

Serialized: 06/20/2017 12:55am QC36

GEORGE T. FARLEY, PRESIDENT  
WATER MANAGEMENT SERVICES  
PO BOX 445

SOUTHAMPTON, PA 18966

Regarding:

WATER MANAGEMENT SERVICES  
570 DUNKSFERRY ROAD  
BENSALEM, PA 19020

**PROJECT ID:**

**W00678**

**LABORATORY REPORT NUMBER:**

**L6843442**



Authorized by: Raphael C. Fratti, Laboratory Director

GEORGE T. FARLEY, PRESIDENT  
WATER MANAGEMENT SERVICES  
570 DUNKSFERRY ROAD  
BENSALEM, PA 19020

Regarding:  
GEORGE T. FARLEY, PRESIDENT  
WATER MANAGEMENT SERVICES  
570 DUNKSFERRY ROAD  
BENSALEM, PA 19020

---

Account No: W00678, WATER MANAGEMENT SERVICES, SOUTHAMPTON  
Project No: W00678, WATER MANAGEMENT SERVICES, SOUTHAMPTON

P.O. No:

Inv. No: 1873767 PI  
PWSID No:

---

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6843442-1	STERLING HIGH SCHOOL, KITCHEN ICE W/ FILTER Received Date/Time/Temp 06/07/17 11:36am 24.2 C Iced (Y/N): N Exceeds recommended temperature for chemical testing.(T)	06/07/17 08:00am NA C	Customer

--SUBCONTRACTED RESULT REFERENCES--

See attached reports for the following Subcontract Laboratories:

Eurofins - Lancaster Laboratories, Environmental (ELLE)  
LEAD

Sample Comments | Result Qualifiers:

L6843442-1 :



## DEFINITIONS

### Eurofins OC, Inc. (EOC)

*The following terms or abbreviations are used in this report:*

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor (For Microbiology, DF = volume of sample tested)
POS	Positive / Present	QUAL	Qualifier (Q)
NEG	Negative / Absent	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit
DRY	The result was reported on a dry weight basis.	ND	Analyte concentration not detected greater than the RL / MDL
TON	Threshold Odor Number		

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.

ppb (ug/L)      Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.

<                  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.

### Data Qualifiers

J	Estimated value > MDL but < RL.
T	Temperature receipt exceedance, refer to Sample Comments/ Results Qualifiers section.
E	Microbiology: estimated CFU count
Q	Qualifier: defined in Sample Comment section

### Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the EQCI Southampton facility (1205 Industrial Boulevard, Southampton, PA 18966). Pharmaceutical testing is performed the EQCI facility in Horsham (702 Electronic Drive, Horsham, PA 19044).
- The 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.
- The reported results relate only to the sample as tested. EQCI is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQCI 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. EQCI's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQCI: Nicki Smith (Environmental Chemistry), Amanda Berd (Pharmaceutical), Sue Abbott (EQCI Delaware).

### EOC Accreditations

Southampton, PA	EPA ID: PA00018	Horsham, PA	NELAP IDs: PA: 46-05499
	NELAP IDs: PA 09-00131; NJ PA166; NY 11223		NJ: PA093
	State IDs: DE PA-018;		
	FDA Reg #: 3009048205		
New Castle, DE	State IDs: DE 00011; MD 138		
Wind Gap, PA	State IDs: PA 48-01334; NJ PA001		
East Rutherford, NJ	State ID: NJ 02015		
Vineland, NJ	State ID: NJ 06005		



QC

W00678

702 Electronic Drive Phone: 215-355-3900  
Horsham, PA 19044-0962 Fax: 215-355-7231

Client/Acct. No. Water Mgmt Svc  
Address PO Box  
570 Dunks Ferry Rd  
City/State/Zip Bensalem PA 19020  
Phone/Fax 215-919-1760  
Client Contact: GT Farley

CHAIN OF CUSTODY  
Page 1 of 1

Bill to/Report to (if different)  
Sampling Site Address (if different) Include State  
Sterling High School  
Libersich Rd Somerville NJ  
P.O. No. PWSID #:  
Quote #  
e-mail: Lato @ mideitbotanicenter.com

Lab LIMS No: L6843442

MATRIX CODES

LAB USE ONLY:

#     Ascorbic/HCl Vials #     HCl Vials  
#     Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
#     Na OH/Zn acetate pH  
#     HNO<sub>3</sub> pH  
#     H<sub>2</sub>SO<sub>4</sub> pH  
#     NaOH pH  
# 1 Unpreserved 1/2 AT PL  
#     HCl #     NH<sub>4</sub>Cl #     MeOH  
#     DI Water

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

PROJECT	Collection			Matrix Code	Number of Containers													
	Date	Military Time	GRAB		Total	H	H	H	H	H	H	H	H	H	H	H	H	H
FIELD ID																		
<u>Kitchen Rec w/Filter</u>	<u>6/7/17</u>	<u>0800</u>		<u>DW</u>	<u>1</u>													

ANALYSIS REQUESTED

Field pH, Temp (°C), DO, Cl<sub>2</sub>, Cond. etc.

SAMPLED BY: (Name/Company) TAT:  STANDARD (10 DAY) or DUE DATE     Report Format:  Standard  NJ-RDD  SRP-RDD  Standard + QC  Forms  EDD

DELIVERED BY CUSTOMER  
Field Parameters Analyzed By:     Initials:     Date/Time:    

PLEASE CALL FOR PRICING AND AVAILABILITY FOR RUSH (<10 DAY) TURNAROUND AND FOR ALL BUT STANDARD REPORTING FORMAT.

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	DELIVERY: <input type="checkbox"/> EQC COURIER <input type="checkbox"/> CLIENT	Custody Seal Number
<u>B J. Farley</u>	<u>6/7/17</u>	<u>11:36</u>	<u>[Signature]</u>	<u>6/7/17</u>	<u>11:36</u>	<input type="checkbox"/> UPS <input type="checkbox"/> FEDEX <input type="checkbox"/> OTHER	
<u>[Signature]</u>	<u>6/7/17</u>	<u>11:36</u>	<u>[Signature]</u>	<u>6/7/17</u>	<u>11:36</u>	Rec'd Temp: <u>24.2</u> Initials: <u>EFS</u> Ica Y <input type="checkbox"/> Location: <u>SPC</u>	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME	COMMENTS: <u>cust away from</u>	Hazardous: yes/no
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME		

## ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Eurofins QC Laboratories  
702 Electric Avenue  
Horsham PA 19044

Report Date: June 15, 2017

Project: L6843442

Submittal Date: 06/07/2017

Group Number: 1810394

PO Number: L6843442

State of Sample Origin: PA

Client Sample Description  
L6843442-1 Drinking WaterLancaster Labs  
(LL) #  
9034736

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Eurofins QC Laboratories

Attn: Nicki Smith

Respectfully Submitted,

Wendy A. Kozma  
Principal Specialist Group Leader

---

Project Name: L6843442  
LL Group #: 1810394

**General Comments:**

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:**

No additional comments are necessary.

Sample Description: L6843442-1 Drinking Water  
STERLING HIGH SCHOOL, KITCHEN ICE

LL Sample # NR 9034736  
LL Group # 1810394  
Account # 25997

Project Name: L6843442

Collected: 06/07/2017 08:00

Eurofins QC Laboratories  
702 Electric Avenue  
Horsham PA 19044

Submitted: 06/07/2017 18:07

Reported: 06/15/2017 14:37

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
06035	Lead	EPA 200.8 rev 5.4 7439-92-1	ug/l 0.276 J	ug/l 0.0542	ug/l 1.01	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/18.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	EPA 200.8 rev 5.4	1	171650605102A	06/15/2017 05:22	Scott P Cuff	1
06051	ICP-MS Undigested Prep	EPA 200.8 rev 5.4	1	171650605102	06/15/2017 00:50	Denise L Trimby	1

\*This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: Eurofins QC Laboratories  
Reported: 06/15/2017 14:37

Group Number: 1810394

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result ug/l	MDL** ug/l	LOQ ug/l
Batch number: 171650605102A	Sample number(s): 9034736		
Lead	N.D.	0.0542	1.01

### LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 171650605102A	Sample number(s): 9034736								
Lead	15	13.79			92		85-115		

### MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 171650605102A	Sample number(s): 9034736 UNSPK: 9034736									
Lead	0.276	15.3	14.57			93		70-130		

### Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc ug/l	DUP Conc ug/l	DUP RPD	DUP RPD Max
Batch number: 171650605102A	Sample number(s): 9034736 BKG: 9034736			
Lead	0.276	0.276	0 (1)	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.





QC

W00678

702 Electronic Drive Phone: 215-355-3800  
Horsham, PA 19044-0962 Fax: 215-355-7231

Client/Acct. No. Water Mgmt Svc  
Address PH Box  
570 Dunkerking Rd  
City/State/Zip Beashton PA 19020  
Phone/Fax 215-919-1760  
Client Contact ET Farley

CHAIN OF CUSTODY  
Page 1 of 1

1810394

B21 to/Report to (if different)

Sampling Site Address (if different) Include State  
Sterling High School  
Warrick Rd Somersville NJ

P.O. No. \_\_\_\_\_ PWSID #: \_\_\_\_\_  
Quote # \_\_\_\_\_

e-mail: ento @ mudwatercenter.com

Lab LIMS No: L6843442

MATRIX CODES

LAB/USE ONLY

# \_\_\_\_\_ Ascorbic/HCl Vials # \_\_\_\_\_ HCl Vials  
# \_\_\_\_\_ Na2S2O3  
# \_\_\_\_\_ NaOH/Zn acetate pH  
# \_\_\_\_\_ HNO3 pH  
# \_\_\_\_\_ H2SO4 pH  
# \_\_\_\_\_ NaOH pH  
# 1 Unpreserved Vials  
# \_\_\_\_\_ HCl # \_\_\_\_\_ NH4Cl # \_\_\_\_\_ MeOH  
# \_\_\_\_\_ DI Water

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

PROJECT

FIELD ID

FIELD ID	Date	Military Time	G R A B	C O M P	Matrix Code	Number of Containers														
						Total	H 2 S O 4	H C l	V i n i c i l s	N O 3	N O 2	H N O 3	H N O 2	Z n A c	U n p r e	B a c t				
<u>Kitchen Svc w/Filter</u>	<u>6/7/17</u>	<u>0800</u>			<u>DW</u>	<u>1</u>													<input checked="" type="checkbox"/>	

ANALYSIS REQUESTED

pb (Lead)

Field pH, Temp (°C), DO, Cl2, Cond, etc.

SAMPLED BY: (Name/Company)

TAT:  STANDARD (10 DAY) Report Format:  Standard  NJ-RDD  SRP-RDD  
or DUE DATE: \_\_\_\_\_  Standard + QC  Forms  EDD

DELIVERED BY CUSTOMER  
Initials: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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

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	DATE	TIME	RECEIVED BY	DATE	TIME
<u>B.J. Fahy</u>	<u>6/7/17</u>	<u>11:36</u>	<u>[Signature]</u>	<u>6/7/17</u>	<u>11:36</u>
<u>[Signature]</u>	<u>6/7/17</u>	<u>11:36</u>	<u>[Signature]</u>	<u>6/7/17</u>	<u>11:36</u>
<u>[Signature]</u>			<u>[Signature]</u>	<u>6/7/17</u>	<u>1607</u>

DELIVERY:  EOC COURIER  CLIENT Custody Seal Number \_\_\_\_\_  
Rec'd Temp.: 24.2 Initials: ES Ico Y  Location: ESC  
COMMENTS: Cust away from  
Hazardous: yes/no

Group Number(s):  
 1010394

Client: **EQCL**

**Delivery and Receipt Information**

Delivery Method: **EQCL Drop Off**      Arrival Timestamp: **06/07/2017\_18:07**  
 Number of Packages: **2**      Number of Projects: **2**

**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	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by **Simon Nies (25112)** at 19:58 on 06/07/2017

**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	DT146	5.4	DT	Wet	Y	Bagged	N
2	DT146	3.8	DT	Wet	Y	Bagged	N

# Explanation of Symbols and Abbreviations

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

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	none detected
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	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.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	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.		

## Laboratory Data Qualifiers:

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value  $\geq$  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.
- 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.

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.

**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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

## Additional Data Qualifiers

<b>Qualifier</b>	<b>Definition</b>
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q4	MS/MSD Out of Range
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD