

**SOAP Program**  
**Non-potable Water/Solid & Chemical Materials**

**Abandoned Mine Drainage (AMD) Category**

Labs must maintain accreditation for each analyte listed below in order to maintain accreditation for the AMD category.

AMD Category Fee\* = \$ 1,000.00 (NPW-Trace Metal Category + NPW-Inorganic Non-metal Category)

**Metals – Non-potable Water**

Metals Sample Preparation	EPA 200.2
Nitric Acid Digestion	SM 3030 E
Nitric Acid-Hydrochloric Acid Digestion	SM 3030 F
Nitric Acid-Sulfuric Acid Digestion	SM 3030 G
Nitric Acid-Perchloric Acid Digestion	SM 3030 H
Nitric Acid-Perchloric Acid-Hydrofluoric Acid Digestion	SM 3030 I

	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online

ALUMINUM	SM 3111 D		SM 3113 B	SM 3120 B
IRON	SM 3111 B	SM 3111 C	SM 3113 B	SM 3120 B
MANGANESE	SM 3111 B		SM 3113 B	SM 3120 B

	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online

ALUMINUM	EPA 200.7	EPA 200.8	EPA 200.9
IRON	EPA 200.7		EPA 200.9
MANGANESE	EPA 200.7	EPA 200.8	EPA 200.9

	Standard Methods 18 <sup>th</sup> & 19 <sup>th</sup> Editions	Standard Methods 20 <sup>th</sup> Edition	Standard Methods Online
ALUMINUM	SM 3500 Al D	SM 3500 Al B	SM 3500 Al B-01
IRON	SM 3500 Fe D	SM 3111 D	SM 3500 Fe B
MANGANESE	SM 3500 Mn D	SM 3500 Mn B	SM 3500 Mn B-99

**Inorganic Non-metals – Non-potable Water**

ACIDITY	SM 2310 B (4a)	
ALKALINITY	SM 2320 B	EPA 310.2
pH	SM 4500 H+ B	EPA 150.2
RESIDUE – FILTERABLE (TDS)	SM 2540 C	
RESIDUE – NON-FILTER. (TSS)	SM 2540 D	
SPEC. CONDUCTANCE	SM 2510 B	EPA 120.1

	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online

SULFATE	SM 4500 SO4- C	SM 4500 SO4- D	SM 4110 B
	EPA 300.0	EPA 300.1	EPA 375.2

	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
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Please mark chosen methods in the box to the **left** of the method number.

Page 1 of 3

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**Fly Ash Category**

Labs must maintain accreditation for each analyte listed below **and** the AMD Category in order to maintain accreditation for the Fly Ash category. The Fly Ash Category Fee is included in the AMD Category Fee.

**Abandoned Mine Drainage Category**

**Metals – Non-potable Water**

Metals Sample Preparation	EPA 200.2
Nitric Acid Digestion	SM 3030 E
Nitric Acid-Hydrochloric Acid Digestion	SM 3030 F
Nitric Acid-Sulfuric Acid Digestion	SM 3030 G
Nitric Acid-Perchloric Acid Digestion	SM 3030 H
Nitric Acid-Perchloric Acid-Hydrofluoric Acid Digestion	SM 3030 I

SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online

ARSENIC		SM 3114 B 4.d	SM 3113 B	SM 3120 B
CADMIUM	SM 3111 B	SM 3111 C	SM 3113 B	SM 3120 B
CALCIUM	SM 3111 B			SM 3120 B
CHROMIUM	SM 3111 B	SM 3111 C	SM 3113 B	SM 3120 B
COPPER	SM 3111 B	SM 3111 C	SM 3113 B	SM 3120 B
LEAD	SM 3111 B	SM 3111 C	SM 3113 B	SM 3120 B
MAGNESIUM	SM 3111 B			SM 3120 B
MERCURY		SM 3112 B		
NICKEL	SM 3111 B	SM 3111 C	SM 3113 B	SM 3120 B
POTASSIUM	SM 3111 B			SM 3120 B
SELENIUM		SM 3114 B	SM 3113 B	SM 3120 B
SODIUM	SM 3111 B			SM 3120 B
ZINC	SM 3111 B	SM 3111 C		SM 3120 B

SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
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SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online

ARSENIC	EPA 200.7	EPA 200.8	EPA 200.9	EPA 206.5
CADMIUM	EPA 200.7	EPA 200.8	EPA 200.9	
CALCIUM	EPA 200.7			
CHROMIUM	EPA 200.7	EPA 200.8	EPA 200.9	
COPPER	EPA 200.7	EPA 200.8	EPA 200.9	
LEAD	EPA 200.7	EPA 200.8	EPA 200.9	
MAGNESIUM	EPA 200.7			
MERCURY	EPA 245.1	EPA 245.2	EPA 245.7	EPA 1631 E
NICKEL	EPA 200.7	EPA 200.8	EPA 200.9	
POTASSIUM	EPA 200.7			
SELENIUM	EPA 200.7	EPA 200.8	EPA 200.9	
SODIUM	EPA 200.7			
ZINC	EPA 200.7	EPA 200.8		EPA 289.2

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	Standard Methods 18 <sup>th</sup> & 19 <sup>th</sup> Editions		Standard Methods 20 <sup>th</sup> Edition		Standard Methods Online	
ARSENIC	SM 3500 As C		SM 3500 As B		SM 3500 As B-97	
CADMIUM	SM 3500 Cd D					
CALCIUM	SM 3500 Ca D		SM 3500 Ca B		SM 3500 Ca B-97	
CHROMIUM	SM 3500 Cr D		SM 3500 Cr B		SM 3500 Cr B-01	
COPPER	SM 3500 Cu D	SM 3500 Cu E	SM 3500 Cu B	SM 3500 Cu C	SM 3500 Cu B-99	
LEAD	SM 3500 Pb D		SM 3500 Pb B		SM 3500 Pb B-97	
MAGNESIUM	SM 3500 Mg D					
NICKEL	SM 3500 Ni D (17 <sup>th</sup> )					
POTASSIUM	SM 3500 K D	SM 317 B (14 <sup>th</sup> )	SM 3500 K B		SM 3500 K B-97	
SODIUM	SM 3500 Na D		SM 3500 Na D		SM 3500 Na B-97	
ZINC	SM 3500 Zn E	SM 3500 Zn F	SM 3500 Zn B		SM 3500 Zn B-97	

**Inorganic Non-metals – Non-potable Water**

CHLORIDE	SM 4110 B	SM 4500 Cl B	SM 4500 Cl C	SM 4500 Cl D	SM 4500 Cl E	SM 18 <sup>th</sup> Edition	SM 19 <sup>th</sup> Edition	SM 20 <sup>th</sup> Edition	SM Online
	EPA 300.0	EPA 300.1							

**Overburden Category**

Labs must maintain accreditation for each analyte listed below in order to maintain accreditation for the Overburden category.  
Overburden Category Fee\* = \$ 550.00 (SCM-Inorganic Non-metal Category)

**Solid & Chemical Materials**

TOTAL PERCENT SULFUR	PA DEP Overburden Manual p. 37 (Eschka Method)	PA DEP Overburden Manual, p.40 (Bomb Washing Method)	PA DEP Overburden Manual, p.44 (High-temp Combustion – IR absorption)	PA DEP Overburden Manual, p. 48 (High-temp Combustion – Iodimetric Titration)	PA DEP Overburden Manual, p. 51 (High-temp Combustion – Acid Base Titration)
NEUTRALIZATION POTENTIAL	PA DEP Overburden Manual, p. 67				

Please mark chosen methods in the box to the **left** of the method number. Page 3 of 3  
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