# ANALYTICAL REPORT

Eurofins QC, LLC - Horsham, PA 702 Electronic Drive Horsham, PA 19044-0962 Tel: (215)355-3900

Laboratory Job ID: 630-7852-1

Client Project/Site: HARMONY TOWNSHIP BOARD OF

**EDUCATION** 

Sampling Event: 3RD YEAR PB/CU

For:

HARMONY TOWNSHIP BOARD OF EDUCATION 2551 BELVIDERE ROAD PHILLIPSBURG, New Jersey 08865

Attn: TIM MCKEEVER

Authorized for release by: 10/7/2020 3:46:15 PM

Erin Dougherty, Project Administrator erindougherty@eurofinsus.com

Designee for

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Coliform MCLs

• Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· 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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

#### 05499

- · 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 related only to the samples 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.
- · Eurofins' online data portal "TotalAccess" 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) and Zachary Smith (Water Microbiology).

Erin Dougherty

Project Administrator

10/7/2020 3:46:15 PM

#### **Case Narrative**

Client: HARMONY TOWNSHIP BOARD OF EDUCATION Project/Site: HARMONY TOWNSHIP BOARD OF EDUCATION

Job ID: 630-7852-1

Job ID: 630-7852-1

Laboratory: Eurofins QC, LLC - Horsham, PA

Narrative

Job Narrative 630-7852-1

#### Receipt

The samples were received on 9/30/2020 2:07 PM; the samples arrived in good condition, and, where required, properly preserved and on ice.

#### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## **Sample Summary**

Client: HARMONY TOWNSHIP BOARD OF EDUCATION Project/Site: HARMONY TOWNSHIP BOARD OF EDUCATION

Job ID: 630-7852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-7852-1	94 BOYS RESTROOM SINK	Drinking Water	09/18/20 06:28	09/30/20 14:07
630-7852-2	PRESCHOOL SINK	Drinking Water	09/18/20 06:30	09/30/20 14:07
630-7852-3	BOARD MEETING ROOM SINK	Drinking Water	09/18/20 06:26	09/30/20 14:07
630-7852-4	29 BOYS RESTROOM SINK	Drinking Water	09/18/20 06:36	09/30/20 14:07
630-7852-5	MAIN OFFICE RESTROOM SINK	Drinking Water	09/18/20 06:22	09/30/20 14:07

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Job ID: 630-7852-1

Client: HARMONY TOWNSHIP BOARD OF EDUCATION Project/Site: HARMONY TOWNSHIP BOARD OF EDUCATION

Client Sample ID: 94 BOYS RESTROOM SINK

Lab Sample ID: 630-7852-1 Date Collected: 09/18/20 06:28 **Matrix: Drinking Water** 

Date Received: 09/30/20 14:07

Method: 200.8 - Metals (ICP/MS) Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Analyst 0.25 0.010 BMB 0.010 mg/L 10/06/20 11:18 Copper 0.0010 1 BMB Lead 0.00094 J 0.00069 mg/L 10/06/20 11:18

Client Sample ID: PRESCHOOL SINK

Date Collected: 09/18/20 06:30 Date Received: 09/30/20 14:07

Lab Sample ID: 630-7852-2

**Matrix: Drinking Water** 

Method: 200.8 - Metals (ICP/MS)

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Analyst 0.010 10/07/20 09:53 1 BMB Copper 0.27 0.010 mg/L ND 0.0010 10/07/20 09:53 1 BMB 0.00069 mg/L Lead

**Client Sample ID: BOARD MEETING ROOM SINK** 

Date Collected: 09/18/20 06:26

Date Received: 09/30/20 14:07

Lab Sample ID: 630-7852-3

**Matrix: Drinking Water** 

Method: 200.8 - Metals (ICP/MS) Analyte

RL MDL Unit D Analyzed Dil Fac Analyst Result Qualifier 0.010 0.010 10/07/20 09:48 BMB Copper 0.18 10/07/20 09:48 1 BMB Lead ND 0.0010 0.00069 mg/L

Client Sample ID: 29 BOYS RESTROOM SINK

Date Collected: 09/18/20 06:36 Date Received: 09/30/20 14:07

Lab Sample ID: 630-7852-4

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

RL Analyte MDL Unit D Analyzed Result Qualifier Dil Fac Analyst BMB Copper 0.16 0.010 0.010 mg/L 10/07/20 11:20 1 Lead 0.0029 0.0010 0.00069 mg/L 10/07/20 11:20 1 BMB

Client Sample ID: MAIN OFFICE RESTROOM SINK

Date Collected: 09/18/20 06:22

Date Received: 09/30/20 14:07

Lab Sample ID: 630-7852-5 **Matrix: Drinking Water** 

Method: 200.8 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst	
Copper	0.20		0.010	0.010	mg/L		10/07/20 11:18	1	BMB	
Lead	0.00084	J	0.0010	0.00069	ma/L		10/07/20 11:18	1	BMB	

### Client Sample ID: 94 BOYS RESTROOM SINK

Lab Sample ID: 630-7852-1

#### **Compliance Check**

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Г					NJ 1 MCL			
Α	nalyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
C	Copper	0.25		mg/L	1	0.010	200.8	Total/NA
L	ead	0.00094	J	mg/L	0.02	0.0010	200.8	Total/NA

### Client Sample ID: PRESCHOOL SINK

Lab Sample ID: 630-7852-2

#### **Compliance Check**

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

				NJ 1 MCL			
Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Copper	0.27		mg/L	1	0.010	200.8	Total/NA
Lead	ND		mg/L	0.02	0.0010	200.8	Total/NA

#### Client Sample ID: BOARD MEETING ROOM SINK

Lab Sample ID: 630-7852-3

#### **Compliance Check**

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

				NJ 1 MCL			
Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Copper	0.18		mg/L	1	0.010	200.8	Total/NA
Lead	ND		mg/L	0.02	0.0010	200.8	Total/NA

#### Client Sample ID: 29 BOYS RESTROOM SINK

Lab Sample ID: 630-7852-4

#### **Compliance Check**

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

				NJ 1 MCL			
Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Copper	0.16		mg/L	1	0.010	200.8	Total/NA
Lead	0.0029		mg/L	0.02	0.0010	200.8	Total/NA

#### Client Sample ID: MAIN OFFICE RESTROOM SINK

Lab Sample ID: 630-7852-5

#### **Compliance Check**

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

				NJ 1 MCL			
Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
Copper	0.20		mg/L		0.010	200.8	Total/NA
Lead	0.00084	J	mg/L	0.02	0.0010	200.8	Total/NA

## **Accreditation/Certification and Definitions Summary**

Client: HARMONY TOWNSHIP BOARD OF EDUCATION

Job ID: 630-7852-1 Project/Site: HARMONY TOWNSHIP BOARD OF EDUCATION

### Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-21

#### **Qualifiers**

#### **Metals**

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Listed under the "D" column to designate that the result is reported on a dry weight basis  %R Percent Recovery  Result is from the primary column on a dual-column method.  CC Result is from the primary column on a dual-column method.  CFL Contains Free Liquid  CFU Colony Forming Unit  CNF Contains No Free Liquid  DER Duplicate Error Ratio (normalized absolute difference)  Dil Face Dilution Factor  DL Detection Limit (Do/DDCE)  DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample  DLC Decision Level Concentration (Radiochemistry)  EDL Estimated Detection Limit (Dioxim)  LOQ Limit of Detection (Do/DDCE)  LOQ Limit of Detection (Do/DDCE)  MCL EPA recommended "Maximum Contaminant Level"  MDA Minimum Detectable Activity (Radiochemistry)  MDC Minimum Detectable Activity (Radiochemistry)  MDC Minimum Detectable Activity (Radiochemistry)  MDL Method Detection Limit  ML Minimum Level (Doxim)  MPN Most Probable Number  MQL Method Quantitation Limit  NC Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  POS Positive / Present  POS Positive / Present  POS Positive / Present  POS Relative Percor Buller (Enc. a. measure of the relative difference between two points  TEF Toxicity Equivalent Factor (Dioxin)  TEP Toxicity Equivalent Factor (Dioxin)  TEP Toxicity Equivalent Factor (Dioxin)  THTC	Abbreviation	These commonly used abbreviations may or may not be present in this report.
TC         Result is from the primary column on a dual-column method.           CC         Result is from the confirmation column on a dual-column method.           CFL         Contains Pree Liquid           CFW         Colarians No Free Liquid           DER         Dilution Feator           DI Fac         Dilution Feator           DL         Decision Level Concentration (Radiochemistry)           DL         Decision Level Concentration (Radiochemistry)           EDL         Estimated Detection Limit (DioXin)           LOD         Limit of Detection (DoD/DOE)           MCL         Expreormended "Maximum Contaminant Level"           MDA         Minimum Detectable Activity (Radiochemistry)           MDA         Minimum Detectable Activity (Radiochemistry)           MDA         Minimum Detectable Activity (Radiochemistry)           MDA         Minimum Level (Dioxin)           MPN         Most Probable Number           MQL         Method Detection Limit           NC         Not Detected at the reporting limit (or MDL or EDL if shown)           NC         Not Detected at the reporting limit (or MDL or EDL if shown	¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
2C         Result is from the confirmation column on a dual-column method.           CFL         Contains Free Liquid           CNF         Colorian No Free Liquid           DER         Outstains No Free Liquid           DER         Dilution Factor           DII Fac         Dilution Factor           DII Fac         Dilution Factor           DL         Detection Limit (DOD/DOE)           DL, RA, RE, IN         Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample           DLC         Desision Level Concentration (Radiochemistry)           EDL         Estimated Detection Limit (Dox)n           LOD         Limit of Detection (DoD/DOE)           LOD         Limit of Detection (DoD/DOE)           LOD         Limit of Detection (DoD/DOE)           MCL         EPA recommended "Maximum Contaminant Level"           MDA         Minimum Detectable Activity (Radiochemistry)           MDC         Minimum Detectable Concentration (Radiochemistry)           MDL         Method Detection Limit           ML         Minimum Level (Dioxin)           MPN         Most Probable Number           MQL         Not Calculated           ND         Not Calculated           ND         Not Calculated </td <td>%R</td> <td>Percent Recovery</td>	%R	Percent Recovery
CFL         Contains Free Liquid           CFL         Contains No Free Liquid           DER         Duplicate Error Ratio (normalized absolute difference)           DI Fac         Dilution Factor           DL         Detection Limit (DOD/DOE)           DL, RA, RI, IN         Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample           DLC         Decision Level Concentration (Radiochemistry)           EDL         Estimated Detection Limit (Dioxin)           LOD         Limit of Detection (DoD/DOE)           LOD         Limit of Quantitation (DoD/DOE)           MCL         EPA recommended "Maximum Contaminant Level"           MDA         Minimum Detectable Activity (Radiochemistry)           MDC         Minimum Detectable Concentration (Radiochemistry)           MDL         Method Detection Limit           MDL         Minimum Detectable Concentration (Radiochemistry)           MPN         Most Probable Number           MQL         Method Quantitation Limit           NC         Not Calculated           ND         Not Detected at the reporting limit (or MDL or EDL if shown)           NG         Negative / Absent           PCS         Positive / Present           PCR         Positive / Present <td>1C</td> <td>Result is from the primary column on a dual-column method.</td>	1C	Result is from the primary column on a dual-column method.
CPU Colony Forming Unit  CNF Contains No Free Liquid  DER Dupicate Error Ratio (normalized absolute difference)  DII Fac Dilution Factor  DL Detection Limit (DoD/DOE)  DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample  DLC Decision Level Concentration (Radiochemistry)  EDL Estimated Detection Limit (Dioxin)  EDL Estimated Detection Limit (Dioxin)  EDL Estimated Detection Limit (Dioxin)  EDD Limit of Quantitation (DoD/DOE)  LOO Limit of Quantitation (DoD/DOE)  MCL EPA recommended "Maximum Contaminant Level"  MDA Minimum Detectable Activity (Radiochemistry)  MDC Minimum Detectable Activity (Radiochemistry)  MDL Method Detection Limit  ML Method Detection Limit  ML Minimum Level (Dioxin)  MPN Most Probable Number  MQL Method Detection Limit  NC Not Calculated  ND Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  PQL Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RL Relative Percent Difference, a measure of the relative difference between two points  TEF Noticity Equivalent Factor (Dioxin)  Total Total Squivalent Factor (Dioxin)  TEF Noticity Equivalent Factor (Dioxin)	2C	Result is from the confirmation column on a dual-column method.
CNF         Contains No Free Liquid           DER         Duplicate Error Ratio (normalized absolute difference)           DI Fac         Dilution Factor           DL         Detection Limit (DoD/DOE)           DL, RA, RE, IN         Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample           DLC         Decision Level Concentration (Radiochemistry)           EDL         Estimated Detection Limit (DoXin)           LOQ         Limit of Detection (DoD/DOE)           MCL         EPA recommended "Maximum Contaminant Level"           MDA         Minimum Detectable Activity (Radiochemistry)           MDA         Minimum Detectable Concentration (Radiochemistry)           MDA         Minimum Level (Dioxin)           MPN         Most Probable Number           MQL         Method Quantitation Limit           NC         McCalculated           ND         Not Calculated           ND         Not Calculated           ND         Not Calculated           NPG         Negative / Absent           POS         Positive / Present           PQL         Presumptive           QC         Quality Control           RER         Relative Error Ratio (Radiochemistry)	CFL	Contains Free Liquid
DER         Dullicate Error Ratio (normalized absolute difference)           DI Fac         Dilution Factor           DL         Decetion Limit (DoD/DOE)           DL, RA, RE, IN         Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample           DLC         Decision Level Concentration (Radiochemistry)           EDL         Estimated Detection Limit (Dioxin)           LOD         Limit of Detection (DoD/DOE)           MCL         EPA recommended "Maximum Contaminant Level"           MDA         Minimum Detectable Activity (Radiochemistry)           MDA         Minimum Detectable Concentration (Radiochemistry)           MDL         Method Detection Limit           ML         Minimum Level (Dioxin)           MDL         Method Quantitation Limit           NC         Not Calculated           MDL         Method Quantitation Limit           NC         Not Calculated           ND         Pre	CFU	Colony Forming Unit
Dil Fac         Dilution Factor           DL         Detection Limit (DoD/DOE)           DL, RA, RE, INI         Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample           DLC         Decision Level Concentration (Radiochemistry)           EDL         Estimated Detection Limit (Dioxin)           LOD         Limit of Quantitation (DoD/DOE)           LOQ         Limit of Quantitation (DoD/DOE)           MCL         EPA recommended "Maximum Contaminant Level"           MDA         Minimum Detectable Activity (Radiochemistry)           MDC         Minimum Detectable Concentration (Radiochemistry)           MDC         Minimum Level (Dioxin)           MDL         Method Detection Limit           ML         Minimum Level (Dioxin)           MPN         Most Probable Number           MQL         Method Quantitation Limit           NC         Not Calculated           ND         Not Detected at the reporting limit (or MDL or EDL if shown)           NEG         Negative / Absent           POS         Positive / Present           POS         Positive / Present           QC         Quality Control           RER         Relative Error Ratio (Radiochemistry)           RL         Re	CNF	Contains No Free Liquid
DL decitor Limit (DoD/DOE)  DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample  DL Decision Level Concentration (Radiochemistry)  EDL Estimated Detection Limit (Dioxin)  LOO Limit of Detection (DoD/DOE)  LOO Limit of Quantitation (DoD/DOE)  LOO Limit of Quantitation (DoD/DOE)  MCL EPA recommended "Maximum Contaminant Level"  MDA Minimum Detectable Activity (Radiochemistry)  MDC Minimum Detectable Activity (Radiochemistry)  MDL Method Detection Limit  ML Method Detection Limit  ML Method Detection Limit  ML Method Detection Limit  MC Most Probable Number  MQL Method Quantitation Limit  NC Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Not acqualited  ND Not Percent and the reporting limit (or MDL or EDL if shown)  NEG Postitive / Present  PQL Postitive / Present  PQL Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  REPO Relative Percent Difference, a measure of the relative difference between two points  TEP Toxicity Equivalent Factor (Dioxin)  TEP Toxicity Equivalent Factor (Dioxin)	DER	Duplicate Error Ratio (normalized absolute difference)
DL, RA, RE, IN DLC Decision Level Concentration (Radiochemistry) EDL Stimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated ND Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POSL POSL POSL POSL POSL POSL POSL POSL	Dil Fac	Dilution Factor
DLC Besion Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Activity (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Mot Calculated ND Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS POSitive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Quotient (Dioxin)	DL	Detection Limit (DoD/DOE)
EDL Estimated Detection Limit (Dioxin)  LOD Limit of Detection (DoD/DOE)  LOQ Limit of Quantitation (DoD/DOE)  MCL EPA recommended "Maximum Contaminant Level"  MDA Minimum Detectable Activity (Radiochemistry)  MDC Minimum Detectable Concentration (Radiochemistry)  MDL Method Detection Limit  ML Minimum Level (Dioxin)  MPN Most Probable Number  MQL Method Quantitation Limit  NC Mot Calculated  ND Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  PQL Practical Quantitation Limit  PRES Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEP Toxicity Equivalent Factor (Dioxin)  TEP Toxicity Equivalent Factor (Dioxin)	DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated ND Not Ozlaculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Precent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin)	DLC	Decision Level Concentration (Radiochemistry)
Limit of Quantitation (DoD/DOE)  MCL EPA recommended "Maximum Contaminant Level"  MDA Minimum Detectable Activity (Radiochemistry)  MDC Minimum Detectable Concentration (Radiochemistry)  MDL Method Detection Limit  ML Minimum Level (Dioxin)  MPN Most Probable Number  MQL Mothod Quantitation Limit  NC Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  PQL Practical Quantitation Limit  PRES Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RDA Relative Percent Difference, a measure of the relative difference between two points  TEG Toxicity Equivalent Quotient (Dioxin)	EDL	Estimated Detection Limit (Dioxin)
MCL BPA recommended "Maximum Contaminant Level"  MDA Minimum Detectable Activity (Radiochemistry)  MDC Minimum Detectable Concentration (Radiochemistry)  MDL Method Detection Limit  ML Minimum Level (Dioxin)  MPN Most Probable Number  MQL Method Quantitation Limit  NC Mot Calculated  ND Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  PQL Practical Quantitation Limit  PRES Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEG Toxicity Equivalent Factor (Dioxin)  TEQ Toxicity Equivalent Quotient (Dioxin)	LOD	Limit of Detection (DoD/DOE)
MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) REF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	LOQ	Limit of Quantitation (DoD/DOE)
MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEG Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	MCL	EPA recommended "Maximum Contaminant Level"
MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	MDA	Minimum Detectable Activity (Radiochemistry)
MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	MDC	Minimum Detectable Concentration (Radiochemistry)
MPN Most Probable Number  MQL Method Quantitation Limit  NC Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  PQL Practical Quantitation Limit  PRES Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEF Toxicity Equivalent Factor (Dioxin)  Toxicity Equivalent Quotient (Dioxin)	MDL	Method Detection Limit
MQL Method Quantitation Limit  NC Not Calculated  ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  PQL Practical Quantitation Limit  PRES Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEF Toxicity Equivalent Quotient (Dioxin)  Toxicity Equivalent Quotient (Dioxin)	ML	Minimum Level (Dioxin)
NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	MPN	Most Probable Number
ND Not Detected at the reporting limit (or MDL or EDL if shown)  NEG Negative / Absent  POS Positive / Present  PQL Practical Quantitation Limit  PRES Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEF Toxicity Equivalent Factor (Dioxin)  Toxicity Equivalent Quotient (Dioxin)	MQL	Method Quantitation Limit
NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	NC	Not Calculated
POS Positive / Present PQL Practical Quantitation Limit PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL Practical Quantitation Limit  PRES Presumptive  QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEF Toxicity Equivalent Factor (Dioxin)  TEQ Toxicity Equivalent Quotient (Dioxin)	NEG	Negative / Absent
PRES Presumptive QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry) RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	POS	Positive / Present
QC Quality Control  RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEF Toxicity Equivalent Factor (Dioxin)  TEQ Toxicity Equivalent Quotient (Dioxin)	PQL	Practical Quantitation Limit
RER Relative Error Ratio (Radiochemistry)  RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEF Toxicity Equivalent Factor (Dioxin)  TEQ Toxicity Equivalent Quotient (Dioxin)	PRES	Presumptive
RL Reporting Limit or Requested Limit (Radiochemistry)  RPD Relative Percent Difference, a measure of the relative difference between two points  TEF Toxicity Equivalent Factor (Dioxin)  TEQ Toxicity Equivalent Quotient (Dioxin)	QC	Quality Control
RPD Relative Percent Difference, a measure of the relative difference between two points TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	RER	Relative Error Ratio (Radiochemistry)
TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)	RL	Reporting Limit or Requested Limit (Radiochemistry)
TEQ Toxicity Equivalent Quotient (Dioxin)	RPD	Relative Percent Difference, a measure of the relative difference between two points
	TEF	Toxicity Equivalent Factor (Dioxin)
TNTC Too Numerous To Count	TEQ	Toxicity Equivalent Quotient (Dioxin)
	TNTC	Too Numerous To Count

Eurofins QC, LLC – Horsham, PA 10/7/2020

## **Method Summary**

Client: HARMONY TOWNSHIP BOARD OF EDUCATION Project/Site: HARMONY TOWNSHIP BOARD OF EDUCATION

Job ID: 630-7852-1

Laboratory	

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

#### Protocol References:

EPA = US Environmental Protection Agency

#### Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Electronic Drive sham, PA 19044  Phone: 215-355-3900 Fax: 215-355-7231			630-7852 Chain of Custody  # Ascorbic / HUI Vials # HCI Vials	TREAT TO THE PROPERTY OF THE P		
Address/ State / Zip/	Sampling Site Address (if different)	#	# Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> # NaOH / Zn Acetate - pH # HNO <sub>3</sub> - pH # H2SO4 - pH	WW: WASTEWATER SO: SOIL SL: SLUDGE OIL: OIL		
Phone / Fax	P.O. NO		#Unpreserved	SOL: NON SOIL SOLID		
nail Address	QC Contact	#	#HCI - pH	MI: MISCELLANEOUS		
PROJECT	IG C N	umber of Containers #	# Temp control ID #	X: OTHER		
SIELD ID	Date Military Time A M Code Total S	V N Z U B 12 H 1 H a n N a C A N O A R c 4 I S O <sub>3</sub> H C E T	ANALYSIS REQUESTED	Field pH, Temp (°C or °F), DO, Cl₂ S. Cond., etc.		
Pb/Cu # and Location Name	mm/dd/yy) (hh:mm)	3				
	10-01:02					
	18/20 06:28	+++++++				
	[18/20 06:30					
BOARD MEETING ROOM SINK 9	18/20 06:26					
29 Boys Restroom SINK 9	18/2066:36					
MAIN OFFICE RESTIZOOM SINK 9	18/2006:22					
PLED BY: (Name/Company) Verbal/	/fax due (mm/dd/yy):	Report Format: Standa	ard Forms Field Parameter(s)	Analyzed By:		
Hardco	, and (	Standard + QC		Date/Time (dd/mm/yy hh:mm)		
PLEASE SAMPLE CUSTODY EXCHANGES MUST BE DO	E CALL FOR PRICING AND AVAILABILITY ON RUSH (< 14-21 O	day) TURNAROUND AND ON AL ATURE, DATE AND MIL	LI BUT STANDARD FORMAT LITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 F	PM IS 1600)		
ISHED BY SAMPLER DATE (dd/mm/yy) TIME (hh:mm	n) RECEIVED BY	9/30/20 1407	DELIVERY METHOD: QC COURIER CLIENT	Custody Seal Number		
MINICKERS DATE TIME	300000000000000000000000000000000000000	DATE TIME	UPS FED EX OTHER			
ISHED BY DATE TIME	RECEIVED BY	DATE TIME	COMMENTS:			
ISHED BY DATE TIME	TEDETICE ST	DATE TIME age 9 of 10		10/7		

## Eurofins QC, LLC - Horsham, PA

702 Electronic Drive

Horsham, PA 19044-0962

# **Chain of Custody Record**



🔆 eurofins

Environment Testing

Client Information (Sub Contract Lab)	Sampler	Phone: E-N					PM: Cabe, Nicole M					Carrier Tracking No(s):				COC No: 630-2498.1		
Client Contact: Shipping/Receiving	Phone:						ait						Origin:			Page: Page 1 of 1		
mpany: rofins Lancaster Laboratories Env LLC					Accreditations Required (See note): NELAP - New Jersey									Job#:				
Address:	Due Date Requeste	d:			INE	LAF	- 1464	A DELPE	у						_	630-7852-1 Preservation Co	des:	
2425 New Holland Pike, ,	10/9/2020						Analysis Requested									A - HCL	M - Hexane	
City: Lancaster	TAT Requested (da	lys):				15									18	B - NaOH C - Zn Acetate	N - None O - AsNaO2	
iate, Zip: PA, 17601																D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
hone: 17-656-2300(Tel)	PO#:				1		only									F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4	
mail:	W0#	WO#:					No)							H - Ascorbic Acid				
roject Name: IARMONY TOWNSHIP BOARD OF EDUCATION	Project #: 63002445							es or N				containen	K - EDTA W - pH 4-5 L - EDA Z - other (specify)					
ite: HARMONY TOWNSHIP BOARD OF EDUCATION	SSOW#.	SSOW#					DN I									4		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewster, Sesolid, Oewaste/oll, BT=Tissue, AnAlr		Perform MS/MSD (Yes	200.8_SDWA/MTL_ND_Prep								Total Number	Special II	structions/Note:	
	_><	> <	Preserva	tion Code:	X	X												
4 BOYS RESTROOM SINK (630-7852-1)	9/18/20	06:28 Eastern		rinking Wa	te		Х								1			
RESCHOOL SINK (630-7852-2)	9/18/20	06:30 Eastern		rinking Wa	te		х								1			
SOARD MEETING ROOM SINK (630-7852-3)	9/18/20	06:26 Eastern		rinking Wa	le		х								1			
9 BOYS RESTROOM SINK (630-7852-4)	9/18/20	06:36 Eastern		rinking Wa	te		х								1			
MAIN OFFICE RESTROOM SINK (630-7852-5)	9/18/20	06:22 Eastern		rinking Wat	le	-	Х								1			
					Ħ													
					H	+	+	+					$\vdash$		9			
tote: Since laboratory accreditations are subject to change, Eurofins Q ot currently maintain accreditation in the State of Origin listed above for rought to Eurofins QC, LLC – Horsham, PA attention immediately. If a	r analysis/tests/matrix being ar	halyzed, the s	amples must l	se shipped bad	k to tr	he Eur	rofins (	C. LLC	- Hors	ham, PA	laboral	ory or oth	er instruc	ctions will t	is forward be provide	ded under chain-of-cu ed. Any changes to a	stody. If the laboratory occreditation status shou	
ossible Hazard Identification					T	Sam	ple D	isposa	I (A	fee ma	y be a	ssesse	d if sar	nples ar	re retali	ned longer than	1 month)	
Inconfirmed							Ret	ırn To	Client			isposal	By Lab	[	Arch	hive For	Months	
eliverable Requested: I, II, III, IV, Other (specify)	Primary Delivera	ble Rank:	1			Spec	ial In	structio	ns/Q	C Requ	ireme	nts:						
mpty Kit Relinquished by:		Date:			Tim	ne:						Me	hod of S	hipment				
Slephannhilm	Date/Time: 9/30/23	163	30	Company	_	F	Receive		06					aterrime.	120	1630	Company	
elinquistyed by:	Date/Time*			Company		F	Receive	d by:			-		-	Date/Time			Company	
Relinquished by:	Date/Time:			Company		R	Receive	d by	1-	M	0			978	DEC	2370	Company	
Custody Seals Intact: Custody Seal No.: 4/65	QC.					C	cooler	Tempera	iture(s)	°C and C	Other R	emarks:		12.2	, -			