ARIZONA DEPARTMENT OF HEALTH SERVICES
PREPAREDNESS

Environmental Laboratory Licensure Application

Instructions

Laboratory Licensure and Certification
250 N. 17th Avenue
Phoenix, AZ 85007-3231
602-364-0720
FAX 602-364-0759

This application is for laboratories seeking licensure under the Arizona Environmental Laboratory Licensure Act, enacted as A.R.S. 36-495 through 36-495.16, and must be used for laboratory licensure under A.A.C. R9-14-601 et. seq.

A.R.S. 48-3644: Notice of prohibited acts by district and employees; enforcement notice.

B. Unless specifically authorized, a district shall avoid duplication of other laws or executive orders that do not enhance regulatory clarity and shall avoid dual permitting to the maximum extent practicable.
C. This section does not prohibit district flexibility to issue licenses or adopt ordinances or regulations.
D. A district shall not request or initiate discussions with a person about waiving that person's rights.
E. This section may be enforced in a private civil action and relief may be awarded against the district. The court shall award reasonable attorney fees, lost opportunity costs, delay costs, damages and all fees associated with the license application to a party that prevails in an action against the district for a violation of this section.
F. A district employee may not participate in a violation of this section.

IT IS NOT NECESSARY TO RETURN THE INSTRUCTIONS ALONG WITH YOUR APPLICATION.
PLEASE NOTE THAT THE APPLICATION FEE IS REQUIRED TO PROCESS YOUR APPLICATION.

1. This application packet consists of:
   PART A Information on the Laboratory and Non-Refundable Application fees
   PART B Section no longer required in rules
   PART C Fields of Testing
   PART D Laboratory Instrumentation/Equipment and Data Collection/Reduction Software
   PART E A list of Director Approved Methods and instructions for director approved methods.

2. Please **TYPE OR PRINT LEGIBLY** all information requested. Illegible information may result in a delay of the application process.

3. PART A – All sections must be completed. The application **MUST** be signed by the appropriate laboratory representatives (owner, as defined in Part A, and laboratory director) and **notarized**. Applicants with multiple laboratories (including mobiles) must complete and **notarize** separate applications for each laboratory. Original, **notarized** PART A sections must accompany all applications. **PHOTOCOPIES OR FACSIMILES OF PART A ARE NOT ACCEPTABLE.** Refer to A.R.S. 36.495.03.D, A.A.C. R9-14-601.7, and A.A.C. R9-14-603.A.1.h.i & ii.

4. PART C - Select from each type of matrix tested the analyte parameters and corresponding method(s) appropriate to the scope of the laboratory. Refer to A.A.C. R9-14-610.A for the approved method references. These fees are **non-refundable**. (FOR RENEWAL APPLICATIONS ONLY: Indicate CHANGES in the approved references and methods for EACH analyte and HIGHLIGHT any **ADDITION** or **DELETION**.)

5. PART D - Identify the instrumentation, laboratory equipment, and software available in the laboratory that will be used for the compliance testing and data collection/data reduction interpretation pertaining to this application. (FOR RENEWAL APPLICATIONS ONLY: Identify CHANGES in the instrumentation, laboratory equipment and software and indicate whether it is to be **ADDED** or **DELETED**.) You **will be billed** for every instrument/equipment listed. You **will not be billed** for the software listed. These fees will be included with the method (parameter) fees.

6. PART E – A list of Director Approved methods approved for use after the administrative rules were promulgated.

7. For an **initial application**:
   a. A copy of a proficiency testing report for the state in which the laboratory is located (home state) or, if that state does not require proficiency testing, for another state in which the laboratory is licensed or certified, for the current or most recently completed year, for each of the parameters for which licensure is requested;

   b. A list of the states in which the laboratory is licensed or certified and the corresponding license or certificate number for each state; and

   c. A copy of a current quality assurance plan for the laboratory (this may be provided electronically in the form of pdf or word files);

   d. A payment in the total amount of application, method, proficiency ($130), and information update fees for out-of-state ($126);

8. For a **renewal application:**
   a. For each new parameter being requested on the application, a copy of a current standard operating procedure, limit of detection, and proficiency testing report (if available) should be included [Questions concerning this please call (602) 364-0720].

   b. If the applicant is requesting to make payment in installments under A.A.C. R9-14-608 then they should provide an indication of this and a payment plan for the fees.

   c. A payment in the total amount of application, method, proficiency, and information update fees.

A laboratory may submit only the pertinent pages of Parts C – E of the application along with a note stating that pages x through y are not being submitted. Part A should always be submitted. If you are not submitting all the pages, you must submit a note stating the pages not included or there may be a delay in processing your application.

9. Fees for any out-of-state travel will be computed by the Department of Health Services and will be billed to the laboratory. An out of state laboratory must post a bond with the department in the form of a check, in an amount sufficient to cover all on-site inspection and investigation costs incurred by the Department.

10. Photocopy PARTS A-D and retain for your information.

11. Return the **Original NOTARIZED application** and **NON-REFUNDABLE application fee** to:

ARIZONA DEPARTMENT OF HEALTH SERVICES
State Laboratory Services
Office of Laboratory Certification and Licensure – Environmental Licensure
250 N. 17th Avenue
Phoenix, AZ 85007-3231

13. THE LABORATORY **MUST** INFORM THE ENVIRONMENTAL LABORATORY LICENSURE PROGRAM, DEPARTMENT OF HEALTH SERVICES, **IN WRITING**, OF ANY CHANGES IN LABORATORY NAME, OWNERSHIP, DIRECTORSHIP, OR LOCATION OF THE LABORATORY PER A.A.C. R9-14-603.I WITHIN **20 BUSINESS DAYS AFTER THE CHANGE BY SUBMITTING A NEW, NOTARIZED PART A. NOTIFICATION ON COMPANY LETTERHEAD (without a new PART A) IS NOT ACCEPTABLE.**

PROPRIETARY INFORMATION NOTIFICATION

Information in this application, with the exception of alternate methods approved by ADHS and USEPA, is not considered a trade secret and may be released without review by the Department in accordance with the Public Records Act.

ARIZONA DEPARTMENT OF HEALTH SERVICES
PREPAREDNESS

Environmental Laboratory Licensure Application

PART A - Laboratory Information

Laboratory Licensure and Certification

250 N. 17th Avenue
Phoenix, AZ 85007-3231
602-364-0720
FAX 602-364-0759

THIS FORM IS TO BE USED FOR **FIXED** AS WELL AS **MOBILE** LABORATORIES

ALL SECTIONS OF PART A MUST BE COMPLETED PRIOR TO SUBMITTAL

A.R.S. 48-3644: Notice of prohibited acts by district and employees; enforcement notice.

B. Unless specifically authorized, a district shall avoid duplication of other laws or executive orders that do not enhance regulatory clarity and shall avoid dual permitting to the maximum extent practicable.
C. This section does not prohibit district flexibility to issue licenses or adopt ordinances or regulations.
D. A district shall not request or initiate discussions with a person about waiving that person's rights.
E. This section may be enforced in a private civil action and relief may be awarded against the district. The court shall award reasonable attorney fees, lost opportunity costs, delay costs, damages and all fees associated with the license application to a party that prevails in an action against the district for a violation of this section.
F. A district employee may not participate in a violation of this section.

NON-REFUNDABLE APPLICATION FEES - **CIRCLE APPLICABLE FEE**

Category	Description	Non-Refundable Fee
Single Laboratory classification application fee:		
LEVEL I	A license for compliance testing is limited to 1 to 9 total parameters in any combination of categories of laboratory testing.	$1677.00
LEVEL II	A license for compliance testing is limited to 10 to 17 total parameters in any combination of categories of laboratory testing.	$2130.00
LEVEL III	A license for compliance testing for greater than 17 total parameters in any combination of categories of laboratory testing.	$2348.00
Multiple laboratories applying under the single license option (A.A.C. R9-14-603.): (Available for FIXED and MOBILE ARIZONA BASED Laboratories only.)		
LEVEL I	Each Laboratory	$1442.00
LEVEL II	Each Laboratory	$1895.00
LEVEL III	Each Laboratory	$2130.00
Additional Required Fees	Proficiency Evaluation Fee – All laboratories	$130
	Information Update Fee – Out-of State Laboratories	$126

AZ # (If known): _____ USEPA #: _____

NAME OF LABORATORY: _____

DIVISION: _____

LABORATORY LOCATION: (Actual location)

Street: _____

City: _____

County: _____ State: _____ Zip Code: _____

Telephone: _____ FAX Number: _____

E-mail address: _____

MAILING ADDRESS:

Street: _____

City: _____ State: _____ Zip Code: _____

AS REQUIRED BY A.A.C. R9-14-603.A.1.h.i & ii, PLEASE PROVIDE A LIST OF ALL PERSONS, AND BUSINESS ENTITIES, SUCH AS CORPORATIONS OR PARTNERSHIPS, WHICH HAVE AN OWNERSHIP INTEREST IN THE LABORATORY. INCLUDE THE ADDRESS AND TELEPHONE NUMBER FOR EACH PERSON AND ENTITY LISTED. FOR EACH BUSINESS ENTITY LISTED ABOVE, PROVIDE A LIST OF OFFICERS AND PRINCIPALS FOR EACH ENTITY, AND THE STATUTORY AGENT FOR SERVICE OF PROCESS. ATTACH ANOTHER SHEET IF DESIRED.

_____

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Statutory Agent (If applicable): _____

Laboratory Director: _____

LABORATORY CATEGORY:

☐ Governmental ☐ Commercial (for profit)

☐ Company (internal work only) ☐ Other (specify): _____

IS THIS LABORATORY A MOBILE LABORATORY? ☐ Yes ☐ No

If yes, please complete:

Vehicle Make:_____ Arizona Vehicle License No.: _____

Vehicle ID No.:_____

Is this mobile laboratory affiliated with a nonmobile laboratory? ☐ Yes ☐ No

If yes, please complete the following:

Name of Nonmobile Laboratory: _____

Please select the option that appropriately represents your laboratory organization. As per A.R.S. 36.495.03.D, A.A.C. R9-14-603.A.1.q, the laboratory is required to submit two different names, one for laboratory director and one for owner as defined below. Exceptions are where the owner is the laboratory director.

- ☐ i. If the owner is an individual, the individual;
- ☐ ii. If the owner is a corporation, an officer of the corporation;
- ☐ iii. If the owner is a partnership, one of the partners;
- ☐ iv. If the owner is a limited liability company, a manager or, if the limited liability company does not have a manager, a member of the limited liability company;
- ☐ v. If the owner is an association or cooperative, a member of the governing board of association or cooperative;
- ☐ vi. If the owner is a governmental agency, the individual in the senior leadership position with the agency or an individual designated in writing by the individual; or
- ☐ vii. If the owner is a business organization type other than those described in subsections (A)(1)(q)(ii through (v), an individual who is a member of the business organization.

I hereby make application for a license. I am aware of all applicable requirements in A.R.S. Title 36, Chapter 4.3 and Article 6 and that the information contained in this application, including supplemental pages, is to the best of my knowledge and belief, true and complete.

Printed Name	Signature of Owner/Officer/Partner	Date
Printed Name	Signature of Second Owner/Officer/Partner (If applicable)	Date
Printed Name	Signature of Laboratory Director	Date

STATE OF _____

COUNTY OF _____

Subscribed and sworn before me this _____ day of _____ 20 _____

By _____

NOTARY PUBLIC _____

My Commission Expires _____

ARIZONA DEPARTMENT OF HEALTH SERVICES

PREPAREDNESS

Environmental Laboratory Licensure Application

PART C - Fields of Testing

Laboratory Licensure and Certification

250 N. 17th Avenue
Phoenix, AZ
85007-3231
602-364-0720
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INSTRUCTIONS

Each matrix is listed with the analyte parameters and their approved testing methods presented on the following pages. Select from each type of matrix tested the analyte parameters and corresponding method(s) appropriate to the scope of the laboratory. When selecting Fields of Testing, note the following general guidelines:

Reporting of data to demonstrate compliance for purposes of the U.S. or Arizona Safe Drinking Water Act requires licensure in the **Drinking Water sample matrix;**

Reporting of data to demonstrate compliance under the National Pollutant Discharge Elimination System or a State Wastewater Reuse permit requires licensure in the **Wastewater matrix;**

Reporting of data to demonstrate compliance with provisions of the Hazardous Waste Control requires licensure in the **Waste matrix;**

Reporting of data to demonstrate compliance with provisions of the Arizona Aquifer Protection license program may require accreditation in **both the Drinking Water and Wastewater matrix.**

Required Fees:

Proficiency Evaluation Fee	**$130**	All licensed laboratories must submit this fee with application
Information Update Fee	**$126**	All out-of-state laboratories must submit this fee with application

Circle all methods to be used for each analyte desired. Approved method references may be found in A.A.C. R9-14-610.A. For the use of non-referenced methods, equivalency studies need to be completed and approved prior to use of the method – see Part E. A listing of approved methods may be found in A.A.C. R9-14-611 thru 614 and in:

Table 6.2.A. -- Drinking Water methods (Pages 9 - 24)
Federal Register 40/CFR; Part 141;

Table 6.2.B. -- Wastewater methods (Pages 25 - 36)
Federal Register, 40/CFR, Part 136;

Table 6.2.C. -- Waste methods (Pages 36 - 47)
SW-846, USEPA.

Table 6.2.D. -- Ambient air primary and secondary pollutants (Pages 47 – 52)
Federal Register, 40/CFR, Part 50, 60, 61;

Use additional space as necessary to list additional analytes or method references.

Table 6.2.A. Approved Methods and Method Fees for Drinking Water Parameters

1. Microbiology of Drinking Water

Description	Reference	Method/s	Fee Per Method
Aeromonas	A4.35	1605	$228
Coliforms, Fecal	C	9221E (2006)	$228
		9222D (2006)	$228
Coliforms, Total and *E. coli*, by Colilert (ONPG-MUG)	C and Z	9223B (2004) and IDEXX	$152
Coliforms, Total and *E. coli*, by Colisure	C2 and Z7	9223B (2004) and IDEXX	$152
Coliforms, Total, by Membrane Filtration	C	9222B (2006)	$228
		9222C (2006)	$228
Coliforms, Total and *E. coli*, by Membrane Filtration	A4.36	1604	$228
Coliforms, Total, and *E. coli* by Colitag	C and Z5	9223B (2004) and CPI	$152
Coliforms, Total, and *E. coli* by Modified Colitag	C and D8	9223B (2004) and Modified Colitag	$152
Coliforms, Total, and *E. coli* by E.colite	C and Z8	9223B (2004) and Charm Sciences, Inc.	$152
Coliforms, Total, and *E. coli* by m-ColiBlue24 Test	C and Z6	9222H (2006) and Hach 10029	$152
Coliforms, Total, and *E. coli* by Readycult Coliforms 100 P/A	C and Z14	9223B (2004) and EM Science	$152
Coliforms, Total, and *E. coli* by MF using Chromcult Coliform Agar	C and Z15	9223B (2004) and EM Science	$152
Coliforms, Total, by Multiple Tube Fermentation	C	9221B and C (2006)	$228
Coliforms, Total, by Presence/Absence	C	9221D (2006)	$228
Escherichia coli	C	9222G (2006)	$228
	X	Tube Procedure	$228
		Membrane Filter Procedure	$228
Cryptosporidium	A4.32	1622	$381
Giardia and *Cryptosporidium*	A4.39	1623	$381
	A4.33	1623.1	$381
Heterotrophic Plate Count	C	9215B (2004)	$152
	Z3	SimPlate	$152

Heterotrophic Plate Count (For Bottled Water Only)	C	9215D (2004)	$152
Microscopic Particulate Analysis	P1	910/9-92-029	$228
Viruses	P2	600/R-95/178	$381
Coliphage	A4.37	1601	$228
	A4.38	1602	$228

2. Inorganic Chemistry and Physical Properties of Drinking Water

Description	Reference	Method/s	Fee Per Method
Alkalinity	C	2320B (2011)	$19
Asbestos	A4.30	100.1 (9/83)	$503
	A4.31	100.2 (6/94)	$503
Bromate	A4.1	317 (2.0)	$76
	A4.41	302.0 (1.0)	$26
	A4.3	326 (1.0)	$76
	A5	300.1 (1.0)	$26
		321.8 (1.0)	$152
Bromide	A2	300.0 (2.1)	$26
	A4.1	317 (2.0)	$76
	A4.3	326 (1.0)	$76
	A5	300.1 (1.0)	$26
Calcium	A1	200.7 (4.4)	$10
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3500-Ca B (2011)	$76
Carbon, Dissolved Organic	A4.12	415.3 (1.1)	$76
	A4.13	415.3 (1.2)	$76
	C	5310B (2011)	$39
		5310C (2011)	$39
		5310D (2011)	$39
Carbon, Total Organic	A4.12	415.3 (1.1)	$76
	A4.13	415.3 (1.2)	$76
	C	5310B (2011)	$39
		5310C (2011)	$39
		5310D (2011)	$39
Chloride	A2	300.0 (2.1)	$26
	A5	300.1 (1.0)	$26
	C	4500-Cl B (2011)	$39
		4500-Cl D (2011)	$39
		4110B (2011)	$26
Chloramine	C	4500-Cl F (2011)	$39
		4500-Cl G (2011)	$76
Chlorate	A5	300.1 (1.0)	$26
Chlorine, Total Residual and Free	A4.44	334.0 (9/2000)	$39
	C	4500-Cl D (2011)	$39

		4500-Cl E (2011)	$39
		4500-Cl F (2011)	$39
		4500-Cl G (2011)	$39
		4500-Cl H (2011)	$39
		4500-Cl I (2011)	$39
Chlorine Dioxide	A4.4	327.0 (1.1)	$76
	C	4500-ClO_2 E (2011)	$39
	C7	ChlordioX Plus	$79
Chlorite	A2	300.0 (2.1)	$26
	A4.1	317.0 (2.0)	$76
	A4.3	326.0 (1.0)	$76
	A4.4	327 (1.1)	$76
	A5	300.1 (1.0)	$26
	C	4500-ClO2 E (2011)	$39
	C7	ChlordioX Plus	$79
Color	C	2120B (2011)	$32
Corrosivity	C	2330B (2010)	$39
Cyanide	A2	335.4 (1.0)	$76
	C	4500-CN B (2011)	$7
		4500-CN C (2011)	$13
		4500-CN E (2011)	$76
		4500-CN F (2011)	$76
	A6	QuikChem 10-204-00-1-X (2.1)	$76
	E7	Kelada-01	$76
Cyanide, Available/Amenable	C	4500-CN G (2011)	$76
	A4.26	OIA-1677 DW	$76
	I	D6888-04	$76
Fluoride	A2	300 (2.1)	$26
	A3	380-75WE (2/76)	$39
	A5	300.1 (1.0)	$26
	C	4500-F B (2011)	$39
		4500-F C (2011)	$26
		4500-F D (2011)	$39
		4500-F E (2011)	$39
		4110B (2011)	$26
Hardness	A1	200.7 (4.4), Sum of Ca and Mg as their carbonates	$10
	C	2340 B (2011), Sum of Ca and Mg as their carbonates	$10
		2340 C (2011)	$39
Magnesium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26

	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3500-Mg B (1997)	$76
Methylene Blue Active Substances	C	5540 C (2011)	$39
Nitrate	A2	353.2 (2.0)	$76
		300.0 (2.1)	$26
	A5	300.1 (1.0)	$26
	C	4500-NO_3 D (2011)	$39
		4500-NO_3 E (2011)	$76
		4500-NO_3 F (2011)	$76
		4110B (2011)	$26
Nitrite	A2	353.2 (2.0)	$76
		300 (2.1)	$26
	A5	300.1 (1.0)	$26
	C	4500-NO_2 B (2011)	$76
		4500-NO_3 E (2011)	$76
		4500-NO_3 F (2011)	$76
		4110B (2011)	$26
Odor	C	2150B (2011)	$32
Orthophosphate	A2	365.1 (2.0)	$76
		300 (2.1)	$26
	A5	300.1 (1.0)	$26
	C	4500-P E (2011)	$76
		4500-P F (2011)	$76
		4110B (2011)	$26
Ozone	C	4500-O_3 B (2011)	$39
Perchlorate	A5	314.0 (1.0)	$76
	A4.2	314.1 (1.0)	$76
	A4.5	331.0 (1.0)	$76
	A4.11	332.0 (1.0)	$76
pH (Hydrogen Ion)	A	150.1	$39
		150.2	$39
	C	4500-H B (2011)	$39
Residue, Filterable (TDS)	C	2540 C (2011)	$39
Sediment Concentration	I	D 3977-979	$13
Silica	A1	200.7 (4.4)	$10
	A4.10	200.5 (4.2)	$10
	C	4500-Si C (2011)	$76
		4500-Si D (2011)	$76
		4500-Si E (2011)	$76
Sodium	A1	200.7 (4.4)	$10
	C	3111B (2011)	$26
	A4.10	200.5 (4.2)	$10

Specific Conductance	C	2510B (2011)	$39
Sulfate	A2	300.0 (2.1)	$26
		375.2 (2.0)	$76
	A5	300.1 (1.0)	$26
	C	4500-SO_4 C (2011)	$76
		4500-SO_4 D (2011)	$76
		4500-SO_4 E (2011)	$76
		4500-SO_4 F (2011)	$76
		4110B (2011)	$26
Temperature, Degrees Celsius	C	2550 (2010)	$13
Turbidity, Nephelometric (NTU)	A2	180.1 (2.0)	$39
	C	2130B (2011)	$39
UV-Absorption at 254 nm	C	5910B (2011)	$76
	A4.12	415.3 (1.1)	$76
	A4.13	415.3 (1.2)	$76

3. Metals in Drinking Water

a. Sample Preparation for Metals in Drinking Water

Description	Reference	Method/s	Fee Per Method
Acid Extractable Metals	C	3030C (2004)	$7
Microwave Assisted Digestion	C	3030K (2004)	$7
Nitric Acid	C	3030E (2004)	$7
Nitric Acid/Hydrochloric Acid	C	3030F (2004)	$7
Nitric Acid/Perchloric Acid	C	3030H (2004)	$7
Nitric Acid/Perchloric Acid/Hydrofluoric Acid	C	3030I (2004)	$7
Nitric Acid/Sulfuric Acid	C	3030G (2004)	$7
Preliminary Filtration	C	3030B (2004)	$7

b. Methods to Analyze Metals in Drinking Water

Description	Reference	Method/s	Fee Per Method
Aluminum	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2	$10
	C	3111D (2011)	$26
		3113B (2010)	$26
Antimony	A1	200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
Arsenic	A1	200.8 (5.4)	$26

		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
		3114B (2011)	$76
Barium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	3111D (2011)	$26
		3113B (2010)	$26
Beryllium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
Cadmium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
Chromium Hexavalent by IC	A4.43	218.7 (1.0)	$116
Chromium, Total	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
Cobalt	A1	200.8 (5.4)	$26
Copper	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3113B (2010)	$26
Iron	A1	200.7 (4.4)	$10
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3113B (2010)	$26
Lead	A1	200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
Manganese	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26

		200.9 (2.2)	$26
	C	3111B (2011)	$26
		3113B (2010)	$26
Mercury	A	245.2	$52
	A1	245.1 (3.0)	$52
		200.8 (5.4)	$26
	C	3112B (2011)	$52
Molybdenum	A1	200.8 (5.4)	$26
Nickel	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3113B (2010)	$26
Selenium	A1	200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
		3114B (2011)	$76
Silver	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3113B (2010)	$26
Strontium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	C	3500-Sr B (2011)	$26
		3500-Sr C (2011)	$20
		3500-Sr D (2011)	$26
Thallium	A1	200.8 (5.4)	$26
		200.9 (2.2)	$26
Uranium	A1	200.8 (5.4)	$26
	C	7500 U-C (2011)	$206
	I	D3972-97, 02	$206
		D5174-97, 02	$206
Vanadium	A1	200.8 (5.4)	$26
Zinc	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26

4. Organic Chemistry of Drinking Water			
a. Methods to Comply with National Primary Drinking Water Regulations			
Description	**Reference**	**Method/s**	**Fee Per Method**
Disinfectant Byproducts, Solvents and Pesticides: Alachlor Atrazine Dibromochloropropane Endrin Ethylene dibromide Heptachlor Heptachlorepoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Simazine 1,1,2-Trichloroethane Trichloroethylene 1,1,1-Trichloroethane Tetrachloroethylene Carbontetrachloride Chloroform Bromodichloromethane Dibromochloromethane Bromoform Total Trihalomethanes	D3	551.1 (1.0)	$116
VOCs by GC: Benzene Carbon Tetrachloride (mono) Chlorobenzene o-Dichlorobenzene para-Dichlorobenzene 1,2-Dichloroethane cis-1,2-Dichloroethylene Trans-1,2-Dichloroethylene Dichloromethane 1,2-Dichloropropane Ethylbenzene Styrene Tetrachloroethylene 1,1,1-Trichlorothane Trichloroethylene Toluene 1,2,4-Trichlorobenzene 1,1-Dichloroethylene 1,1,2-Trichloroethane Vinyl chloride	D3	502.2 (2.1)	$152

Xylenes, Total Chloroform Bromodichloromethane Dibromochloromethane Bromoform Total Trihalomethanes			
VOCs by GC-MS: Benzene Carbon Tetrachloride (mono) Chlorobenzene o-Dichlorobenzene para-Dichlorobenzene 1,2-Dichloroethane cis-1,2-Dichloroethylene Trans-1,2-Dichloroethylene Dichloromethane 1,2-Dichloropropane Ethylbenzene Styrene Tetrachloroethylene 1,1,1-Trichlorothane Trichloroethylene Toluene 1,2,4-Trichlorobenzene 1,1 Dichloroethylene 1,1,2-Trichloroethane Vinyl Chloride Xylenes, Total Chloroform Bromodichloromethane Dibromochloromethane Bromoform Total Trihalomethanes	D3	524.2 (4.1)	$152
	A4.19	524.4	$152

VOCs by GC: Benzene Carbon Tetrachloride (mono) Chlorobenzene o-Dichlorobenzene para-Dichlorobenzene 1,2-Dichloroethane cis -1,2-Dichloroethylene Trans-1,2 -Dichloroethylene Dichloromethane 1,2-Dichloropropane Ethylbenzene Styrene Tetrachloroethylene 1,1,1-Trichlorothane Trichloroethylene Toluene 1,2,4-Trichlorobenzene 1,1-Dichloroethylene 1,1,2-Trichloroethane Vinyl chloride Xylenes, Total Chloroform Bromodichloromethane Dibromochloromethane Bromoform Total Trihalomethanes Dibromochloropropane Ethylenedibromide	A4.20	524.3 (1.0)	$152
EDB/DBCP	D3	504.1 (1.1)	$116
Pesticides and PCBs by GC (Microextraction): Alachlor Atrazine Chlorodane Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Simazine Toxaphene	D3	505 (2.1)	$152

Phthalate and Adipate Esters by GC-PID: Di (2-ethylhexyl)adipate Di (2-ethylhexyl)phthalate	D3	506 (1.1)	$116
Pesticides by GC-NPD Atrazine Alachlor Simazine	D3	507 (2.1)	$116
Chlorinated Pesticides by GC-ECD: Chlordane Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Toxaphene	D3	508 (3.1)	$152
Chlorinated Pesticides, Herbicides, Organohalides by GC-ECD: Alachlor Atrazine Chlorodane Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Simazine Toxaphene	D3	508.1(2.0)	$152

Organics by GC-MS: Alachlor Atrazine Benzo(a)pyrene Chlorodane Di (2-ethylhexyl)adipate Di (2-ethylhexyl)phthalate Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Pentachlorophenol Simazine Toxaphene	D3	525.2 (2.0)	$152
1,4-Dioxane by GC/MS	A4.21	522	$152
Carbamates by HPLC/Post Column Carbofuran, Oxamyl	A4.8	531.2 (1.0)	$116
	D3	531.1 (3.1)	$116
Chlorinated Acids and Dalapon by GC-ECD: 2,4-D Dalapon Dinoseb Pentachlorophenol	D	515.1 (4.0)	$116
Picloram	A5	515.3 (1.0)	$116
Silvex (2,4,5-TP)	A4.6	515.4 (1.0)	$116
Chlorinated Acids By GC-ECD 2,4-D Dinoseb Pentachlorophenol Picloram Silvex (2,4,5-TP)	D3	515.2 (1.1)	$116
Haloacetic Acids, Bromate and Dalapon by IC-ESI-MS/MS	A4.18	557 (1.0)	$152
Perfluorinated Compounds by LC/MS/MS	A4.40	537 (1.1)	$152
Hormones by LC/MS/MS	A4.42	539	$152
PAHs by HPLC/UV/FL:	D1	550 (7/90)	$116

Benzo(a)pyrene		550.1 (7/90)	$116
Haloacetic Acids and Dalapon by GC-ECD: Dalapon Monochloracetic Acid Dichloracetic Acid Trichloroacetic Acid Monobromoacetic Acid Dibromoacetic Acid	D2	552.1 (1.0)	$116
HAA5	D3	552.2 (1.0)	$116
Haloacetic Acids: Monochloroacetic Acid Dichloroacetic Acid Trichloroacetic Acid Monobromoacetic Acid Dibromoacetic Acid Dalapon HAA5	A4.9	552.3 (1.0)	$116
Disinfection Byproducts by Micro Liquid-Liquid Extraction/GC-ECD	C8	6251B (1994)	$116
Chlorinated Acids By HPLC/PDA/UV: 2,4-D Dinoseb Pentachlorophenol Picloram Silvex (2,4,5-TP)	D2	555 (1.0)	$116
1,4 Dioxane by GC/MS	A4.21	552 (1.0)	$152
Dioxin	A4.22	1613 Rev B (10/94)	$258
Diquat	A5	549.2 (1.0)	$116
Endothall	D2	548.1 (1.0)	$116
Glyphosate	D1	547 (7/90)	$116
PCBs (as decachlorobiphenyl)	D	508A (1.0)	$152

b. Additional Methods and Compounds Required by Other Programs

Description	**Reference**	**Method/s**	**Fee Per Method**
Disinfectant Byproducts, Solvents and Pesticides	D3	551.1 (1.0)	$26
VOCs by GC	D3	502.2 (2.1)	$26
VOCs by GC-MS	D3	524.2 (4.1)	$26
	A4.20	524.3 (1.0)	$26
EDB/DBCP	D3	504.1 (1.1)	$26
Pesticides and PCBs by GC (Microextraction)	D3	505 (2.1)	$26
Phthalate and Adipate Esters by GC-PID	D3	506 (1.1)	$26

Pesticides by GC-NPD	D3	507 (2.1)	$26
Chlorinated Pesticides by GC-ECD	D3	508 (3.1)	$26
Chlorinated Pesticides, Herbicides, Organohalides by GC-ECD	D3	508.1(2.0)	$26
Organics by GC-MS	D3	525.2 (2.0)	$26
Carbamates by HPLC/Post Column	D3	531.1 (3.1)	$26
	A4.8	531.2 (1.0)	$26
Chlorinated Acids and Dalapon by GC-ECD	D	515.1 (4.0)	$26
	A5	515.3 (1.0)	$26
	A4.6	515.4 (1.0)	$26
Chlorinated Acids By GC-ECD	D3	515.2 (1.1)	$26
PAHs By HPLC/UV/FL	D1	550 (7/90)	$26
		550.1 (7/90)	$26
Haloacetic Acids and Dalapon by GC-ECD	D2	552.1 (1.0)	$26
	D3	552.2 (1.0)	$26
Chlorinated Acids By HPLC/PDA/UV	D2	555 (1.0)	$26
Dioxins and Furans	A4.22	1613 Rev B (10/94)	$65
Paraquat	A5	549.2 (1.0)	$26
Benzidines and Nitrogen Compounds	D2	553 (1.1)	$116
Carbonyl Compounds	D2	554 (1.0)	$116
Phenols	A5	528 (1.0)	$152
Phenylurea Compounds	A5	532 (1.0)	$116
Selected Semivolatiles	A5	526 (1.0)	$152
Pesticides and Flame Retardants by GCMS	A4.7	527 (1.0)	$152
Explosives and Related Compounds	A4.15	529 (1.0)	$152
Acetanilide Degradation Products	A4.16	535 (1.1)	$194
Acetanilide Parent Compound	D3	525.2 (2.0)	$26
Nitrosamines by MS/MS	A4.14	521 (1.0)	$194

5. Radiochemistry of Drinking Water

Description	**Reference**	**Method/s**	**Fee Per Method**
Cesium	B	p.4	$206
	C	7500-Cs B (2011)	$206
		7120 (2011)	$206
	J	R-1110-76	$206

		R-1111-76	$206
	L	901	$206
		901.1	$206
	U	Ga-01-R	$206
	W	p.92	$206
Gamma Emitters	C	7500-Cs B (2011)	$206
		7500-I B (2011)	$206
		7120 (2011)	$206
	L	901.1	$206
		901.0	$206
		902.0	$206
	U	Ga-01-R	$206
	W	p.92	$206
Gross Alpha	B	EPA 00.02	$206
	C	7110C (2011)	$206
	L	900.0	$206
	V	00-01	$206
		00-02	$206
Gross Alpha and Beta	B	p.1	$206
	C	7110B (2011)	$206
	J	R-1120-76	$206
	L	900.0	$206
	V	00-01	$206
	W	p.1	$206
Iodine	B	p.6,p.9	$206
	C	7500-I B (2011)	$206
		7500-I C (2011)	$206
		7500-I D (2011)	$206
		7120 (2011)	$206
	L	902.0	$206
		901.1	$206
	U	Ga-01-R	$206
	W	p.92	$206
Radium 226	B	p.13,p.16	$206
	C	7500-Ra B (2011)	$206
		7500-Ra C (2011)	$206
	L	903.0	$206
		903.1	$206
	U	Ra-04	$206
		Ra-05	$206
	V	EPA Ra-03	$206
		EPA Ra-04	$206

	W	p.19	$206
Radium 228	B	p.24	$206
	C	7500-Ra D (2011)	$206
	L	904.0	$206
	V	Ra-05	$206
	W	p.19	$206
Strontium	B	p.29	$206
	C	7500-Sr B (2011)	$206
	J	R-1160-76	$206
	L	905.0	$206
	U	Sr-01	$206
		Sr-02	$206
	V	Sr-04	$206
	W	p.65	$206
Tritium	B	p.34	$206
	C	7500-^{3}H B (2011)	$206
	J	R-1171-76	$206
	L	906.0	$206
	V	H-02	$206
	W	p.87	$206
Uranium	A1	200.8 (5.4)	$26
	A7	D5174-97, 02	$206
	C	7500-U B (2011)	$206
		7500-U C (2011)	$206
	J	R-1180-76	$206
		R-1181-76	$206
		R-1182-76	$206
	L	908.0	$206
		908.1	$206
	U	U-02	$206
		U-04	$206
	V	00-07	$206
	W	p.33	$206

Table 6.2.B. Approved Methods and Method Fees for Wastewater Parameters			
1. Microbiology of Wastewater and Sewage Sludge			
Description	**Reference**	**Method/s**	**Fee Per Method**
Ascaris lumbricoides	C8	10550	$228
	P3	UofA2000	$228
Coliforms, Fecal, number per 100 ml or number per gram dry weight by Membrane Filter	C	9222D (2006)	$228
Coliforms, Fecal, by Multiple Tube Fermentation (may be used for sewage, sludge) number per 100 ml by MPN	C	9221C, E (2006)	$228
Coliforms, Total, by Membrane Filter	C	9222B (2006)	$228
Coliforms, Total, by Multiple Tube Fermentation	C	9221B (2006)	$228
Control of pathogens and vectors in sewage	E3	625/R-92/013	$76
Cryptosprodium	A4.32	1622	$381
Cryptosporidium and *Giardia*	A4.39	1623	$381
	C	9711B (2011)	$381
	P2	600/R-95/178	$381
E.coli, number per 100 ml, MPN multiple tube	C	9222B (2006)	$228
E.coli, number per 100 ml, MPN multiple tube/multiple well	C	9223B (2004)	$228
E.coli by m-ColiBlue	C1 and Z6	Hach 10029	$228
Enterococci, number per 100 ml MF	C	9230C (2007)	$228
Escherichia coli by Colilert MPN, in conjunction with SM 9221B and 9221C	C	9223B (2004)	$152
Escherichia coli in conjunction with SM 9221B and 9221C	C	9221F (2006)	$152
Entamoeba histolytica	C	9711 C	$228
Enteric viruses	I	D4994-89	$381
Enteric viruses in sewage sludge	E3	EPA625/R-92/103	$381
Fecal Coliforms by Colilert-18 (APP and Reuse only)	C	9020B (2005)/9223B (2004)	$152
Fecal Coliforms by Colilert-18 (NPDES-ATP Permits only)	C	9020B (2005)/9223B (2004)	$152
Fecal Coliforms in sewage sludge by MTF	Z1	EPA 1681	$228
Helminth Ova in sludge	Z4	600/1-87-014	$381
Salmonella in sludge MPN	E5	9260D (1988)	$228
Salmonella in sewage sludge (Biosolids) by Modified MSRV	A4.34	1682	$228

Streptococcus, Fecal, by Membrane Filter	C	9230C (2007)	$194
Streptococcus, Fecal, by Multiple Tube Fermentation	C	9230B (2007)	$194
Viruses	C	9510 (2011)	$381
	P	Methods for Virology	$381
	P2	600/R-95/178	$381
2. Wastewater Inorganic Chemistry, Nutrients and Demand			
Description	**Reference**	**Method/s**	**Fee Per Method**
Acid Mine Drainage	A4.27	1627	$303
Acidity	C	2310B (2011)	$39
Alkalinity, Total	A	310.2 (1974)	$19
	C	2320B (2011)	$19
Ammonia	A2	350.1 (2.0)	$39
	C	4500-NH_3 B (2011)	$39
		4500-NH_3 C (2011)	$39
		4500-NH_3 D (2011)	$39
		4500-NH_3 E (2011)	$39
		4500-NH_3 G (2011)	$39
	C1	Hach 10205	$39
Ammonia in sludge only	E5	4500-NH3B&C (1990)	$39
Biochemical Oxygen Demand/Carbonaceous Biochemical Oxygen Demand	C	5210B (2011)	$152
	C3	Hach 10360	$152
Boron	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	4500-B B (2011)	$76
Bromide	A2	300.0 (2.1)	$26
	A5	300.1 (1.0)	$26
Calcium	A1	200.7 (4.4	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3500-Ca B (2011)	$39
Carbon, Total Organic (TOC)	C	5310 B (2011)	$39
		5310 C (2011)	$39
		5310D (2011)	$39
Chemical Oxygen Demand	A	410.3 (1978)	$39
	A2	410.4 (2.0)	$76
	C	5220 B (2011)	$39
		5220 C (2011)	$39
		5220 D (2011)	$76

	C1	Hach 8000	$39
Chloride	A2	300.0 (2.1)	$26
	A5	300.1 (1.0)	$26
	C	4500-Cl B (2011)	$39
		4500-Cl C (2011)	$39
		4500-Cl D (2011)	$39
		4500-Cl E (2011)	$39
Chlorine, Total Residual	C	4500-Cl B (2011)	$39
		4500-Cl C (2011)	$39
		4500-Cl D (2011)	$39
		4500-Cl E (2011)	$39
		4500-Cl F (2011)	$39
		4500-Cl G (2011)	$39
	C1	Hach 10014	$39
Color	C	2120 B (2011)	$32
Cyanide, Available	C	4500-CN G	$76
	E7	Kelada-01	$76
	Y	OIA-1677-09 (8/99)	$76
Cyanide, Free	Y	OIA-1677-09 (8/99)	$76
Cyanide, Total	A2	335.4 (1.0)	$76
	A6	QuickChem 10-204-00-1-X (2.1)	$76
	C	Combination of 4500-CN B (2011) and 4500-CN C (2011) followed by 4500-CN D, E or F (2011)	$89
	E7	Kelada-01	$76
Fluoride	A2	300.0 (2.1)	$26
	A5	300.1 (1.0)	$26
	C	4500-F B (2011)	$39
		4500-F C (2011)	$39
		4500-F D (2011)	$39
		4500-F E (2011)	$39
Hardness	A	130.1 (1976)	$10
	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	2340B (2011)	$39
		2340C (2011)	$39
Kjeldahl, Total Nitrogen	A	351.1 (1978)	$76
	A2	351.2 (2.0)	$76

	C	Combination of 4500-NH_3 B (2011) and either 4500-N_{org} B (2011) or 4500-N_{org} C (2011)	$115
		4500-NH_3 C (2011)	$39
		4500-NH3 D (2011)	$39
		4500-NH3 E (2011)	$39
		4500-NH3 F (2011)	$39
		4500-NH3 G (2011)	$39
		4500-NH3 H (2011)	$39
	Z9	PAI-DK01 (12/94)	$76
	Z10	PAI-DK02 (12/94)	$76
	Z11	PAI-DK03 (12/94)	$76
Methylene Blue Active Substances	C	5540C (2011)	$39
Nitrate (as N)	A	352.1 (1971)	$76
	A2	300.0 (2.1)	$26
	A5	300.1 (1.0)	$26
	C	3500-NO3 D (2011)	$39
Nitrate-Nitrite (as N)	A2	300 (2.1)	$26
		353.2 (2.0)	$76
	A5	300.1 (1.0)	$26
	C	4500-NO_3 E (2011)	$76
		4500-NO_3 F (2011)	$76
		4500-NO_3 H (2011)	$76
Nitrite (as N)	A2	300.0 (2.1)	$26
		353.2 (2.0)	$76
	A5	300.1 (1.0)	$26
	C	4500-NO_2 B (2011)	$76
		4500-NO2 E (2011)	$76
		4500-NO2 F (2011)	$76
Oil and Grease and Total Petroleum Hydrocarbons	A4.24	1664 Rev B	$76
	C	5520B (2011)	$76
Orthophosphate	A	365.3 (2.0)	$76
	A2	300.0 (2.1)	$26
		365.1 (2.0)	$76
	A5	300.1 (1.0)	$26
	C	4500-P E (2011)	$76
		4500-P F (2011)	$76
Oxygen-consumption Rate (SOUR)	C	2710B (2011)	$39
Oxygen, Dissolved	C	4500-O B (2011)	$26
		4500-O C (2011)	$26

		4500-O D (2011)	$26
		4500-O E (2011)	$26
		4500-O F (2011)	$26
		4500-O G (2011)	$26
	C1	1002-8-2009	$26
	C3	Hach 10360	$26
pH (Hydrogen Ion)	A	150.2	$39
	C	4500-H B (2011)	$39
Phenols	A	420.1 (1978	$116
	A2	420.4 (1.0)	$116
	C	5530 B (2010)	$116
		5530 D (2010)	$116
Phosphorus, Total	A	365.3 (1978)	$76
		365.4 (1974)	$76
	A1	200.7 (4.4)	$10
	A2	365.1 (2.0)	$76
	C	4500-P B (2011)	$76
		4500-P E (2011)	$76
		4500-P F (2011)	$76
		4500-P G (2011)	$76
		4500-P H (2011)	$76
Potassium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	C	3111B (2011)	$26
		3500-K B (2011)	$26
Residue, Filterable (TDS)	C	2540C (2011)	$39
	E8	I-1750-85	$39
Residue, Nonfilterable (TSS)	C	2540D (2011)	$39
Residue, Settable Solids	C	2540F (2011)	$39
Residue, Total	C	2540B (2011)	$39
Residue, Volatile	A	160.4 (1971)	$39
	C	2540E (2011)	$39
Silica, Dissolved	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	4500-SiO_2 B (2011)	$76
		4500-SiO_2 C (2011)	$76
		4500-SiO_2 E (2011)	$76
		4500-SiO_2 F (2011	$76
Sodium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	3500-Na B (2011)	$26

		3500-Na D (2011)	$26
		3111 B (2011)	$26
Sodium Azide	C	4110C (2011)	$76
Specific Conductance	A	120.1 (1982)	$39
	C	2510B (2011)	$39
Sulfate	A2	300.0 (2.0)	$26
		375.2 (2.0)	$76
	A5	300.1 (1.0)	$26
	C	4500-SO_4 C (2011)	$76
		4500-SO_4 D (2011)	$76
		4500-SO_4 E (2011)	$76
		4500-SO_4 F (2011)	$76
		4500-SO_4 G (2011)	$76
Sulfide (includes total and soluble)	C	4500-S^{2-} B (2011)	$39
		4500-S^{2-} D (2011)	$76
		4500-S^{2-} F (2011)	$39
		4500-S^{2-} G (2011)	$39
	C1	Hach 8131	$39
Sulfite	C	4500-SO_3 B (2011)	$76
Temperature, Degrees Celsius	C	2550B (2010)	$13
Total, Fixed and Volatile Solids in Solid and Semisolid Samples in Sludge	C	2540G (2011)	$39
Turbidity, NTU	A2	180.1 (2.0)	$39
	C	2130B (2011)	$39

3. Metals in Wastewater

a. Sample Preparation for Metals in Wastewater

Description	Reference	Method/s	Fee Per Method
Acid Extractable Metals	C	3030C (2004)	$7
Digestion for Metals	C	3030D (2004)	$7
Microwave Digestion	E6	CEM Microwave Digestion	$7
Nitric Acid	C	3030E (2004)	$7
Nitric Acid/Hydrochloric Acid	C	3030F (2004)	$7
Nitric Acid/Perchloric Acid	C	3030H (2004)	$7
Nitric Acid/Perchloric Acid/Hydrofluoric Acid	C	3030I (2004)	$7
Nitric Acid/Sulfuric Acid	C	3030G (2004)	$7
Preliminary Filtration	C	3030B (2004)	$7

b. Methods to Analyze Metals in Wastewater

Description	Reference	Method/s	Fee Per Method
Aluminum	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26

	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
		3111D (2011)	$26
Antimony	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	A4.25	1638	$26
	C	3111B (2011)	$26
		3113B (2010)	$26
Arsenic	A	206.5 (1978)	$39
	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
		3500-As B (2011)	$76
Barium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	3111D (2011)	$26
		3113B (2010)	$26
Beryllium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	C	3111D (2011)	$26
		3111E (2011)	$26
		3113B (2010	$26
Cadmium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	A4.25	1638	$26
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26
		3500-Cd D (2011)	$76
Chromium (VI) Hexavalent	A1	218.6 (3.3)	$26
	C	3500-Cr B (2011)	$39
		3111C (2011)	$26
Chromium, Total	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26

	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26
		3500-Cr B (2011)	$76
Cobalt	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26
Copper	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	A4.25	1638	$26
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26
		3500-Cu B (2011)	$76
		3500-Cu C (2011)	$76
Gold	A	231.2 (1978)	$26
	A1	200.8 (5.4)	$26
	C	3111B (2011)	$26
Iridium	A	235.2 (1978)	$26
	C	3111B (2011)	$26
Iron	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26
		3500-Fe B (2011)	$76
Lead	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	A4.25	1638	$26
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26

		3500-Pb B (2011)	$76
Lithium	A1	200.7 (4.4)	$10
Magnesium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
Manganese	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3113B (2010)	$26
		3500-Mn B (2011)	$76
Mercury	A	245.2 (1974)	$52
	A1	245.1 (3.0)	$52
		200.7 (4.4)	$10
	A4.17	1631E	$152
	C	3112B (2011)	$52
Molybdenum	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5(4.2)	$10
	C	3111D (2011)	$26
		3113B (2010)	$26
Nickel	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	A4.25	1638	$26
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26
Osmium	A	252.2 (1978)	$26
	C	3111D (2011)	$26
Palladium	A	253.2 (1978)	$26
	C	3111B (2011)	$26
Platinum	A	255.2 (1978)	$26
	C	3111B (2011)	$26
Rhodium	A	265.2 (1978)	$26
	C	3111B (2011)	$26
Ruthenium	A	267.2 (1978)	$26
	C	3111B (2011)	$26
Selenium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26

		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3113B (2010)	$26
		3114B (2011)	$76
Silver	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3111C (2011)	$26
		3113B (2010)	$26
Strontium	A1	200.7 (4.4)	$10
	C	3111B (2011)	$26
		3500-Sr B (2011)	$26
		3500-Sr C (2011)	$20
		3500-Sr D (2011)	$26
Thallium	A	279.2 (1978)	$26
	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	A4.25	1638	$26
	C	3111B (2011)	$26
Tin	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
		200.9 (2.2)	$26
	A4.10	200.5 (4.2)	$10
	C	3111B (2011)	$26
		3113B (2010)	$26
Titanium	A	283.2 (1978)	$26
	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	C	3111D (2011)	$26
Vanadium	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	C	3111D (2011)	$26
		3500-V B (2011)	$76
Zinc	A	289.2 (1978)	$26
	A1	200.7 (4.4)	$10
		200.8 (5.4)	$26
	A4.10	200.5 (4.2)	$10
	A4.25	1638	$26

	C	3111B (2011)	$26
		3111C (2011)	$26
		3500-Zn B (2011)	$76

4. Aquatic Toxicity Bioassay of Wastewater

Description	Reference	Method/s	Fee Per Method
Toxicity, Acute	M1	EPA/600/4-90/027F	$194
	Z12	821-R-02-012	$194
Toxicity, Chronic	N1	EPA/600/4-91/002	$194
	Z2	821-R-02-013	$194
	Z13	Lozarchak.J.2001	$194

5. Organic Chemicals of Wastewater

Description	Reference	Method/s	Fee Per Method
Volatile Organics for Pharmaceuticals	D3	524.2 (4.1)	$152
Purgeable Hydrocarbons	E	601	$76
Purgeable Aromatics	E	602	$76
Acrolein and Acrylonitrile	E	603	$76
		624	$152
Phenols	E	604	$116
Benzidines	E	605	$116
Phthalate ester	E	606	$116
Nitrosamines	E	607	$116
Organochlorine Pesticides and PCBs	E	608	$152
	E2	608.1	$152
		608.2	$152
	E4	608 (3M)	$152
Nitroaromatics and Isophorone	E	609	$116
PAHs	E	610	$116
Haloethers	E	611	$116
Chlorinated Hydrocarbons (does not include dichlorobenzenes)	E	612	$116
2, 3, 7, 8-Tetrachlorodibenzo-p-Dioxin	E	613	$457
Chlorinated Herbicides	E2	615	$116
Organohalide Pesticides and PCB	E2	617	$116
Triazine	E2	619	$116
Thiophosphate Pesticides	E2	622.1	$116
Purgeables	E	624	$152
Base/Neutrals and Acids (all analytes excluding pesticides)	E	625	$152

Base/Neutrals and Acids (pesticides only)	E	625	$152
Carbamate and Urea Compounds	E2	632	$116
Tetra- through Octa-Chlorinated Dioxins and Furans	A4.22	1613B Rev B (10/94)	$258
VOCs by Isotope Dilution GC/MS	E	1624B	$152
Semivolatile Organic Compounds by Isotope Dilution GC/MS	E	1625B	$152
Organophosphorus Pesticides	E1	1657	$116
	E2	614	$116
		614.1	$116
		622	$116
VOCs Specific to the Pharmaceutical Manufacturing Industry by Isotope Dilution GC/MS	K1	1666 (A)	$152
Herbicides	C	6640B (2006)	$116
Ethylene Glycol	K	BLS-188	$152

6. Radiochemistry of Wastewater

Description	**Reference**	**Method/s**	**Fee Per Method**
Alpha-Total pCi per liter	C	7110B (2011)	$206
	L	900.0	$206
Alpha Counting Error, pCi per liter	C	7110B (2011)	$206
Beta-Total pCi per liter	C	7110B (2011)	$206
	L	900.0	$206
Beta Counting Error, pCi	C	7110B (2011)	$206
Radium, Total pCi per liter	C	7500-Ra B (2011)	$206
	L	903.0	$206
Radium	C	7500-Ra C (2011)	$206
	L	903.1	$206

Table 6.2.C. Approved Methods and Method Fees for Waste Parameters			
1. Microbiology of Waste			
Description	**Reference**	**Method/s**	**Fee Per Method**
Coliforms, Total, by Membrane Filter	F	9132	$228
Coliforms, Total, by Multiple Tube Fermentation	F	9131	$228
2. Sample Preparation for Waste			
Description	**Reference**	**Method/s**	**Fee Per Method**
Acid Digestion of Water	F	3005A	$7
Alkaline Digestion for Hex Chrome	F	3060A	$7
Bomb Preparation Method for solid waste	F	5050	$7
EP for Oily Wastes	F	1330A	$76
EP Toxicity	F	1310B	$76
Microwave Assisted Digestions	F	3015A	$7
		3051A	$7
		3052	$7
		3546	$7
Multiple EP	F	1320	$152
Oils, Greases, and Waxes	F	3040A	$7
Oils	F	3031	$7
Sediments, Sludges, and Soils	F	3050B	$7
SPLP	F	1312	$303
TCLP	F	1311	$303
Total Metals	F	3010A	$7
		3020A	$7
Total Recoverable in Water	F	3005A	$7
3. Inorganic Chemistry and Metals of Waste			
Description	**Reference**	**Method/s**	**Fee Per Method**
Aluminum	F	6010C	$10
		6020A	$26
		7000B	$26
	F and F13	6010D	$10
		6020B	$26
Ammonia	A	350.3	$39
Antimony	F	6010C	$10
		6020A	$26
		7062	$76
		7000B	$26
		7010	$26
	F and F13	6010D	$10

		6020B	$26
Arsenic	F	6010C	$10
		6020A	$26
		7010	$26
		7061A	$76
		7062	$76
		7063	$76
	F and F13	6010D	$10
		6020B	$26
Barium	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Beryllium	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Boron	F	6010C	$10
	F and F13	6010D	$10
Bromide	F	9056A	$26
		9211	$39
Cadmium	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Calcium	F	6010C	$10
		6020A	$26
		7000B	$26
	F and F13	6010D	$10
		6020B	$26
Cation-Exchange Capacity of Soils	F	9080	$34
		9081	$34
Chloride	F	9056A	$26
		9057	$76
		9212	$39
		9250	$76
		9251	$76

		9253	$39
Chlorine, Total, in New and Used Petroleum Products	F	9075	$76
		9076	$39
		9077	$39
Chromium, Hexavalent	F	7195	$26
		7196A	$76
		7197	$26
		7198	$40
		7199	$76
Chromium, Total	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Cobalt	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Compatability Test for Wastes and Membranes Liners	F	9090A	$152
Copper	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Corrosive to Steel	F	1110A	$63
Corrosive pH Determination	F	9040C	$63
Cyanide	F	9010C	$13
		9012B	$76
		9213	$76
		9014	$76
	F9	9015	$76
Cyanide Extraction for Solids and Oils	F10	9013A	$39
Dermal Corrosion	F	1120	$63
Ignitability of Solids	F	1030	$32
Flash Point by Pensky Mrtems Cup	F	1010A	$32
Flash Point by Set-a Flash	F	1020B	$32
Fluoride	F	9056A	$26

		9214	$39
Iron	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Kjeldahl Total, Nitrogen	A	351.4	$76
Lead	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Liquid Release Test Procedure	F	9096	$39
Lithium	F	6010C	$10
		7000B	$26
	F and F13	6010D	$10
Magnesium	F	6010C	$10
		6020A	$26
		7000B	$26
	F and F13	6010D	$10
		6020B	$26
Manganese	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Mercury	F	6010C	$10
		6020A	$26
	F	7470A	$52
		7471B	$52
		7472	$152
		7473	$152
		7474	$152
	F and F13	6010D	$10
		6020B	$26
Molybdenum	F	6010C	$10
		7000B	$26
		7010	$26
	F and F13	6010D	$10
Nickel	F	6010C	$10

		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Nitrate	F	9210A	$39
		9056A	$26
Nitrite	F	9056A	$26
		9216	$39
Oil and Grease and Petroleum Hydrocarbons	A4.24	1664B	$76
O-Phosphate-P	F	9056A	$26
Osmium	F	7000B	$26
Paint Filter Liquids Test	F	9095B	$19
Perchlorate	A5	314.0	$76
	F	6850	$152
pH (Hydrogen Ion)	F	9041A	$39
		9045D	$39
Phosphorus	F	6010C	$10
	F and F13	6010D	$10
Phosphorus, Total	A	365.3	$76
Potassium	F	6010C	$10
		6020A	$26
		7000B	$26
	F and F13	6010D	$10
		6020B	$26
Saturated Hydraulic and Leachate Conductivity and Intrinsic Permeability	F	9100	$152
Selenium	F	6010C	$10
		6020A	$26
		7010	$26
		7741A	$26
		7742	$76
	F and F13	6010D	$10
		6020B	$26
Silica	F	6010C	$10
		6010D	$10
Silver	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10

		6020B	$26
Sodium	F	6010C	$10
		6020A	$26
		7000B	$26
	F and F13	6010D	$10
		6020B	$26
Sodium Azide	C2	4110C (2011)	$76
Specific Conductance	F	9050A	$39
SPLP	F	1312	$303
Strontium	F	6010C	$10
		7000B	$26
	F and F13	6010D	$10
Sulfate	F	9035	$76
		9036	$76
		9038	$76
		9056A	$26
Sulfides	F	9030B	$76
		9031	$76
		9215	$76
		9034	$76
Thallium	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Tin	F	6010C	$10
		7000B	$26
	F and F13	6010D	$10
Titanium	F	6010C	$10
Vanadium	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26
	F and F13	6010D	$10
		6020B	$26
Water	F	9000	$32
		9001	$32
White Phosphorus by GC	F	7580	$116
Zinc	F	6010C	$10
		6020A	$26
		7000B	$26
		7010	$26

	F and F13	6010D	$10
		6020B	$26

4. Organics Procedures in Waste

Description	Reference	Method/s	Fee Per Method
Separatory Funnel Liquid-Liquid Extraction	F	3510C	$13
Organic Compounds in Water by Microextraction	F5	3511	$13
Continuous Liquid-Liquid Extraction	F	3520C	$13
SPE	F	3535A	$13
Soxhlet Extraction	F	3540C	$13
Automated Soxhlet Extraction	F	3541	$13
Pressurized Fluid Extraction	F	3545A	$13
Ultrasonic Extraction	F	3550C	$13
Supercritical Fluid Extraction of Total Recoverable Petroleum Hydrocarbons	F	3560	$13
Supercritical Fluid Extraction of PAHs	F	3561	$13
SFE of PCBs and Organochlorine Pesticides	F	3562	$13
MSE	F4	3570	$13
Waste Dilution	F	3580A	$13
Waste Dilution for Volatile Organics	F	3585	$13
Alumina Cleanup	F	3610B	$13
Alumina Column Cleanup and Separation of Petroleum Wastes	F	3611B	$13
Florisil Cleanup	F	3620C	$13
Silica Gel Cleanup	F	3630C	$13
Gel-Permeation Cleanup	F	3640A	$13
Acid-Base Partition Cleanup	F	3650B	$13
Sulfur Cleanup	F	3660B	$13
Sulfuric Acid/Permanganate Cleanup	F	3665A	$13
Screening Solids for VOCs	F	3815	$76
Hexadecane Extraction and Screening for Purgeable Organics	F	3820	$76
Screening for Pentachlorophenol by Immunoassay	F	4010A	$76
Screening for 2,4-Dichlorophenoxyacetic Acid by Immunoassay	F	4015	$76

Screening for PCBs by Immunoassay	F	4020	$76
Screening for PCDDs and PCDFs by Immunoassay	F3	4025	$76
Soil Screening for Petroleum Hydrocarbons by Immunoassay	F	4030	$76
Soil Screening for PAHs by Immunoassay	F	4035	$76
Soil Screening for Toxaphene by Immunoassay	F	4040	$76
Soil Screening for Chlordane by Immunoassay	F	4041	$76
Soil Screening for DDT by Immunoassay	F	4042	$76
TNT Explosives in Soil by Immunoassay	F	4050	$76
RDX in Soil by Immunoassay	F	4051	$76
Screening Environmental Samples for Planar Organic Compounds	F	4425	$76
Triazine Herbicides by Quantitative Immunoassay	F	4670	$76
VOCs in Various Sample Matrices Using Equilibrium Headspace Analysis	F8	5021A	$13
Purge-and-Trap for Aqueous Samples	F6	5030C	$13
Volatile, Nonpurgeable, Water-Soluble Compounds by Azeotropic Distillation	F	5031	$13
VOCs by Vacuum Distillation	F	5032	$13
Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples	F2	5035A	$13
Analysis for Desorption of Sorbent Cartridges from VOST	F	5041A	$13
EDB and DBCP by Microextraction and GC	F	8011	$116
$C_{10} - C_{32}$ Hydrocarbons	K	8015AZ 1	$116
Nonhalogenated Organics Using GC/FID	F7	8015D	$116
Aromatic and Halogenated Volatiles by GC Using Photoionization and/or Electrolytic Conductivity Detectors	F	8021B	$152
Acrylonitrile by GC	F	8031	$76

Acrylamide by GC	F	8032A	$76
Acetonitrile by GC with Nitrogen-Phosphorus Detection	F	8033	$76
Phenols by GC	F	8041A	$116
Phthalate Esters by GC/ECD	F	8061A	$116
Nitrosamines by GC	F	8070A	$116
Organochlorine Pesticides by GC	F	8081B	$152
Elemental Quantitation by GC/ECD	F	8085	$116
PCBs by GC	F	8082A	$152
Nitroaromatics and Cyclic Ketones by GC	F	8091	$116
Explosives by GC	F	8095	$116
PAHs	F	8100	$116
Haloethers by GC	F	8111	$116
Chlorinated Hydrocarbons by GC: Capillary Column Technique	F	8121	$116
Aniline and Selected Derivatives by GC	F	8131	$116
Organophosphorus Compounds by GC	F	8141B	$152
Chlorinated Herbicides by GC Using Methylation or Pentafluorobenzylation Derivatization	F	8151A	$152
VOCs by GC/MS, including n-Hexane	F	8260B	$152
	F12 and F13	8260C/8000D	$152
VOCs by VD/GC/MS	F	8261	$152
Semivolatile Organic Compounds by GC/MS	F	8270C	$152
	F and F13	8270D/8000D	$152
Semivolatile Organic Compounds (PAHs and PCBs) in Soils/Sludges and Solid Wastes Using TE/GC/MS	F	8275A	$152
8280A: Polychlorinated Dibenzo-*p*-Dioxins and PCDFs by HRGC/LRMS	F	8280B	$258
PCDDs and PCDFs by HRGC/HRMS	F	8290A	$258
PAHs	F	8310	$116
Determination of Carbonyl Compounds by HPLC	F	8315A	$116
Acrylamide, Acrylonitrile, and Acrolein by HPLC	F	8316	$116

N-Methylcarbamates by HPLC	F	8318A	$116
Solvent-Extractable Nonvolatile Compounds by HPLC/TS/MS or UV Detection	F	8321B	$152
Solvent Extractable Nonvolatile Compounds by HPLC/PB/MS	F	8325	$152
Nitroaromatics and Nitramines by HPLC	F	8330A	$116
Nitroaromatics, Nitramines, and Nitrate Esters	F11	8330B	$116
Tetrazene by Reverse Phase HPLC	F	8331	$116
Nitroglycerine by HPLC	F	8332	$116
GC/FT-IR Spectrometry for Semivolatile Organics: Capillary Column	F	8410	$116
Analysis of Bis (2-chloroethyl) Ether and Hydrolysis Products by Direct Aqueous Injection GC/FT-IR	F	8430	$116
Total Recoverable Petroleum Hydrocarbons by Infrared Spectrophotometry	F	8440	$116
Screening for RDX/MDX in Soil	F	8510	$76
Colorimetric Screening Method for TNT in Soil	F	8515	$76
Screening for Total VOH in Water	F	8535	$76
PCP by UV Colormetry	F	8540	$108
TOX	F	9020B	$76
POX	F	9021	$76
TOX by Neutron Activation Analysis	F	9022	$114
EOX in Solids	F	9023	$114
TOCs	F	9060A	$76
Phenolics	F	9065	$152
		9066	$152
		9067	$152
HEM for Aqueous Samples	F	9070A	$76
HEM for Sludge, Sediment, and Solid Samples	F	9071B	$76
Screening for TRPH in Soil	F	9074	$76
Screening for PCBs in Soil	F	9078	$76
Screening for PCBs in Oil	F	9079	$76
PCBs in Waste Oil	A4.28	600/4-81-045	$152

5. Bulk Asbestos Analysis of Waste

Description	Reference	Method/s	Fee Per Method
Bulk Asbestos Analysis	G	9002	$228
	A4.29	Bulk Asbestos	$228
	G1 and A4.29	Bulk Asbestos	$228
Fiber Counting	G	7400	$228
		7402	$228

6. Radiochemistry of Waste

Description	Reference	Method/s	Fee Per Method
Alpha-Emitting Radium Isotopes	F	9315	$206
Gross Alpha and Beta	F	9310	$206
Radium-228	F	9320	$206

Table 6.2.D. Approved Methods and Method Fees for Air and Stack Parameters

1. Ambient Air Primary and Secondary Pollutants

Description	Reference	Method/s	Fee Per Method
Carbon Monoxide	O	Appendix C	$393
Formaldehyde	F	8520	$393
Hydrocarbons	O	Appendix E	$393
Lead	O	Appendix G	$393
Nitrogen Dioxide	O	Appendix F	$393
Ozone	O	Appendix D	$393
		Appendix H	$393
Particulate Matter	O	Appendix B	$393
		Appendix J	$393
		Appendix L	$393
		Appendex O	$393
Sulfur Oxides	O	Appendix A	$393

2. Stationary and Stack Sources

Description	Reference	Method/s	Fee Per Method
Carbon Dioxide, Oxygen, and Excess Air	Q	Method 3C	$393
Carbon Monoxide	Q	Method 10	$393
		Method 10A	$393
		Method 10B	$393
Carbonyl Sulfide, Hydrogen Sulfide, and Carbon Disulfide	Q	Method 15	$393
Fluoride	Q	Method 13A	$393
		Method 13B	$393
		Method 14	$393

Fugitive Emissions	Q	Method 22	$393
Gaseous Organic Compounds	Q	Method 18	$393
		Method 25	$393
		Method 25A	$393
		Method 25B	$393
Hydrogen Sulfide	Q	Method 11	$393
Inorganic Lead	Q	Method 12	$393
Mercury, Total Vapor Phase	Q1	PS-12B	$393
Moisture Content	Q	Method 4	$393
Nitrogen Oxide	Q	Method 7	$393
		Method 7A	$393
		Method 7B	$393
		Method 7C	$393
		Method 7D	$393
		Method 7E	$393
		Method 19	$393
		Method 20	$393
Non-methane Organic Compounds	Q	Method 25C	$393
Particulate Emissions by Asphalt Processing and Roofing	Q	Method 5A	$152
Particulate Emissions by Fiberglass Insulation Plants	Q	Method 5E	$152
Particulate Emissions of Nonsulfate	Q	Method 5F	$152
Particulate Emissions by Nonsulfuric Acid	Q	Method 5B	$152
Particulate Emissions by Pressure Filters	Q	Method 5D	$152
Particulate Emissions by Stationary Sources	Q	Method 5	$152
		Method 17	$152
Particulate Emissions by Sulfur Dioxide	Q	Method 19	$152
Particulate Emissions by Wood Heaters	Q	Method 5G	$152
		Method 5H	$152
Petroleum Products, Heat of Combustion	I	D240-92	$76

		D240-87	$76
Petroleum Products, Hydrometer Method	I	D287-92	$76
Petroleum Products, Sulfur	I	D4294-90	$152
Sulfur and Total Reduced Sulfur	Q	Method 15A	$393
		Method 16	$393
		Method 16A	$393
		Method 16B	$393
Sulfur Dioxide	Q	Method 6	$393
		Method 6A	$393
		Method 6B	$393
		Method 6C	$393
		Method 8	$393
		Method 19	$393
		Method 20	$393
Sulfur Dioxide Removal and SO2/NO Emission Rates	Q	Method 19	$152
Sulfuric Acid Mist	Q	Method 8	$393
Vapor Tightness, Gasoline Delivery Tank	Q	Method 27	$393
Volatile Matter Density, Solids and Water from Surface Coatings	Q	Method 24	$393
		Method 24A	$393
Volatile Matter and Density of Printing Inks	Q	Method 24A	$393
VOCs	Q	Method 21	$393
	S1	TO-3	$152
		TO-14A	$152
		TO-15	$152
VOCs in Vapor	F1	8260B AZ (Vapor) (0.0)	$152
Wood Heaters, Certification and Burn Rates	Q	Method 28	$393
		Method 28A	$393

3. ADEQ Emission Test

Description	Reference	Method/s	Fee Per Method
Particulate Emissions in the Presence of Sulfuric Acid Mist/Sulfur Oxides	R	Method A1	$393

4. National Emission Standards for Hazardous Air Pollutants

Description	Reference	Method/s	Fee Per Method
Arsenic	S	Method 108	$393
		Method 108A	$393

		Method 108B	$393
		Method 108C	$393
Beryllium	S	Method 103	$393
		Method 104	$393
Mercury	S	Method 101	$393
		Method 101A	$393
		Method 102	$393
		Method 105	$393
Polonium 210	S	Method 111	$393
Vinyl Chloride	S	Method 106	$393
		Method 107	$393
		Method 107A	$393

5. Determination of Metals in Ambient Particulate Matter

Description	**Reference**	**Method/s**	**Fee Per Method**
Digestion of Ambient Matter	O3	IO-3.1	$7
Aluminum	O1	IO-3.4	$10
	O2	IO-3.5	$26
Antimony	O1	IO-3.4	$10
	O2	IO-3.5	$26
Arsenic	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Barium	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Beryllium	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Bismuth	O1	IO-3.4	$10
Cadmium	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Calcium	O1	IO-3.4	$10
Cesium	O1	IO-3.4	$10
Chromium	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Cobalt	O1	IO-3.4	$10
	O2	IO-3.5	$26

	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Copper	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Germanium	O1	IO-3.4	$10
Gold	O1	IO-3.4	$10
Indium	O1	IO-3.4	$10
Iron	O1	IO-3.4	$10
Lanthanum	O1	IO-3.4	$10
Lead	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O4	EQL-0510-191	$26
	O	Method 29-ICP	$10
		Method29-ICP/MS	$26
Lithium	O1	IO-3.4	$10
Magnesium	O1	IO-3.4	$10
Manganese	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method 29-ICP/MS	$26
Mercury	O1	IO-3.4	$10
	O	Method 29-CVAA	$52
Molybdenum	O1	IO-3.4	$10
	O2	IO-3.5	$52
Nickel	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method 29-ICP/MS	$26
Niobium	O1	IO-3.4	$10
Palladium	O1	IO-3.4	$10
Phosphorus	O1	IO-3.4	$10
	O	Method 29-ICP	$10
Platinum	O1	IO-3.4	$10
Potassium	O1	IO-3.4	$10
Rhenium	O1	IO-3.4	$10
Rhodium	O1	IO-3.4	$10
Ruthenium	O1	IO-3.4	$10
Samarium	O1	IO-3.4	$10
Selenium	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method 29-ICP/MS	$26
Silicon	O1	IO-3.4	$10

Silver	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method 29-ICP/MS	$26
Sodium	O1	IO-3.4	$10
Strontium	O1	IO-3.4	$10
Tantalum	O1	IO-3.4	$10
Tellurium	O1	IO-3.4	$10
Thallium	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method 29-ICP/MS	$26
Thorium	O2	IO-3.5	$26
Tin	O1	IO-3.4	$10
Titanium	O1	IO-3.4	$10
Tungsten	O1	IO-3.4	$10
Uranium	O2	IO-3.5	$26
Vanadium	O1	IO-3.4	$10
	O2	IO-3.5	$26
Ytrrium	O1	Io-3.4	$10
Zinc	O1	IO-3.4	$10
	O2	IO-3.5	$26
	O	Method 29-ICP	$10
		Method 29-ICP/MS	$26
Zirconium	O1	IO-3.4	$10

Table 6.2.E. Methods Director Approved Under R9-14-610(E) and Method Fees

Description	Reference	Method/s	Fee Per Method
Chromatographic Method	-	Any	$116
Mass Spectrometric Method	-	Any	$152
Toxicity Method	-	Any	$194
Other Method	-	Any	$75

ARIZONA DEPARTMENT OF HEALTH SERVICES
PREPAREDNESS

Environmental Laboratory Licensure Application

Part D – Instrument and Data Collection/Data Reduction Software

Laboratory Licensure and Certification
250 N. 17th Avenue
Phoenix, AZ 85007-3231
602-364-0720
FAX 602-364-0759

List **ONLY** those instruments/equipment and software used for instrument control and data reduction interpretation used for method testing **FOR THE STATE OF ARIZONA**. Please check the detectors used in the laboratory and then provide the number of instruments in each category. Please check the box next to the appropriate software. **CAUTION: You will be billed for every instrument/equipment listed below!** Refer to Exhibit I, Table 2 of the rules.

INSTRUMENTATION	NUMBER OF DETECTORS	NUMBER OF INSTRU-MENTS	FEE PER INSTRUMENT	SOFTWARE (NO FEE)
Atomic Absorption	Cold Vapor Flame Burner Graphite Furnace Hydride Generator Other		$76	☐ Perkin Elmer ☐ Varian ☐ Leeman ☐ Other (specify): _____
Counters for Radioactivity			$76	☐ Beackman ☐ Cannberra ☐ Berthold ☐ Other (specify): _____
Gas Chromatograph	Electron Capture Flame Ionization Flame Photometric Halide Specific Nitrogen/Phosphorus Photoionization Other		$76	☐ Maxima ☐ EnviroQuant/Chemstation ☐ TurboChrom ☐ Varian Star ☐ Millennium Chromatography Manager ☐ Chromeleon (Dionex) ☐ EZ Chrom ☐ OPUS ☐ Varian Saturn ☐ Other (specify): _____

INSTRUMENTATION	NUMBER OF DETECTORS	NUMBER OF INSTRU-MENTS	FEE PER INSTRUMENT	SOFTWARE (NO FEE)
Gas Chromatograph/ Mass Spectrometer	High Resolution		$194	☐ Magnum ☐ EnviroQuant/Chemstation ☐ TurboChrom ☐ Varian Star ☐ Millennium Chromatography Manager ☐ OPUS ☐ Varian Saturn ☐ Other (specify): _____
	Other than High Resolution		$152	
High Pressure Liquid Chromatograph	Ultraviolet		$76	☐ Waters ☐ Maxima ☐ Varian Star ☐ TurboChrom ☐ Millennium Chromatography Manager ☐ ChemStation ☐ Chromeleon ☐ Other (specify): _____
	Fluorescence			
	Other			
High Pressure Liquid Chromatograph/ Mass Spectrometer			$152	☐ Varian Star ☐ Horizon ☐ Other (specify): _____
Inductively Coupled Plasma			$76	☐ Perkin Elmer ☐ Agilent ☐ Varian ☐ TJA (Thermo Jarrel Ash) ☐ Other (specify): _____
Inductively Coupled Plasma/Mass Spectrometer			$152	☐ Perkin Elmer ☐ Agilent ☐ Varian ☐ TJA (Thermo Jarrel Ash) ☐ Other (specify):

INSTRUMENTATION	NUMBER OF DETECTORS	NUMBER OF INSTRU-MENTS	FEE PER INSTRUMENT	SOFTWARE (NO FEE)
Ion Chromatograph			$76	☐ PeakNet (Dionex) ☐ Chromeleon (Dionex) ☐ ChromPerfect ☐ EZ Chrom ☐ Omnionic (Lachat) ☐ Metrohm ☐ Other (specify): _____
Automated Autoanalyzer			$76	☐ Omnion (Lachat) ☐ Other (specify): _____
Mercury Analyzer			$76	☐ FIMS ☐ Leeman - Hydra ☐ MARRS ☐ Perkin Elmer ☐ Avalon ☐ Other (specify): _____
Organic Halide, Total			$76	☐ Dohrmann ☐ Euroglas ☐ MCI ☐ Rosemont ☐ Other (specify): _____
Transmission Electron Microscope			$396	☐ Other (specify): _____
X-Ray Diffraction Unit			$76	☐ Asoma ☐ Other (specify): _____

Environmental Laboratory Licensure Application				
PART E - DIRECTOR APPROVAL				
Part E lists director approved methods available to all laboratories. In addition, the director approval process is outlined in the following pages. These methods are current as of **December 18, 2024.**				
Director Approved methods (Refer to A.A.C. R9-14-610.B for references.) AIR = Air program. SDW = Drinking water. WW = Wastewater. SW = Solid, Liquid, and Hazardous Waste.				
Description	**Program**	**Reference**	**Method**	**Fees**
Determination of Selected Per- and Polyfluorinated Alkyl Substances in SDW by SPE and LC/MS/MS	SDW	NT	EPA Method 537.1 (Rv. 2.0) March 2020	$152
Chromium (VI), Hexavalent	WW	NT	SM 3500-Cr C	$39
PFAS in Aq., Solids, Biosolids, and Tissue by LC-MS/MS	SW	NT	Method 1633 (Jan.2024)	$152
PFAS in Aq., Solids, Biosolids, and Tissue by LC-MS/MS	WW	NT	Method 1633 (Jan.2024)	$152
SVOCs by GC/MS	SW	NT	EPA 8270E	$152
Total Recoverable Phenolics Low Level by Semi-Automated Colorimetry	SDW	NT	EPA 420.4 Mod	$116
Sulfate (Turbidimetric)	WW	NT	ASTM D516-16	$76
Cryptosporidium and Giardia	WW	NT	EPA 1623.1	$381
Gross Alpha and Gross Beta Radioactivity	SDW	NT	EPA 900.0, rev.1.0	$206
E. Coli by MF (Modified mTEC)	WW	NT	EPA 1603	$228
Titanium	SW	NT	EPA 6010D	$10
Turbidity by 360° Nephelometry	SDW	NT	HACH 10258	$39
Dissolved Gas	SDW	NT	RSK-175	$76
Tetraethyl Lead-Tetramethyl Lead (Aqueous)	SW	NT	EPA 8260B (SIM)	$26
Tetraethyl Lead-Tetramethyl Lead (Aqueous)	WW	NT	EPA 8260B (SIM)	$26
Tetraethyl Lead-Tetramethyl Lead	SW	NT	EPA 8260C (SIM)	$26
Tetraethyl Lead-Tetramethyl Lead (Aqueous)	WW	NT	EPA 8260C (SIM)	$26
Tetraethyl Lead-Tetramethyl Lead (SOIL)	SW	NT	EPA 8270C (SIM)	$26
Tetraethyl Lead (Aqueous)	WW	NT	EPA 8270D	$26
Tetraethyl Lead	SW	NT	EPA 8270D	$26
Kjeldahl, Total Nitrogen	WW	NT	HACH 10242	$76
Turbidity, Nephelometric	WW	NT	Method M5271	$39
Organochlorine Pesticides and PCBs by GC/HSD (12/2016)	WW	NT	EPA 608.3	$152
Purgeable by GC/MS (12/2016)	WW	NT	EPA 624.1	$152
Base/Neutrals and Acids by GC/MS (12/2016)	WW	NT	EPA 625.1	$152
Radon	SDW	NT	SM 7500-RN B	$206
Kjeldahl, Total Nitrogen	WW	NT	SM 4500-NORG D-2011	$39
Kjeldahl, Total Nitrogen	SW	NT	SM 4500-NORG D-2011	$39

Germanium (ICP/MS)	SDW	NT	EPA 200.8 (REV 5.4)	$26
Manganese (ICP/MS)	SDW	A1	EPA 200.8 (REV 5.4)	$26
Determination of Semivolatile Organic Chemicals in Drinking Water by SPE / Capillary Column / GC-MS	SDW	NT	EPA 525.3	$152
Determination of Select Semivolatile Organic Chemicals In Drinking Water By SPE / GC-MS	SDW	NT	EPA 530	$152
1-Butanol, 1,4-Dioxane, 2-Methoxyethanol and 2-Propen-1-ol (SPE-GC/MS)	SDW	NT	EPA 541	$152
Microcystins and Nodularin (SPE and LC/MS/MS)	SDW	NT	EPA 544	$152
Cylindrospermopsin and Anatoxin -A (LC/ESI-MS/MS)	SDW	NT	EPA 545	$152
Total Microcystins and Nodularins (AELIA)	SDW	NT	EPA 546	$152
Haloacetic Acids and Dalapon by GC-ECD	SDW	NT	EPA 552.3	$116
Determination of Selected Perfluorinated Alkyl Acids (LC/MS/MS)	SDW	Note 1	EPA 537.1	$152
MUR MDLs Revision 2	SDW			
Per- And Polyfluoroalkyl Substances	SDW	Note 1	EPA 533	$152
Modified EEA Agilent 521.1 For Nitrosamines by GC/MS/MS	SDW	NT	EPA 521.1	$194
Palintest. Chlordiox Plus, Rev 1.1 Chlorine Dioxide and Chlorite by Amperometry	SDW	C7	Palintest 2020c	$79
VOC by GC/MS	WW	NT	EPA 8260D	$152
VOC by GC/MS	SW	NT	EPA 8260D	$152
Determination of Metals and Trace Elements in Water and Wastes By ICP-AES	SDW	A1	EPA 200.7, Rev 4.4	$10/Element
Determination of Toxic Organic Compounds in Ambient Air	Air	NT	EPA TO-13A	$152

Note 1: UCMR 5, available at https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule#scope

2. Process for Director Approved Methods (A.A.C. R9-14-610.C.)
(This is a summary of the steps needed for approval, please refer to the rule cited for detailed instructions.)

Note: For a request for an alternate method or method alteration approval, there is a $50 fee payable to the Department of Health Services.

A. Request for approval of a different method or method alteration that is required by an EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8.

1. Name, address, and telephone number of the licensee submitting the request.
2. Name, address, and telephone number of the laboratory for which approval is requested.
3. Identification of the parameter for which approval is requested.
4. Reference to the EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8 that requires or authorizes the use of the method or method alteration for which approval is requested.

B. Request for approval of a different method or method alteration that is **not** required by an EPA or ADEQ statute or rule.

1. Name, address, and telephone number of the licensee submitting the request.
2. Name, address, and telephone number of the laboratory for which approval is requested.
3. Identification of the parameter for which approval is requested.
4. Written justification for using the method or method alteration for which approval is requested, including the following:

   a. A detailed description of the method or method alteration.
   b. References to published or other studies confirming the general applicability of the method or method alteration to the parameter.
   c. Reference to the EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8 requirement to test the parameter.
   d. Data that demonstrates the performance of the method or method alteration in terms of accuracy, precision, reliability, ruggedness, ease of use, and ability to achieve a detection limit appropriate to the proposed use of the method or method alteration.

The Department, before approving a method or method alteration that is not required or authorized by EPA or ADEQ statute or rule, may require that the method or method alteration be performed by a designated laboratory to verify that the method or method alteration complies with (C)(2)(d)(iv).