Testing Engineers & Consultants, Inc.
1343 Rochester Road • PO Box 249 • Troy, Michigan 48099-0249
(248) 588-6200 or (313) T-E-S-T-I-N-G • Fax (248) 588-6232
www.testingengineers.com

TEC Report Number: 64912-01
Date Issued: May 20, 2025

Mr. Benjamin Matteson
Facilities Director
Grosse Pointe Public School System
20601 Morningside
Grosse Pointe Woods, MI 48236

Re: Drinking Water Sampling and Analysis for "Filter First" Compliance for Barnes Early Childhood Center located at 20090 Morningside Dr.; Grosse Pointe Woods, MI 48236. Sampling Date: April 29, 2025.

Dear Mr. Matteson:

Attached please find our report regarding drinking water sampling and analysis at Barnes Early Childhood Center to demonstrate compliance with the State of Michigan "Filter First" requirements. We hope that you find the report complete and self-explanatory.

We are pleased to provide this service. Should you have any questions or require additional information, please contact this office at your earliest convenience.

Respectfully Yours,
TESTING ENGINEERS & CONSULTANTS, INC.

Scott M. Chandler, CIH, LEED AP
Manager, Industrial Hygiene Services
SMC/sc

Testing Engineers & Consultants, Inc.
Grosse Pointe Public School System
Mr. Benjamin Matteson
May 20, 2025

TEC Report Number: 64912-01

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Testing Engineers & Consultants, Inc.
Grosse Pointe Public Schools
Mr. Richard VanGorder
June 4, 2019

TEC Report Number: 59768-01

Executive Summary

Testing Engineers & Consultants, Inc. (TEC) was retained by the Grosse Pointe Public School System (GPPSS) to conduct water testing Barnes Early Childhood Center located at 20090 Morningside Dr.; Grosse Pointe Woods, MI 48236. The purpose of the testing was to determine the lead concentration of first draw water samples collected from all fixtures identified in the school's Drinking Water Management Plan as being designated for "human consumption" purposes. The Drinking Water Management Plan was developed by GPPSS in accordance with Michigan Act 155, referred to as the Filter First Act for childcare centers.

Secondarily, the water samples were also analyzed for copper concentrations, as part of the school district's ongoing water quality monitoring program.

The significant findings of this study are as follows:

1. A total of thirteen water samples were collected from all ten fixtures that were identified as being "consumptive fixtures". All sample results were below the analytical laboratory's detection limit for lead (i.e., lead was not detected).

2. Based upon the Filter First legislation, follow up sampling of all filtered outlets (consumptive fixtures) is to be performed every two years.

3. The laboratory test results are to be made available upon request and retained for at least three years.

4. All water sample results were below the Action Level value for copper established in the EPA Lead and Copper Rule. No additional follow-ups are indicated.

Introduction

Testing Engineers & Consultants, Inc. (TEC) was retained by the Grosse Pointe Public School System (GPPSS) to conduct water testing Barnes Early Childhood Center located at 20090 Morningside Dr.; Grosse Pointe Woods, MI 48236. The purpose of the testing was to measure the lead concentration in first draw water samples collected from all fixtures identified in the school's Drinking Water Management Plan as being designated for "human consumption" purposes. All water samples were also analyzed for copper concentrations as part of the school district's water quality monitoring program.

Background

On October 19, 2023 Michigan Governor Gretchen Whitmer signed into law Act 155, referred to as the "Filter First Act" for childcare centers. In summary, the Act requires each licensed childcare center to do the following within two years of the effective date of the Act and in a manner consistent with the Drinking Water Management Plan created to comply with this legislation:

1. Post a conspicuous sign near each water outlet and drinking fountain indicating whether or not the outlet is intended to provide water for human consumption.

2. Ensure that any water furnished to children for human consumption by the childcare center is from a filtered faucet or other filtered source that is certified to meet NSF/ANSI Standard 53 for lead reduction and NSF/ANSI Standard 42 for particulate removal, or from a water delivery service,

3. Make available to the public and notify the parent or guardian of each child enrolled in the childcare center of the availability of the following:

    a. The results of all water sampling and testing conducted to comply with this legislation, and
    b. All filter and filter cartridge replacement dates for each filtered bottle-filling station, filtered faucet, filtered pitcher, or other filtered source.

TEC's scope of work was to conduct drinking water sampling and coordinate laboratory analysis for lead in accordance with the Filter First requirements. TEC also included copper testing of the water samples as part of the district 's ongoing water quality monitoring program.

Field Work

Water sampling was conducted at Barnes Early Childhood Center on April 29, 2025. Samples were collected from each consumptive fixture listed in the school's Drinking Water Management

Plan previously prepared by GPPSS for this facility. First-draw water samples were collected in 250 ml polyethylene bottles after a minimum 8 hour stagnation period in which no water was used in the building. The samples were collected beginning at the fixture closest to the water point of entry (POE) into the building and ending at the fixture most distant. This sequence is identified by the Sample Number given in Table 2; "Filtered and Unfiltered Consumptive Fixture Inventory" of the Water Management Plan document.

Afterward, the samples were forwarded to a State of Michigan certified drinking water laboratory (Paragon Laboratories; Livonia, MI) for analysis for lead and copper. The laboratory report is found in Appendix A. A copy of the laboratory's State of Michigan drinking water certification is found in Appendix B.

Results and Discussion

A total of 13 water samples were collected from the ten fixtures identified in the Water Management Plan as being designated for human consumption. The laboratory findings for lead and copper analysis are summarized in the table below.

Table One
Water Sample Results for Lead & Copper in Drinking Water
Barnes Early Childhood Center

Sample #	Fixture ID Code	Fixture Location	Lead (mg/L)	Copper (mg/L)
BA001-1P	BA-1st-DF	1st floor between Bathrooms	<0.0010	0.10
BA001-2P	BA-1st-BF	1st floor between Bathrooms	<0.0010	0.10
BA002-1P	BA-114-CF	Room114	<0.0010	0.10
BA003-1P	BA-2nd-DF	2nd floor between Bathrooms	<0.0010	0.050
BA003-2P	BA-2nd-BF	2nd floor between Bathrooms	<0.0010	0.059
BA005-1P	BA-203-WC	Room 203	<0.0010	<0.0010
BA006-1P	BA-KIT-KF	Kitchen off receiving	<0.0010	0.026
BA007-1P	BA-111-DF	Next to Room 111	<0.0010	0.23
BA007-2P	BA-111-BF	Next to Room 111	<0.0010	0.15
BA008-1P	BA-203-OT	Room 203 Conference Room	<0.0010	0.065
BA029-1P	BA-109-CF	Room 109 (Special Needs)	<0.0010	0.098
BA033-1P	BA-107-CF	Room 107 (Special Needs)	<0.0010	0.061
BA040-1P	BA-200-TL	Room 200 Staff Lounge	<0.0010	0.11

Fixture Type Codes

Code	Fixture Type	Code	Fixture Type
B	Bubbler outlet on the bottle fill unit	NS	Nurses Sink Faucet
BF	Bottle Fill Outlet	OT	Other Faucet used for Consumption
CF	Classroom Faucet	RF	Restroom Faucet (Used for Consumption)
DF	Drinking Fountain	SC	Service Connection
IM	Ice Machine	TL	Teachers' Lounge Faucet
KF	Kitchen Faucet	WC	Water Cooler (Plug-in Chiller Unit/'Refrigerated Unit)
KK	Kitchen Kettle -fill		

The Filter First legislation requires specific actions to be taken based upon the results of lead testing.

These are summarized as follows:

1. Test results not detecting lead (0 mg/L)
    a. Record and file the results
    b. Share upon request
2. Test results detecting lead (0.001-0.005 mg/L)
    a. Immediately check status of filter(s)
    b. Replace filter/cartridge if status light is yellow or red
    c. Ensure the filter is properly installed
    d. Resample and retest
    e. If re-test result is 0.001-0.005 mg/L
        i. Send copy of result and make/model of filter to MILEAP and EGLE
        ii. Consult with EGLE or filter manufacturer
3. Test results detecting more than 0.005 mg/L
    a. Immediately shut off or render the water outlet inoperable
    b. Post a conspicuous sign near the outlet stating it is inoperable because of high lead concentration. Maintain the sign until actions have been taken to reduce the risk
    c. Replace the filter/cartridge
    d. Resample and retest the filtered water
    e. Return the outlet to service if re-test result is not more than 0.005 mg/L lead
        i. If result is 0.001 -0.005 mg/L, follow Item 2 above
        ii. If result is > 0.005 mg/L, complete all the following:
            1. Within 30 days after receiving the test results:
                a. Send a copy of the test results to MILEAP and EGLE
                b. Send a notice to staff and parents/guardians which includes the amount of lead found in the water and information, provided by EGLE, on the health effects of lead exposure and ways to reduce childhood lead exposure
            2. Develop a remediation plan in consultation with MILEAP and EGLE. The Drinking Water Management Plan must be updated to incorporate the remediation plan.

As previously noted, TEC requested the laboratory to conduct copper analysis of the samples as part of the district's ongoing water quality monitoring program. The copper results found in Table One, above, were compared against the Action Level (AL) established in 1991 by EPA in its Lead and Copper Rule. For copper, the AL is 1.3 milligrams per liter (1.3 mg/L), which is also the Maximum Contaminant Level (MCL) established under the federal Safe Drinking Water Act. MCLs are the highest level of a contaminant allowed in drinking water.

Conclusions and Recommendations

Testing Engineers & Consultants, Inc. has completed the drinking water sampling and analysis at Barnes Early Childhood Center to demonstrate compliance with the Filter First Act. Based upon the laboratory results, we provide the following Conclusions and Recommendations:

1. A total of thirteen water samples were collected from the ten fixtures that were identified as being "consumptive fixtures". All sample results were below the analytical laboratory's detection limit for lead. Based upon the guidance provided in the Filter First legislation, the school district is required to record these findings and make them available to the public and notify the families of each child enrolled in the center by October 24, 2025.

2. Additionally, the Filter First legislation requires the school district to conduct sampling of all filtered water outlets every two years.

3. The laboratory test results are to be retained for at least three years.

4. All water sample results were below the Action Level value for copper established in the EPA Lead and Copper Rule. No additional follow-ups are indicated.

APPENDIX A

PARAGON LABORATORIES

P:734.462.3900
paragonlaboratories.com

Monday, May 5, 2025

Scott Chandler
Testing Engineers & Consultants
1343 Rochester Rd
Troy, MI 48083

Workorder: 402472
Project Name: 64912-01A Barnes Early Childhood
Purchase Order: 64912-01A

Scott Chandler,

Paragon Laboratories, Inc. received the sample(s) associated with the Workorder listed above for the test results presented in the following report. The results pertain only to the aliquot(s) of the sample(s) tested.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 40 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact me at 734-469-5619.

Sincerely,

Elizabeth Pangborn
Senior Project Manager

[MI] Paragon Laboratories, Inc. is certified by the Michigan Department of Environment, Great Lakes, and Energy to analyze Drinking Water. (EGLE Lab No. 9901 Expires 02/25/2026)

State of Michigan Drinking Water Certification (EGLE)

[N] Paragon Laboratories, Inc. is NELAP certified by the State of Florida Department of Health, Bureau of Public Health Laboratories for the examination of environmental samples in specified categories. Please refer to https://www.paragonlaboratories.com/about-paragon/quality-system for details. (Lab No. E871171 Expires 06/30/2025)

NELAP Accreditation - Lab E871171

[A] Paragon Laboratories, Inc. is accredited to ISO/IEC 17025:2017 by A2LA for analytical methods referring to this note. (A2LA Cert. No. 2705.01 Expires 05/31/2025)

A2LA Accreditation to ISO/IEC 17025:2017

[P] Paragon Laboratories, Inc. is accredited to ISO/IEC 17025:2017 by PJLA for analytical methods referring to this note. (PJLA Cert. No. L25-50 Expires 02/28/2027)

PJLA Accreditation to ISO/IEC 17025:2017 (Food and Food Safety)

GLOSSARY

Abbreviation	Meaning	Explanation
ID	Identification	Preceeded by "Lab", it describes the unique 10-digit sample number assigned by the laboratory. Preceeded by "Sample", it describes the client-specified sample identifier.
Qual	Qualifier	Column that populates with an asterisk (*) when a related narrative comment appears in the Workorder Summary.
RL	Reporting Limit	The value at or above which a result is routinely reported.
MDL	Method Detection Limit	The minimum measured concentration that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.
DF	Dilution Factor	The dilution applied to the sample during analysis to arrive at the final reported analyte result.
Min	Minimum	The minimum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
Max	Maximum	The maximum value that a result can be to meet the applicable specification, regulatory, permit, or client-specified limit.
(S)	Surrogate	A compound that is added to the sample to mimic one or more compounds of interest. Its recovery is used to evaluate the efficiency of recovering the compound(s) of interest.
<	Less Than	Symbol that indicates that a result is less than the value following it.
>	Greater Than	Symbol that indicates that a result is greater than the value following it.
CD	Customer Supplied Data	Initials in "By" section of Analytical Results that indicate data was supplied by customer. Paragon Laboratories Inc., takes no responsibility for customer supplied data.
NC	Non-Calcuable	QC result is non-calcuable based on results.

SAMPLE SUMMARY

Lab ID	Sample ID	Sample Description	Matrix	Date Collected	Date Received	Collector
4024720001	BA001-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720002	BA001-2P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720003	BA002-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720004	BA003-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720005	BA003-2P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720006	BA005-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720007	BA006-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720008	BA007-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720009	BA007-2P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720010	BA008-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720011	BA029-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720012	BA033-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery
4024720013	BA040-1P	Grab	D	04/21/2025 14:15	04/29/2025 12:14	Zackery

Workorder Narrative

General Comments:

Samples were received ambient with an average temperature of 22.7 °C on April 29th, 2025.

Analysis Results Narrative

4024720009 - BA007-2P - Copper, Total

The concentration for this analyte was greater than 4X the MS/MSD spike concentration. No qualification is necessary for recovery failures.

ANALYTICAL RESULTS

Lab ID:	4024720001	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA001-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.10		mg/L	0.0010		1		1.3	05/01/2025 13:10	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:10	LDP

ANALYTICAL RESULTS

Lab ID:	4024720002	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA001-2P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.10		mg/L	0.0010		1		1.3	05/01/2025 13:12	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:12	LDP

ANALYTICAL RESULTS

Lab ID:	4024720003	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA002-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.10		mg/L	0.0010		1		1.3	05/01/2025 13:13	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:13	LDP

ANALYTICAL RESULTS

Lab ID:	4024720004	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA003-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.050		mg/L	0.0010		1		1.3	05/01/2025 13:15	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:15	LDP

ANALYTICAL RESULTS

Lab ID:	4024720005	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA003-2P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.059		mg/L	0.0010		1		1.3	05/01/2025 13:16	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:16	LDP

ANALYTICAL RESULTS

Lab ID:	4024720006	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA005-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	<0.0010		mg/L	0.0010		1		1.3	05/01/2025 13:18	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:18	LDP

ANALYTICAL RESULTS

Lab ID:	4024720007	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA006-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.026		mg/L	0.0010		1		1.3	05/01/2025 13:22	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:22	LDP

ANALYTICAL RESULTS

Lab ID:	4024720008	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA007-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.23		mg/L	0.0010		1		1.3	05/01/2025 13:24	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:24	LDP

ANALYTICAL RESULTS

Lab ID:	4024720009	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA007-2P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.15	*	mg/L	0.0010		1		1.3	05/01/2025 13:25	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:25	LDP

ANALYTICAL RESULTS

Lab ID:	4024720010	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA008-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.065		mg/L	0.0010		1		1.3	05/01/2025 13:29	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:29	LDP

ANALYTICAL RESULTS

Lab ID:	4024720011	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA029-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.098		mg/L	0.0010		1		1.3	05/01/2025 13:31	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:31	LDP

ANALYTICAL RESULTS

Lab ID:	4024720012	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA033-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.061		mg/L	0.0010		1		1.3	05/01/2025 13:32	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:32	LDP

ANALYTICAL RESULTS

Lab ID:	4024720013	Date Collected:	04/21/2025 14:15	Matrix:	Drinking Water, Potable (D)
Sample ID:	BA040-1P	Date Received:	04/29/2025 12:14	Collector:	Zackery
Description:	Grab				

Parameter	Result	Qual	Unit	RL	MDL	DF	Min	Max	Analyzed	By
Metals by EPA 200.8 [N] [MI]										
Copper, Total	0.11		mg/L	0.0010		1		1.3	05/01/2025 13:34	LDP
Lead, Total	<0.0010		mg/L	0.0010		1		0.012	05/01/2025 13:34	LDP

CHAIN-OF-CUSTODY RECORD

PARAGON LABORATORIES

12649 Richfield Ct. Livonia, MI 48150 **P** 734.462.3900 **F** 734.462.3911 **W** www.paragonlaboratories.com

402472 TEC Testing Engineers & Consultants

Client Name:	Testing Engineers & Consultants, Inc.
Contact Person:	Scott Chandler
Mailing Address:	1343 Rochester Rd.
City, State, Zip:	Troy, MI 48083
Phone and Fax:	248-588-6200
Email:	schandler@tectest.com
Client Job Name / No.:	64912-01A
Job Location:	Barnes Early Childhood
WSSN #:	PIN #:
Sampled By:	Zachary Lee
PO No.:	64912-01A

Remarks:

☆ client said to use these times for collection times, SPT

Regulatory Requirements

- RCRA ☐
- NPDES ☐
- Drinking Water ☑
- Other: _____

Turnaround Requirements

- 1 Day (RUSH) ☐
- 2 Day (RUSH) ☐
- 3 Day (RUSH) ☐
- 5 Day (STANDARD) ☑
- Other: _____

Matrix Key

DW = Drinking Water WW = Wastewater
W = Water D = Diesel BD = Biodiesel
G = Gasoline E8 = E85 O = Oil
SL = Sludge S = Soil X = Other

ANALYSIS REQUESTED

Item No.	Date Taken	Time Taken	Grab	Comp	Client Sample ID	Matrix	No. of containers	Lead	Copper	PARAGON SAMPLE NO.
01	4/21/25		X		BA001-1P	DW	1	✓	✓	402472-W1
02	4/21/25		X		BA001-2P	DW	1	✓	✓	W2
03	4/21/25		X		BA002-1P	DW	1	✓	✓	W3
04	4/21/25		X		~~BA003-1P~~ BA003-1P	DW	1	✓	✓	W4
05	4/21/25		X		~~BA003-2P~~ BA003-2P	DW	1	✓	✓	W5
06	4/21/25		X		BA005-1P	DW	1	✓	✓	W6
07	4/21/25		X		BA006-1P	DW	1	✓	✓	W7
08	4/21/25		X		BA007-1P	DW	1	✓	✓	W8
09	4/21/25		X		BA007-2P	DW	1	✓	✓	W9
10	4/21/25		X		BA008-1P	DW	1	✓	✓	W10

Tran. #	Released By	Received By	Date	Time
1.			4-29-25	2:15 PM ☆
2.	RBoothe	SDT	4.29.25	12:14
3.				
4.				

CHAIN-OF-CUSTODY RECORD

PARAGON LABORATORIES

12649 Richfield Ct. Livonia, MI 48150 **P** 734.462.3900 **F** 734.462.3911 **W** www.paragonlaboratories.com

402472
TEC
Testing Engineers & Consultants

Client Name:	Testing Engineers & Consultants, Inc.
Contact Person:	Scott Chandler
Mailing Address:	1343 Rochester Rd.
City, State, Zip:	Troy, MI 48083
Phone and Fax:	248-588-6200
Email:	schandler@tectest.com
Client Job Name / No.:	64912-01A
Job Location:	Barnes Early Childhood
WSSN #:	PIN #:
Sampled By:	Zachary Lee
PO No.:	64912-01A

Remarks:

Regulatory Requirements
- RCRA ☐
- NPDES ☐
- Drinking Water ☒
- Other: _____

Turnaround Requirements
- 1 Day (RUSH) ☐
- 2 Day (RUSH) ☐
- 3 Day (RUSH) ☐
- 5 Day (STANDARD) ☒
- Other: _____

Matrix Key
DW = Drinking Water WW = Wastewater
W = Water D = Diesel BD = Biodiesel
G = Gasoline E8 = E85 O = Oil
SL = Sludge S = Soil X = Other

ANALYSIS REQUESTED

Item No.	Date Taken	Time Taken	Grab	Comp	Client Sample ID	Matrix	No. of containers	Lead	Copper	PARAGON SAMPLE NO.
11	4/21/25		X		BA029-IP	DW	1	✓	✓	402472-0011
12	4/21/25		X		BA033-IP	DW	1	✓	✓	12
13	4/21/25		X		BA040-IP	DW	1	✓	✓	13

Tran. #	Released By	Received By	Date	Time
1.			4-29-25	2:15 PM
2.		SDT	4.29.25	12:14
3.				
4.				

Sample Receipt Acceptability Checklist

Sample Receiver	Initials: SOT	Date: 4.29.25	Client: TEC

	Criteria - All Samples	Yes	No	n/a	Additional Info / Comments
1.	Delivery method? (circle one)				Courier: _____ (Client drop-off) Paragon pick-up Paragon sampled
2.	Arrived in cooler?	✓			Cooling method (circle one): Natural ice Blue ice (Ambient) n/a
3.	COC or other paperwork present and adequate?		✓		If other paperwork provided, describe: cocs missing collection times, client said to use date plus the times written on the first release section
4.	Sample containers intact?	✓			If "No", explain:
5.	Sample containers in agreement with COC?	✓			If "No", explain:
6.	All samples in containers provided by Paragon?	✓			If "No", explain:
7.	Containers underfilled or overfilled? (Microbiology, Pb&Cu, Petroleum)		✓		If "Yes", explain:
	Additional Criteria - Environmental Samples*	**Yes**	**No**	**n/a**	**Additional Info / Cor**
8.	Samples within holding time?	✓			If "No", explain:
9.	Are any water samples frozen?		✓		If "Yes", explain:
10.	Average sample temperature? (°C) Thermometer Asset #: 11319	22.7			If multiple samples in one cooler, take the temperatures of three : (Refer to SOP-N0182) 22.8 22.8 22.6
11.	Average temperature within limits or sampled within 24 hrs of receipt?	✓			
12.	Containers requiring zero headspace have no headspace or bubbles are < 6 mm (1/4")			✓	If "No", container identification(s):
13.	Sample(s) properly preserved?			✓	
14.	pH Readings:			✓	Notes or additional pH readings:
	Sample ID: _____ pH: _____				
	Sample ID: _____ pH: _____				
	Sample ID: _____ pH: _____				
	Sample ID: _____ pH: _____				

Account Coordinator	Initials: ECA	Date: 4/29/25	Workorder: 402472 / 402476 / 402479 / 402480

		Yes	No	Additional Info / Comments
1.	Is there sufficient volume for all requested analyses?	X		If "No", explain: 402481 / 402482 / 402484 / 402485 / 402487
2.	Client contacted?		X	Date: Mode of communication: Issue(s): 402488 / 402489 / 402490 / 402491 / 402492
3.	All samples accepted?	X		If "No" (or "Yes" with resolution), explain:

402472 TEC Testing Engineers
402476 TEC Testing Engineers
402479 TEC Testing Engineers & Consultants
402480 TEC Testing Engineers & Consultants
402481 TEC Testing Engineers
402482 TEC Testing Engineers & Consultants
402484 TEC Testing Engineers
402485 TEC Testing Engineers & Consultants
402487 TEC Testing Engineers
402488 TEC Testing Engineers & Consultants
402489 TEC Testing Engineers
402490 TEC Testing Engineers & Consultants
402491 TEC Testing Engineers
402492 TEC Testing Engineers & Consultants

*Refer to REF-N0008A

APPENDIX B

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

GRETCHEN WHITMER
GOVERNOR

PHILLIP D. ROOS
DIRECTOR

July 24, 2024

John Parmentier
Paragon Laboratories, Inc.
12649 Richfield Court
Livonia, MI 48150

Laboratory No: 9901
Effective Date: 7/24/2024

Dear John Parmentier:

SUBJECT: Amended Laboratory Certification

The information 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* and Enumeration of Total Coliform and *E.coli*
(via Membrane Filtration, MI Agar, U.S. EPA Method 1604)
Total Coliform and *E. coli (*via Standard Methods, 22nd Edition, Method 9223B)
Enumeration of Total Coliform and *E.coli* (via Standard Methods, 22nd Edition, Method 9223B, QT/MW)
Heterotrophic Plate Count (via Standard Methods, 22nd Edition, Method 9215B)
Total Coliform and *E. coli* (via Standard Methods, 22nd Edition, Method 9223B)

Inorganic Chemistry
Certified Parameters:

Calcium, Magnesium, Potassium, and Sodium (via U.S. EPA Method 200.7)
Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Thallium and Uranium
(via U.S. EPA Method 200.8)
Mercury (via U.S. EPA Method 245.1)
Chloride, Fluoride, Nitrate, Nitrite, Nitrate+Nitrite, and Sulfate
(via U.S. EPA Method 300.0)
Chloride, Fluoride, Nitrate, Nitrite, Nitrate+Nitrite, Orthophosphate and Sulfate
(via U.S. EPA Method 300.1, Part A)

Inorganic Chemistry
Certified Parameters:

Bromate, Bromide, Chlorate and Chlorite (via U.S. EPA Method 300.1, Part B)
Orthophosphate (via Standard Methods, 22nd Edition, Method 4500P-E)
Total Organic Carbon (via Standard Methods, 22nd Edition, Method 5310C)
Cyanide (via OIA-1677 DW)

Organic Chemistry
Certified Parameters:

Dibromochloropropane (DBCP) and Ethylene Dibromide (EDB)
(via U.S. EPA Method 504.1)
2,4-D, Dalapon, Dicamba, Dinoseb, Pentachlorophenol, Picloram and 2,4,5 -TP (Silvex)
(via U.S. EPA Method 515.4)
Vinyl Chloride, Regulated, Unregulated Volatile Organic Chemicals and Total Trihalomethanes (via U.S. EPA Method 524.2)
Alachlor, Aldrin, Atrazine, Benzo(a)pyrene, Butachlor, Chlordane, Dieldrin, Di(2-ethylhexyl)adipate, Di(2-ethylhexyl)phthalate, Endrin, Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Metolachlor, Methoxychlor, Metribuzin, PCBs (Screen only), Propachlor, Simazine, and Toxaphene
(via U.S. EPA Method 525.2)
Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Carbaryl, Carbofuran, Methomyl, Oxamyl, and 3-Hydrocarbofuran (via U.S. EPA Method 531.2)
Dalapon and Halo Acetic Acids (via U.S. EPA Method 552.3)

Organic Chemistry
PFAS 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 (PFTrDA), 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 Paragon Laboratories, Inc. for the microbiological and chemical 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 certifications of your facility will expire on February 25, 2026. At your option, you may display the enclosed certificates. If you have questions regarding this information, please contact me by phone at 517-930-7040 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 Southeastern Michigan District Office
Wayne County Health Department