



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING



LIESL EICHLER CLARK
DIRECTOR

April 29, 2021

Mr. Les Arnold
ALS Environmental – Holland
3352 128th Avenue
Holland, MI 49424-9263

Laboratory No: 0022

Dear Mr. Arnold:

SUBJECT: Laboratory Certification

The information that was prepared and submitted to this office by your laboratory has been reviewed. Based on this information, the Department of Environment, Great Lakes, and Energy (EGLE) has certified your laboratory for compliance monitoring under the Safe Drinking Water Act, 1976 PA 399, as amended. Our certification for your laboratory by parameter is as follows:

Microbiology

Certified Parameters:

Total Coliform and E.coli (via Standard Methods, 21st Edition, Method 9223B)
Heterotrophic Bacteria (via Standard Methods, 21st Edition, Method 9215B)

Inorganic Chemistry

Certified Parameters:

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, and Thallium (via U.S. EPA Method 200.8)
Mercury (via U.S. EPA Method 245.1)
Chloride, Fluoride, Nitrate, Nitrite and Sulfate (via U.S. EPA Method 300.0)
Cyanide (via U.S. EPA Method 335.4)
Nitrate, Nitrite, and Total Nitrates (via U.S. EPA Method 353.2)
Orthophosphate (via U.S. EPA Method 365.1)
Total Organic Carbon (via Standard Methods, 21st Edition, Method 5310C)

Organic Chemistry

Certified Parameters:

Regulated and Unregulated Volatile Organic Chemicals and Total Trihalomethanes (via U.S. EPA Method 524.2)

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Organic Chemistry

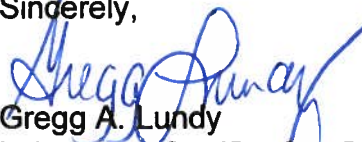
Certified Parameters:

Hexafluoropropylene oxide dimer acid (HFPO-DA), Perfluorobutane sulfonic acid (PFBS), Perfluorohexane sulfonic acid (PFHxS), Perfluorohexanoic acid (PFHxA), Perfluorononanoic acid (PFNA), Perfluorooctane sulfonic acid (PFOS), and Perfluorooctanoic acid (PFOA) (Michigan Regulated PFAS via U.S. EPA Method 537.1). N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA), N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA), Perfluorodecanoic acid (PFDA), Perfluorododecanoic acid (PFDoA), Perfluoroheptanoic acid (PFHpA), Perfluorotetradecanoic acid (PFTA), Perfluorotridecanoic acid (PFTTrDA), Perfluoroundecanoic acid (PFUnA), 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS), 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS), and 4,8-dioxa-3H-perfluorononanoic acid (ADONA) (via U.S. EPA Method 537.1).

Our certification of ALS Environmental – Holland, MI Laboratory for the chemical and microbiological examination of drinking water is contingent on your continued compliance with state and federal regulations. Additionally, your certification is contingent on the submission of acceptable proficiency test results from a state-approved supplier on a running 12-month basis.

Our certification of your facility will expire on September 4, 2023. At your option, you may display the enclosed certificates. If you have questions regarding this information, please contact me by phone at 517-335-9219 or by email at lundyg@michigan.gov.

Sincerely,



Gregg A. Lundy
Laboratory Certification Officer
Laboratory Services Section
Remediation and Redevelopment Division

GL/LS

Enclosure

cc: EGLE DWEHD Grand Rapids District Office
Ottawa County Health Department

Michigan Department of Environment, Great Lakes, and Energy



CERTIFIES: ALS ENVIRONMENTAL- HOLLAND

**HAS BEEN EVALUATED AND IS APPROVED FOR THE FOLLOWING
PARAMETERS FOR THE ANALYSIS OF DRINKING WATER:**

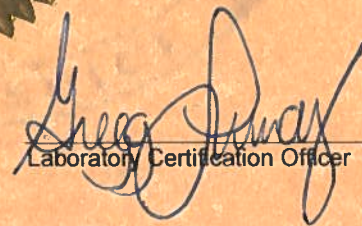
CERTIFIED PARAMETERS

Total Coliform and E.coli
Heterotrophic Bacteria

**This certification requires maintenance of an acceptable quality assurance program,
use of approved methodology and equipment,
and satisfactory performance on evaluation samples.
This certification does not guarantee validity of data generated.**



September 4, 2023
Expiration Date


Laboratory Certification Officer

April 29, 2021
Effective Date

0022
Laboratory Number

**Michigan Department of
Environment, Great Lakes, and Energy**



CERTIFIES:

ALS ENVIRONMENTAL-HOLLAND

**HAS BEEN EVALUATED AND IS APPROVED FOR THE FOLLOWING
PARAMETERS FOR THE ANALYSIS OF DRINKING WATER:**

CERTIFIED PARAMETERS


Antimony, Arsenic, Barium, Beryllium, Cadmium, Chloride,
Chromium, Copper, Cyanide, Fluoride, Lead, Mercury,
Nickel, Nitrate, Nitrite, Orthophosphate, Selenium,
Sulfate, Thallium, Total Organic Carbon

**This certification requires maintenance of an acceptable quality assurance program,
use of approved methodology and equipment,
and satisfactory performance on evaluation samples.
This certification does not guarantee validity of data generated.**



September 4, 2023
Expiration Date

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Laboratory Certification Officer

0022
Laboratory Number

Michigan Department of
Environment, Great Lakes, and Energy



CERTIFIES:

**ALS ENVIRONMENTAL
HOLLAND**

**HAS BEEN EVALUATED AND IS APPROVED FOR THE FOLLOWING
PARAMETERS FOR THE ANALYSIS OF DRINKING WATER:**

PER- AND POLYFLUORINATED ALKYL SUBSTANCES VIA US EPA METHOD 537.1

Hexafluoropropylene oxide dimer acid, Perfluorobutane sulfonic acid
Perfluorohexane sulfonic acid, Perfluorohexanoic acid
Perfluorononanoic acid, Perfluorooctane sulfonic acid, Perfluorooctanoic acid
N-ethyl perfluorooctane sulfonamidoacetic acid, N-methyl perfluorooctane sulfonamidoacetic acid
Perfluorodecanoic acid, Perfluorododecanoic acid, Perfluoroheptanoic acid
Perfluorotetradecanoic acid, Perfluorotridecanoic acid, Perfluoroundecanoic acid
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid, 4,8-dioxa-3H-perfluorononanoic acid

This certification requires maintenance of an acceptable quality assurance program, use of approved methodology and equipment, and satisfactory performance on evaluation samples. This certification does not guarantee validity of data generated.



September 4, 2023

Expiration Date

A handwritten signature in black ink, appearing to read 'Gregory L. ...'. The signature is written over a horizontal line that serves as a separator between the signature and the title below it.

Laboratory Certification Officer

April 29, 2021

Effective Date

0022

Laboratory Number

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R R Y N
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