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Analytical Report

Serialized: 02/06/2020 05:52pm QC21

GREAT MEADOWS BOARD OF EDUCATION
PO BOX 74

GREAT MEADOWS,NJ 07838

Regarding:
JOE KILEY
GREAT MEADOWS BOARD OF EDUCATION
HOPE GREAT MEADOWS ROAD
273 ROUTE 46
GREAT MEADOWS, NJ 07838

PROJECT ID:

M00363 MIDDLE SCHOOL

LABORATORY REPORT NUMBER:

L7187410

PO NUMBER:

P200200050 VOUCHER

Fluoride

Authorized by: Douglas J. Gump
Client Services Manager

Eurofins QC, LLC

Analytical Report

Printed 02/06/20 17:52 QC21

GREAT MEADOWS BOARD OF EDUCATION
M00363 MIDDLE SCHOOL
GREAT MEADOWS MIDDLE SCHOOL
P.O. No: P200200050 VOUCHER
Inv. No: 2005288
PWSID: 2112324

JOE KILEY
GREAT MEADOWS BOARD OF EDUCATION
HOPE GREAT MEADOWS ROAD
273 ROUTE 46
GREAT MEADOWS, NJ 07838

Regarding:
JOE KILEY
GREAT MEADOWS BOARD OF EDUCATION
HOPE GREAT MEADOWS ROAD
273 ROUTE 46
GREAT MEADOWS, NJ 07838

SAMPLE SUMMARY

Lab ID	Collected	Received	Matrix	Client ID
L7187410-1	02/03/20 10:11	02/03/20 15:49	WATER	WL001001

Eurofins QC, LLC

Analytical Report

Printed 02/06/20 17:52

*** STATE FORMS SENT ELECTRONICALLY ***

Sample Description:	WL001001		
Sample Number:	L7187410-1	**Samp. Date/Time/Temp:**	02/03/20 10:11am NA C
Matrix:	WATER	**Sampled by:**	Jesse W. Nitchkey, Eurofins QC, LLC
Received Temp:	1.5 C	**Iced (Y/N):**	Y

--SUBCONTRACTED RESULT REFERENCES--WL001001

See attached reports for the following Subcontract Laboratories:

Eurofins - Lancaster Laboratories, Environmental (ELLE)
FLUORIDE

cc: GREAT MEADOWS BOARD OF EDUCATION
JOHN MCGOWAN, MCGOWAN LLC

*=This limit was used in the evaluation of the final result.

PIN: 70782 Serial Number: 6569431

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DEFINITIONS

The following terms or abbreviations are used in this report: ***Eurofins QC, LLC (EQC)***

<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL
CFU	Colony Forming Unit
DF	Dilution Factor (For Microbiology, DF = volume of sample tested)
DRY	Result was reported on a dry weight basis
MCL	EPA recommended "Maximum Contaminant Level"
MDL	Method Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
ND	For odor test: No Odor Observed
ND	For all other tests: Analyte concentration Not Detected greater than the RL / MDL

NEG	Negative / Absent
NTU	Nephelometric Turbidity Units
POS	Positive / Present
PPB (µg/L)	Parts per billion: equivalent to 1 microgram per kilogram (µg/Kg) for solids or one microgram per liter (µg/L) for aqueous samples
PPM (mg/L)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples
PRES	Presumptive
QUAL	Qualifier (Q)
RL	Laboratory Reporting Limit or Limit of Quantitation (LOQ)
TNTC	Too Numerous To Count
TON	Threshold Odor Number

Data Qualifiers

J	Estimated value ≥ MDL, but < RL
T	Temperature exceedance at receipt, refer to Sample Comments / Results Qualifiers section
E	Estimated CFU count (Microbiology)
Q	Qualifier defined in Sample Comment section on report

Warranties, Terms, and Conditions

- Unless otherwise indicated in the Parameter field, analyses for environmental microbiology, odor, and pharmaceutical microbiology are performed at the EQC Horsham Facility (702 Electronic Dr. Horsham, PA 19044).
- Analyses for Field Parameters are performed by EQC Field staff. Locations and certifications are identified on the Chain of Custody as follows:
  - "ERF" = field staff performs tests under NJ State certification # 02015.
  - "VL" = field staff performs tests under NJ State certification # 06005.
  - "WG" = field staff performs tests under NJ State certification # PA001.
- Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- Reported results relate only to the sample as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. EQC's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry), Amanda Berd (Pharmaceutical Microbiology), and Zachary Smith (Water Microbiology).

EQC Accreditations

Horsham Facility	NELAP/State IDs-	PA: 46-05499 NJ: PA093 NY: 12080 MD: 357
East Rutherford Facility	State ID-	NJ: 02015
Vineland Facility	State ID-	NJ: 06005
Wind Gap Facility	State ID-	NJ: PA001

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CHAIN OF CUSTODY

Page ___ of ___

Lab LIMS No: L7187410

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

702 Electronic Drive
Horsham, PA 19044
Phone: 215-355-3900
Fax: 215-392-0626

Client/Acct. No. M00363 Middle School
Address
City/State/Zip
Phone/Fax
Client Contact:

Bill to/Report to (if different)

Sampling Site Address (if different) Include State

P.O. No. PWSID #:
Quote #
e-mail:

LAB USE ONLY:

___ Ascorbic/HCL Vials # ___ HCl Vials
___ $Na_2S_2O_3$ _____
___ Na OH/Zn acetate pH _____
___ HNO_3 pH _____
___ H_2SO_4 pH _____
___ NaOH pH _____
___ Unpreserved
___ HCl # ____NH4Cl # ____MeOH
____ DI Water

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	Znac	UNPRE	BACT	ANALYSIS REQUESTED	Field pH, Temp (°C), DO, Cl2, Cond. etc.
-1 WL001001	2/3/20	1011	✓		DW	1							1		Flouride	

SAMPLED BY: (Name/Company)

TAT: ☐ STANDARD (10 DAY)
or DUE DATE___/___/___

Report Format: ☐ Standard ☐ NJ-RDD ☐ SRP-RDD
☐ Standard + QC ☐ Forms ☐ EDD

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

Field Parameters Analyzed By:
Initials | Date/Time:

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

	RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1.		2/3/20	1549	Cooler JUSH	2/3/20	1549
2.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
3.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
4.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
5.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME

DELIVERY: ☐ EQC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER _____

Custody Seal Number

Rec'd Temp.: 1.5° Initials: JHM Ice (Y) N Location: Lab

COMMENTS:
FS275276

Hazardous: yes / no

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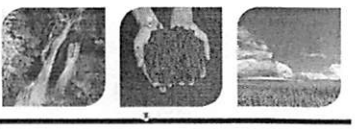
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Eurofins QC, LLC
702 Electronic Drive
Horsham PA 19044

Report Date: February 06, 2020 08:39

Project: L7187410

Account #: 24187
Group Number: 2086020
State of Sample Origin: NJ

Electronic Copy To Eurofins QC, LLC Attn: Nicki Smith

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
L7187410-1 Drinking Water	02/03/2020 10:11	1251992

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Respectfully Submitted,

Wendy A. Kozma
Principal Specialist Group Leader

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

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2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Analysis Report

Sample Description: L7187410-1 Drinking Water
WL001001

Project Name: L7187410

Submittal Date/Time: 02/03/2020 23:10
Collection Date/Time: 02/03/2020 10:11

Eurofins QC, LLC
ELLE Sample #: EW 1251992
ELLE Group #: 2086020
Matrix: Drinking Water

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	MCL	Dilution Factor
Wet Chemistry		**EPA 300.0**		mg/l	mg/l	mg/l	mg/l	
01504	Fluoride		16984-48-8	N.D.	0.25	0.50	4	5

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	Fluoride	EPA 300.0	1	20035076113B	02/05/2020 02:31	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided MCL.

2086020

UROFINS QC, LLC
02 Electronic Drive
orsham, PA 19044
ontact: Nicki Smith x3360
hone: 215-355-3900
AX: 215-392-0626

Bill to:

Horsham, PA 19044

EUROFINS QC, INC.
LANCASTER (ELLE) CHAIN OF CUSTODY
Feb 03 2020, 11:27 am

PWSID: 2112324

Sample ID	Analysis	Number of Containers											Sampled Date and Time	Tier
tate: NJ		Total	H2SO4	HCl	AscAc	HNO3	NaOH	ZnAc	Unpre	Bact	NaThio	Other		
L7187410-1 WL001001		1							1	1			02/03/20 10:11 AM	
02/14/20 WATER	F													
02/14/20 WATER	FORM STATE													

45

oisture? _____

E-Account Number: 24187 GREAT MEADOWS BOARD OF EDUCATION CS REP: MJADICO

ackage Type:

Relinquished By	Date	Time
	2/3/20	1549

Received By	Date	Time
Cooler JWJ	2/3/20	1549
	2/3/20	2310

Comments:

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CHAIN OF CUSTODY

Page ____ of ____

Lab LIMS No: 2086020

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

702 Electronic Drive Phone: 215-355-3900
Horsham, PA 19044 Fax: 215-392-0626

Client/Acct. No. M00363 Middle School
Address
City/State/Zip
Phone/Fax
Client Contact:

Bill to/Report to (if different)

Sampling Site Address (if different) Include State

P.O. No. PWSID #:
Quote #
e-mail:

LAB USE ONLY:

___ Ascorbic/HCL Vials # ___ HCl Vials
___ $Na_2S_2O_3$ _____
___ Na OH/Zn acetate pH _____
___ HNO_3 pH _____
___ H_2SO_4 pH _____
___ NaOH pH _____
___ Unpreserved
___ HCl # ____NH4Cl # ____MeOH
____ DI Water

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	ZnAc	UNPRE	BACT	ANALYSIS REQUESTED	Field pH, Temp (°C), DO, Cl2, Cond. etc.
-1 WL001001	2/3/20	1011	✓		DW	1							1		Flouride	

SAMPLED BY: (Name/Company)

TAT: ☐ STANDARD (10 DAY)
or DUE DATE____/____/____

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☐ Standard + QC ☐ Forms ☐ EDD

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Initials | Date/Time:

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	RELINQUISHED BY SAMPLER	DATE	TIME	RECEIVED BY	DATE	TIME
1.		2/3/20	1549	Cooler JUSH	2/3/20	1549
2.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
3.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
4.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
5.	RELINQUISHED BY	DATE	TIME	RECEIVED BY	2/3/20	2310

DELIVERY: ☐ EQC COURIER ☐ CLIENT ☐UPS ☐FEDEX ☐OTHER _____

Custody Seal Number

Rec'd Temp.: 1.5°C Initials: JWM Ice (Y) N Location: Lab

COMMENTS:
FS275276

Hazardous: yes / no

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Sample Administration Receipt Documentation Log

Doc Log ID: 274353

Group Number(s):

Client: EQCL

*208602

Delivery and Receipt Information

Delivery Method:	EQCL Drop Off	Arrival Date:	02/03/2020
Number of Packages:	1	Number of Projects:	1

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Anthony Peelor

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	46730060WS	1.2	IR	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report
B	Detection in the Method Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q2	MS/MSD Low
Q3	MS/MSD High
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.