

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES LABORATORY ACCREDITATION PROGRAM

Certifies That

25-03459

Free-Col Laboratory

613 W 11th Street, Erie, PA, 16501

Having duly met the requirement of
Chapter 252 Regulations

issued under the act of June 29, 2002

(P.L. 596, No. 90) dealing with Environmental Laboratory Accreditation (27 Pa. C.S. 4104-4113)
is hereby approved as an

Accredited Laboratory

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

Expiration Date: **03/31/2023**

Certificate Number: **010**

Annmarie Beach

Annmarie Beach, Chief
Laboratory Accreditation Program
Bureau of Laboratories

Continued accreditation status depends on successful ongoing participation in the program
Certificate not transferable Surrender upon revocation
To be conspicuously displayed at the Laboratory
Not valid unless accompanied by a valid Scope of Accreditation
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania
Customers are urged to verify the laboratory's current accreditation status



Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 010-001 expiration date 03/31/2023. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Free-Col Laboratory
613 W 11th Street
Erie, PA 16501
(814) 455-8061

DEP Laboratory ID: 25-03459

EPA Lab Code: PA01452

PADWIS ID: 03459

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 200.5	4.2	Arsenic	State	PA	10/06/2020
EPA 200.5	4.2	Lead	State	PA	10/06/2020
EPA 200.5	4.2	Selenium	State	PA	10/06/2020
EPA 200.7	4.4	Aluminum	State	PA	04/24/2020
EPA 200.7	4.4	Antimony	State	PA	04/24/2020
EPA 200.7	4.4	Arsenic	State	PA	04/24/2020
EPA 200.7	4.4	Barium	State	PA	04/24/2020
EPA 200.7	4.4	Beryllium	State	PA	04/24/2020
EPA 200.7	4.4	Cadmium	State	PA	04/24/2020
EPA 200.7	4.4	Calcium	State	PA	04/24/2020
EPA 200.7	4.4	Chromium	State	PA	04/24/2020
EPA 200.7	4.4	Cobalt	State	PA	04/24/2020
EPA 200.7	4.4	Copper	State	PA	05/05/2021
EPA 200.7	4.4	Iron	State	PA	04/24/2020
EPA 200.7	4.4	Magnesium	State	PA	04/24/2020
EPA 200.7	4.4	Manganese	State	PA	04/24/2020
EPA 200.7	4.4	Molybdenum	State	PA	04/24/2020
EPA 200.7	4.4	Nickel	State	PA	04/24/2020
EPA 200.7	4.4	Potassium	State	PA	04/24/2020
EPA 200.7	4.4	Selenium	State	PA	04/24/2020
EPA 200.7	4.4	Silver	State	PA	04/24/2020
EPA 200.7	4.4	Sodium	State	PA	04/24/2020
EPA 200.7	4.4	Strontium	State	PA	04/24/2020
EPA 200.7	4.4	Vanadium	State	PA	04/24/2020
EPA 200.7	4.4	Zinc	State	PA	04/24/2020
SM 2320 B		Alkalinity as CaCO ₃	State	PA	04/24/2020
SM 2510 B		Conductivity	State	PA	04/24/2020
SM 2540 C		Residue, filterable (TDS)	State	PA	04/24/2020
SM 2540 D		Residue, nonfilterable (TSS)	State	PA	04/24/2020
SM 3030 E		Nitric acid digestion	State	PA	04/24/2020
SM 4500-Cl G		Free chlorine	State	PA	04/24/2020
SM 4500-Cl G		Total chlorine	State	PA	04/24/2020
SM 4500-H+ B		pH	State	PA	04/24/2020
SM 4500-NO ₃ - E		Nitrate as N	State	PA	04/24/2020
SM 4500-NO ₃ - E		Nitrite as N	State	PA	04/24/2020
SM 4500-NO ₃ - E		Total nitrate-nitrite	State	PA	04/24/2020
SM 4500-P B		Preliminary treatment of phosphate samples	State	PA	04/24/2020
SM 4500-P E		Orthophosphate as P	State	PA	04/24/2020
SM 4500-P E		Phosphorus, total	State	PA	04/24/2020
SM 4500-SO ₄ D		Sulfate	State	PA	04/24/2020
SM 5210 B		Biochemical oxygen demand (BOD)	State	PA	04/24/2020
SM 5210 B		Carbonaceous BOD (CBOD)	State	PA	04/24/2020
SM 9215 B		Heterotrophic bacteria (Enumeration)	State	PA	04/24/2020
SM 9223 Colilert		E. coli (Enumeration)	State	PA	04/24/2020

Annamarie Beach

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SM 9223 Colilert		Total coliform & E. coli (P/A)	State	PA	04/24/2020
SM 9223 Colilert		Total coliform (Enumeration)	State	PA	04/24/2020

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
Colilert 18/Quantitray		Fecal coliform (Enumeration)	State	PA	04/24/2020
EPA 200.7	4.4	Aluminum	State	PA	04/24/2020
EPA 200.7	4.4	Antimony	State	PA	04/24/2020
EPA 200.7	4.4	Arsenic	State	PA	04/24/2020
EPA 200.7	4.4	Barium	State	PA	04/24/2020
EPA 200.7	4.4	Beryllium	State	PA	04/24/2020
EPA 200.7	4.4	Cadmium	State	PA	04/24/2020
EPA 200.7	4.4	Calcium	State	PA	04/24/2020
EPA 200.7	4.4	Chromium	State	PA	04/24/2020
EPA 200.7	4.4	Cobalt	State	PA	04/24/2020
EPA 200.7	4.4	Copper	State	PA	04/24/2020
EPA 200.7	4.4	Iron	State	PA	04/24/2020
EPA 200.7	4.4	Lead	State	PA	04/24/2020
EPA 200.7	4.4	Magnesium	State	PA	04/24/2020
EPA 200.7	4.4	Manganese	State	PA	04/24/2020
EPA 200.7	4.4	Molybdenum	State	PA	04/24/2020
EPA 200.7	4.4	Nickel	State	PA	04/24/2020
EPA 200.7	4.4	Potassium	State	PA	04/24/2020
EPA 200.7	4.4	Selenium	State	PA	04/24/2020
EPA 200.7	4.4	Silver	State	PA	04/24/2020
EPA 200.7	4.4	Sodium	State	PA	04/24/2020
EPA 200.7	4.4	Strontium	State	PA	04/24/2020
EPA 200.7	4.4	Vanadium	State	PA	04/24/2020
EPA 200.7	4.4	Zinc	State	PA	04/24/2020
EPA 3010	A	Hot plate acid digestion (HNO ₃ + HCl)	State	PA	04/24/2020
HACH 8000		Chemical oxygen demand (COD)	State	PA	04/24/2020
SM 2320 B		Alkalinity as CaCO ₃	State	PA	04/24/2020
SM 2510 B		Conductivity	State	PA	04/24/2020
SM 2540 B		Residue, total	State	PA	04/24/2020
SM 2540 C		Residue, filterable (TDS)	State	PA	04/24/2020
SM 2540 D		Residue, nonfilterable (TSS)	State	PA	04/24/2020
SM 3030 E		Nitric acid digestion	State	PA	04/24/2020
SM 3500-Cr B	20-22	Chromium VI	State	PA	04/24/2020
SM 4500-Cl G		Free chlorine	State	PA	04/24/2020
SM 4500-Cl G		Total chlorine	State	PA	04/24/2020
SM 4500-H+ B		pH	State	PA	04/24/2020
SM 4500-NO ₃ -E		Nitrate as N	State	PA	04/24/2020

Annmarie Black

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SM 4500-NO3- E		Nitrite as N	State	PA	04/24/2020
SM 4500-NO3- E		Total nitrate-nitrite	State	PA	04/24/2020
SM 4500-O G		Oxygen (dissolved)	State	PA	04/24/2020
SM 4500-P B		Preliminary treatment of phosphate samples	State	PA	04/24/2020
SM 4500-P E		Orthophosphate as P	State	PA	04/24/2020
SM 4500-P E		Phosphorus, total	State	PA	04/24/2020
SM 4500-SO4 D		Sulfate	State	PA	04/24/2020
SM 5210 B		Biochemical oxygen demand (BOD)	State	PA	04/24/2020
SM 5210 B		Carbonaceous BOD (CBOD)	State	PA	04/24/2020
USGS I-1187-85		Chloride	State	PA	04/24/2020

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Laboratory Status Summary

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Method	Revision	Analyte	Status	Effective Date
EPA 1664	A	Oil and grease	Applied	03/17/2022
EPA 200.5	4.2	Antimony	Applied	02/07/2020
EPA 200.7	4.4	Lead	Applied	11/05/2019
EPA 200.9	2.2	Thallium	Temp Withdraw	08/14/2012
SM 3112 B		Mercury	Temp Withdraw	08/14/2012
SM 3113 B		Antimony	Temp Withdraw	08/14/2012

Matrix: Non-Potable Water

Method	Revision	Analyte	Status	Effective Date
EPA 1664	A	Oil and grease	Applied	03/17/2022