.1	----	-----	Gas chromatography . . . . .	94
total (ug/L) LC0789	0.1	0.1	----	-----	Gas chromatography . . . . .	94
LC0896	50	50	----	-----	Gas chromatography, high level scan. . . . .	94
<b>Aroclor 1221 (polychlorinated biphenyl)</b>						
dissolved (ug/L) LC0783	0.1	0.1	----	-----	Gas chromatography . . . . .	93
suspended (ug/L) LC0784	0.1	0.1	----	-----	Gas chromatography . . . . .	94
total (ug/L) LC0785	0.1	0.1	----	-----	Gas chromatography . . . . .	94
LC0897	50	--	----	-----	Gas chromatography, high level scan. . . . .	94

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Aroclor 1232 (polychlorinated biphenyl)						
dissolved (ug/L) LC0779	0.1	0.1	----	-----	Gas chromatography . . . . .	93
suspended (ug/L) LC0780	0.1	0.1	----	-----	Gas chromatography . . . . .	94
total (ug/L) LC0781	0.1	0.1	----	-----	Gas chromatography . . . . .	94
LC0898	50	50	----	-----	Gas chromatography, high level scan. . . . .	95
Aroclor 1242 (polychlorinated biphenyl)						
dissolved (ug/L) LC0775	0.1	0.1	----	-----	Gas chromatography . . . . .	93
suspended (ug/L) LC0776	0.1	0.1	----	-----	Gas chromatography . . . . .	94
total (ug/L) LC0777	0.1	0.1	----	-----	Gas chromatography . . . . .	95
LC0899	50	50	----	-----	Gas chromatography, high level scan. . . . .	95
Aroclor 1248 (polychlorinated biphenyl)						
dissolved (ug/L) LC0771	0.1	0.1	----	-----	Gas chromatography . . . . .	93
suspended (ug/L) LC0772	0.1	0.1	----	-----	Gas chromatography . . . . .	94
total (ug/L) LC0773	0.1	0.1	----	-----	Gas chromatography . . . . .	95
LC0950	50	50	----	-----	Gas chromatography, high level scan. . . . .	95
Aroclor 1254 (polychlorinated biphenyl)						
dissolved (ug/L) LC0767	0.1	0.1	----	-----	Gas chromatography . . . . .	93
suspended (ug/L) LC0768	0.1	0.1	----	-----	Gas chromatography . . . . .	94
total (ug/L as) LC0769	0.1	0.1	----	-----	Gas chromatography . . . . .	95
LC0951	50	50	----	-----	Gas chromatography, high level scan. . . . .	95
Aroclor 1260 (polychlorinated biphenyl)						
dissolved (ug/L) LC0763	0.1	0.1	----	-----	Gas chromatography . . . . .	93
suspended (ug/L) LC0764	0.1	0.1	----	-----	Gas chromatography . . . . .	94
total (ug/L) LC0765	0.1	0.1	----	-----	Gas chromatography . . . . .	95
LC0952	50	50	----	-----	Gas chromatography, high level scan. . . . .	95

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Atraton total (ug/L) LC0847	0.1	0.1	----	-----	Gas chromatography . . . . .	111
Atrazine total (ug/L) LC0717	0.1	0.1	39630	-----	Gas chromatography. . . . .	111
Azodrin total (ug/L) LC0591	0.1	0.1	----	-----	Gas chromatography. . . . .	110
Benzene total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Benzene, ethyl (SEE ethylbenzene)						
Beta BHC total (ug/L) LC0807	--	--	39338	-----	Gas chromatography. . . . .	102
Bromoform total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Carbaryl (SEE sevin)						
Carbon total (mg/L as C) LC0043	--	--	----	-----	Calculated value. . . . .	149
Carbon, inorganic dissolved (mg/L as C) LC0306	--	--	00691	0-0004-78	Calculated value . . . . .	91
total (mg/L as C) LC0019	--	--	00685	0-0004-78	. . . . .	91
Carbon, organic dissolved (mg/L as C) LC0113	--	--	00681	0-0002-78	Wet oxidation . . . . .	91
suspended (mg/L as C) LC0305	--	--	00689	0-0003-78	Wet oxidation . . . . .	91
total (mg/L as C) LC0114	--	--	00680	0-0001-78	Wet oxidation . . . . .	91

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Carbon tetrachloride total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Chemical oxygen demand (SEE oxygen demand, chemical)						
Chlordane						
dissolved (ug/L) LC0464	0.1	0.1	39352	0-0201-78	Gas chromatography . . . . .	97
suspended (ug/L) LC0405			39353	0-0202-78	Gas chromatography . . . . .	99
total (ug/L) LC0176	0.1	0.1	39350	0-0202-78	Gas chromatography, dissolved plus suspended. . . . .	102
LC0351	.1	.1	39350	0-0201-78	Gas chromatography-whole water . . . . .	102
LC0883	10	10	39350	-----	Gas chromatography . . . . .	102
Chlorinated ethanes (SEE chloroethane) (SEE 1, 1, 1-trichloroethane) (SEE 1, 1, 2, 2-tetrachloroethane) (SEE 1, 1, 2-trichloroethane) (SEE 1, 1-dichloroethane) (SEE 1, 2-dichloroethane)						
Chlorinated phenoxy acid herbicides						
dissolved SH1301	--	--	----	-----	Gas chromatography . . . . .	92
suspended SH1302	--	--	----	-----	Gas chromatography . . . . .	92
total SH1303	--	--	----	-----	Gas chromatography . . . . .	92
SH1304	--	--	----	-----	Gas chromatography . . . . .	93
Chlorobenzene total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Chlorodibromomethane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Chloroethane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Chloroethane, tetra (SEE 1, 1, 2, 2-tetrachloroethane)						
2-Chloroethyl vinyl ether total SH1390	--	--	----	-----	Gas chromatography-mass spectrometry . . . . .	113
Chloroform total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Chlorophyll a, periphyton (See chlorophyll-a, periphyton under biologic section)						
Chlorophyll a, phytoplankton (See chlorophyll-a, phytoplankton under biologic section)				40		

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Chlorophyll b, periphyton (See chlorophyll b, periphyton under biologic section)						
Chlorophyll b, phytoplankton (See chlorophyll b, phytoplankton under biologic section)						
COD (SEE Inorganic Section)						
Color (platinum-cobalt units) (SEE Inorganic section)						
Confirmation by gas chromatography-mass spectrometry LC1001	--	--	-----	-----	Gas chromatography-mass spectrometry. . . . .	91
Cyanazine total (ug/L) LC0846	0.1	0.1	-----	-----	Gas chromatography. . . . .	111
Cyanide (SEE Inorganic section)						
Cyprazine total (ug/L) LC0845	0.1	0.1	-----	-----	Gas chromatography. . . . .	111
2,4-D						
dissolved (ug/L) LC0477	0.01	0.01	39732	-----	Gas chromatography. . . . .	91
suspended (ug/L) LC0480 (ug/ total (ug/L) LC0101	0.01	0.01	39733	-----	Gas chromatography. . . . .	92
LC0372	--	--	39730	-----	Gas chromatography, dissolved and suspended . . . . .	92
	0.01	0.01	39730	-----	Gas chromatography. . . . .	92
DDD						
dissolved (ug/L) LC0465	0.01	0.01	39361	0-0201-78	Gas chromatography. . . . .	97
suspended (ug/L) LC0406	0.01	0.01	39362	0-0202-78	Gas chromatography. . . . .	99
total (ug/L) LC0177	0.01	0.01	39360	0-0201-78	Gas chromatography, dissolved plus suspended. . . . .	102
LC0352	.01	.01	39360	0-0201-78	Gas chromatography. . . . .	103
LC0739	.002	.002	39360	-----	Gas chromatography. . . . .	103
LC0884	10	10	39360	-----	Gas chromatography, high level scan . . . . .	103
DDE						
dissolved (ug/L) LC0466	0.01	0.01	39366	0-0201-78	Gas chromatography. . . . .	97
suspended (ug/L) LC0407	.01	.01	39367	0-0202-78	Gas chromatography. . . . .	99
total (ug/L) LC0178	0.01	0.01	39365	0-0201-78	Gas chromatography, dissolved plus suspended. . . . .	103
LC0353	.01	.01	39365	0-0201-78	Gas chromatography. . . . .	103
LC0740	.001	.001	39365	-----	Gas chromatography. . . . .	103
LC0885	10	10	39365	-----	Gas chromatography, high level scan . . . . .	103

Table 2.--Method names, method numbers, parameter codes and applicable range for organic paramters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
<b>DDT</b>								
dissolved (ug/L) LC0467	0.01	0.01		39371	0-0201-78	Gas chromatography . . . . .	97	
suspended (ug/L) LC0408	0.01	0.01		39372	0-0202-78	Gas chromatography . . . . .	99	
total (ug/L) LC0179	0.01	0.01		39370	0-0201-78	Gas chromatography, dissolved plus suspended. . . . .	103	
LC0354	.01	.01		39370	0-0201-78	Gas chromatography . . . . .	103	
LC0741	.002	.002		39370	-----	Gas chromatography . . . . .	103	
LC0886	10	10		39370	-----	Gas chromatography, high level scan . . . . .	103	
<b>DEF</b>								
total (ug/L) LC0802	0.01	0.01		-----	-----	Gas chromatography. . . . .	110	
<b>Delta BHC</b>								
total (ug/L) LC0808	0.01	--		34259	-----	Gas chromatography. . . . .	103	
<b>Detergents (SEE methylene blue active substances)</b>								
<b>Diazinon</b>								
dissolved (ug/L) LC0423	0.01	0.01		39572	0-0201-78	Gas chromatography . . . . .	108	
suspended (ug/L) LC0417	0.01	0.01		39573	0-0202-78	Gas chromatography . . . . .	109	
total (ug/L) LC0139	0.01	0.01		39570	0-0201-78	Gas chromatography, dissolved plus suspended. . . . .	110	
LC0378	.01	.01		39570	0-0201-78	Gas chromatography. . . . .	110	
LC0953	10	10		39570	-----	Gas chromatography, high level scan . . . . .	110	
<b>Dicamba</b>								
total (ug/L) LC0749	0.01	0.01		-----	-----	Gas chromatography. . . . .	92	
<b>Dichlorobromomethane</b>								
total (ug/L) SH1390	--	--		-----	-----	Gas chromatography-mass spectrometry. . . . .	113	
<b>Dichlorodifluoromethane</b>								
total (ug/L) SH1390	--	--		-----	-----	Gas chromatography-mass spectrometry. . . . .	113	

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med HI	Parameter code	Method number	Abbreviated method name	Page
1, 1-Dichloroethane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
1, 2-Dichloroethane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
1, 1-Dichloroethylene total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
1, 2-Trans-dichloroethylene total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Dichloromethane (SEE methylene chloride)						
1, 2-Dichloropropane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
1, 3-Dichloropropene total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Dieldrin						
dissolved (ug/L) LC0468	0.01	0.01	39381	-----	Gas chromatography. . . . .	97
suspended (ug/L) LC0409	0.01	0.01	39382	-----	Gas chromatography. . . . .	100
total (ug/L) LC0180	0.01	0.01	39380	-----	Gas chromatography, dissolved plus suspended. . . . .	103
LC0355	.01	.01	39380	-----	Gas chromatography. . . . .	103
LC0742	.003	.003	39380	-----	Gas chromatography. . . . .	103
LC0887	10	10	39380	-----	Gas chromatography, high level scan . . . . .	103
Dinitrotoluene (SEE 2-amino 4, 6-dinitrotoluene) (SEE 4-amino 2, 6-dinitrotoluene)						
Disyston						
total (ug/L) LC0592	0.01	0.01	----	-----	Gas chromatography. . . . .	110
DOC (SEE Organic section)						
2,4-DP						
dissolved (ug/L) LC0487	0.01	0.01	----	-----	Gas chromatography. . . . .	91
suspended (ug/L) LC0486	0.01	0.01	----	-----	Gas chromatography. . . . .	92
total (ug/L) LC0104	--	--	----	-----	Gas chromatography, dissolved and suspended . . . . .	92
LC0402	0.01	0.01	----	-----	Gas chromatography. . . . .	92



Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Endosulfan</b>						
dissolved (ug/L)						
LC0345	0.01	0.01	----	-----	Gas chromatography. . . . .	97
suspended (ug/L)						
LC0347	0.01	0.01	----	-----	Gas chromatography. . . . .	100
total (ug/L)						
LC0349	0.01	0.01	39388	-----	Gas chromatography, dissolved plus suspended. . . . .	103
LC0737	.001	.001	39388	-----	Gas chromatography. . . . .	103
LC0762	.01	.01	39388	-----	Gas chromatography. . . . .	103
LC0888	10	10	39388	-----	Gas chromatography, high level scan . . . . .	103
<b>Endrin</b>						
dissolved (ug/L)						
LC0469	0.01	0.01	39391	-----	Gas chromatography . . . . .	97
suspended (ug/L)						
LC0483	0.01	0.01	39392	-----	Gas chromatography . . . . .	100
total						
LC0181	0.01	0.01	39390	-----	Gas chromatography, dissolved plus suspended. . . . .	103
LC0356	.01	.01	39390	-----	Gas chromatography . . . . .	103
LC0743	.003	.003	39390	-----	Gas chromatography . . . . .	103
LC0889	10	10	39390	-----	Gas chromatography, high level scan . . . . .	103
<b>Ethane, tetrachloro (SEE 1, 1, 2, 2-tetrachloroethane)</b>						
<b>Ethion</b>						
dissolved (ug/L)						
LC0424	0.01	0.01	----	-----	Gas chromatography . . . . .	108
suspended (ug/L)						
LC0418	0.01	0.01	----	-----	Gas chromatography . . . . .	109
total (ug/L)						
LC0140	0.01	0.01	39398	-----	Gas chromatography, dissolved plus suspended. . . . .	110
LC0379	.01	.01	39398	-----	Gas chromatography . . . . .	110
LC0954	10	10	39398	-----	Gas chromatography, high level scan . . . . .	110
<b>Ethylbenzene</b>						
total (ug/L)						
SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
<b>Gamma BHC (SEE lindane)</b>						
<b>Gross polychlorinated biphenyls</b>						
dissolved (ug/L as PCB)						
LC0474	0.1	0.1	39517	-----	Gas chromatography. . . . .	93
suspended (ug/L as PCB)						
LC0414	0.1	0.1	39422	-----	Gas chromatography. . . . .	94
total (ug/L as PCB)						
LC0186	0.1	0.1	39516	-----	Gas chromatography, dissolved plus suspended . . . . .	95
LC0392	.1	.1	39516	-----	Gas chromatography. . . . .	95
LC0895	50	50	39516	-----	Gas chromatography, high level scan . . . . .	95

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
<b>Gross polychlorinated naphthalenes</b>								
dissolved (ug/L as PCN)								
LC0475	0.1	0.1		-----	-----	Gas chromatography. . . . .	93	
suspended (ug/L as PCN)								
LC0415	0.1	0.1		-----	-----	Gas chromatography. . . . .	94	
total (ug/L as PCN)								
LC0187	0.1	0.1		39250	-----	Gas chromatography, dissolved plus suspended . . . . .	95	
LC0393	.1	.1		39250	-----	Gas chromatography. . . . .	95	
<b>Guthion</b>								
total (ug/L)								
LC0805	0.1	0.1		-----	-----	Gas chromatography. . . . .	110	
<b>Heptachlor</b>								
dissolved (ug/L)								
LC0470	0.01	0.01		39411	-----	Gas chromatography . . . . .	97	
suspended (ug/L)								
LC0410	0.01	0.01		39412	-----	Gas chromatography . . . . .	100	
total (ug/L)								
LC0182	0.01	0.01		39410	-----	Gas chromatography, dissolved plus suspended. . . . .	103	
LC0357	.01	.01		39410	-----	Gas chromatography . . . . .	103	
LC0744	.001	.001		39410	-----	Gas chromatography . . . . .	103	
LC0890	10	10		39410	-----	Gas chromatography, high level scan . . . . .	103	
<b>Heptachlorepoxyde</b>								
dissolved (ug/L)								
LC0471	0.01	0.01		39421	-----	Gas chromatography . . . . .	97	
suspended (ug/L)								
LC0411	0.01	0.01		-----	-----	Gas chromatography . . . . .	100	
total (ug/L)								
LC0183	0.01	0.01		39420	-----	Gas chromatography, dissolved plus suspended. . . . .	103	
LC0358	.01	.01		39420	-----	Gas chromatography . . . . .	103	
LC0745	.001	.001		39420	-----	Gas chromatography . . . . .	104	
LC0891	10	10		39420	-----	Gas chromatography, high level scan . . . . .	104	

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Hexachlorocyclohexane, isomers	(SEE alpha BHC) (SEE beta BHC) (SEE delta BHC)					
Inorganic carbon (SEE carbon, inorganic)						
Kepone						
dissolved (ug/L)						
LC0561	--	--	-----	-----	Gas chromatography . . . . .	97
suspended (ug/L)						
LC0562	--	--	-----	-----	Gas chromatography . . . . .	100
total (ug/L)						
LC0563	--	--	-----	-----	Gas chromatography . . . . .	104
Lindane						
dissolved (ug/L)						
LC0472	0.01	0.01	39341	-----	Gas chromatography . . . . .	97
suspended (ug/L)						
LC0412	0.01	0.01	39342	-----	Gas chromatography . . . . .	100
total (ug/L)						
LC0184	0.01	0.01	39340	-----	Gas chromatography, dissolved plus suspended. . . . .	104
LC0359	.01	.01	39340	-----	Gas chromatography . . . . .	104
LC0746	.001	.001	39340	-----	Gas chromatography . . . . .	104
LC0892	10	10	39340	-----	Gas chromatography, high level scan . . . . .	104
Malathion						
dissolved (ug/L)						
LC0425	0.01	0.01	39532	-----	Gas chromatography . . . . .	108
suspended (ug/L)						
LC0419	0.01	0.01	39533	-----	Gas chromatography . . . . .	109
total (ug/L)						
LC0141	0.01	0.01	39530	-----	Gas chromatography, dissolved plus suspended. . . . .	110
LC0380	.01	.01	39530	-----	Gas chromatography . . . . .	110
LC0955	10	10	39530	-----	Gas chromatography, high level scan . . . . .	110
MBAS (SEE methylene blue active substance)						
Mercury (SEE Inorganic section)						
Methomye						
total (ug/L)						
LC0638	--	--	-----	-----	High pressure liquid chromatography . . . . .	91

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Method number	Abbreviated method name	Page
		Low	Med	Hi			
<b>Methoxychlor</b>							
dissolved (ug/L) LC0476	0.01	0.01		-----	Gas chromatography . . . . .	97	
suspended (ug/L) LC0416	0.01	0.01		-----	Gas chromatography . . . . .	100	
total (ug/L) LC0107	0.01	0.01		39480	Gas chromatography, dissolved plus suspended. . . . .	104	
LC0400	.01	.01		39480	Gas chromatography . . . . .	104	
<b>Methylbromide</b>							
total (ug/L) SHT390	--	--		-----	Gas chromatography-mass spectrometry. . . . .	113	
<b>Methyl mercury (SEE mercury)</b>							
<b>Methylparathion</b>							
dissolved (ug/L) LC0426	0.01	0.01		39602	Gas chromatography . . . . .	108	
suspended (ug/L) LC0420	0.01	0.01		39603	Gas chromatography . . . . .	109	
total (ug/L) LC0142	0.01	0.01		39600	Gas chromatography, dissolved plus suspended. . . . .	110	
LC0381	.01	.01		39600	Gas chromatography . . . . .	110	
LC0956	10	10		39600	Gas chromatography, high level scan . . . . .	110	
<b>Methyltrithion</b>							
dissolved (ug/L) LC0484	0.01	0.01		-----	Gas chromatography . . . . .	108	
suspended (ug/L) LC0485	0.01	0.01		-----	Gas chromatography . . . . .	109	
total (ug/L) LC0143	0.01	0.01		39790	Gas chromatography, dissolved plus suspended. . . . .	110	
LC0382	.01	.01		39790	Gas chromatography . . . . .	110	
LC0957	10	10		39790	Gas chromatography, high level scan . . . . .	110	
<b>Methylene blue active substance</b>							
total (mg/L as MBAS) LC0096	--	--		38260	Colorimetric, methylene blue. . . . .	91	
<b>Methylene chloride</b>							
total (ug/L) SHT390	--	--		-----	Gas chromatography-mass spectrometry. . . . .	113	
<b>Mirex</b>							
dissolved (ug/L) LC0542	0.01	0.01		39756	Gas chromatography . . . . .	97	
suspended (ug/L) LC0543	0.01	0.01		39757	Gas chromatography . . . . .	100	
total (ug/L) LC0188	0.01	0.01		39755	Gas chromatography, dissolved plus suspended. . . . .	104	
LC0544	.01	.01		39755	Gas chromatography . . . . .	104	
LC0893	10	10		39755	Gas chromatography, high level scan . . . . .	104	

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med HI	Parameter code	Method number	Abbreviated method name	Page
<b>Munition products</b>						
dissolved						
SH1336	--	--	-----	-----	Gas chromatography. . . . .	96
suspended						
SH1337	--	--	-----	-----	Gas chromatography. . . . .	96
total						
SH1338	--	--	-----	-----	Gas chromatography, dissolved plus suspended. . . . .	96
SH1339	--	--	-----	-----	Gas chromatography. . . . .	96
SH1377	--	--	-----	-----	Gas chromatography. . . . .	97
<b>Nitrogen, organic (SEE Inorganic section)</b>						
<b>Oil and grease</b>						
total (mg/L)						
LC0127	--	--	00556	-----	Freon extraction, gravimetric . . . . .	91
<b>Organic, carbon (SEE carbon, organic)</b>						
<b>Organic nitrogen (SEE Inorganic section)</b>						
<b>Organic phosphorus (SEE Inorganic section)</b>						
<b>Organochlorine and organophosphorus insecticides with gross PCB and gross PCN</b>						
dissolved						
SH1331	--	--	-----	-----	Gas chromatography. . . . .	98
suspended						
SH1332	--	--	-----	-----	Gas chromatography. . . . .	101
total						
SH1318	--	--	-----	-----	Gas chromatography. . . . .	104
SH1334	--	--	-----	-----	Gas chromatography. . . . .	105
SH1333	--	--	-----	-----	Gas chromatography. . . . .	106
<b>Organochlorine insecticides with gross PCB and gross PCN</b>						
dissolved						
SH1321	--	--	-----	-----	Gas chromatography. . . . .	99
suspended						
SH1322	--	--	-----	-----	Gas chromatography. . . . .	102
total						
SH1324	--	--	-----	-----	Gas chromatography. . . . .	107
SH1323	--	--	-----	-----	Gas chromatography. . . . .	108
<b>Organophosphorus insecticides</b>						
dissolved						
SH1316	--	--	-----	-----	Gas chromatography. . . . .	109
suspended						
SH1317	--	--	-----	-----	Gas chromatography. . . . .	109
total						
SH1319	--	--	-----	-----	Gas chromatography. . . . .	111
<b>Oxygen demand, chemical (SEE Inorganic section)</b>						

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Parathion</b>						
dissolved (ug/L) LC0427	0.01	0.01	39542	-----	Gas chromatography . . . . .	108
suspended (ug/L) LC0421	0.01	0.01	39543	-----	Gas chromatography . . . . .	109
total (ug/L) LC0144	0.01	0.01	39540	-----	Gas chromatography, dissolved plus suspended. . . . .	110
LC0383	.01	.01	39540	-----	Gas chromatography . . . . .	110
LC0958	10	10	39540	-----	Gas chromatography, high level scan . . . . .	110
PCB (SEE gross polychlorinated biphenyls or arochlor, polychlorinated biphenyl)						
PCN (SEE polychlorinated naphthalenes)						
<b>Perthane</b>						
dissolved (ug/L) LC0344	0.01	0.01	-----	-----	Gas chromatography . . . . .	97
suspended (ug/L) LC0343	0.01	0.01	-----	-----	Gas chromatography . . . . .	100
total (ug/L) LC0348	0.01	0.01	-----	-----	Gas chromatography . . . . .	104
LC0761	.01	.01	-----	-----	Gas chromatography, dissolved plus suspended . . . . .	104
LC0894	10	10	-----	-----	Gas chromatography, high level scan . . . . .	104
<b>Phenols</b>						
total (ug/L as phenol) LC0052	--	--	32730	-----	Colorimetric, 4-aminoantipyrene . . . . .	91
<b>Phorate</b>						
total (ug/L) LC0593	0.01	0.01	-----	-----	Gas chromatography. . . . .	110
<b>Phosdrin</b>						
total (ug/L) LC0594	0.01	0.01	39610	-----	Gas chromatography. . . . .	110
<b>Picloram</b>						
total (ug/L) LC0748	0.01	0.01	-----	-----	Gas chromatography. . . . .	92
Polychlorinated biphenyl (SEE gross polychlorinated biphenyls) (SEE arochlor -----, polychlorinated biphenyl)						
Polychlorinated biphenyl 1016 (SEE arochlor 1016 (polychlorinated biphenyl)						
Polychlorinated biphenyl 1221 (SEE arochlor 1221 (polychlorinated biphenyl)						
Polychlorinated biphenyl 1232 (SEE arochlor 1232 (polychlorinated biphenyl)						
Polychlorinated biphenyl 1243 (SEE arochlor 1242 (polychlorinated biphenyl)						

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)		Parameter code	Method number	Abbreviated method name	Page
		Low	Med Hi				
Polychlorinated biphenyl 1248 (SEE arochlor 1248 (polychlorinated biphenyl)							
Polychlorinated biphenyl 1254 (SEE arochlor 1254 (polychlorinated biphenyl)							
Polychlorinated biphenyl 1260 (SEE arochlor 1260 (polychlorinated biphenyl)							
Polychlorinated naphthalenes (SEE gross polychlorinated naphthalenes)							
Prometone total (ug/L) LC0718	0.1	0.1		----	-----	Gas chromatography. . . . .	111
Prometryne total (ug/L) LC0631	0.1	0.1		----	-----	Gas chromatography. . . . .	111
Propazine total (ug/L) LC0844	0.1	0.1		----	-----	Gas chromatography. . . . .	111
Propham total (ug/L) LC0637	0.1	--		----	-----	High pressure liquid chromatography . . . . .	91
RDX dissolved (ug/L) LC0553	0.01	0.01		----	-----	Gas chromatography . . . . .	96
suspended (ug/L) LC0554	0.01	0.01		----	-----	Gas chromatography . . . . .	96
total (ug/L) LC0105	0.01	0.01		----	-----	Gas chromatography . . . . .	96
LC0396	.01	.01		----	-----	Gas chromatography, dissolved plus suspended . . . . .	96
Ronnel total (ug/L) LC0804	--	--		39357	-----	Gas chromatography. . . . .	110
Sevin total (ug/L) LC0636	--	--		39750	-----	Gas chromatography. . . . .	91
Silvex dissolved (ug/L) LC0479	0.01	0.01		39762	-----	Gas chromatography. . . . .	91
suspended (ug/L) LC0482	0.01	0.01		39763	-----	Gas chromatography. . . . .	92
total (ug/L) LC0103	0.01	0.01		39760	-----	Gas chromatography, dissolved plus suspended . . . . .	92
LC0374	.01	.01		39760	-----	Gas chromatography. . . . .	92
Simazine total LC0719	0.1	0.1		----	-----	Gas chromatography. . . . .	111

Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Simetone</b>						
total LC0843	0.1	0.1	----	-----	Gas chromatography. . . . .	111
<b>Simetryne</b>						
total LC0720	0.1	0.1	----	-----	Gas chromatography. . . . .	111
SOC (SEE carbon, organic, suspended)						
Solids, volatile on ignition (SEE Inorganic section)						
System, di (SEE disystem)						
<b>2,4,5-T</b>						
dissolved (ug/L) LC0478	0.01	0.01	39742	-----	Gas chromatography. . . . .	91
suspended (ug/L) LC0481	0.01	0.01	39743	-----	Gas chromatography. . . . .	92
total (ug/L) LC0102	--	--	39740	-----	Gas chromatography, dissolved and suspended . . . . .	92
LC0373	0.01	0.01	39740	-----	Gas chromatography. . . . .	92
<b>Tannin and lignin</b>						
total (mg/L as tannic acid) LC0138	--	--	32240	-----	Colorimetric. . . . .	91
<b>1, 1, 2, 2-Tetrachloroethane</b>						
total (ug/L) SH1390	--	--	----	-----	. . . . .	113
<b>Tetrachloroethylene</b>						
total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Tetrachloromethane (SEE carbon tetrachloride)						
<b>TNT</b>						
dissolved (ug/L) LC0551	0.01	0.01	----	-----	Gas chromatography. . . . .	96
suspended (ug/L) LC0552	0.01	0.01	----	-----	Gas chromatography. . . . .	96
total (ug/L) LC0106	0.01	0.01	----	-----	Gas chromatography. . . . .	96
LC0397	.01	.01	----	-----	Gas chromatography, dissolved and suspended . . . . .	96
TOC (SEE carbon, organic)						
<b>Toluene</b>						
total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113



Table 2.--Method names, method numbers, parameter codes and applicable range for organic parameters offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<b>Toxaphene</b>						
dissolved (ug/L) LC0473	1	1	39401	-----	Gas chromatography. . . . .	97
suspended (ug/L) LC0413	1	1	39402	-----	Gas chromatography. . . . .	100
total (ug/L) LC0185	1	1	39400	-----	Gas chromatography. . . . .	104
LC0360	1	1	39400	-----	Gas chromatography. . . . .	104
<b>Trans-dichloroethylene (SEE dichloroethylene, 1, 2-trans-)</b>						
<b>Triazine herbicides</b>						
total SH1389	--	--	----	-----	Gas chromatography. . . . .	112
1, 1, 1-Trichloroethane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
1, 1, 2-Trichloroethane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Trichloroethylene total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
Trichlorofluoromethane total (ug/L) SH1390	--	--	----	-----	Gas chromatography-mass spectrometry. . . . .	113
<b>Trichloromethane (SEE chloroform)</b>						
<b>Trinitrotoluene (SEE TNT)</b>						
<b>Trithion</b>						
dissolved (ug/L) LC0428	0.01	0.01	----	-----	Gas chromatography . . . . .	108
suspended (ug/L) LC0422	0.01	0.01	----	-----	Gas chromatography . . . . .	108
total (ug/L) LC0145	0.01	0.01	39786	-----	Gas chromatography, dissolved plus suspended. . . . .	109
LC0384	0.01	0.01	39786	-----	Gas chromatography . . . . .	110
LC0959	10	10	39786	-----	Gas chromatography, high level scan . . . . .	110
<b>Vinyl chloride</b> total (ug/L) SH1390	--	--	----	-----	Gas chromatography. . . . .	113
<b>Volatile organics</b> total SH1390	--	--	----	-----	Gas chromatography. . . . .	113

Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<u>Inorganic analyses of sediments</u>						
Aluminum recoverable from bottom material, dry weight (ug/g as Al) LC0520	10 to 250	23 -- --	01108	I-5051-79	Atomic absorption spectrometric, direct . . . . .	121
Antimony total from bottom material, dry weight (ug/g as Sb) LC0534	1 to 150	4 -- --	01098	I-5055-79	Atomic absorption spectrometric, hydride . . . . .	121
Arsenic total from bottom material, dry weight, (ug/g as As) LC0597	1 to 150	58 -- --	01003	I-6062-79	Atomic absorption spectrometric, hydride, automatd . . . . .	121
Barium recoverable from bottom material, dry weight (ug/g as Ba) LC0521	25 to 250	38 -- --	01008	I-5084-79	Atomic absorption spectrometric, direct . . . . .	121
Beryllium recoverable from bottom material, dry weight (ug/g as Be) LC0522	3 to 10	19 -- --	01013	I-5095-79	Atomic absorption spectrometric, direct . . . . .	121
Boron recoverable from bottom material, dry weight (ug/g as Bo) LC0501	10 to 50	68 -- --	01023	I-5110-79	Colorimetric, dianthrimide . . . . .	121
Cadmium recoverable from bottom material, dry weight (ug/g as Cd) LC0502	1 to 12	31 -- --	01028	I-5135-79	Atomic absorption spectrometric, direct . . . . .	121
Calcium recoverable from bottom material, dry weight (mg/kg as Ca) LC0696	10 to 3,000	7 -- --	00917	I-5152-79	Atomic absorption spectrometric, direct . . . . .	121
Carbon-13/carbon-12, stable ratio per mil LC0941	--	-- -- --	-----	-----	Mass spectrometry . . . . .	121
Chromium recoverable from bottom material, dry weight (ug/g as Cr) LC0505	1 to 20	27 -- --	01029	I-5236-79	Atomic absorption spectrometric, direct . . . . .	121
Cobalt recoverable from bottom material, dry weight (ug/g as Co) LC0506	5 to 50	10 -- --	01038	I-5239-79	Atomic absorption spectrometric, direct . . . . .	121
Copper recoverable from bottom material, dry weight (ug/g as Cu) LC0507	1 to 50	15 -- --	01043	I-5270-79	Atomic absorption spectrometric, direct . . . . .	121
Cyanide total in bottom material, dry weight (mg/g as CN) LC0508	0.5 to 2.7	6 -- --	00721	I-5300-79	Colorimetric, pyridine-pyrazolone . . . . .	121

Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services--Continued.

Parameter name Phase and unit Lab code	Applicable range	Precision (percent) Low Med Hl	Parameter code	Method number	Abbreviated method name	Page
<u>Inorganic analyses of sediments--continued</u>						
Iron						
recoverable from bottom material, dry weight (ug/g as Fe)						
LC0509	1 to 50	31 -- --	01170	I-6379-79	Colorimetric, bipyridine, automated . . . . .	121
Lead						
recoverable from bottom material, dry weight (ug/g as Pb)						
LC0510	10 to 200	33 -- --	01052	I-5399-79	Atomic absorption spectrometric, direct . . . . .	121
Lithium						
recoverable from bottom material, dry weight (ug/g as Li)						
LC0639	1 to 50	9 -- --	-----	I-5425-79	Atomic absorption spectrometric, direct . . . . .	121
Magnesium						
recoverable from bottom material, dry weight (mg/kg as Mg)						
LC0697	10 to 2,500	9 -- --	00924	I-5447-79	Atomic absorption spectrometric, direct . . . . .	121
Manganese						
recoverable from bottom material, dry weight (ug/g as Mn)						
LC0512	1 to 50	9 -- --	01053	I-5454-79	Atomic absorption spectrometric, direct . . . . .	121
Mercury						
recoverable from bottom material, dry weight (ug/g as Hg)						
LC0511	0.01 to 10	46 -- --	71921	I-5462-79	Atomic absorption spectrometric, flameless . . . . .	121
Molybdenum						
recoverable from bottom material, dry weight (ug/g as Mo)						
LC0523	0.25 to 2.5	36 -- --	01063	I-5490-79	Atomic absorption spectrometric, chelation extraction . . . . .	122
Nickel						
recoverable from bottom material, dry weight (ug/g as Ni)						
LC0519	2.5 to 50	10 -- --	01068	I-5499-79	Atomic absorption spectrometric, direct . . . . .	122
Nitrogen						
total in bottom material, dry weight (mg/kg as N)						
LC0219	-- --	-- -- --	00603	-----	Calculated from LC0514 and LC0515 . . . . .	151
LC0527	1 --	-- -- --	00603	I-5554-79	Titrimetric, digestion-distillation . . . . .	122
Nitrogen-15/nitrogen-14						
stable isotope ratio per ml						
LC0998	--	-- -- --	-----	-----	Mass spectrometry . . . . .	122
Nitrogen, ammonia						
total in bottom material, dry weight (mg/kg as N)						
LC0524	0.2 to 500	17 -- --	00611	I-6523-79	Colorimetric, extraction-indophenol, automated . . . . .	122
Nitrogen, ammonia plus organic						
total in bottom material, dry weight (mg/kg as N)						
LC0514	10 to 400	18 -- --	00626	I-6552-79	Colorimetric, block digester-salicylate hypochlorite, automated	122

Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services--Continued.

Parameter name Phase and unit Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<u>Inorganic analyses of sediments--continued</u>						
Nitrogen, nitrite total in bottom material, dry weight (ug/kg as N) LC0526	0.2 to 20	-- -- --	00616	I-6540-79	Colorimetric . . . . .	122
Nitrogen, nitrite plus nitrate total in bottom material, dry weight (mg/kg as N) LC0513	2 to 100	-- -- --	00633	I-6545-79	Colorimetric, cadmium reduction-diazotization, automated . . .	122
Oxygen demand, chemical total in bottom material, dry weight (mg/kg) LC0532	100	28 -- --	00339	I-5560-79	Titrimetric, 0.25N dichromate oxidation . . . . .	122
Oxygen-18/oxygen-16 stable isotope ratio per mil LC0999	--	-- -- --	-----	-----	Mass spectrometry . . . . .	122
Phosphorus total in bottom material, dry weight (mg/kg as P) LC0515	40 to 8,000	20 -- --	00668	I-6600-79	Colorimetric, phosphomolybdate, automated . . . . .	122
Potassium recoverable from bottom material, dry weight (mg/kg as K) LC0698	10 to 5,000	11 -- --	00938	I-5630-79	Atomic absorption spectrometric, direct . . . . .	122
Selenium total in bottom material, dry weight (ug/g as Se) LC0517	1 to 200	1 -- --	01148	I-5667-79	Atomic absorption spectrometric, hydride . . . . .	122
Silver recoverable from bottom material, dry weight (ug/g as Ag) LC0528	.25 to 25	.25 -- --	01078	I-5720-79	Atomic absorption spectrometric, chelation-extraction . . . . .	122
Sodium recoverable from bottom material, dry weight (mg/kg as Na) LC0699	10 to 4,000	9 -- --	00934	I-5735-79	Atomic absorption spectrometric, direct . . . . .	122
Solids, volatile on ignition, total in bottom material, dry weight (mg/kg) LC0516	1 to 10,000	6 -- --	00496	I-5753-79	Gravimetric . . . . .	122
Strontium recoverable from bottom material, dry weight (ug/g as Sr) LC0530	1 to 250	34 -- --	01083	I-5800-79	Atomic absorption spectrometric, direct . . . . .	122
Sulfur-34/sulfur-32 stable isotope ratio per mil LC1000	--	-- -- --	-----	-----	Mass spectrometry . . . . .	122
Zinc recoverable from bottom material, dry weight (ug/g as Zn) LC0518	1 to 25	35 -- --	01093	I-5900-79	Atomic absorption spectrometric, direct . . . . .	122

Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services--Continued.

Parameter name Phase and unit Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<u>Organic analyses of sediments</u>						
Aldrin total in bottom material, dry weight (ug/kg) LC0361	0.1 --	-- -- --	39333	-----	.....	123
Carbon total in bottom material (g/kg as C) LC0133	--	-- -- --	00690	-----	.....	123
Carbon, inorganic total in bottom material (g/kg as C) LC0503	0.1 to 1,000	-- -- --	00686	-----	.....	123
Carbon, organic total in bottom material, dry weight (g/kg as C) LC0504	--	-- -- --	00687	-----	Calculated from LC0503 and LC0133 .....	151
Chlordane total in bottom material, dry weight (ug/kg) LC0362	1 --	-- -- --	39351	-----	.....	123
DDD total in bottom material, dry weight (ug/kg) LC0363	0.1 --	-- -- --	39363	-----	.....	123
DDE total in bottom material, dry weight (ug/kg) LC0364	0.1 --	-- -- --	39368	-----	.....	123
DDT total in bottom material, dry weight (ug/kg) LC0365	0.1 --	-- -- --	39373	-----	.....	123
Diazinon total in bottom material, dry weight (ug/kg) LC0385	0.1 --	-- -- --	39571	-----	.....	124
Dieldrin total in bottom material, dry weight (ug/kg) LC0366	0.1 --	-- -- --	39383	-----	.....	123
Endosulfan total in bottom material, dry weight (ug/kg) LC0346	0.1 --	-- -- --	-----	-----	.....	123

Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services--Continued.

Parameter name Phase and unit Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<u>Organic analyses of sediments--continued</u>						
Endrin						
total in bottom material, dry weight (ug/kg)						
LC0367	0.1 --	-- -- --	39393	-----	.....	123
Ethion						
total in bottom material, dry weight (ug/kg)						
LC0386	0.1 --	-- -- --	39399	-----	.....	124
Gross polychlorinated biphenyls						
total in bottom material, dry weight (ug/L as PCB)						
LC0394	1 --	-- -- --	39519	-----	.....	124
Gross polychlorinated naphthalenes						
total in bottom material, dry weight (ug/kg as PCN)						
LC0395	1 --	-- -- --	-----	-----	.....	124
Heptachlor						
total in bottom material, dry weight (ug/kg)						
LC0368	0.1 --	-- -- --	39413	-----	.....	123
Heptachlorepoxyde						
total in bottom material, dry weight (ug/kg)						
LC0369	0.1 --	-- -- --	39420	-----	.....	123
Kepone						
total in bottom material, dry weight (ug/kg)						
LC0564	--	-- -- --	-----	-----	.....	124
Lindane						
total in bottom material, dry weight (ug/kg)						
LC0370	0.1 --	-- -- --	39343	-----	.....	123
Malathion						
total in bottom material, dry weight (ug/kg)						
LC0387	0.1 --	-- -- --	39531	-----	.....	124
Methoxychlor						
total in bottom material, dry weight (ug/kg)						
LC0401	0.1 --	-- -- --	39481	-----	.....	123
Methyl parathion						
total in bottom material, dry weight (ug/kg)						
LC0388	0.1 --	-- -- --	39601	-----	.....	124
Methyl trithion						
total in bottom material, dry weight (ug/kg)						
LC0389	0.1 --	-- -- --	39791	-----	.....	124

Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<u>Organic analyses of sediments--continued</u>						
Mirex						
total in bottom material, dry weight (ug/kg)						
LC0545	0.1 --	-- -- --	-----	-----	.....	123
Oil and grease						
total in bottom material (mg/kg)						
LC0531	--	-- -- --	00557	-----	.....	123
Parathion						
total in bottom material, dry weight (ug/kg)						
LC0390	0.1 --	-- -- --	39541	-----	.....	124
Perthane						
total in bottom material, dry weight (ug/kg)						
LC0342	0.1 --	-- -- --	-----	-----	.....	123
RDX						
total in bottom material, dry weight (ug/kg)						
LC0398	0.1 --	-- -- --	-----	-----	.....	124
Silvex						
total in bottom material, dry weight (ug/kg)						
LC0377	0.1 --	-- -- --	39761	-----	.....	123
TNT						
total in bottom material, dry weight (ug/kg)						
LC0399	0.1 --	-- -- --	-----	-----	.....	124
Toxaphene						
total in bottom material, dry weight (ug/kg)						
LC0371	10 --	-- -- --	39403	-----	.....	123
Trithion						
total in bottom material, dry weight (ug/kg)						
LC0391	0.1 --	-- -- --	39787	-----	.....	124
2,4-D						
total in bottom material, dry weight (ug/kg)						
LC0375	0.1 --	-- -- --	39731	-----	.....	123
2,4-DP						
total in bottom material, dry weight (ug/kg)						
LC0403	0.1 --	-- -- --	-----	-----	.....	123
2,4,5-T						
total in bottom material, dry weight (ug/kg)						
LC0376	0.1 --	-- -- --	39741	-----	.....	123

Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hf	Parameter code	Method number	Abbreviated method name	Page
<b>Physical properties of sediments</b>						
Atterburg limits and indices LC0928	--	---	----	-----	.....	125
Bulk density (g/cc) LC0931	--	---	----	-----	.....	125
Carbonate Soil (percent weigh as CO <sub>3</sub> ) LC0910	--	---	----	-----	.....	125
Cation exchange capacity (meq/100 g) LC0441	--	---	----	-----	.....	125
Custom sample preparation LC0929	--	---	----	-----	.....	125
Grain density (g/cc) LC0901	--	---	----	-----	.....	125
Heavy mineral separation and grain mount LC0930	--	---	----	-----	.....	125
Lithologic description LC0912	--	---	----	-----	.....	125
Moisture content (percent) LC0904	--	---	----	-----	.....	125
Particle size distribution SH1620	--	---	----	-----	Dry sieve . . . . .	125
SH1621	--	---	----	-----	Dry sieve and hydrometer . . . . .	126
Pore-water extraction LC0926	--	---	----	-----	.....	125
Porosity Pore size distribution of cohesive samples LC0907	--	---	----	-----	.....	125



Table 3.--Method names, method numbers, parameter codes and applicable range for "Chemical analyses and physical properties of sediments" offered as analytical services--Continued

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
<u>Physical properties of sediments--continued</u>						
Porosity						
Pore size distribution of friable undisturbed samples LC0932	--	-- -- --	----	-----	.....	125
Surface area (sq m) LC0933	--	-- -- --	----	-----	.....	125
Thin section preparation LC0916	--	-- -- --	----	-----	.....	125
Turbidity (SEE turbidity under inorganic section)						

Table 4.--Index of biological determinations.

Parameter name Phase and units Lab code	Applicable range	Precision (percent) Low Med Hi	Parameter code	Method number	Abbreviated method name	Page
Algal growth potential (mg/L) LC0055	--	-- -- --	85209	B-8501-77	Algal growth potential (AGP) . . . . .	133
Adenosine triphosphate phytoplankton LC0616	--	-- -- --	70998	B-6700-77	Adenosine triphosphate (ATP) . . . . .	137
Benthic invertebrates ash weight (g/sq m) LC0566	--	-- -- --	70942	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	133
Benthic invertebrates dry weight (g/sq m) LC0565	--	-- -- --	70941	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	133
Benthic invertebrates wet weight (g/sq m) LC0608	--	-- -- --	70940	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	133
Benthic invertebrates taxonomic identification						
SH1501	--	-- -- --	-----	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	133
SH1502	--	-- -- --	-----	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	134
SH1503	--	-- -- --	-----	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	134
SH1504	--	-- -- --	-----	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	135
SH1505	--	-- -- --	-----	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	135
SH1506	--	-- -- --	-----	B-5020-77	Numerical assessment (relative or semiquantitative method) . . . . .	136
Biomass chlorophyll ratio, periphyton LC0627	--	-- -- --	70950	-----	Calculation . . . . .	153
Biomass chlorophyll ratio, phytoplankton LC0622	--	-- -- --	70949	-----	Calculation . . . . .	153
Photosynthesis, carbon-14 (mg of C per sq m of surface area)						
LC0438	--	-- -- --	-----	B-8020-77	Carbon-14, light- and dark-bottle method for phytoplankton . . . . .	137
LC0961	--	-- -- --	-----	B-8020-77	Carbon-14, light- and dark-bottle method for phytoplankton . . . . .	137
Chlorophyll and biomass, periphyton SH1708	--	-- -- --	-----	B-6640-77	Chromotography and spectrometry . . . . .	137
Chlorophyll a, periphyton chromatographic-fluorometric (mg/sq m) LC0588	--	-- -- --	70951	B-6640-77	Chromotography and spectrometry . . . . .	136

Table 4.--Index of biological determinations--Continued.

Parameter name Phase and units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
Chlorophyll a, phytoplankton chromatographic-fluorometric (ug/L) LC0586	--	--	--	--	70953	B-6540-77	Chromotography and spectrometry . . . . .	137
Chlorophyll b, periphyton chromatographic-fluorometric (mg/sq m) LC0589	--	--	--	--	70958	B-6640-77	Chromotography and spectrometry . . . . .	136
Chlorophyll b, phytoplankton chromatographic, fluorometric (ug/L) LC0587	--	--	--	--	70954	B-6540-77	Chromotography and spectrometry . . . . .	137
Chlorophyll, periphyton SH1507	--	--	--	--	-----	B-6540-77	Chromotography and spectrometry . . . . .	137
Chlorophyll, phytoplankton SH1500	--	--	--	--	-----	B-6540-77	Chromotography and spectrometry . . . . .	137
Periphyton, biomass, ash weight (g/sq m) LC0611	--	--	--	--	00572	B-3520-77	Gravimetric . . . . .	136
Periphyton, biomass dry weight (g/sq m) LC0603	--	--	--	--	00573	B-3520-77	Gravimetric . . . . .	136
Periphyton, diatom identification SH1512	--	--	--	--	-----	-----	. . . . .	137
Periphyton, taxonomic identification SH1511	--	--	--	--	-----	-----	. . . . .	137
Phytoplankton, biomass, ash weight (mg/L) LC0621	--	--	--	--	-----	B-6560-77	Gravimetric . . . . .	137
Phytoplankton, biomass, dry weight (mg/L) LC0620	--	--	--	--	-----	B-6560-77	Gravimetric . . . . .	137
Phytoplankton, taxonomic identification SH1520	--	--	--	--	-----	B-1520-77	Inverted microscope method . . . . .	138
SH1706	--	--	--	--	-----	-----	. . . . .	139
Seston, total (mg/L) LC0615	--	--	--	--	71100	B-3401-77	Gravimetric . . . . .	133

Table 4.--Index of biological determinations--Continued

Parameter name Phase units Lab code	Applicable range	Precision (percent)			Parameter code	Method number	Abbreviated method name	Page
		Low	Med	Hi				
Seston, ash weight (mg/L) LC0612	--	--	--	--	71101	B-3401-77	Gravimetric . . . . .	133
Zooplankton ash weight (g/cu m) LC0584	--	--	--	--	70948	B-2520-77	Gravimetric . . . . .	140
Zooplankton dry weight (g/cu m) LC0583	--	--	--	--	70947	B-2520-77	Gravimetric . . . . .	140
Zooplankton taxonomic identification SH1515	--	--	--	--	70946	B-2501-77	Counting chamber method . . . . .	140

Table 5.--Inorganic determinations

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection Level
<u>Major ions</u>							
LC0001	Regular	71825	Acidity, dissolved (mg/L as H)	5.70	50 mL	RU*	0.1
LC0070	Regular	00410	Alkalinity, dissolved (mg/L as CaCO <sub>3</sub> )	3.10	50 mL	RU*	1.
LC0012	Regular	00915	Calcium, dissolved (mg/L as Ca)	4.10	50 mL	FA	.1
LC0831	Limited	00915	Calcium, dissolved (mg/L as Ca)	6.20	50 mL	FA	.01
LC0015	Regular	00940	Chloride, dissolved (mg/L as Cl)	2.95	25 mL	FU	.1
LC0835	Limited	00940	Chloride, dissolved (mg/L as Cl)	4.65	25 mL	FU	.01
LC0031	Regular	00950	Fluoride, dissolved (mg/L as F)	4.55	50 mL	FU	.1
LC0040	Regular	00925	Magnesium, dissolved (mg/L as Mg)	4.10	50 mL	FA	.1
LC0832	Limited	00925	Magnesium, dissolved (mg/L as Mg)	6.20	50 mL	FA	.01
LC0068	Regular	-----	pH, laboratory (standard units)	1.60	25 mL	RU	4.
LC0054	Regular	00935	Potassium, dissolved (mg/L as K)	2.95	50 mL	FA	.1
LC0833	Limited	00935	Potassium, dissolved (mg/L as K)	4.65	50 mL	FA	.01
LC0056	Regular	00955	Silica, dissolved (mg/L as SiO <sub>2</sub> )	2.95	25 mL	FA	.1
LC0059	Regular	00930	Sodium, dissolved (mg/L as Na)	2.95	50 mL	FA	.1
LC0834	Limited	00930	Sodium, dissolved (mg/L as Na)	4.65	50 mL	FA	.01
LC0063	Regular	00945	Sulfate, dissolved (mg/L as SO <sub>4</sub> )	5.05	50 mL	FU	5.
SHT003	Regular		Cations, major cations, dissolved	12.40	100 mL	FA	
		00915	Calcium, dissolved (mg/L as Ca)				0.1
		00925	Magnesium, dissolved (mg/L as Mg)				.1
		00935	Potassium, dissolved (mg/L as K)				.1
		00930	Sodium, dissolved (mg/L as Na)				.1
SHT009	Regular		Anions, dissolved	6.80	50 mL	FU	
		00940	Chloride, dissolved (mg/L as Cl)				0.1
		00945	Sulfate, dissolved (mg/L as SO <sub>4</sub> )				5.
SH1012	Regular		Anions, dissolved	14.30	150 mL	FU	
		00940	Chloride, dissolved (mg/L as Cl)				0.1
		00950	Fluoride, dissolved (mg/L as F)				.1
		00955	Silica, dissolved (mg/L as SiO <sub>2</sub> )				.1
		00945	Sulfate, dissolved (mg/L as SO <sub>4</sub> )				5.

\* FU or RU sample designation permitted

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and units of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Major ions--continued</u>							
SH1014	Regular		Anions, major anions, dissolved	20.35	200 mL	FU	
		00410	Alkalinity (mg/L as CaCO <sub>3</sub> )				1.
		00940	Chloride, dissolved (mg/L as Cl)				.1
		00950	Fluoride, dissolved (mg/L as F)				.1
		00631	Nitrite plus nitrate, dissolved (mg/L as N)				.1
		00955	Silica, dissolved (mg/L as SiO <sub>2</sub> )				.1
		00945	Sulfate, dissolved (mg/L as SO <sub>4</sub> )				5.
LC0244	Regular	-----	Calcium, total recoverable (mg/L as Ca)	7.80	50 mL	RA	0.1
LC0324	Regular	00916	Calcium, total recoverable (mg/L as Ca)*	10.55	100 mL	RAH	.1
LC0273	Regular	00951	Fluoride, total (mg/L as F)	15.55	250 mL	RU	.1
LC0261	Regular	-----	Magnesium, total recoverable (mg/L as Mg)	7.80	50 mL	RA	.1
LC0325	Regular	00927	Magnesium, total recoverable (mg/L as Mg)*	10.55	100 mL	RAH	.1
LC0321	Regular	-----	Potassium, total recoverable (mg/L as K)	6.70	50 mL	RA	.1
LC0327	Regular	00937	Potassium, total recoverable (mg/L as K)*	9.55	100 mL	RAH	.1
LC0320	Regular	-----	Sodium, total recoverable (mg/L as Na)	6.70	50 mL	RA	.1
LC0326	Regular	00929	Sodium, total recoverable (mg/L as Na)*	9.55	100 mL	RAH	.1
<u>Major nutrients</u>							
LC0268	Regular	00623	Nitrogen, ammonia plus organic, dissolved (mg/L as N)	7.75	250 mL	FC	0.1
LC0301	Regular	00608	Nitrogen, ammonia, dissolved (mg/L as N)	2.95	250 mL	FC	.01
LC0830	Limited	00608	Nitrogen, ammonia, dissolved (mg/L as N)	4.65	250 mL	FC	.001
LC0228	Regular	00631	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	2.95	250 mL	FC**	.1
LC0826	Limited	00631	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	4.65	250 mL	FC	.01
LC0160	Regular	00613	Nitrogen, nitrite, dissolved (mg/L as N)	2.95	250 mL	FC	.01
LC0827	Limited	00613	Nitrogen, nitrite, dissolved (mg/L as N)	4.65	250 mL	FC	.001

\* EPA extraction procedure

\*\* FU sample designation permitted

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Major nutrients--continued</u>							
SH1036	Regular		Nitrogen, dissolved	7.50	250 mL	FC	
		00608	Nitrogen, ammonia, dissolved (mg/L as N)				0.01
		00631	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)				.1
		00613	Nitrogen, nitrite, dissolved (mg/L as N)				.01
LC0128	Regular	00666	Phosphorus, dissolved (mg/L as P)	8.30	250 mL	FC*	0.01
LC0829	Limited	00666	Phosphorus, dissolved (mg/L as P)	12.40	250 mL	FC	.001
LC0280	Regular	00672	Phosphorus, hydrolyzable, dissolved (mg/L as P)	8.30	250 mL	FC	.01
LC0162	Regular	00671	Phosphorus, orthophosphate, dissolved (mg/L as P)	2.95	250 mL	FC	.01
LC0828	Limited	00671	Phosphorus, orthophosphate, dissolved (mg/L as P)	4.65	250 mL	FC	.001
SH1031	Regular		Nitrite plus nitrate and orthophosphate, dissolved	5.00	250 mL	FC	
		00631	Nitrite plus nitrate, dissolved (mg/L as N)				0.1
		00671	Phosphorus, orthophosphate, dissolved (mg/L as N)				.01
SH1037	Regular		Nitrogen and phosphorus, dissolved	16.60	250 mL	FC	
		00623	Nitrogen, ammonia plus organic, dissolved (mg/L as N)				0.1
		00631	Nitrogen, nitrite plus nitrite, dissolved (mg/L as N)				.1
		00666	Phosphorus, dissolved (mg/L as P)				.01
SH1032	Regular		Nitrogen and phosphorus, dissolved	19.55	250 mL	FC	
		00623	Nitrogen, ammonia plus organic, dissolved (mg/L as N)				.1
		00608	Nitrogen, ammonia, dissolved (mg/L as N)				.01
		00631	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)				0.1
		00666	Phosphorus, dissolved (mg/L as P)				.01
LC0084	Regular	00625	Nitrogen, ammonia plus organic, total (mg/L as N)	7.75	250 mL	RC	0.1
LC0123	Regular	00610	Nitrogen, ammonia, total (mg/L as N)	4.60	250 mL	RC	.01
LC0836	Limited	00610	Nitrogen, ammonia, total (mg/L as N)	7.00	250 mL	RC	.001
LC0303	Regular	00620	Nitrogen, nitrate, total (mg/L as N)	6.00	250 mL	RC	.1
LC0304	Regular	00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)	2.95	250 mL	RC**	.1

\* FU sample designation permitted

\*\* RU sample designation permitted

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample Designation	Detection level
<u>Major nutrients--continued</u>							
LC0839	Limited	00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)	4.65	250 mL	RC	0.001
LC0302	Regular	00615	Nitrogen, nitrite, total (mg/L as N)	2.95	250 mL	RC	.01
LC0840	Limited	00615	Nitrogen, nitrite, total (mg/L as N)	4.65	250 mL	RC	.001
SH1038	Regular		Nitrogen, total	8.95	250 mL	RC	
		00610	Nitrogen, ammonia, total (mg/L)				0.01
		00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)				.1
		00615	Nitrogen, nitrite, total (mg/L as N)				.01
LC0283	Regular	00669	Phosphorus, hydrolyzable, total (mg/L as P)	8.30	250 mL	RC	0.01
LC0297	Regular	70507	Phosphorus, orthophosphate, total (mg/L as P)	2.95	250 mL	RC	.01
LC0838	Limited	70507	Phosphorus, orthophosphate, total (mg/L as P)	4.65	250 mL	RC*	0.001
LC0129	Regular	00665	Phosphorus, total (mg/L as P)	8.30	250 mL	RC	.01
LC0837	Limited	00665	Phosphorus, total (mg/L as P)	12.40	250 mL	RC	.001
SH1039	Regular		Nitrogen and orthophosphate, total	11.80	250 mL	RC	
		00610	Nitrogen, ammonia, total (mg/L as N)				0.01
		00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)				.1
		00615	Nitrogen, nitrite, total (mg/L as N)				.01
		70507	Phosphorus, orthophosphate, total (mg/L as N)				.01
SH1040	Regular		Nitrogen and phosphorus, total	13.00	250 mL	RC	
		00625	Nitrogen, ammonia plus organic, total (mg/L as N)				0.1
		00665	Phosphorus, total (mg/L as P)				.01
SH1133	Regular		Nitrogen and phosphorus, total	20.05	250 mL	RC	
		00625	Nitrogen, ammonia plus organic, total (mg/L as N)				0.1
		00610	Nitrogen, ammonia, total (mg/L)				.01
		00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)				.1
		00665	Phosphorus, total (mg/L as P)				.01

\* RU sample designation permitted



Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Trace constituents</u>							
SH1134	Regular		Nitrogen species and phosphorus, total	21.95	250 mL	RC	
		00625	Nitrogen, ammonia plus organic, total (mg/L as N)				0.1
		00610	Nitrogen, ammonia, total (mg/L as N)				.01
		00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)				.1
		00615	Nitrogen, nitrite, total (mg/L as N)				.01
		00665	Phosphorus, total (mg/L as P)				.01
SH1135	Regular		Nitrogen species and phosphorus, total	24.90	250 mL	RC	
		00625	Nitrogen, ammonia plus organics, total (mg/L as N)				0.1
		00610	Nitrogen, ammonia, total (mg/L as N)				.01
		00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)				.1
		00615	Nitrogen, nitrite, total (mg/L as N)				.01
		70507	Phosphorus, orthophosphate, total (mg/L as P)				.01
		00665	Phosphorus, total (mg/L as P)				.01
LC0099	Regular	01106	Aluminum, dissolved (ug/L as Al)	6.60	25 mL	FA	100
LC0004	Regular	01106	Aluminum, dissolved (ug/L as Al)	12.65	200 mL	FA	10
LC0077	Regular	01095	Antimony, dissolved (ug/L as Sb)	13.20	200 mL	FA	1
LC0112	Regular	01000	Arsenic, dissolved (ug/L as As)	13.20	50 mL	FA	1
LC0007	Regular	01005	Barium, dissolved (ug/L as Ba)	7.80	25 mL	FA	100
LC0170	Regular	01010	Beryllium, dissolved (ug/L as Be)	7.80	25 mL	FA	10
LC0255	Regular	01020	Boron, dissolved (ug/L as B)	7.75	25 mL	FU	100
LC0010	Regular	01020	Boron, dissolved (ug/L as B)	7.75	25 mL	FU	20
LC0222	Regular	71870	Bromide, dissolved (mg/L as Br)	15.00	500 mL	FU	1
LC0011	Regular	71870	Bromide, dissolved (mg/L as Br)	15.00	50 mL	FU	.01
LC0126	Regular	01025	Cadmium, dissolved (ug/L as Cd)	5.40	25 mL	FA	10
LC0073	Regular	01025	Cadmium, dissolved (ug/L as Cd)	11.45	200 mL	FA	1
LC0705	Custom	01025	Cadmium, dissolved (ug/L as Cd)	19.85	50 mL	FAB	.01
LC0017	Regular	01030	Chromium, dissolved (ug/L as Cr)	7.80	50 mL	FA	10
LC0146	Regular	01030	Chromium, dissolved (ug/L as Cr)	14.40	200 mL	FA	1
LC0706	Custom	01030	Chromium, dissolved (ug/L as Cr)	19.85	50 mL	FAB	.2
LC0016	Regular	01032	Chromium, hexavalent, dissolved (ug/L as Cr)	11.45	200 mL	FA	1
LC0148	Regular	01035	Cobalt, dissolved (ug/L as Co)	5.40	25 mL	FA	50
LC0018	Regular	01035	Cobalt, dissolved (ug/L as Co)	11.45	200 mL	FA	1
LC0707	Custom	01035	Cobalt, dissolved (ug/L as Co)	19.85	50 mL	FAB	.2
LC0151	Regular	01040	Copper, dissolved (ug/L as Cu)	5.40	25 mL	FA	10

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Trace constituents--continued</u>							
LC0022	Regular	01040	Copper, dissolved (ug/L as Cu)	11.45	200 mL	FA	1
LC0701	Custom	01040	Copper, dissolved (ug/L as Cu)	19.85	50 mL	FAB	.2
LC0880	Regular	-----	Cyanide, dissolved (mg/L as Cn)	14.40	50 mL	LC0880	.01
LC0164	Regular	71865	Iodide, dissolved (mg/L as I)	15.00	500 mL	FU	1
LC0035	Regular	71865	Iodide, dissolved (mg/L as I)	15.00	50 mL	FU	.001
LC0172	Regular	01046	Iron, dissolved (ug/L as Fe)	2.95	25 mL	FA	10
LC0191	Regular	01049	Lead, dissolved (ug/L as Pb)	5.40	25 mL	FA	100
LC0038	Regular	01049	Lead, dissolved (ug/L as Pb)	11.45	200 mL	FA	1
LC0702	Custom	01049	Lead, dissolved (ug/L as Pb)	19.85	50 mL	FAB	.1
LC0039	Regular	01130	Lithium, dissolved (ug/L as Li)	2.95	25 mL	FA	10
LC0042	Regular	01056	Manganese, dissolved (ug/L as Mn)	2.95	25 mL	FA	10
LC0193	Regular	01056	Manganese, dissolved (ug/L as Mn)	11.45	200 mL	FA	1
LC0226	Regular	71890	Mercury, dissolved (ug/L as Hg)	13.20	50 mL	FA	.1
LC0110	Regular	01060	Molybdenum, dissolved (ug/L as Mo)	12.05	200 mL	FA	1
LC0197	Regular	01065	Nickel, dissolved (ug/L as Ni)	5.40	25 mL	FA	100
LC0044	Regular	01065	Nickel, dissolved (ug/L as Ni)	11.45	200 mL	FA	1
LC0703	Custom	01065	Nickel, dissolved (ug/L as Ni)	19.85	50 mL	FAB	1
LC0087	Regular	01145	Selenium, dissolved (ug/L as Se)	13.20	200 mL	FA	1
LC0166	Regular	01075	Silver, dissolved (ug/L as Ag)	11.45	200 mL	FA	1
LC0708	Custom	01075	Silver, dissolved (ug/L as Ag)	19.85	50 mL	FAB	.02
LC0062	Regular	01080	Strontium, dissolved (ug/L as Sr)	6.20	25 mL	FA	10
LC0225	Regular	01100	Tin, dissolved (ug/L as Sn)	16.20	100 mL	FA	100
LC0453	Limited	22703	Uranium, dissolved (ug/L as U)	19.20	1 L	FAC	.4
LC0796	Limited	22703	Uranium, dissolved (ug/L as U)	20.40	1 L	RUC	.4
LC0454	Limited	80020	Uranium, dissolved (ug/L as U)	30.00	1 L	FAC	.01
LC0797	Limited	80020	Uranium, dissolved (ug/L as U)	31.25	1 L	RUC	.01
LC0111	Custom	01085	Vanadium, dissolved (ug/L as V)	15.55	25 mL	FU	.1
LC0067	Regular	01090	Zinc, dissolved (ug/L as Zn)	4.10	25 mL	FA	10
LC0704	Custom	01090	Zinc, dissolved (ug/L as Zn)	19.85	50 mL	FAB	.03
SH1044	Regular		Iron and manganese, dissolved	5.00	50 mL	FA	
		01046	Iron, dissolved (ug/L as Fe)				10
		01056	Manganese, dissolved (ug/L as Mn)				10

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Trace constituents--continued</u>							
SH1043	Limited		Metals, trace metals, dissolved	65.00	100 mL	FA	*
		01005	Barium, dissolved (ug/L as Ba)				6
		01010	Beryllium, dissolved (ug/L as Be)				2
		01025	Cadmium, dissolved (ug/L as Cd)				3
		00915	Calcium, dissolved (mg/L as Ca)				.06
		01035	Cobalt, dissolved (ug/L as Co)				9
		01040	Copper, dissolved (ug/L as Cu)				30
		01046	Iron, dissolved (ug/L as Fe)				9
		01049	Lead, dissolved (ug/L as Pb)				30
		01130	Lithium, dissolved (ug/L as Li)				12
		00925	Magnesium, dissolved (mg/L as Mg)				.012
		01056	Manganese, dissolved (ug/L as Mn)				3
		01060	Molybdenum, dissolved (ug/L as Mo)				30
		00955	Silica, dissolved (mg/L as SiO <sub>2</sub> )				.02
		00930	Sodium, dissolved (mg/L as Na)				.60
		01080	Strontium, dissolved (ug/L as Sr)				2
		01085	Vanadium, dissolved (ug/L as V)				18
		01090	Zinc, dissolved (ug/L as Zn)				12

\* These detection levels are improved by a factor of three if the conductance is less than 2000 umhos/cm. The sample conductance must be less than 6000 umhos/cm if this schedule is requested.

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Trace constituents--continued</u>							
SH1090	Limited		Metals, trace metals, semiquantitative-dissolved	45.00	100 mL	FA	
			Aluminum, dissolved (ug/L as Al)				50
			Antimony, dissolved (ug/L as Sb)				30
			Barium, dissolved (ug/L as Ba)				5
			Beryllium, dissolved (ug/L as Be)				1
			Bismuth, dissolved (ug/L as Bi)				1000
			Boron, dissolved (ug/L as B)				5
			Cadmium, dissolved (ug/L as Cd)				1
			Calcium, dissolved (mg/L as Ca)				1
			Chromium, dissolved (ug/L as Cr)				50
			Cobalt, dissolved (ug/L as Co)				5
			Copper, dissolved (ug/L as Cu)				10
			Gallium, dissolved (ug/L as Ga)				30
			Germanium, dissolved (ug/L as Ge)				30
			Iron, dissolved (ug/L as Fe)				5
			Lead, dissolved (ug/L as Pb)				30
			Lithium, dissolved (ug/L as Li)				5
			Magnesium, dissolved (mg/L as Mg)				1
			Manganese, dissolved (ug/L as Mn)				1
			Molybdenum, dissolved (ug/L as Mo)				10
			Nickel, dissolved (ug/L as Ni)				50
			Potassium, dissolved (mg/L as K)				1
			Silica, dissolved (mg/L as SiO <sub>2</sub> )				.09
			Silver, dissolved (ug/L as Ag)				10
			Sodium, dissolved (mg/L as Na)				1
			Strontium, dissolved (ug/L as Sr)				5
			Tin, dissolved (ug/L as Sn)				50
			Titanium, dissolved (ug/L as Ti)				5
			Vanadium, dissolved (ug/L as V)				10
			Zinc, dissolved (ug/L as Zn)				10
			Zirconium, dissolved (ug/L as Zr)				5

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Trace constituents--continued</u>							
LC0239	Limited	-----	Arsenic, suspended total (ug/g as As)	13.20	--	LC0239	1
LC0109	Regular	01105	Aluminum, total recoverable (ug/L as Al)	10.20	50 mL	RA	100
LC0003	Regular	01105	Aluminum, total recoverable (ug/L as Al)	16.20	200 mL	RA	10
LC0080	Regular	01097	Antimony, total (ug/L as Sb)	13.20	200 mL	RAH	1
LC0118	Regular	01002	Arsenic, total (ug/L as As)	13.20	100 mL	RAH	1
LC0234	Regular	01007	Barium, total recoverable (ug/L as Ba)	11.45	50 mL	RA	100
LC0236	Regular	01012	Beryllium, total recoverable (ug/L as Be)	11.45	50 mL	RA	10
LC0595	Regular	01022	Boron, total recoverable (ug/L as B)	11.45	50 mL	RA	100
LC0271	Regular	01022	Boron, total recoverable (ug/L as B)	11.45	50 mL	RA	20
LC0131	Regular	01027	Cadmium, total recoverable (ug/L as Cd)	9.00	50 mL	RA	10
LC0242	Regular	01027	Cadmium, total recoverable (ug/L as Cd)	15.00	200 mL	RA	1
LC0713	Custom	01027	Cadmium, total recoverable (ug/L as Cd)	23.80	200 mL	RAB	.01
LC0246	Regular	01034	Chromium, total recoverable (ug/L as Cr)	11.45	50 mL	RA	100
LC0147	Regular	01034	Chromium, total recoverable (ug/L as Cr)	17.80	200 mL	RA	1
LC0714	Custom	01034	Chromium, total recoverable (ug/L as Cr)	23.80	200 mL	RAB	.2
LC0149	Regular	01037	Cobalt, total recoverable (ug/L as Co)	9.00	50 mL	RA	50
LC0248	Regular	01037	Cobalt, total recoverable (ug/L as Co)	15.00	200 mL	RA	1
LC0715	Custom	01037	Cobalt, total recoverable (ug/L as Co)	23.80	200 mL	RAB	.2
LC0156	Regular	01042	Copper, total recoverable (ug/L as Cu)	9.00	50 mL	RA	10
LC0250	Regular	01042	Copper, total recoverable (ug/L as Cu)	15.00	200 mL	RA	1
LC0709	Custom	01042	Copper, total recoverable (ug/L as Cu)	23.80	200 mL	RAB	.2
LC0023	Regular	00720	Cyanide, total recoverable (mg/L as CN)	14.40	50 mL	LC0023	.01
LC0189	Regular	01045	Iron, total recoverable (ug/L as Fe)	6.60	50 mL	RA	10
LC0192	Regular	01051	Lead, total recoverable (ug/L as Pb)	9.00	50 mL	RA	100
LC0257	Regular	01051	Lead, total recoverable (ug/L as Pb)	15.00	200 mL	RA	1
LC0710	Custom	01051	Lead, total recoverable (ug/L as Pb)	23.80	200 mL	RAB	.1
LC0277	Regular	01132	Lithium, total recoverable (ug/L as Li)	6.60	50 mL	RA	10
LC0041	Regular	01055	Manganese, total recoverable (ug/L as Mn)	6.60	50 mL	RA	10
LC0227	Regular	71900	Mercury, total recoverable (ug/L as Hg)	12.00	200 mL	RAH	0.5
LC0265	Regular	01062	Molybdenum, total recoverable (ug/L as Mo)	15.00	200 mL	RA	1
LC0198	Regular	01067	Nickel, total recoverable (ug/L as Ni)	9.00	50 mL	RA	100

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Trace constituents--continued</u>							
LC0267	Regular	01067	Nickel, total recoverable (ug/L as Ni)	15.00	200 mL	RA	1
LC0711	Custom	01067	Nickel, total recoverable (ug/L as Ni)	23.80	200 mL	RAB	1
LC0076	Regular	00340	Oxygen demand, chemical (mg/L)	12.20	100 mL	LC0076	10
LC0286	Regular	01147	Selenium, total (ug/L as Se)	13.20	200 mL	RAH	1
LC0288	Regular	01077	Silver, total recoverable (ug/L as Ag)	15.00	200 mL	RA	1
LC0716	Custom	01077	Silver, total recoverable (ug/L as Ag)	23.80	200 mL	RAB	.02
LC0290	Regular	01082	Strontium, total recoverable (ug/L as Sr)	9.85	50 mL	RA	10
LC0089	Regular	00745	Sulfide, total (mg/L as S)	7.75	250 mL	LC0089	.5
LC0292	Regular	01102	Tin, total recoverable (ug/L as Sn)	9.85	100 mL	RA	100
LC0618	Limited	28011	Uranium, total (ug/L)	20.80	1 L	RUC	.4
LC0296	Regular	01092	Zinc, total recoverable (ug/L as Zn)	7.80	50 mL	RA	10
LC0712	Custom	01092	Zinc, total recoverable (ug/L as Zn)	23.80	200 mL	RAB	.03
SH1045	Regular		Metals, trace metals, total recoverable	38.00	200 mL	RA	
		01027	Cadmium, total recoverable (ug/L as Cd)				1
		01042	Copper, total recoverable (ug/L as Cu)				1
		01051	Lead, total recoverable (ug/L as Pb)				1
SH1046	Regular		Metals, trace metals, total recoverable	64.00	200 mL	RA	
		01027	Cadmium, total recoverable (ug/L as Cd)				1
		01037	Cobalt, total recoverable (ug/L as Co)				1
		01042	Copper, total recoverable (ug/L as Cu)				1
		01051	Lead, total recoverable (ug/L as Pb)				1
		01067	Nickel, total recoverable (ug/L as Ni)				1

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Physical properties of water</u>							
LC0024	Regular	71820	Density (g/mL at 20°C)	7.80	100 mL	FU	.99
LC0159	Regular	00515	Solids, residue at 105-110°C, dissolved (mg/L)	7.80	250 mL	FU	1
LC0027	Regular	70300	Solids, residue on evaporation at 180°C, dissolved (mg/L)	7.80	250 mL	FU	1
LC0229	Regular	00520	Solids, volatile on ignition, dissolved (mg/L)	7.80	250 mL	FU	1
SH1047	Regular	70300	Solids, dissolved	13.30	250 mL	FU	
			Solids, residue on evaporation at 180°C, dissolved (mg/L)				1
	Regular	05200	Solids, volatile on ignition, dissolved (mg/L)				1
LC0069	Regular	-----	Specific conductance, laboratory (micromhos per cm at 25°C)	1.60	50 mL	RU	--
LC0169	Regular	00530	Solids, residue at 105-110°C, suspended (mg/L)	7.80	250 mL	LC0169	1
LC0049	Regular	00535	Solids, volatile on ignition, suspended (mg/L)	7.80	250 mL	LC0169	1
LC0050	Regular	00076	Turbidity, nephelometer (nephelometric turbidity)	1.55	50 mL	LC0050	1
LC0020	Regular	00080	Color, (Platinum-cobalt units)	1.55	100 mL	RCB	1
LC0165	Regular	00500	Solids, residue at 105-110°C, total (mg/L)	7.80	250 mL	RU	1
LC0085	Regular	00505	Solids, volatile on ignition, total (mg/L)	7.80	250 mL	RU	1
<u>Radiochemical</u>							
LC0439	Limited	28004	Carbon 14, apparent age (years)	275.00	220 L	LC0439	40,000
LC0960	Custom	28403	Cesium-137, dissolved (pCi/L as Cs-137)	48.00	4 L	FAC	1.0
LC0934	Custom	28005	Cesium, radiocesium, dissolved (pCi/L as Cs-137)				
LC0461	Custom	-----	Cobalt-60, dissolved (pCi/L as Co-60)	60.10	4 L	FAC	1.5
LC0800	Regular	80030	Gross alpha radioactivity, dissolved (ug/L as U natural)	36.60	2 L	FAC	0.4
LC0444	Regular	80030	Gross alpha radioactivity, dissolved (ug/L as U natural)	36.60	2 L	RUC	.4
LC0798	Regular	03515	Gross beta radioactivity, dissolved (pCi/L as Cs-137)	36.60	2 L	FAC	.4
LC0455	Regular	03515	Gross beta radioactivity, dissolved (pCi/L as Cs-137)	40.20	2 L	RUC	.4
LC0448	Custom	17507	Lead-210, dissolved (pCi/L as Pb-210)	48.00	600 mL	FAC	2.0
LC0799	Limited	09510	Radium-226, dissolved (pCi/L as Ra-226)	31.20	1 L	FAC	0.1

Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<b>Radiochemical--continued</b>							
LC0458	Limited	09510	Radium-226, dissolved (pCi/L as Ra-226)	31.35	1 L	RUC	.1
LC0794	Limited	09511	Radium-226, dissolved (pCi/L as Ra-226)	48.00	1 L	FAC	.01
LC0449	Limited	09511	Radium-226, dissolved (pCi/L as Ra-226)	49.25	1 L	RUC	.01
LC0850	Limited	-----	Radium-228, dissolved (pCi/L as Ra-228)	96.00	1 L	FAC	5.
LC0490	Limited	-----	Radon-222, dissolved (pCi/L)	36.00	50 mL	LC0490	2.0
LC0491	Limited	-----	Radon-222 dissolved gas (pCi/L)	24.00	50 mL	LC0491	
LC0937	Custom	28008	Ruthenium, radoruthenium, dissolved (pCi/L as Ru-106)				.5
LC0940	Custom	-----	Strontium-89, dissolved (pCi/L as Sr-90)				
LC0795	Regular	13503	Strontium-90, dissolved (pCi/L as Sr-90)	60.75	1 L	FAC	.5
LC0450	Limited	13503	Strontium-90, dissolved (pCi/L as Sr-90)	62.00	1 L	RUC	.5
LC0935	Custom	28006	Cesium, radiocesium, suspended (pCi/L as Cs-137)				
LC0446	Regular	80040	Gross alpha radioactivity, suspended	12.00	2 L	RUC	.4
LC0456	Regular	03516	Gross beta radioactivity, suspended (pCi/L as Cs-137)	12.00	2 L	RUC	.4
LC0938	Custom	28009	Ruthenium, radoruthenium, suspended (pCi/L as Ru-106)				
LC0936	Custom	28007	Cesium, radiocesium, total (pCi/L as Cs-137)				
LC0209	Limited	-----	Gross alpha radioactivity, total (ug/L as U natural)	36.60	2 L	RUC	0.4
LC0210	Limited	-----	Gross beta radioactivity, total (pCi/L as Cs-137)	36.60	2 L	RUC	.4
LC0851	Limited	-----	Radium-228, total (pCi/L as Ra-228)	97.00	1 L	RUC	5.
LC0939	Custom	28010	Ruthenium, radioactive, total (pCi/L as Ru-106)				
LC0881	Limited	07000	Tritium, total (pCi/L)	90.00	100 mL	LC0452	100.
LC0452	Limited	07000	Tritium, total (pCi/L)	36.00	50 mL	LC0452	250.
LC0460	Limited	07000	Tritium, total (pCi/L)	190.00	100 mL	LC0452	5.
SH1405	Regular		Gross radioactivity, dissolved and suspended	44.40	2 L	RUC	
		80030	Gross alpha radioactivity, dissolved (ug/L as U natural)				0.4
							.4
		03515	Gross beta radioactivity, dissolved (pCi as Cs-137)				.4
		80050	Gross beta radioactivity, dissolved (pCi as Sr-90/Y-90)				.4
		80040	Gross alpha radioactivity, suspended (ug/L as U natural)				.4
		03516	Gross beta radioactivity, suspended (pCi as Cs-137)				.4
		80060	Gross beta radioactivity, suspended (pCi as Sr-90/Y-90)				.4



Table 5.--Inorganic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Radiochemical--continued</u>							
SHT403	Limited		Gross radioactivity, total	36.80	2 L	RUC	
		-----	Gross alpha radioactivity, total (ug/L as U natural)				0.4*
		-----	Gross beta radioactivity, total (pCi as Cs-137)				.4
		-----	Gross beta radioactivity, total (pCi as Sr-90/Y-90)				.4
<u>Isotope ratios</u>							
LC0440	Limited	-----	Carbon-13/carbon-12, stable isotope ratio per mil	45.00	2 L	LC0440	--
LC0300	Limited	-----	Deuterium/protium (hydrogen-2/hydrogen-1) stable isotope ratio per mil	45.00	50 mL	LC0300	--
LC0996	Custom	-----	Lithium-7/lithium-6, stable ratio per mil	25.00	50 mL	LC0996	--
LC0995	Custom	-----	Nitrogen-15/nitrogen-14, stable isotope ratio per mil	45.00	50 mL	LC0995	--
LC0489	Limited	-----	Oxygen-18/oxygen-16, stable isotope ratio per mil	45.00	50 mL	LC0489	--
LC0298	Limited	-----	Sulfur-34/sulfur-32, stable isotope ratio per mil	110.00	-----	LC0298	--
LC0997	Custom	-----	Uranium-238/uranium-234, ratio	-----	-----	LC0997	--

\* Can not have suspended sediment concentrations above 10 mg/L and achieve this detection level.

Table 6.--Organic determinations

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Gross measures</u>							
LC0306	Regular	00691	Carbon, inorganic, dissolved (mg/L as C)	11.30	100 mL	LC0113	-----
LC0113	Regular	00681	Carbon, organic, dissolved (mg/L as C)	11.30	100 mL	LC0113	-----
LC0305	Regular	00689	Carbon, organic, suspended (mg/L as C)	11.30	-----	LC0305	-----
LC0019	Regular	00685	Carbon, inorganic, total (mg/L as C)	11.30	100 mL	LC0114	-----
LC0114	Regular	00680	Carbon, organic, total (mg/L as C)	11.30	100 mL	LC0114	-----
LC0096	Regular	38260	Methylene blue active substance, total (mg/L as MBAS)	12.10	250 mL	RCB	-----
LC0127	Regular	00556	Oil and grease, total (mg/L)	15.10	500 mL	LC0127	-----
LC0052	Regular	32730	Phenols, total (ug/L as phenol)	13.20	1000 mL	LC0052	-----
LC0138	Regular	32240	Tannin and lignin, total (mg/L as tannic acid)	12.10	100 mL	RCB	-----
<u>Confirmation of pesticides, industrial compounds and munition products</u>							
LC1001	Regular	-----	Confirmation by GC-MS	*	-----	-----	-----
<u>Carbamate insecticides</u>							
LC0638	Custom	39051	Methomyl, total (ug/L)	33.00	-----	GCM	-----
LC0637	Custom	39052	Propham, total (ug/L)	33.00	-----	GCM	-----
LC0636	Custom	39750	Sevin, total (ug/L)	33.00	-----	GCM	-----
<u>Chlorinated phenoxy and acid herbicides</u>							
LC0477	Regular	39732	2, 4-D, dissolved (ug/L)	75.00	800 mL	GCH	0.01
LC0487	Regular	-----	2, 4-DP, dissolved (ug/L)	75.00	800 mL	GCH	.01
LC0479	Regular	39762	Silvex, dissolved (ug/L)	75.00	800 mL	GCH	.01
LC0478	Regular	39742	2, 4, 5-T, dissolved (ug/L)	75.00	800 mL	GCH	.01

\* Cost will vary depending on the number of compounds with positive values that require confirmation. There will be no charge if confirmation is not needed.

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Chlorinated phenoxy and acid herbicides--continued</u>							
SH1301	Regular		Chlorinated phenoxy acid herbicides, dissolved	82.00	800 mL	GCH	
		39732	2, 4-D, dissolved (ug/L)				0.01
		-----	2, 4-DP, dissolved (ug/L)				.01
		39762	Silvex, dissolved (ug/L)				.01
		39742	2, 4, 5-T, dissolved (ug/L)				.01
LC0480	Regular	39733	2, 4-D, suspended (ug/L)	75.00	800 mL	GCH	0.01
LC0486	Regular	-----	2, 4-DP, suspended (ug/L)	75.00	800 mL	GCH	.01
LC0482	Regular	39763	Silvex, suspended (ug/L)	75.00	800 mL	GCH	.01
LC0481	Regular	39743	2, 4, 5-T, suspended (ug/L)	75.00	800 mL	GCH	.01
SH1302	Regular		Chlorinated phenoxy acid herbicides, suspended	82.00	800 mL	GCH	
		39733	2, 4-D, suspended (ug/L)				0.01
		-----	2, 4, DP, suspended (ug/L)				.01
		39763	Silvex, suspended (ug/L)				.01
		39743	2, 4, 5-T, suspended (ug/L)				.01
LC0101	Regular	39730	2, 4-D, total (ug/L)	128.00	800 mL	GCH	0.01
LC0372	Regular	39730	2, 4-D, total (ug/L)	90.60	800 mL	GCH	.01
LC0749	Limited	-----	Dicamba, total (ug/L)	33.00	800 mL	GCH	.01
LC0104	Regular	-----	2, 4-DP, total (ug/L)	128.00	800 mL	GCH	.01
LC0402	Regular	-----	2, 4-DP, total (ug/L)	90.60	800 mL	GCH	.01
LC0748	Limited	-----	Picloram, total (ug/L)	33.00	800 mL	GCH	.01
LC0103	Regular	39760	Silvex, total (ug/L)	128.00	800 mL	GCH	.01
LC0374	Regular	39760	Silvex, total (ug/L)	90.60	800 mL	GCH	.01
LC0102	Regular	39740	2, 4, 5-T, total (ug/L)	128.00	800 mL	GCH	.01
LC0373	Regular	39740	2, 4, 5-T, total (ug/L)	90.60	800 mL	GCH	.01
SH1303	Regular		Chlorinated phenoxy acid herbicides, dissolved plus suspended	140.00	800 mL	GCH	
		39730	2, 4-D, total (ug/L)				0.01
		-----	2, 4-DP, total (ug/L)				.01
		30760	Silvex, total (ug/L)				.01
		39740	2, 4, 5-T, total (ug/L)				.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Chlorinated phenoxy and acid herbicides--continued</u>							
SH1304	Regular		Chlorinated phenoxy acid herbicides, total	94.00	800 mL	GCH	
		39730	2, 4-D, total (ug/L)				0.01
		-----	2, 4-DP, total (ug/L)				.01
		39760	Silvex, total (ug/L)				.01
		39740	2, 4, 5-T, total (ug/L)				.01
<u>Industrial chemicals</u>							
LC0787	Regular	-----	Aroclor 1016, dissolved (ug/L as Aroclor 1016)	80.00	800 mL	GCI	0.1
LC0783	Regular	-----	Aroclor 1221, dissolved (ug/L as Aroclor 1221)	80.00	800 mL	GCI	.1
LC0779	Regular	-----	Aroclor 1232, dissolved (ug/L as Aroclor 1232)	80.00	800 mL	GCI	.1
LC0775	Regular	-----	Aroclor 1242, dissolved (ug/L as Aroclor 1242)	80.00	800 mL	GCI	.1
LC0771	Regular	39501	Aroclor 1248, dissolved (ug/L as Aroclor 1248)	80.00	800 mL	GCI	.1
LC0767	Regular	39505	Aroclor 1254, dissolved (ug/L as Aroclor 1254)	80.00	800 mL	GCI	.1
LC0763	Regular	39509	Aroclor 1260, dissolved (ug/L as Aroclor 1260)	80.00	800 mL	GCI	.1
LC0474	Regular	39517	Gross polychlorinated biphenyls, dissolved (ug/L as PCB)	80.00	800 mL	GCI	0.1
LC0475	Regular	-----	Gross polychlorinated naphthalenes, dissolved (ug/L as PCN)	80.00	800 mL	GCI	.1
SH1361	Regular		Aroclors of polychlorinated biphenyl, dissolved	81.00	800 mL	GCI	
		-----	Aroclor 1016, dissolved (ug/L as Aroclor 1016)				0.1
		-----	Aroclor 1221, dissolved (ug/L as Aroclor 1221)				.1
		-----	Aroclor 1232, dissolved (ug/L as Aroclor 1232)				.1
		-----	Aroclor 1242, dissolved (ug/L as Aroclor 1242)				.1
		39501	Aroclor 1248, dissolved (ug/L as Aroclor 1248)				.1
		39505	Aroclor 1254, dissolved (ug/L as Aroclor 1254)				.1
		39509	Aroclor 1260, dissolved (ug/L as Aroclor 1260)				.1

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Industrial chemicals--continued</u>							
LC0788	Regular	-----	Aroclor 1016, suspended (ug/L as Aroclor 1016)	145.00	800 mL	GCI	0.1
LC0784	Regular	-----	Aroclor 1221, suspended (ug/L as Aroclor 1221)	145.00	800 mL	GCI	.1
LC0780	Regular	-----	Aroclor 1232, suspended (ug/L as Aroclor 1232)	145.00	800 mL	GCI	.1
LC0776	Regular	-----	Aroclor 1242, suspended (ug/L as Aroclor 1242)	145.00	800 mL	GCI	.1
LC0772	Regular	39502	Aroclor 1248, suspended (ug/L as Aroclor 1248)	145.00	800 mL	GCI	.1
LC0768	Regular	39506	Aroclor 1254, suspended (ug/L as Aroclor 1254)	145.00	800 mL	GCI	.1
LC0764	Regular	39510	Aroclor 1262, suspended (ug/L as Aroclor 1260)	145.00	800 mL	GCI	.1
LC0414	Regular	39518	Gross polychlorinated biphenyls, suspended (ug/L as PCB)	145.00	800 mL	GCI	0.1
LC0415	Regular	-----	Gross polychlorinated naphthalenes, suspended (ug/L as PCN)	142.50	800 mL	GCI	.1
SH1362	Regular		Aroclors of polychlorinated biphenyls, suspended	81.00	800 mL	GCI	
		-----	Aroclor 1016, suspended (ug/L as Aroclor 1016)				0.1
		-----	Aroclor 1221, suspended (ug/L as Aroclor 1221)				.1
		-----	Aroclor 1232, suspended (ug/L as Aroclor 1232)				.1
		-----	Aroclor 1242, suspended (ug/L as Aroclor 1242)				.1
		39502	Aroclor 1248, suspended (ug/L as Aroclor 1248)				.1
		39506	Aroclor 1254, suspended (ug/L as Aroclor 1254)				.1
		39510	Aroclor 1262, suspended (ug/L as Aroclor 1260)				.1
LC0789	Regular	-----	Aroclor 1016, total (ug/L as Aroclor 1016)	123.00	800 mL	GCI	0.1
LC0896	Regular	-----	Aroclor 1016, total (ug/L as Aroclor 1016)	68.64	1600 mL	GCI	50
LC0785	Regular	-----	Aroclor 1221, total (ug/L as Aroclor 1221)	123.00	800 mL	GCI	.1
LC0897	Regular	-----	Aroclor 1221, total (ug/L as Aroclor 1221)	68.64	1600 mL	GCI	50
LC0781	Regular	-----	Aroclor 1232, total (ug/L as Aroclor 1232)	123.00	800 mL	GCI	.1

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Industrial chemicals--continued</u>							
LC0898	Regular	-----	Aroclor 1232, total (ug/L as Aroclor 1232)	68.64	1600 mL	GCI	50
LC0777	Regular	-----	Aroclor 1242, total (ug/L as Aroclor 1242)	123.00	800 mL	GCI	.1
LC0899	Regular	-----	Aroclor 1242, total (ug/L as Aroclor 1242)	68.64	1600 mL	GCI	50
LC0773	Regular	39500	Aroclor 1248, total (ug/L as Aroclor 1248)	123.00	800 mL	GCI	.1
LC0950	Regular	-----	Aroclor 1248, total (ug/L as Aroclor 1248)	68.64	1600 mL	GCI	50
LC0769	Regular	39504	Aroclor 1254, total (ug/L as Aroclor 1254)	123.00	800 mL	GCI	.1
LC0951	Regular	39504	Aroclor 1254, total (ug/L as Aroclor 1254)	68.64	1600 mL	GCI	50
LC0765	Regular	39508	Aroclor 1260, total (ug/L as Aroclor 1260)	123.00	800 mL	GCI	.1
LC0952	Regular	39508	Aroclor 1260, total (ug/L as Aroclor 1260)	68.64	1600 mL	GCI	50
SH1364	Regular		Aroclors of polychlorinated biphenyls, total	81.00	800 mL	GCI	
		-----	Aroclor 1016, total (ug/L as Aroclor 1016)				0.1
		-----	Aroclor 1221, total (ug/L as Aroclor 1221)				.1
		-----	Aroclor 1232, total (ug/L as Aroclor 1232)				.1
		-----	Aroclor 1242, total (ug/L as Aroclor 1242)				.1
		39500	Aroclor 1248, total (ug/L as Aroclor 1248)				.1
		39504	Aroclor 1254, total (ug/L as Aroclor 1254)				.1
		39508	Aroclor 1260, total (ug/L as Aroclor 1260)				.1
LC0186	Regular	39516	Gross polychlorinated biphenyls, total (ug/L as PCB)	156.00	800 mL	GCI	0.1
LC0392	Regular	39516	Gross polychlorinated biphenyls, total (ug/L as PCB)	75.60	800 mL	GCI	.1
LC0895	Regular	39516	Gross polychlorinated biphenyls, total (ug/L as PCB)	60.00	800 mL	GCI	50
LC0187	Regular	39250	Gross polychlorinated naphthalenes, total (ug/L as PCN)	144.00	800 mL	GCI	0.1
LC0393	Regular	39250	Gross polychlorinated naphthalenes, total (ug/L as PCN)	75.60	800 mL	GCI	.1

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Munition products</u>							
LC0553	Limited	-----	RDX, dissolved (ug/L)	60.70	800 mL	GCX	0.01
LC0551	Limited	-----	TNT, dissolved (ug/L)	60.70	800 mL	GCX	.01
SH1336	Limited	-----	Munition products, dissolved	64.25	800 mL	GCX	0.01
		-----	RDX, dissolved (ug/L)				.01
		-----	TNT, dissolved (ug/L)				
LC0554	Limited	-----	RDX, suspended (ug/L)	117.60	800 mL	GCX	0.01
LC0552	Limited	-----	TNT, suspended (ug/L)	117.60	800 mL	GCX	.01
SH1337	Limited	-----	Munition products, suspended	130.20	500 mL	GCX	0.01
		-----	RDX, suspended				.01
		-----	TNT, suspended				
LC0105	Limited	-----	RDX, total (ug/L)	60.70	800 mL	GCX	0.01
LC0396	Limited	-----	RDX, total (ug/L)	128.40	800 mL	GCX	.01
LC0106	Limited	-----	TNT, total (ug/L)	60.70	800 mL	GCX	.01
LC0397	Limited	-----	TNT, total (ug/L)	128.40	800 mL	GCX	.01
SH1338	Limited	-----	Munition products, total	141.60	800 mL	GCX	0.01
		-----	RDX, total (ug/L)				.01
		-----	TNT, total (ug/L)				
SH1339	Limited	-----	Munition products, total	68.00	800 mL	GCX	0.01
		-----	RDX, total (ug/L)				.01
		-----	TNT, total (ug/L)				

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Munition products--continued</u>							
SH1377	Limited		Munition products, total (amino compounds determined semiquantatively)	71.50	800 mL	GCX	
		-----	2-amino, 4, 6-dinitrotoluene, total (ug/L)				--
		-----	4-amino, 2, 6-dinitrotoluene, total (ug/L)				--
		-----	RDX, total (ug/L)				0.01
		-----	TNT, total (ug/L)				.01
<u>Organochlorine insecticides</u>							
LC0463	Regular	39331	Aldrin, dissolved (ug/L)	73.90	800 mL	GCI	0.01
LC0464	Regular	39352	Chlordane, dissolved (ug/L)	73.90	800 mL	GCI	.1
LC0465	Regular	39361	DDD, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0466	Regular	39366	DDE, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0467	Regular	39371	DDT, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0468	Regular	39381	Dieldrin, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0345	Regular	-----	Endosulfan, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0469	Regular	39391	Endrin, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0470	Regular	39411	Heptachlor, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0471	Regular	39421	Heptachlorepoxyde, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0561	Limited	-----	Kepone, dissolved (ug/L)	73.90	800 mL	GCI	.1
LC0472	Regular	39341	Lindane, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0476	Regular	-----	Methoxychlor, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0542	Regular	39756	Mirex, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0344	Regular	-----	Perthane, dissolved (ug/L)	73.90	800 mL	GCI	.01
LC0473	Regular	39401	Toxaphene, dissolved (ug/L)	73.90	800 mL	GCI	1



Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurements	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
SH1331	Regular		Organochlorine and organophosphorus insecticides with gross PCB and gross PCN, dissolved	130.00	800 mL	GCI	
		39331	Aldrin, dissolved (ug/L)				0.01
		39352	Chlordane, dissolved (ug/L)				.1
		39361	DDD, dissolved (ug/L)				.01
		39366	DDE, dissolved (ug/L)				.01
		39371	DDT, dissolved (ug/L)				.01
		39381	Dieldrin, dissolved (ug/L)				.01
		-----	Endosulfan, dissolved (ug/L)				.01
		39391	Endrin, dissolved (ug/L)				.01
		39411	Heptachlor, dissolved (ug/L)				.01
		39421	Heptachlorepoxyde, dissolved (ug/L)				.01
		39341	Lindane, dissolved (ug/L)				.01
		-----	Methoxychlor, dissolved (ug/L)				.01
		39756	Mirex, dissolved (ug/L)				.01
		-----	Perthane, dissolved (ug/L)				.01
		39401	Toxaphene, dissolved (ug/L)				1
		39517	Polychlorinated biphenyls, dissolved (ug/L as PCB)				0.1
		-----	Polychlorinated naphthalenes, dissolved (ug/L as PCN)				.1
		39572	Diazinon, dissolved (ug/L)				0.01
		-----	Ethion, dissolved (ug/L)				.01
		39532	Malathion, dissolved (ug/L)				.01
		39602	Methylparathion, dissolved (ug/L)				.01
		-----	Methyltrithion, dissolved (ug/L)				.01
		39542	Parathion, dissolved (ug/L)				.01
		-----	Trithion, dissolved (ug/L)				.01

Table 6.--Organic determines--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
SH1321	Regular		Organochlorine insecticides with gross PCB and gross PCN, dissolved	95.00	800 mL	GCI	
		39331	Aldrin, dissolved (ug/L)				0.01
		39352	Chlordane, dissolved (ug/L)				.1
		39361	DDD, dissolved (ug/L)				.01
		39366	DDE, dissolved (ug/L)				.01
		39371	DDT, dissolved (ug/L)				.01
		39381	Dieldrin, dissolved (ug/L)				.01
		-----	Endosulfan, dissolved (ug/L)				.01
		39391	Endrin, dissolved (ug/L)				.01
		39411	Heptachlor, dissolved (ug/L)				.01
		39421	Heptachlorepoxyde, dissolved (ug/L)				.01
		39441	Lindane, dissolved (ug/L)				.01
		-----	Methoxychlor, dissolved (ug/L)				.01
		39756	Mirex, dissolved (ug/L)				.01
		-----	Perthane, dissolved (ug/L)				.01
		39401	Toxaphene, dissolved (ug/L)				1
		39517	Gross polychlorinated biphenyls, dissolved (ug/L)				0.1
		-----	Gross polychlorinated naphthalenes, dissolved (ug/L)				.1
LC0404	Regular	39332	Aldrin, suspended (ug/L)	129.60	800 mL	GCI	0.01
LC0405	Regular	39353	Chlordane, suspended (ug/L)	129.60	800 mL	GCI	.1
LC0406	Regular	39362	DDD, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0407	Regular	39367	DDE, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0408	Regular	39372	DDT, suspended (ug/L)	129.60	800 mL	GCI	.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
LC0409	Regular	39382	Dieldrin, suspended (ug/L)	129.60	800 mL	GCI	0.01
LC0347	Regular	-----	Endosulfan, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0483	Regular	39392	Endrin, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0410	Regular	39412	Heptachlor, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0411	Regular	39422	Heptachlorepoide, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0562	Limited	-----	Kepone, suspended (ug/L)	151.20	-----	GCK	.1
LC0412	Regular	39342	Lindane, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0416	Regular	-----	Methoxychlor, suspended (ug/L)	141.60	800 mL	GCI	.01
LC0543	Regular	39757	Mirex, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0343	Regular	-----	Perthane, suspended (ug/L)	129.60	800 mL	GCI	.01
LC0413	Regular	39402	Toxaphene, suspended (ug/L)	129.60	800 mL	GCI	1.0

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
SH1332	Regular		Organochlorine and organophosphorus insecticides with gross PCB and gross PCN, suspended	186.00	800 mL	GCI	
		39332	Aldrin, suspended (ug/L)				0.01
		39353	Chlordane, suspended (ug/L)				.1
		39362	DDD, suspended (ug/L)				.01
		39367	DDE, suspended (ug/L)				.01
		39372	DDT, suspended (ug/L)				.01
		39382	Dieldrin, suspended (ug/L)				.01
		-----	Endosulfan, suspended (ug/L)				.01
		39392	Endrin, suspended (ug/L)				.01
		39412	Heptachlor, suspended (ug/L)				.01
		39422	Heptachlorepoxyde, suspended (ug/L)				.01
		39342	Lindane, suspended (ug/L)				.01
		-----	Methoxychlor, suspended (ug/L)				.01
		39757	Mirex, suspended (ug/L)				.01
		-----	Perthane, suspended (ug/L)				.01
		39402	Toxaphene, suspended (ug/L)				1
		39518	Polychlorinated biphenyls, suspended (ug/L as PCB)				0.1
		-----	Polychlorinated naphthalenes, suspended (ug/L as PCN)				.1
		39573	Diazinon, suspended (ug/L)				0.01
		-----	Ethion, suspended (ug/L)				.01
		39533	Malathion, suspended (ug/L)				.01
		39608	Methylparathion, suspended (ug/L)				.01
		-----	Methyltrithion, suspended (ug/L)				.01
		39543	Parathion, suspended (ug/L)				.01
		-----	Trithion, suspended (ug/L)				.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection Level
<u>Organochlorine insecticides--continued</u>							
SH1322	Regular		Organochlorine insecticides with gross PCB and gross PCB, suspended	150.00	800 mL	GCI	0.01
		39332	Aldrin, suspended (ug/L)				.1
		39353	Chlordane, suspended (ug/L)				.01
		39362	DDD, suspended (ug/L)				.01
		39367	DDE, suspended (ug/L)				.01
		39372	DDT, suspended (ug/L)				.01
		39382	Dieldrin, suspended (ug/L)				.01
		-----	Endosulfan, suspended (ug/L)				.01
		39392	Endrin, suspended (ug/L)				.01
		39412	Heptachlor, suspended (ug/L)				.01
		39422	Heptachlorepoxyde, suspended (ug/L)				.01
		39342	Lindane, suspended (ug/L)				.01
		-----	Methoxychlor, suspended (ug/L)				.01
		39757	Mirex, suspended (ug/L)				.01
		-----	Perthane, suspended (ug/L)				.01
		39402	Toxaphene, suspended (ug/L)				1
		39518	Gross polychlorinated biphenyls, suspended (ug/L)				0.1
		-----	Gross polychlorinated naphthalenes, suspended (ug/L)				.1
LC0175	Regular	39330	Aldrin, total (ug/L)	144.00	800 mL	GCI	0.01
LC0350	Regular	39330	Aldrin, total (ug/L)	73.50	800 mL	GCI	.01
LC0738	Regular	33330	Aldrin, total (ug/L)	132.00	800 mL	GCI	.002
LC0882	Regular	39330	Aldrin, total (ug/L)	63.35	1600 mL	GCI	10
LC0806	Limited	39337	Alpha BHC, total (ug/L)	73.50	800 mL	GCI	----
LC0807	Limited	39338	Beta BHC, total (ug/L)	73.50	800 mL	GCI	----
LC0176	Regular	39350	Chlordane, total (ug/L)	144.00	800 mL	GCI	.1
LC0351	Regular	39350	Chlordane, total (ug/L)	73.50	800 mL	GCI	.1
LC0883	Regular	39350	Chlordane, total (ug/L)	63.35	1600 mL	GCI	10
LC0177	Regular	39360	DDD, total (ug/L)	144.00	800 mL	GCI	.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
LC0352	Regular	39360	DDD, total (ug/L)	73.50	800 mL	GCI	0.01
LC0739	Regular	33360	DDD, total (ug/L)	132.00	800 mL	GCI	.002
LC0884	Regular	39360	DDD, total (ug/L)	63.35	1600 mL	GCI	10
LC0178	Regular	39365	DDE, total (ug/L)	144.00	800 mL	GCI	.01
LC0353	Regular	39365	DDE, total (ug/L)	73.50	800 mL	GCI	.01
LC0740	Regular	33365	DDE, total (ug/L)	132.00	800 mL	GCI	.001
LC0885	Regular	39365	DDE, total (ug/L)	63.35	1600 mL	GCI	10
LC0179	Regular	39370	DDT, total (ug/L)	144.00	800 mL	GCI	.01
LC0354	Regular	39370	DDT, total (ug/L)	73.50	800 mL	GCI	.01
LC0741	Regular	39370	DDT, total (ug/L)	132.00	800 mL	GCI	.002
LC0886	Regular	39370	DDT, total (ug/L)	63.35	1600 mL	GCI	10
LC0808	Limited	34259	Delta BHC, total (ug/L)	73.50	800 mL	GCI	----
LC0180	Regular	39380	Dieldrin, total (ug/L)	144.00	800 mL	GCI	.01
LC0355	Regular	39380	Dieldrin, total (ug/L)	73.50	800 mL	GCI	.01
LC0742	Regular	39380	Dieldrin, total (ug/L)	132.00	800 mL	GCI	.003
LC0887	Regular	39380	Dieldrin, total (ug/L)	63.35	1600 mL	GCI	10
LC0349	Regular	39388	Endosulfan, total (ug/L)	73.50	800 mL	GCI	.01
LC0737	Regular	39388	Endosulfan, total (ug/L)	132.00	800 mL	GCI	.001
LC0762	Regular	39388	Endosulfan, total (ug/L)	144.00	800 mL	GCI	.01
LC0888	Regular	39388	Endosulfan, total (ug/L)	63.35	1600 mL	GCI	10
LC0181	Regular	39390	Endrin, total (ug/L)	144.00	800 mL	GCI	.01
LC0356	Regular	39390	Endrin, total (ug/L)	73.50	800 mL	GCI	.01
LC0743	Regular	39390	Endrin, total (ug/L)	132.00	800 mL	GCI	.003
LC0889	Regular	39390	Endrin, total (ug/L)	63.35	1600 mL	GCI	10
LC0182	Regular	39410	Heptachlor, total (ug/L)	144.00	800 mL	GCI	.01
LC0357	Regular	39410	Heptachlor, total (ug/L)	73.50	800 mL	GCI	.01
LC0744	Regular	39410	Heptachlor, total (ug/L)	132.00	800 mL	GCI	.001
LC0890	Regular	39410	Heptachlor, total (ug/L)	63.35	1600 mL	GCI	10
LC0183	Regular	39420	Heptachlorepoxyde, total (ug/L)	144.00	800 mL	GCI	.01
LC0358	Regular	39420	Heptachlorepoxyde, total (ug/L)	73.50	800 mL	GCI	.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
LC0745	Regular	39420	Heptachlorepoide, total (ug/L)	132.00	800 mL	GCI	0.001
LC0891	Regular	39420	Heptachlorepoide, total (ug/L)	63.35	1600 mL	GCI	10
LC0563	Limited	-----	Kepone, total (ug/L)	71.30	-----	GCK	
LC0184	Regular	39340	Lindane, total (ug/L)	144.00	800 mL	GCI	.01
LC0359	Regular	39340	Lindane, total (ug/L)	73.50	800 mL	GCI	.01
LC0746	Regular	39340	Lindane, total (ug/L)	132.00	800 mL	GCI	.001
LC0892	Regular	39340	Lindane, total (ug/L)	63.35	1600 mL	GCI	10
LC0107	Regular	39480	Methoxychlor, total (ug/L)	156.00	800 mL	GCI	.01
LC0400	Regular	39480	Methoxychlor, total (ug/L)	73.50	800 mL	GCI	.01
LC0188	Regular	39755	Mirex, total (ug/L)	144.00	800 mL	GCI	.01
LC0544	Regular	39755	Mirex, total (ug/L)	73.50	800 mL	GCI	.01
LC0893	Regular	39755	Mirex, total (ug/L)	63.35	1600 mL	GCI	10
LC0348	Regular	39034	Perthane, total (ug/L)	73.50	800 mL	GCI	.01
LC0761	Regular	39034	Perthane, total (ug/L)	144.00	800 mL	GCI	.01
LC0894	Regular	39034	Perthane, total (ug/L)	63.35	1600 mL	GCI	10
LC0185	Regular	39400	Toxaphene, total (ug/L)	144.00	800 mL	GCI	1
LC0360	Regular	39400	Toxaphene, total (ug/L)	73.50	800 mL		1
SH1318	Regular		Organochlorine and organophosphorus insecticides plus gross PCB and gross PCN, dissolved plus suspended	115.00	800 mL	GCI	
		39570	Diazinon, total (ug/L)				0.01
		39398	Ethion, total (ug/L)				.01
		39530	Malathion, total (ug/L)				.01
		39600	Methylparathion, total (ug/L)				.01
		39790	Methyltrithion, total (ug/L)				.01
		39540	Parathion, total (ug/L)				.01
		39786	Trithion, total (ug/L)				.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
SH1334	Regular		Organochlorine and organophosphorus insecticides plus gross PCB and gross PCN, total	125.00	800 mL	GCI	
		39330	Aldrin, total (ug/L)				0.01
		39350	Chlordane, total (ug/L)				.1
		39360	DDD, total (ug/L)				.01
		39365	DDE, total (ug/L)				.01
		39370	DDT, total (ug/L)				.01
		39380	Dieldrin, total (ug/L)				.01
		39388	Endosulfan, total (ug/L)				.01
		39390	Endrin, total (ug/L)				.01
		39410	Heptachlor, total (ug/L)				.01
		39420	Heptachlorepoxyde, total (ug/L)				.01
		39340	Lindane, total (ug/L)				.01
		39480	Methoxychlor, total (ug/L)				.01
		39755	Mirex, total (ug/L)				.01
		-----	Perthane, total (ug/L)				.01
		39400	Toxaphene, total (ug/L)				1
		39516	Polychlorinated biphenyls, total (ug/L)				0.1
		39250	Polchlorinated naphthalenes, total (ug/L)				.1
		39570	Diazinon, total (ug/L)				0.1
		39398	Ethion, total (ug/L)				.01
		39530	Malathion, total (ug/L)				.01
		39600	Methylparathion, total (ug/L)				.01
		39790	Methyltrithion, total (ug/L)				.01
		39540	Parathion, total (ug/L)				.01
		39786	Trithion, total (ug/L)				.01



Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
SH1333	Regular		Organochlorine and organophosphorus insecticides plus gross PCBs and gross PCNs, dissolved plus suspended	215.00	800 mL	GCI	
		39330	Aldrin, total (ug/L)				0.01
		39350	Chlordane, total (ug/L)				.01
		39360	DDD, total (ug/L)				.01
		39363	DDE, total (ug/L)				.01
		39370	DDT, total (ug/L)				.01
		39380	Dieldrin, total (ug/L)				.01
		39388	Endosulfan, total (ug/L)				.01
		39390	Endrin, total (ug/L)				.01
		39410	Heptachlor, total (ug/L)				.01
		39420	Heptachlorepoxyde, total (ug/L)				.01
		39340	Lindane, total (ug/L)				.01
		39480	Methoxychlor, total (ug/L)				.01
		39755	Mirex, total (ug/L)				.01
		-----	Perthane, total (ug/L)				.01
		39400	Toxaphene, total (ug/L)				1
		39516	Polychlorinated biphenyls, total (ug/L)				0.1
		39250	Polychlorinated naphthalenes, total (ug/L)				.1
		39570	Diazinon, total (ug/L)				0.01
		39398	Ethion, total (ug/L)				.01
		39530	Malathion, total (ug/L)				.01
		39600	Methylparathion, total (ug/L)				.01
		39790	Methyltrithion, total (ug/L)				.01
		39540	Parathion, total (ug/L)				.01
		39786	Trithion, total (ug/L)				.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of code	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
SH1324	Regular		Organochlorine insecticides with gross PCB and gross PCN, total	95.00	800 mL	GCI	
		39330	Aldrin, total (ug/L)				0.01
		39350	Chlordane, total (ug/L)				.1
		39360	DDD, total (ug/L)				.01
		39365	DDE, total (ug/L)				.01
		39370	DDT, total (ug/L)				.01
		39380	Dieldrin, total (ug/L)				.01
		39388	Endosulfan, total (ug/L)				.01
		39390	Endrin, total (ug/L)				.01
		39410	Heptachlor, total (ug/L)				.01
		39420	Heptachlorepoxyde, total (ug/L)				.01
		39340	Lindane, total (ug/L)				.01
		39480	Methoxychlor, total (ug/L)				.01
		39755	Mirex, total (ug/L)				.01
		39034	Perthane, total (ug/L)				.01
		39400	Toxaphene, total (ug/L)				1.
		39516	Gross polychlorinated biphenyls, total (ug/L as PCB)				0.1
		39520	Gross polychlorinated naphthalenes, total (ug/L as PCB)				.1

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organochlorine insecticides--continued</u>							
SH1323	Regular		Organochlorine insecticides with gross PCB and gross PCN, dissolved plus suspended	190.00	800 mL	GCI	
		39330	Aldrin, total (ug/L)				0.01
		39350	Chlordane, total (ug/L)				.1
		39360	DDD, total (ug/L)				.01
		39365	DDE, total (ug/L)				.01
		39370	DDT, total (ug/L)				.01
		39380	Dieldrin, total (ug/L)				.01
		39388	Endosulfan, total (ug/L)				.01
		39390	Endrin, total (ug/L)				.01
		39410	Heptachlor, total (ug/L)				.01
		39420	Heptachlorepoxyde, total (ug/L)				.01
		39340	Lindane, total (ug/L)				.01
		39480	Methoxychlor, total (ug/L)				.01
		39755	Mirex, total (ug/L)				.01
		-----	Perthane, total (ug/L)				.01
		39400	Toxaphene, total (ug/L)				1
		39516	Polychlorinated biphenyls, total (ug/L as PCB)				0.1
		39250	Polychlorinated naphthalenes, total (ug/L as PCN)				.1
<u>Organophosphorus insecticides</u>							
LC0423	Regular	39572	Diazinon, dissolved (ug/L)	48.00	800 mL	GCP	0.01
LC0424	Regular	-----	Ethion, dissolved (ug/L)	48.00	800 mL	GCP	.01
LC0425	Regular	39532	Malathion, dissolved (ug/L)	48.00	800 mL	GCP	.01
LC0426	Regular	39602	Methylparathion, dissolved (ug/L)	48.00	800 mL	GCP	.01
LC0484	Regular	-----	Methyltrithion, dissolved (ug/L)	48.00	800 mL	GCP	.01
LC0427	Regular	39542	Parathion, dissolved (ug/L)	48.00	800 mL	GCP	.01
LC0428	Regular	-----	Trithion, dissolved (ug/L)	48.00	800 mL	GCP	.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organophosphorus insecticides--continued</u>							
SH1316	Regular		Organophosphorus insecticides, dissolved	58.00	800 mL	GCP	
		39572	Diazinon, dissolved (ug/L)				0.01
		-----	Ethion, dissolved (ug/L)				.01
		39532	Malathion, dissolved (ug/L)				.01
		39602	Methylparathion, dissolved (ug/L)				.01
		-----	Methyltrithion, dissolved (ug/L)				.01
		39542	Parathion, dissolved (ug/L)				.01
		-----	Trithion, dissolved (ug/L)				.01
LC0417	Regular	39573	Diazinon, suspended (ug/L)	59.00	800 mL	GCP	0.01
LC0418	Regular	-----	Ethion, suspended (ug/L)	59.00	800 mL	GCP	.01
LC0419	Regular	39533	Malathion, suspended (ug/L)	59.00	800 mL	GCP	.01
LC0420	Regular	39603	Methylparathion, suspended (ug/L)	59.00	800 mL	GCP	.01
LC0485	Regular	-----	Methyltrithion, suspended (ug/L)	59.00	800 mL	GCP	.01
LC0421	Regular	39543	Parathion, suspended (ug/L)	59.00	800 mL	GCP	.01
LC0422	Regular	-----	Trithion, suspended (ug/L)	59.00	800 mL	GCP	.01
SH1317	Regular		Organophosphorus insecticides, suspended	65.00	800 mL	GCP	
		39573	Diazinon, suspended (ug/L)				0.01
		-----	Ethion, suspended (ug/L)				.01
		39533	Malathion, suspended (ug/L)				.01
		93603	Methylparathion, suspended (ug/L)				.01
		-----	Methyltrithion, suspended (ug/L)				.01
		39543	Parathion, suspended (ug/L)				.01
		-----	Trithion, suspended (ug/L)				.01

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organophosphorus insecticides--continued</u>							
LC0591	Limited	-----	Azodrin, total (ug/L)	52.80	800 mL	GCP	0.01
LC0802	Limited	39040	DEF, total (ug/L)	52.80	800 mL	GCP	.01
LC0139	Regular	39570	Diazinon, total (ug/L)	134.40	800 mL	GCP	.01
LC0378	Regular	39570	Diazinon, total (ug/L)	52.80	800 mL	GCP	.01
LC0953	Regular	39570	Diazinon, total (ug/L)	46.80	1600 mL	GCP	10
LC0592	Limited	-----	Disyston, total (ug/L)	52.80	800 mL	GCP	.01
LC0140	Regular	39398	Ethion, total (ug/L)	134.40	800 mL	GCP	.01
LC0379	Regular	39398	Ethion, total (ug/L)	52.80	800 mL	GCP	.01
LC0954	Regular	39398	Ethion, total (ug/L)	46.80	1600 mL	GCP	10
LC0805	Limited	39580	Guthion, total (ug/L)	52.80	800 mL	GCP	.01
LC0141	Regular	39530	Malathion, total (ug/L)	134.40	800 mL	GCP	.01
LC0380	Regular	39530	Malathion, total (ug/L)	52.80	800 mL	GCP	.01
LC0955	Regular	39530	Malathion, total (ug/L)	46.80	1600 mL	GCP	10
LC0142	Regular	39600	Methylparathion, total (ug/L)	134.40	800 mL	GCP	.01
LC0381	Regular	39600	Methylparathion, total (ug/L)	52.80	800 mL	GCP	.01
LC0956	Regular	39600	Methylparathion, total (ug/L)	46.80	1600 mL	GCP	10
LC0143	Regular	39790	Methyltrithion, total (ug/L)	134.40	800 mL	GCP	.01
LC0382	Regular	39790	Methyltrithion, total (ug/L)	52.80	800 mL	GCP	.01
LC0957	Regular	39790	Methyltrithion, total (ug/L)	46.80	1600 mL	GCP	10
LC0144	Regular	39540	Parathion, total (ug/L)	134.40	800 mL	GCP	.01
LC0383	Regular	39540	Parathion, total (ug/L)	52.80	800 mL	GCP	.01
LC0958	Regular	39540	Parathion, total (ug/L)	46.80	1600 mL	GCP	10
LC0593	Limited	-----	Phorate, total (ug/L)	52.80	800 mL	GCP	.01
LC0594	Limited	39610	Phosdrin, total (ug/L)	52.80	800 mL	GCP	.01
LC0804	Limited	39357	Ronnel, total (ug/L)	52.80	800 mL	GCP	.01
LC0145	Regular	39786	Trithion, total (ug/L)	134.40	800 mL	GCP	.01
LC0384	Regular	39786	Trithion, total (ug/L)	52.80	800 mL	GCP	.01
LC0959	Regular	39786	Trithion, total (ug/L)	46.80	1600 mL	GCP	10

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organophosphorus insecticides--continued</u>							
SH1319	Regular		Organophosphorus insecticides, total	50.00	800 mL	GCP	
		39570	Diazinon, total (ug/L)				0.01
		39398	Ethion, total (ug/L)				.01
		39530	Malathion, total (ug/L)				.01
		39600	Methylparathion, total (ug/L)				.01
		39790	Methyltrithion, total (ug/L)				.01
		39540	Parathion, total (ug/L)				.01
		39786	Trithion, total (ug/L)				.01
<u>Triazine herbicides</u>							
LC0848	Limited	-----	Ametryne, total (ug/L)	75.00	800 mL	GCT	0.1
LC0847	Limited	-----	Atratone, total (ug/L)	75.00	800 mL	GCT	.1
LC0717	Limited	39630	Atrazine, total (ug/L)	75.00	800 mL	GCT	.1
LC0846	Limited	-----	Cyanazine, total (ug/L)	75.00	800 mL	GCT	.1
LC0845	Limited	-----	Cyprazine, total (ug/L)	75.00	800 mL	GCT	.1
LC0718	Limited	-----	Prometone, total (ug/L)	75.00	800 mL	GCT	.1
LC0631	Limited	-----	Prometryne, total (ug/L)	75.00	800 mL	GCT	.1
LC0844	Limited	-----	Propazine, total (ug/L)	75.00	800 mL	GCT	.1
LC0719	Limited	39055	Simazine, total (ug/L)	75.00	800 mL	GCT	.1
LC0843	Limited	-----	Simetone, total (ug/L)	75.00	800 mL	GCT	.1
LC0720	Limited	39054	Simetryne, total (Ug/L)	75.00	800 mL	GCT	.1

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Triazine herbicides--continued</u>							
SH1389	Limited		Triazine herbicides, total	78.00	800 mL	GCT	0.1
		-----	Ametryne, total (ug/L)				.1
		-----	Atratone, total (ug/L)				.1
		39630	Atrazine, total (ug/L)				.1
		-----	Cyanzine, total (ug/L)				.1
		-----	Cyprazine, total (ug/L)				.1
		-----	Prometone, total (ug/L)				.1
		-----	Prometryne, total (ug/L)				.1
		-----	Propazine, total (ug/L)				.1
		39055	Simazine, total (ug/L)				.1
		-----	Simetone, total (ug/L)				.1
		39054	Simetryne, total (ug/L)				.1

Table 6.--Organic determinations--Continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Volatile organics</u>							
SH1390	Custom		<p>Volatile organics. Identification will include, but not necessarily be limited to, the compounds listed. Results are currently only semiquantitative and should not be considered as quantitative values.</p> <p>----- Benzene, total (ug/L) -----</p> <p>----- Bromoform, total (ug/L) -----</p> <p>----- Carbon tetrachloride, total (ug/L) -----</p> <p>----- Chlorobenzene, total (ug/L) -----</p> <p>----- Chlorodibromomethane, total (ug/L) -----</p> <p>----- Chloroethane, total (ug/L) -----</p> <p>----- 2-Chloroethyl vinyl ether (ug/L) -----</p> <p>----- Chloroform, total (ug/L) -----</p> <p>----- Dichlorobromomethane, total (ug/L) -----</p> <p>----- Dichlorodifluoromethane, total (ug/L) -----</p> <p>----- 1,1-Dichloroethane, total (ug/L) -----</p> <p>----- 1,2-Dichloroethane, total (ug/L) -----</p> <p>----- 1,1-Dichloroethylene, total (ug/L) -----</p> <p>----- 1,2-Trans-dichloroethylene, total (ug/L) -----</p> <p>----- 1,2-Dichloropropane, total (ug/L) -----</p> <p>----- 1,3-Dichloropropene, total (ug/L) -----</p> <p>----- Ethylbenzene, total (ug/L) -----</p> <p>----- Methylbromide, total (ug/L) -----</p> <p>----- Methylene chloride, total (ug/L) -----</p> <p>----- 1,1,2,2-Tetrachloroethane, total (ug/L) -----</p> <p>----- Tetrachloroethylene, total (ug/L) -----</p> <p>----- Toluene, total (ug/L) -----</p> <p>----- 1,1,1-Trichloroethane, total (ug/L) -----</p> <p>----- 1,1,2-Trichloroethane, total (ug/L) -----</p> <p>----- Trichloroethylene, total (ug/L) -----</p> <p>----- Trichlorofluoromethane, total (ug/L) -----</p> <p>----- Vinyl chloride, total (ug/L) -----</p>	280.00	140 mL	GCV	



Table 7.-- Chemical analyses &amp; physical properties of sediments

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Inorganic analyses of sediments</u>							
LC0520	Limited	01108	Aluminum, recoverable from bottom material, dry weight (ug/g as Al)	18.35	10 g	CU	3
LC0534	Limited	01098	Antimony, total in bottom material, dry weight (ug/g as Sr)	18.15	10 g	CU	1
LC0597	Limited	01003	Arsenic, total in bottom material, dry weight (ug/g as As)	18.15	10 g	CU	1
LC0521	Regular	01008	Barium, recoverable from bottom material, dry weight (ug/g as Ba)	19.25	10 g	CU	3
LC0522	Regular	01013	Beryllium, recoverable from bottom material (ug/g as Be)	19.25	10 g	CU	1
LC0501	Limited	01023	Boron, recoverable from bottom material, dry weight (ug/g as Bo)	19.25	10 g	CU	18
LC0502	Limited	01028	Cadmium, recoverable from bottom material (ug/g as Cd)	17.15	10 g	CU	1
LC0696	Limited	00917	Calcium, recoverable from bottom material, dry weight (ug/kg as Ca)	18.15	10 g	CU	10
LC0505	Limited	01029	Chromium, recoverable from bottom material (ug/g as Ch)	19.25	10 g	CU	1
LC0506	Limited	01038	Cobalt, recoverable from bottom material (ug/g as Co)	17.15	10 g	CU	1
LC0507	Limited	01043	Copper, recoverable from bottom material (ug/g as Cu)	17.15	10 g	CU	1
LC0508	Limited	00721	Cyanide, total in bottom material, dry weight (ug/g as CN)	24.10	10 g	CU	.5
LC0509	Limited	01170	Iron, recoverable from bottom material (ug/g as Fe)	17.15	10 g	CU	1
LC0510	Limited	01052	Lead, recoverable from bottom material, (ug/g as Pb)	17.15	10 g	CU	1
LC0539	Limited	--	Lithium, recoverable from bottom material, (ug/g as Li)	17.15	10 g	CU	1
LC0697	Limited	00924	Magnesium, recoverable from bottom material, dry weight (ug/kg as Mg)	18.15	10 g	CU	10
LC0512	Limited	01053	Manganese, recoverable from bottom material, dry weight (ug/g as Mn)	17.15	10 g	CU	1
LC0514	Limited	00626	Nitrogen, ammonia plus organic, total in bottom material, dry weight (mg/kg as N)	14.20	10 g	CC	4

Table 7.-- Chemical analyses &amp; physical properties of sediments--continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Inorganic analyses of sediment--continued</u>							
LC0524	Limited	00611	Nitrogen, ammonia, total in bottom material dry weight (ug/kg as N)	11.45	10 g	CC	.2
LC0513	Limited	00633	Nitrogen, nitrite plus nitrate, total in bottom material, dry weight (mg/kg as N)	11.45	10 g	CC	--
LC0526	Limited	00616	Nitrogen, nitrite, total in bottom material, dry weight (mg/kg as N)	16.80	10 g	CC	--
LC0527	Limited	00603	Nitrogen, total in bottom material, dry weight (mg/kg as N)	16.80	10 g	CC	--
LC0532	Limited	00339	Oxygen demand, chemical, total in bottom material, dry weight (ug/kg)	16.80	10 g	CC	100
LC0515	Limited	00668	Phosphorus, total in bottom material, dry weight (mg/kg as P)	10.10	10 g	CC	--
LC0698	Limited	00938	Potassium, recoverble from bottom material, dry weight (ug/kg as K)	17.15	10 g	CU	10
LC0699	Limited	00934	Sodium, recoverable from bottom material, dry weight (ug/kg as Na)	17.15	10 g	CU	10
LC0516	Limited	00496	Solids, volatile on ignition, total in bottom material, dry weight (mg/kg)	12.05	10 g	CU	--
LC0511	Limited	71921	Mercury, recoverable from bottom material, dry weight (ug/g as Hg)	18.05	10 g	CU	.1
LC0523	Limited	01063	Molybdenum, recoverable from bottom material, dry weight (ug/g as Mo)	17.15	10 g	CU	.3
LC0519	Limited	01068	Nickel, recoverable from bottom material, dry weight (ug/g as Ni)	17.15	10 g	CU	3
LC0517	Limited	01148	Selenium, total in bottom material, dry weight (ug/g as Se)	18.15	10 g	CU	1
LC0528	Limited	01078	Silver, recoverable from bottom material, dry weight (ug/g as Ag)	17.15	10 g	CU	.3
LC0530	Limited	01083	Strontium, recoverable from bottom material dry weight (ug/g as Sr)	18.05	10 g	CU	1
LC0518	Limited	01093	Zinc, recoverable from bottom material dry weight (ug/g as Zn)	17.15	10 g	CU	.3

Table 7--Chemical analyses &amp; physical properties of sediments--continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organic analyses of sediments</u>							
LC0503	Limited	00686	Carbon, inorganic, total in bottom material, dry weight (g/kg as C)	\$16.15	10 g	CC	--
LC0132	Limited	00686	Carbon, inorganic, total in bottom material, dry weight (g/kg as C)	16.15	10 g	CC	--
LC0133	Limited	00693	Carbon, inorganic plus organic, total in bottom material, dry weight (g/kg as C)	16.15	10 g	CC	--
LC0531	Limited	00557	Oil-grease, total in bottom material, dry weight (mg/kg)	23.75	10 g	CC	--
LC0377	Limited	39761	Silvex, total in bottom material, dry weight (ug/kg)	150.00	800mL	BGC	0.1
LC0375	Limited	39731	2,4-D, total in bottom material, dry weight (ug/kg)	150.00	800mL	BGC	.1
LC0403	Limited	-----	2,4-DP, total in bottom material, dry weight (ug/kg)	150.00	800mL	BGC	.1
LC0376	Limited	39741	2,4,5-T, total in bottom material, dry weight (ug/kg)	150.00	800mL	BGC	.1
LC0361	Limited	39333	Aldrin, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	0.1
LC0362	Limited	39351	Chlordane, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	1.
LC0363	Limited	39363	DDD, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0364	Limited	39368	DDE, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0365	Limited	39373	DDT, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0366	Limited	39383	Dieldrin, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0346	Limited	-----	Endosulfan, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0367	Limited	39393	Endrin, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0368	Limited	39413	Heptachlor, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0369	Limited	39423	Heptachlor epoxide, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0370	Limited	39343	Lindane, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0401	Limited	39481	Methoxychlor, total in bottom material, dry weight	225.00	800mL	BGC	.1
LC0545	Limited	-----	Mirex, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0342	Limited	-----	Perthane, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	.1
LC0371	Limited	39403	Toxaphene, total in bottom material, dry weight (ug/kg)	210.00	800mL	BGC	1.
LC0394	Limited	39519	Gross polychlorinated biphenyls, total in bottom material, dry weight (ug/kg as PCB)	210.00	800mL	BGC	1.
LC0395	Limited	-----	Gross polychlorinated naphthalenes, total in bottom material, dry weight (ug/kg as PCN)	210.00	800mL	BGC	1.
LC0564	Limited	-----	Kepone, total in bottom material, dry weight (ug/kg)	166.00	-----	LC564	--

Table 7--Chemical analyses & physical properties of sediments--continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Organic analyses of sediments--continued</u>							
LC0385	Limited	39571	Diazinon, total in bottom material, dry weight (ug/kg)	\$133.00		BGC	0.1
LC0386	Limited	39399	Ethion, total in bottom material, dry weight (ug/kg)	133.00		BGC	.1
LC0387	Limited	39531	Malathion, total in bottom material, dry weight (ug/kg)	133.00		BGC	.1
LC0388	Limited	39601	Methyl parathion, total in bottom material, dry weight (ug/kg)	133.00		BGC	.1
LC0390	Limited	39541	Parathion, total in bottom material, dry weight (ug/kg)	133.00		BGC	.1
LC0391	Limited	39787	Trithion, total in bottom material, dry weight (ug/kg)	133.00		BGC	.1
LC0398	Limited	-----	RDX, total in bottom material, dry weight (ug/kg)	145.00		BGC	.1
LC0399	Limited	-----	TNT, total in bottom material, dry weight (ug/kg)	145.00		BGC	.1
LC0389	Limited	39791	Methyl thrition, total in bottom material, dry weight (ug/kg)	133.00		BGC	.1

Table 7.-- Chemical analyses &amp; physical properties of sediments--continued

Lab Code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Sample preparation</u>							
LC0929	Custom	-----	Custom sample preparation	----	----	PP	--
LC0930	Custom	-----	Heavy mineral separation and grain mount	33.00	----	PP	--
LC0926	Custom	-----	Pore-water extraction	---	----	PP	--
LC0916	Custom	-----	Thin-section preparation	27.00	----	PP	--
<u>Physical properties of sediments</u>							
LC0928	Custom	-----	Atterburg limits indices	66.00	----	PP	--
LC0931	Regular	-----	Bulk density (g/cc)	16.50	----	PP	--
LC0910	Limited	-----	Carbonate, soil (percent weight as CO <sub>3</sub> )	14.75	10	PP	--
LC0441	Limited	-----	Cation exchange capacity (meq/100 g)	24.90	3	PP	--
LC0912	Custom	-----	Lithologic description	----	----	PP	--
LC0904	Regular	-----	Moisture content (percent)	11.00	----	PP	--
LC0907	Limited	-----	Porosity (pore-size distribution of cohesive samples)	71.50	----	PP	--
LC0932	Custom	-----	Porosity (pore-size distribution of friable undisturbed samples)	82.00	----	PP	--
LC0901	Regular	-----	Grain density (g/cc)	11.00	----	PP	--
LC0933	Custom	-----	Surface area (sq m)	----	----	PP	--
SH1620	Limited	-----	Particle size distribution	30.00	25 g	Size	
		-----	Percent finer than .062 mm, soils (percent)				--
		-----	Percent finer than .125 mm, soils (percent)				--
		-----	Percent finer than .250 mm, soils (percent)				--
		-----	Percent finer than .500 mm, soils (percent)				--
		-----	Percent finer than 1.00 mm, soils (percent)				--
		-----	Percent finer than 2.00 mm, soils (percent)				--
		-----	Percent finer than 4.00 mm, soils (percent)				--
		-----	Percent finer than 8.00 mm, soils (percent)				--
		-----	Percent finer than 16.0 mm, soils (percent)				--
		-----	Percent finer than 32.0 mm, soils (percent)				--
		-----	Percent finer than 64.0 mm, soils (percent)				--
		-----	Percent finer than 128.0 mm, soils (percent)				--

Table 7.--Chemical analyses & physical properties of sediments--continued

Lab code	Class	WATSTORE code	Parameter name and unit of measurement	Cost (\$)	Volume	Sample designation	Detection level
<u>Physical properties of sediments--continued</u>							
SH1621	Limited	-----	Percent finer than .002 mm, soils (percent)	50.00	25 g	Size	--
			Percent finer than .004 mm, soils (percent)				
			Percent finer than .008 mm, soils (percent)				
			Percent finer than .016 mm, soils (percent)				
			Percent finer than .031 mm, soils (percent)				
			Percent finer than .062 mm, soils (percent)				
			Percent finer than .125 mm, soils (percent)				
			Percent finer than .250 mm, soils (percent)				
			Percent finer than .500 mm, soils (percent)				
			Percent finer than 1.00 mm, soils (percent)				
			Percent finer than 2.00 mm, soils (percent)				
			Percent finer than 4.00 mm, soils (percent)				
			Percent finer than 8.00 mm, soils (percent)				
			Percent finer than 16.0 mm, soils (percent)				
			Percent finer than 32.0 mm, soils (percent)				
			Percent finer than 64.0 mm, soils (percent)				
			Percent finer than 128.0 mm, soils (percent)				

Table 8.--Biological determinations

Lab or schedule code	Class	WATSTORE code	Parameter name and unit of measurement	Cost	Volume	Sample designation	Detection level
<u>Gross measures</u>							
LC0615	Limited	71100	Seston, total (mg/L)	\$ 9.00	1 L	ST	--
LC0612	Limited	71101	Seston, ash weight (mg/L)	8.00		ST	--
LC0055	Limited	85209	Algal growth potential, USGS mod. bottle test (mg/L)	55.00	1 L	LC0055	--
<u>Benthic invertebrates</u>							
LC0608	Limited	70940	Benthic invertebrates, wet weight (g/sq m)	8.50	-----	BEN	--
LC0565	Limited	70941	Benthic invertebrates, dry weight (g/sq m)	9.00	-----	BEN	--
LC0566	Limited	70942	Benthic invertebrates, ash weight (g/sq m)	8.00	-----	BEN	--
SH1501	Limited		Benthic invertebrates	100.00		BEN	
		70943	Total (organisms/sq m)				--
		-----					
			Taxonomic identification				
			Insecta, Diptera				Family
			Insecta, Coleoptera				Family
			Insecta, Odonata				Family
			Insecta, others				Order
			Arachnida				Class
			Porifera				Phylum
			Platyhelminthes				Phylum
			Nemathelminthes				Phylum
			Ectoprocta (bryozoa)				Phylum
			Cnidaria (coelenterata)				Class
			Annelida				Class
			Mollusca				Family

Table 8.--Biological determinations--continued

Lab or schedule code	Class	WATSTORE code	Schedule name and unit of measurement	Cost	Volume	Sample desig- nation	Detection level
<u>Benthic invertebrates--continued</u>							
SH1502	Limited		Benthic invertebrates (including some generic level identification).	200.00		BEN	
		70943	Total (organisms/sq m)				--
			Taxonomic identification				
			Insecta				Genus
			Arachnida				Order
			Porifera				Family
			Platyhelminthes				Class
			Nemathelminthes				Class
			Ectoprocta (Bryozoa)				Class
			Cnidaria (Coelenterata)				Family
			Annelida, Hirudine				Class
			Annelida, Oligochaeta				Class
			Mollusca, Gastropoda				Genus
			Mollusca, Pelecypoda				Genus
			Crustacea				Genus
SH1503	Limited		Benthic invertebrates (including some generic level identification)	\$ 225.50		BEN	
		70943	Total (organisms/sq m)				
		70940	Wet weight				--
		70941	Dry weight				--
		70942	Ash weight				--
			Taxonomic identification				
			Insecta				Genus
			Arachnida				Order
			Porifera				Family
			Platyhelminthes				Class
			Nemathelminthes				Class
			Ectoprocta (Bryozoa)				Class
			Cnidaria (Coelenterata)				Family
			Annelida, Hirudine				Class
			Annelida, Oligochaeta				Class
			Mollusca, Gastropoda				Genus
			Mollusca, Pelecypoda				Genus
			Crustacea				Genus



Table 8.--Biological determinations--continued

Lab or schedule Class	WATSTORE code	Parameter name and unit of measurement	Cost	Volume	Sample desig- nation	Detection level
<b>Benthic invertebrates--continued</b>						
SH1504	Limited	Benthic invertebrates (drift net collection, area unknown)	\$ 100.00		BEN	
		Total (organisms/sample)				--
		Taxonomic identification				
		Insecta, Diptera				Family
		Insecta, Coleoptera				Family
		Insecta, Odonata				Family
		Insecta, others				Order
		Arachnida				Class
		Porifera				Phylum
		Platyhelminthes				Phylum
		Nemathelminthes				Phylum
		Ectoprocta (bryozoa)				Phylum
		Cnidaria (coelenterata)				Class
		Annelida				Class
		Mollusca				Family
SH1505	Limited	Benthic invertebrates (including some generic level identification, drift net collection, area unknown)	\$ 200.00		BEN	
	70943	Total (organisms/sample)				--
		Taxonomic identification				
		Insecta				Genus
		Arachnida				Order
		Porifera				Family
		Platyhelminthes				Class
		Nemathelminthes				Class
		Ectoprocta (Bryozoa)				Class
		Cnidaria (Coelenterata)				Family
		Annelida, Hirudine				Class
		Annelida, Oligochaeta				Class
		Mollusca, Gastropoda				Genus
		Mollusca, Pelecypoda				Genus
		Crustacea				Genus

Table 8.--Biological determinations--continued

Lab or schedule code	Class	WATSTORE code	Parameter name and unit of measurement	Cost	Volume	Sample design- nation	Detection level
<u>Benthic invertebrates--continued</u>							
SH1506	Limited		Benthic invertebrates (including some generic level identification, drift net collection)	\$ 225.50		BEN	
		70943	Total (orgasims/sample)				
		70940	Wet weight (g/sq m)				--
		70941	Dry weight (g/sq m)				--
		70942	Ash weight (g/sq m)				--
			Taxonomic identification				
			Insecta				Genus
			Arachnida				Order
			Porifera				Family
			Platyhelminthes				Class
			Nemathelminthes				Class
			Ectoprocta (Bryozoa)				Class
			Cnidaria (Coelenterata)				Family
			Annelida, Hirudine				Class
			Annelida, Oligochaeta				Class
			Mollusca, Gastropoda				Genus
			Mollusca, Pelecypoda				Genus
			Crustacea				Genus
<u>Periphyton</u>							
LC0588	Limited	70957	Chlorophyll-a, periphyton, chromatographic- fluorometric (mg/sq m)	19.00	-----	CHE	--
LC0589	Limited	70958	Chlorophyll-b, periphyton, chromatographic- fluorometric (mg/sq m)	19.00	-----	CHE	--
LC0603	Limited	00573	Periphyton, biomass, dry weight (g/sq m)	9.00	-----	CHE	--
LC0611	Limited	00572	Periphyton, biomass, ash weight (g/sq m)	8.00	-----	CHE	--

Table 8.--Biological determinations--continued

Lab or schedule code	Class	WATSTORE code	Parameter name and unit of measurement	Cost	Volume	Sample designation	Detection level
<u>Periphyton--continued</u>							
SH1511	Limited		Periphyton, taxonomic identification (organisms/sample)	\$ 60.00		PER	Genus
SH1512	Custom		Periphyton, diatoms, taxonomic identification (organism/sq cm)	170.00		DIA	--
SH1507	Limited	70957 70958	Chlorophyll, periphyton Chlorophyll-a, periphyton (mg/sq m) Chlorophyll-b, periphyton (mg/sq m)	20.00	-----	CHE	-- -- --
SH1708	Limited	70957 70958 00578 00572	Chlorophyll and biomass, periphyton Chlorophyll-a, (mg/sq m) Chlorophyll-b, (mg/sq m) Biomass, dry wight (g/sq m) Biomass, ash weight (g/sq m)	32.00		CHE	-- -- -- --
<u>Phytoplankton</u>							
LC0616	Limited	-----	Adenosine triphosphate phytoplankton (ug/L)	30.00	2.2 mL	LC0616	--
LC0586	Limited	70953	Chlorophyll-a, phytoplankton, (ug/L)	19.00	-----	CHY	--
LC0587	Limited	70954	Chlorophyll-b, phytoplankton, (ug/L)	19.00	-----	CHY	--
LC0438	Custom	-----	Photosynthesis, carbon-14 (mg of C per sq m of surface area)	60.00	15x100 mL	LC0438	--
LC0961	Custom	-----	Photosynthesis, carbon-14 (mg of C per sq m of surface area). Individual values and curve will be provided.	160.00	15x100 mL	LC0961	--
LC0620	Limited	-----	Phytoplankton, biomass, dry weight (mg/L)	8.50	-----	CHY	--
LC0621	Limited	-----	Phytoplankton, biomass, ash weight (mg/L)	8.50	-----	CHY	--
SH1508	Limited	70953 70954	Chlorophyll, phytoplankton Chlorophyll, phytoplankton (ug/L) Chlorophyll, phytoplankton (ug/L)	20.00	-----	CHY	-- -- --

Table 8.--Biological determinations--continued

Lab or schedule code	Class	WATSTORE code	Parameter name and unit of measurement	Cost	Volume	Sample desig- nation	Detection level
<u>Phytoplankton--continued</u>							
SH1520	Limited		Phytoplankton, (Identification may include, but is not limited to, the genera listed).	\$ 120.00		PHY	
		60650	Phytoplankton, total (cells/mL)				--
			Taxonomic identification				
			<u>Chlorophyta</u>				
			Chlamydomonas				Genus
			Pediastrum				Genus
			Coelastrum				Genus
			Dictyosphaerium				Genus
			Actinastrum				Genus
			Crucigenia				Genus
			Scenedusmus				Genus
			Micractinium				Genus
			<u>Euglenophyta</u>				
			Trachelomonas				Genus
			<u>Chrysophyta</u>				
			Cyclotella				Genus
			Melosira				Genus
			Diatoma				Genus
			Asterionella				Genus
			Fragilaria				Genus
			Synedra				Genus
			Achnanthes				Genus
			Cocconeis				Genus
			Amphipleura				Genus
			Gomphonema				Genus
			Cymbella				Genus
			Nitzchia				Genus
			<u>Cyanophyta</u>				
			Gomphosphaeria				Genus
			Anacystis				Genus
			Agmenellum				Genus
			Lyngbya				Genus
			Oscillatoria				Genus
			Anabaena				Genus
			Aphanizomenon				Genus

Table 8.--Biological determinations--continued

Lab or schedule code	Class	WATSTORE code	Parameter name and units of measurement	Cost	Volume	Sample desig- nation	Detection level
<u>Phytoplankton--continued</u>							
SH1706	Limited		Phytoplankton, (taxonomic identification of the dominant genera. Identification may include, but is not limited to, the genera listed).	\$ 50.00		PHY	
		60050	Phytoplankton, total (cells/mL)				--
			Taxonomic identification				
			<u>Chlorophyta</u>				
			Chlamydomonas				Genus
			Pediastrum				Genus
			Coelastrum				Genus
			Dictyosphaerium				Genus
			Actinastrum				Genus
			Crucigenia				Genus
			Scenedusmus				Genus
			Micractinium				Genus
			<u>Euglenophyta</u>				
			Trachelomonas				Genus
			<u>Chsysisophyta</u>				
			Cyclotella				Genus
			Melosira				Genus
			Diatoma				Genus
			Asterionella				Genus
			Fragilaria				Genus
			Synedra				Genus
			Achanathes				Genus
			Cocconeis				Genus
			Amphipleura				Genus
			Gomphonema				Genus
			Cymbella				Genus
			Nitzschia				Genus
			<u>Cyanophyta</u>				
			Gomphosphaeria				Genus
			Anacystis				Genus
			Agmenellum				Genus
			Lyngbya				Genus
			Oscillatoria				Genus
			Anabaena				Genus
			Aphanizomenon				Genus

Table 8.--Biological determinations--continued

Lab or schedule code	Class	WATSTORE code	Parameter name and unit of measurement	Cost	Volume	Sample design- nation	Detection level
<u>Zooplankton</u>							
LC0583	Custom	70947	Zooplankton, dry weight (g/cu m)	\$ 9.00	-----	Z00	--
LC0584	Custom	70948	Zooplankton, ash weight (g/cu m)	8.00	-----	Z00	--
SH1515	Custom		Zooplankton (The cost of this analysis will vary with the identification level desired).	-----	-----	Z00	
		70946	Total (organisms/sq m)				--
		-----	Taxonomic identification				--

Table 9.--Calculated inorganic parameters

Parameter to be calculated			Analytical requirements for calculations		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0150	00435	Acidity, dissolved (mg/L as CaCO <sub>3</sub> )	LC0001	71825	Acidity, dissolved (mg/L as H)
LC0230	01107	Aluminum, suspended recoverable (ug/L as Al)	LC0004 LC0003	01106 01105	Aluminum, dissolved (ug/L as Al) Aluminum, total recoverable (ug/L as Al)
LC0078	01096	Antimony, suspended total (ug/L as Sb)	LC0077 LC0080	01095 01097	Antimony, dissolved (ug/L as Sb) Antimony, total (ug/L as Sb)
LC0231	01001	Arsenic, suspended total (ug/L as As)	LC0112 LC0118	01000 01002	Arsenic, dissolved (ug/L as As) Arsenic, total (ug/L as As)
LC0233	01006	Barium, suspended recoverable (ug/L as Ba)	LC0007 LC0234	01005 01007	Barium, dissolved (ug/L as Ba) Barium, total recoverable (ug/L as Ba)
LC0235	01011	Beryllium, suspended recoverable (ug/L as Be)	LC0170 LC0236	01010 01012	Beryllium, dissolved (ug/L as Be) Beryllium, total recoverable (ug/L as Be)
LC0270	01021	Boron, suspended recoverable (ug/L as B)	LC0010 LC0271	01020 01022	Boron, dissolved (ug/L as B) Boron, total recoverable (ug/L as B)
LC0241	01026	Cadmium, suspended recoverable (ug/L as Cd)	LC0126 LC0242	01025 01027	Cadmium, dissolved (ug/L as Cd) Cadmium, total recoverable (ug/L as Cd)
LC0243	-----	Calcium, suspended recoverable (mg/L as Ca)	LC0012 LC0324	00915 00916	Calcium, dissolved (mg/L as Ca) Calcium, total recoverable (mg/L as Ca)

Table 9.--Calculated inorganic parameters--Continued

Parameter to be calculated			Analytical requirements for calculations		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0245	01031	Chromium, suspended recoverable (ug/L as Cr)	LC0017 LC0246	01030 01034	Chromium, dissolved (ug/L as Cr) Chromium, total recoverable (ug/L as Cr)
LC0247	01036	Cobalt, suspended recoverable (ug/L as Co)	LC0018 LC0248	01035 01037	Cobalt, dissolved (ug/L as Co) Cobalt, total recoverable (ug/L as Co)
LC0249	01041	Copper, suspended recoverable (ug/L as Cu)	LC0022 LC0250	01040 01042	Copper, dissolved (ug/L as Cu) Copper, total recoverable (ug/L as Cu)
LC0793	80050	Gross beta radioactivity, dissolved (pCi/L as Sr-90/Y-90)	LC0798	03515	Gross beta radioactivity, dissolved (pCi/L as Cs-137)
LC0445	80050	Gross beta radioactivity, dissolved (pCi/L as Sr-90/Y-90)	LC0455	03515	Gross beta radioactivity, dissolved (pCi/L as Cs-137)
LC0447	80006	Gross beta radioactivity, suspended (pCi/L as Sr-90/Y-90)	LC0456	03516	Gross beta radioactivity, suspended (pCi/L as Cs-137)
LC0213	-----	Gross beta radioactivity, total (pCi/L as Sr-90/Y-90)	LC0210	-----	Gross beta radioactivity, total (pCi/L as Cs-137)
LC0033	00900	Hardness (mg/L as CaCO <sub>3</sub> )	LC0012 LC0040	00915 00925	Calcium, dissolved (mg/L as Ca) Magnesium, dissolved (mg/L as Mg)
LC0032	00902	Hardness, noncarbonate (mg/L as CaCO <sub>3</sub> )	LC0012 LC0040 LC0070	00915 00925 00410	Calcium, dissolved (mg/L as Ca) Magnesium, dissolved (mg/L as Mg) Alkalinity, dissolved (mg/L as CaCO <sub>3</sub> )



Table 9.--Calculated inorganic parameters--Continued

Parameter to be calculated			Analytical requirements for calculation		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0275	01044	Iron, suspended recoverable (ug/L as Fe)	LC0172 LC0189	01046 01045	Iron, dissolved (ug/L as Fe) Iron, total recoverable (ug/L as Fe)
LC0256	01050	Lead, suspended recoverable (ug/L as Pb)	LC0038 LC0257	01049 01051	Lead, dissolved (ug/L as Pb) Lead, total recoverable (ug/L as Pb)
LC0276	01131	Lithium, suspended recoverable (ug/L as Li)	LC0039 LC0277	01130 01132	Lithium, dissolved (ug/L as Li) Lithium, total recoverable (ug/L as Li)
LC0260	00926	Magnesium, suspended recoverable (mg/L as Mg)	LC0040 LC0325	00925 00927	Magnesium, dissolved (ug/L as Mg) Magnesium, total recoverable (mg/L as Mg)
LC0262	01054	Manganese, suspended recoverable (ug/L as Mn)	LC0042 LC0041	01056 01055	Manganese, dissolved (ug/L as Mn) Manganese, total recoverable (ug/L as Mn)
LC0263	71895	Mercury, suspended recoverable (ug/L as Hg)	LC0226 LC0227	71890 71900	Mercury, dissolved (ug/L as Hg) Mercury, total (ug/L as Hg)
LC0264	01061	Molybdenum, suspended recoverable (ug/L as Mo)	LC0110 LC0265	01060 01062	Molybdenum, dissolved (ug/L as Mo) Molybdenum, total recoverable (ug/L as Mo)
LC0266	01066	Nickel, suspended recoverable (ug/L as Ni)	LC0044 LC0267	01065 01067	Nickel, dissolved (ug/L as Ni) Nickel, total recoverable (ug/L as Ni)
LC0005	71846	Nitrogen, ammonia, dissolved (mg/L as NH <sub>4</sub> )	LC0301	00608	Nitrogen, ammonia, dissolved (mg/L as N)

Table 9.--Calculated inorganic parameters--Continued

Parameters to be calculated			Analytical requirements for calculation		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0269	00624	Nitrogen, ammonia plus organic, suspended (mg/L as N)	LC0268	00623	Nitrogen, ammonia plus organic, dissolved (mg/L as N)
			LC0084	00625	Nitrogen, ammonia plus organic, total (mg/L as N)
LC0841	00618	Nitrogen, nitrate, dissolved (mg/L as N)	LC0826	00631	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)
			LC0827	00613	Nitrogen, nitrite, dissolved (mg/L as N)
LC0167	00618	Nitrogen, nitrate, dissolved (mg/L as N)	LC0228	00631	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)
			LC0160	00613	Nitrogen, nitrite, dissolved (mg/L as N)
LC0045	71851	Nitrogen, nitrate, dissolved (mg/L as NO <sub>3</sub> )	LC0228	00631	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)
			LC0160	00613	Nitrogen, nitrite, dissolved (mg/L as N)
LC0842	00620	Nitrogen, nitrate, total (mg/L as N)	LC0839	00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)
			LC0840	00615	Nitrogen, nitrite, total (mg/L as N)
LC0046	71856	Nitrogen, nitrite, dissolved (mg/L as NO <sub>2</sub> )	LC0160	00613	Nitrogen, nitrite, dissolved (mg/L as N)
LC0161	00607	Nitrogen, organic, dissolved (mg/L as N)	LC0301	00608	Nitrogen, ammonia, total (mg/L as N)
			LC0268	00623	Nitrogen, ammonia plus organic, dissolved (mg/L as N)
LC0071	00605	Nitrogen, organic, total (mg/L as N)	LC0123	00610	Nitrogen, ammonia, total (mg/L as N)
			LC0084	00625	Nitrogen, ammonia plus organic, total (mg/L as N)

Table 9.--Calculated inorganic parameters--Continued

Parameters to be calculated			Analytical requirements for calculation		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0072	00600	Nitrogen, total (mg/L as N)	LC0084	00625	Nitrogen, ammonia plus organic, total (mg/L as N)
			LC0304	00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)
LC0278	71887	Nitrogen, total (mg/L as NO <sub>3</sub> )	LC0084	00625	Nitrogen, ammonia plus organic, total (mg/L as N)
			LC0304	00630	Nitrogen, nitrite plus nitrate, total (mg/L as N)
LC0281	00673	Phosphorus, organic, dissolved (mg/L as P)	LC0128	00666	Phosphorus, dissolved (mg/L as P)
			LC0280	00672	Phosphorus, hydrolyzable, dissolved (mg/L as P)
			LC0162	00671	Phosphorus, orthophosphate, dissolved (mg/L as P)
LC0284	00670	Phosphorus, organic, total (mg/L as P)	LC0283	00669	Phosphorus, hydrolyzable, total (mg/L as P)
			LC0297	70507	Phosphorus, orthophosphate, (mg/L as P)
			LC0129	00665	Phosphorus, total (mg/L as P)
LC0130	71886	Phosphorus, total (mg/L as PO <sub>4</sub> )	LC0129	00665	Phosphorus, total (mg/L as P)
LC0457	-----	Potassium-40, dissolved (pCi/L as K-40)	LC0054	00935	Potassium, dissolved (mg/L as K)
LC0285	01146	Selenium, suspended (ug/L as Se)	LC0087	01145	Selenium, dissolved (ug/L as Se)
			LC0286	01147	Selenium, total (ug/L as Se)
LC0287	01076	Silver, suspended recoverable (ug/L as Ag)	LC0166	01075	Silver, dissolved (ug/L as Ag)
			LC0288	01077	Silver, total recoverable (ug/L as Ag)

Table 9.--Calculated inorganic parameters--Continued

Parameters to be calculated			Analytical requirements for calculations		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0057	0931	Sodium absorption ratio	LC0012	00915	Calcium, dissolved (mg/L as Ca)
			LC0040	00925	Magnesium, dissolved (mg/L as Mg)
			LC0054*	00935	Potassium, dissolved (mg/L as K)
			LC0059	00930	Sodium, dissolved (mg/L as Na)
LC0060	00932	Sodium, percent	LC0012	00915	Calcium, dissolved (mg/L as Ca)
			LC0040	00925	Magnesium, dissolved (mg/L as Mg)
			LC0059	00930	Sodium, dissolved (mg/L as Na)
			LC0054	00935	Potassium, dissolved (mg/L as K)
LC0029	70303	Solids, dissolved (tons per acre-foot)	LC0027	70300	Solids, residue on evaporation at 180°C, dissolved (mg/L)
			LC0028**	70301	Solids, sum of constituents, dissolved (mg/L)
			LC0061	00061	Streamflow, instantaneous (cubic feet pr second)
LC0030	70302	Solids, dissolved (tons per day)	LC0027	70300	Solids, residue on evaporation at 180°C, dissolved (mg/L)
			LC0028**	70301	Solids, sum of constituents, dissolved (mg/L)
			LC0061	00061	Streamflow, instantaneous (cubic feet per second)
LC0028	70301	Solids, sum of constituents, dissolved (mg/L)	LC0012	00915	Calcium, dissolved (mg/L as Ca)
			LC0040	00925	Magnesium, dissolved (mg/L as Mg)
			LC0054*	00935	Potassium, dissolved (mg/L as K)
			LC0059	00930	Sodium, dissolved (mg/L as Na)
			LC0015	00940	Chloride, dissolved (mg/L as Cl)
			LC0056	00955	Silica, dissolved (mg/L as SiO <sub>2</sub> )
			LC0063	00945	Sulfate, dissolved (mg/L as SO <sub>4</sub> )
			LC0070	00410	Alkalinity, dissolved (mg/L as CaCO <sub>3</sub> )

\* If potassium, dissolved (LC0054) is not determined, calculation will proceed without it.

\*\* LC0028 is used only if LC0027 (Solids, residue on evaporation at 180°C, dissolved) has not been determined.

Table 9.--Calculated inorganic parameters--Continued

Parameters to be calculated			Analytical requirements for calculations		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0322	00540	Solids, non-volatile, suspended (mg/L)	LC0169	00530	Solids, residue at 105°C, (mg/L)
			LC0049	00535	Solids, volatile on ignition suspended (mg/L)
LC0086	00510	Solids, non-volatile, total (mg/L)	LC0085	00505	Solids, volatile on ignition, (mg/L)
			LC0165	05000	Solids, residue at 105°C, total (mg/L)
LC0289	01081	Strontium, suspended recoverable (ug/L as Sr)	LC0062	01080	Strontium, dissolved (ug/L as Sr)
			LC0290	01082	Strontium, total recoverable (ug/L as Sr)
LC0291	01101	Tin, suspended recoverable (ug/L as Sn)	LC0225	01100	Tin, dissolved (ug/L as Sn)
			LC0292	01102	Tin, total recoverable (ug/L as Sn)
LC0295	01091	Zinc, suspended recoverable (ug/L as Zn)	LC0067	01090	Zinc, dissolved (ug/L as Zn)
			LC0296	01092	Zinc, total recoverable (ug/L as Zn)

Table 10.--Calculated organic parameters

Parameters to be calculated			Analytical requirements for calculation		
Lab code	WATSTORE code	Parameter name and unit of measurement	Lab code	WATSTORE code	Parameter name and unit of measurement
LC0043	00690	Carbon, total (mg/L as C)	LC0114	00680	Carbon, organic, total (mg/L as C)
			LC0019	00685	Carbon, inorganic, total (mg/L as C)



Table 11.--Calculated parameters for analyses of sediments

Parameters to be calculated			Analytical requirements for calculation		
Lab code	WATSTORE code	Parameter name	Lab code	WATSTORE code	Parameter name
LC0504	00687	Carbon, organic, total in bottom material, dry weight (g/kg as N)	LC0503	00686	Carbon, inorganic, total in bottom material (g/kg as C)
			LC0133	00693	Carbon, total in bottom material (g/kg as C)
LC0219	00603	Nitrogen, total in bottom material, dry wt (mg/kg as N)	LC0514	00626	Nitrogen, ammonia plus organic, total in bottom material, dry wt (mg/kg as N)
			LC0513	00633	Nitrogen, nitrite plus nitrate, total in bottom material, dry wt (mg/kg as N)





Table 12.--Calculated biological parameters

Parameters to be calculated			Analytical requirements for calculations		
Lab code	WATSTORE code	Parameter name	Lab code	WATSTORE	Parameter name
LC0622	70949	Biomass chlorophyll ratio, phytoplankton	LC0586	70953	Chlorophyll A, phytoplankton (ug/L)
			LC0620	-----	Biomass, phytoplankton, dry wt (mg/L)
			LC0621	-----	Biomass, phytoplankton, ash wt (mg/L)
LC0627	70950	Biomass chlorophyll ratio, periphyton	LC0588	70957	Chlorophyll A, periphyton (mg/sq m)
			LC0603	00573	Biomass, periphyton, dry wt (g/sq m)
			LC0611	00572	Biomass, periphyton, ash wt (g/sq m)

Table 13.--Containers and treatments required for inorganic determinations

Determinations	Container	Treatment and/or preservation	Sample designation
Acidity Alkalinity Fluoride, total pH Solids, total  Specific conductance	500 mL polyethylene, jet rinsed	Untreated.	RU*
Antimony, dissolved Arsenic, dissolved Cations, major cations, dissolved Mercury, dissolved Metals, trace metals, dissolved  Selenium, dissolved	500 mL polyethylene, jet rinsed	Filter thru 0.45 micron filter. Acidify with HNO <sub>3</sub> to pH<2.	FA*
Anions, major anions, dissolved Boron, dissolved Bromide, dissolved Density, Iodide, dissolved  Solids, dissolved Vanadium, dissolved	500 mL polyethylene, jet rinsed	Filter thru 0.45 micron filter.	FU
Carbon-13/carbon-12	Glass bottle, field rinsed	Untreated.	LC0440
Carbon-14, age	Steel barrel	Untreated.	LC0439
Cyanide, dissolved	500 mL polyethylene, jet rinsed	Add NaOH to pH 12. Chill and maintain at 4°C.	LC0082
Deuterium/hydrogen	Glass bottle, field rinsed	Seal bottle with wax.	LC0300

\* More than one bottle may be required depending on combination of constituents.

Table 13.--Containers and treatments required for inorganic determinations--Continued

Determinations	Container	Treatment and/or preservation	Sample designation
Gross alpha, dissolved (GW) Gross beta, dissolved (GW) Isotopes, radioisotopes dissolved (GW)	4000 mL polyethylene, acid washed	Filter thru 0.45 micron filter. Acidify with HCl to pH 2.	FAC
Gross alpha, dissolved (SW) Gross beta, dissolved (SW) Radioisotopes, dissolved (SW) Uranium, dissolved (SW)	4000 mL polyethylene, acid washed	Untreated.	RUC
Metals, ultra-trace metals, dissolved	250 mL Teflon bottle, acid rinsed	Filter thru 0.45 micron filter. Acidify with ultra pure HNO <sub>3</sub> to pH 2.	FAB
Nutrients, major nutrients, dissolved	250 mL brown polyethylene, field rinsed	Filter thru 0.45 micron filter. Add 1 HgCl <sub>2</sub> pellet. Chill and maintain at 4°C.	FC
Oxygen-18/oxygen-16	100 mL glass bottle, field rinsed	Seal bottle with wax.	LC0489
Radon-222	Glass tubes	Contact laboratory.	LC0490
Radon-222, gas	Stainless steel cylinder	Untreated gaseous sample. Contact laboratory.	LC0491
Sulfur-34/sulfur-32	Glass bottle, field rinsed	Contact laboratory.	
Solids, suspended	500 mL polyethylene, jet rinsed	Untreated.	RUB
Antimony, total Arsenic, total Cations, major cations, total recoverable (EPA) Mercury, total recoverable Selenium, total	250 mL polyethylene, field rinsed	Untreated.	RAH

Table 13.--Containers and treatments required for inorganic determinations--Continued

Determinations	Container	Treatment and/or preservation	Sample designation
Boron, total Cations, major cations, total recoverable Metals, trace metals, total recoverable	500 mL polyethylene, jet rinsed	Acidify with HNO <sub>3</sub> to pH<2.	RA*
COD, total recoverable	500 mL polyethylene, jet rinsed	Add H <sub>2</sub> SO <sub>4</sub> to pH<2.	LC0007
Color	500 mL polyethylene, jet rinsed	Chill and maintain at 4°C	RCB
Cyanide, total	500 mL polyethylene, jet rinsed	Add NaOH to pH 12. Chill and maintain at 4°C.	LC0023
Metals, ultra-trace metals, total recoverable	250 mL Teflon bottle, acid rinsed	Acidify with ultra pure HNO <sub>3</sub> to pH<2.	RAB
Nutrients, major nutrients, total	250 mL brown polyethylene, field rinsed	Add 1 HgCl <sub>2</sub> /NaCl pellet. Chill and maintain at 4°C.	RC
Sulfide, total	500 mL polyethylene, jet rinsed	Add 1g zinc acetate (2 g/L).	LC0089
Tritium	Glass bottle	Untreated.	LC0169
Turbidity	250 mL polyethylene	Untreated.	RUT

\* More than one bottle may be required depending on combination of constituents requested.

Table 14.--Containers and treatments required for organic determinations

Determinations	Container	Treatment and/or preservation	Sample designation
Carbamate insecticides	1 L glass bottle supplied by Central Laboratory. Baked at 350°C prior to use.	Chill and maintain at 4°C	GCC
Herbicides	1 L glass bottle supplied by Central Laboratory. Baked at 350°C prior to use.	Chill and maintain at 4°C	GCH
Industrial compounds (PCBs and PCNs) Organochlorine insecticides Organophosphorus insecticides	1 L glass bottle supplied by Central Laboratory. Baked at 350°C prior to use.	Chill and maintain at 4°C	GCI
Kepone	1 L glass bottle supplied by Central Laboratory. Baked at 350°C prior to use.	Chill and maintain at 4°C	GCK
Munition products	1 L glass bottle supplied by Central Laboratory. Baked at 350°C prior to use.	Chill and maintain at 4°C	GCX
Triazine herbicides	1 L glass bottle. by Central Laboratory. Baked at 350°C prior to use.	Chill and maintain at 4°C	GCT
DOC	4 oz. glass bottle. by Central Laboratory Baked at 350°C prior to use.	Filter using silver filter. Chill and maintain at 4°C.	LC0113
SOC	0.45 U silver filter shipped in petri dish.	Retain sample on silver filter. Chill and maintain at 4°C. Record volume filtered.	LC0305

Table 14.--Containers and treatments required for organic determinations--Continued

Determinations	Container	Treatment and/or preservation	Sample designation
TOC	4 oz. glass bottle.	Chill and maintain at 4°C.	LC0114
Oil and grease	1 L glass bottle supplied by Central Laboratory. Baked at 350°C prior to use.	Add 5.0 mL H <sub>2</sub> SO <sub>4</sub> to mL (to pH 2). Do not fill bottle full. Chill and maintain at 4°C.	LC0127
Volatile organics	140 mL septum bottle.	Chill and maintain at 4°C.	GCV
Phenol	1 L plastic bottle. by Central Laboratory. Baked at 350°C prior to use.	Add 1 g CuSO <sub>4</sub> and 1 mL H <sub>3</sub> PO <sub>4</sub> (to pH 4) per liter, chill and maintain at 4°C.	LC0052

Table 15.--Containers and treatments required for chemical analyses and physical properties of sediments

Determinations	Container	Treatment and/or preservation	Sample designation
Inorganic (except nutrients)	Plastic freezer carton	Untreated	CU
Inorganic (nutrients) Organic (gross measures)	Plastic freezer carton	Chill and maintain at 4°C.	CC
Chlorinated phenoxy acid herbicides Industrial chemicals (PCBs and PCNs) Kepone Munition products Organochlorine insecticides Organophosphorus insecticides	Glass, wide mouth pint bottle supplied by Central Laboratory. Baked at 350°C prior to use.	Chill and maintain at 4°C before shipment.	GB
Physical properties of sediments	-----	Contact Denver Central Laboratory	PP



Table 16.--Containers and treatments required for biological determinations

Determinations	Container	Treatment and/or preservation	Sample designation
Adenosine triphosphate phytoplankton (ATP)	Glass vial	Contact Atlanta Central Laboratory.	LC0616
Algal growth potential	Plastic bottle	Chill and maintain at 4°C. Keep in dark.	LC0055
Benthic invertebrates	Plastic bottle	Add 70 percent isopropanol and ship immediately.	BEN
Chlorophyll, periphyton	Strips in wide mouth glass jar	Chill and maintain at 4°C. Keep in dark.	CHE
Chlorophyll, phytoplankton	Glass filter in glass bottle	Collect on glass filter. Chill to 4°C. Keep in dark. Record volume filtered.	CHY
Periphytic, diatoms, taxonomic		Contact Atlanta Central Laboratory.	DIA
Periphyton, taxonomic		Contact Atlanta Central Laboratory.	PER
Photosynthesis, carbon-14	Glass vial	Contact Denver Central Laboratory.	LC0438
Phytoplankton	Plastic bottle	Add 40 mL formalin-CuSO <sub>4</sub> solution plus 4 mL detergent per liter of sample.	PHY
Seston	Plastic bottle	Add 1 mg/L mercury chloride.	ST

Table 17.--Containers, sample bottles, supplies and materials available  
through the Central Laboratories

[Table will be issued about September 1, 1979, after the open  
period on restructuring district schedules]

Table 18.--Agency codes (00027 and 00028)

Parameter codes: 00027, code for agency collecting sample;  
00028, code for agency analyzing sample

<u>Value</u>	<u>Agency</u>
00500	- U.S. Department of Agriculture (USDA)
00504	- Agricultural Research Service (USDA)
00520	- Soil Conservation Service (USDA)
00596	- Forest Service (USDA)
00600	- Department of Commerce (USDA)
00642	- National Industrial Pollution Control Council (USDA)
00648	- National Oceanic and Atmospheric Admin. (USDA)
00655	- National Bureau of Standards (USDA)
00700	- U.S. Department of Defense (DOD)
00701	- Air Force (DOD)
00702	- Army (DOD)
00703	- Marines (DOD)
00704	- Navy (DOD)
00800	- U.S. Department of Defense - Civil (DOD)
00810	- Corps of Engineers (DOD)
00900	- U.S. Dept. of Health, Education & Welfare (HEW)
00910	- Food and Drug Administration (HEW)
00915	- Environmental Health Service (HEW)
00930	- National Institute of Health (HEW)
01000	- U.S. Department of the Interior (DOI)
01004	- Bureau of Land Management (DOI)
01008	- Bureau of Indian Affairs (DOI)
01016	- Bureau of Outdoor Recreation (DOI)
01028	- Geological Survey (DOI)
01032	- Bureau of Mines (DOI)
01050	- Bureau of Sport Fisheries & Wildlife (DOI)
01053	- National Park Service (DOI)
01060	- Bureau of Reclamation (DOI)
01062	- Alaska Power Administration (DOI)
01064	- Bonneville Power Administration (DOI)

Table 18.--Agency codes (00027 and 00028)--Continued

Parameter codes: 00027, code for agency collecting sample;  
00028, code for agency analyzing sample

<u>Value</u>	<u>Agency</u>
01068	- Southeastern Power Administration (DOI)
01072	- Southwestern Power Administration (DOI)
01076	- Office of Saline Water (DOI)
01086	- Office of Water Resources Research (DOI)
01800	- U.S. Department of Energy
02000	- U.S. Environmental Protection Agency
02100	- U.S. Department of Transportation
02300	- General Services Administration
02500	- Department of Housing and Urban Development
02700	- National Aeronautics & Space Administration
03315	- Tennessee Valley Authority
03335	- Water Resources Council
06001	- Association of Bay Area Governments, California
06010	- Calif. Regional Water Quality Control Board, North Coast Region
097XX	- State health laboratories: where XX = state code
09801	- Private Laboratory
09802	- Saltriver Valley Users Association
09803	- Metropolitan Water District of So. CA
09804	- Florida Department of Pollution Control
09805	- Central & Southern Florida Flood Control Dist.
09806	- Florida Game & Fresh Water Fish Commision
09807	- Florida Dept. of Health & Rehabilitative Serv.
09808	- Southwest Florida Water Management Distirct
09809	- City of Jacksonville, Florida
09810	- Reedy Creek Improvement District, Florida
09811	- Orange County Pollution Cont. Dept., Florida
09812	- Brevard County Pollution Control Dept., Florida
09813	- Pennsylvania Dept. of Environmental Resources
09814	- Alaska Department of Fish and Game

Table 18.--Agency codes (00027 and 00028)--Continued

Parameter codes: 00027, code for agency collecting sample;  
00028, code for agency analyzing sample

<u>Value</u>	<u>Agency</u>
09815	- Alaska Dept. of Environmental Conservation
09816	- California Department of Water Resources
09817	- Orange County Water District, Calif.
09818	- Hillsborough County Environmental Protection Commission, Florida
09819	- Nassau County Department of Health, N.Y.
09820	- Suffolk County Department of Health, N.Y.
09821	- Suffolk County Dept. of Environmental Control, N.Y.
09822	- Suffolk County Water Authority, N.Y.
09823	- Alameda County Water District, Calif.
09824	- Alameda County Flood Control and Water Conservation District, Zone No. 7, Calif.
09825	- Valley Community Services District (Livermore), Calif.
09826	- City of Livermore Waste Treatment Plant, Calif.
09827	- Arkansas Department of Pollution Control and Ecology
09828	- Arkansas Game and Fish Commission
09829	- Nassua County Department of Public Works
09830	- Industry Laboratory
09831	- University of Iowa, State Hygenic Laboratory
09901	- Educational
09902	- University of Arizona
09903	- University of Florida
09904	- Florida State University
09905	- Florida Technological University
09999	- Other
12001	- City of Tampa, Florida
12010	- Palm Beach County Engineer
12020	- Palm Beach County Health Department
12030	- Dade County Department of Environmental Resources Management

Table 18.--Agency codes (00027 and 00028)--Continued

Parameter codes: 00027, code for agency collecting sample;  
00028, code for agency analyzing sample

<u>Value</u>	<u>Agency</u>
16001	- Idaho Department of Water Resources
16002	- Idaho Department of Health and Welfare
17003	- Illinois State Water Survey
17001	- Illinois, Metropolitan Sanitary District of Greater Chicago
17002	- Illinois Environmental Protection Agency
17001	- Metropolitan Sanitary District of Greater Chicago (MSD)
17002	- Illinois Environmental Protection Agency (IEPA)
17003	- Illinois State Water Survey (ISWS)
20001	- Kansas State Geological Survey
20002	- Kansas State Department of Health and Environment
28001	- Mississippi Air and Water Pollution Control Commission
28002	- Mississippi Geological Survey
30010	- Montana Bureau of Mines and Geology
32001	- Division of Environmental Protection
32003	- Nevada Division of Water Resources
32005	- University of Nevada, Division of Renew. Natural Resources
32006	- Nevada Bureau of Environmental Health
32007	- Nevada Bureau of Mines and Geology
32009	- Nevada Department of Fish and Game
32010	- Nevada Division of Forestry
32011	- Nevada Division of Parks
32012	- Nevada Consumer Health Protection Service
32013	- University of Nevada, Desert Research Institute

Table 18.--Agency codes (00027 and 00028)--Continued

Parameter codes: 00027, code for agency collecting sample;  
00028, code for agency analyzing sample

<u>Value</u>	<u>Agency</u>
32014	- University of Nevada, College of Agriculture
32015	- Clark County District Health Department
32016	- Washoe County District Health Department
32017	- Las Vegas Valley Water District
32018	- Sierra Pacific Power Company
32019	- Nevada Bureau of Laboratories and Research
32091	- Washoe County COG, Nev.
32092	- Clark County COG, Nev.
32093	- Municipal Water Company
34001	- New Jersey Department of Environmental Protection
38001	- North Dakota Geological Survey
38002	- North Dakota State Water Commission
47001	- University of Tennessee at Knoxville
8XXYY	- <u>Geological Survey and cooperating analytical services laboratories</u>
	where XX = State code and YY = Laboratory number: 00-39 = Survey labs; 40-99 = Cooperator labs
80010	- Atlanta Central Laboratory, Ga.
80020	- Denver Central Laboratory, Colo.
80140	- Alabama, Geological Survey of Alabama
80241	- Alaska Department of Environmental Conservation
81341	- Georgia State Natural Resources Department
81641	- Idaho, Department of Health & Welfare, Bureau of Laboratories
81741	- Illinois, Bloomington Normal Sanitary District

Table 18.--Agency codes (00027 and 00028)--Continued

Parameter codes: 00027, code for agency collecting sample;  
00028, code for agency analyzing sample

Value

Agency

8XXYY--continued

81941 - Iowa State Hygienic Laboratory  
 82241 - Louisiana, Gulf South Research Institute  
 82341 - Maine, Dept. of Environmental Protection  
 82641 - Michigan, Washtenaw County Health Dept.  
 82841 - Missouri Department of Natural Resources  
 83041 - Montana Bureau of Mines and Geology  
 83341 - New Hampshire Water Supply & Pollution  
           Control Commission Laboratory  
 83441 - New Jersey Dept. of Health Laboratory  
 83541 - New Mexico, University of New Mexico  
 83542 - New Mexico, USBIA Soil, Water, and  
           Material Testing Laboratory  
 83741 - North Carolina Dept. of Natural and  
           Economic Resources  
 83841 - North Dakota State Laboratory  
 84041 - Oklahoma Geological Survey  
 84042 - Oklahoma State Health Department  
 84741 - Tennessee, University of Tennessee  
 85341 - Washington, AM Test Inc.  
 85342 - Washington, Municipality of  
           Metropolitan Seattle  
 85343 - Washington State Dept. of Ecology  
 85541 - Wisconsin, Mayo Clinic, University of  
           Wisconsin  
 85542 - Wisconsin, University of Wisconsin  
           Extension  
 85543 - Wisconsin, State Laboratory of Hygiene  
 85641 - Wyoming Department of Agriculture