



N O R T H E R N
Analytical Services, LLC.
ENVIRONMENTAL CONSULTANTS

**LEAD & COPPER
IN WATER
TESTING REPORT**

FOR THE PROPERTY LOCATED AT:

**Dove Academy
20001 Wexford Street
Detroit, MI 48234**

Prepared For:

Dove Academy
20001 Wexford Street ~ Detroit, MI 48234
(313) 648-1401

Report Prepared and Submitted by:

Northern Analytical Services, LLC
14870 225th Avenue
Big Rapids, Michigan 49307
(231) 268-0004

Date Water Assessment:

April 20, 2016

Project No.: 160150

Dove Academy
Water Assessment
Project No.: 160150
April 20, 2016

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GENERAL PROVISIONS

1.1 Introduction

Edward G. Wenz, Jr. of Northern Analytical Services conducted a Lead & Copper in Water Testing Assessment at 20001 Wexford, Detroit, MI 48234 on 4/20/2016. Edward Wenz is a certified Lead Inspector and Risk Assessor through the Michigan Department of Community Health, Certification No. P-01130.

1.2 Purpose

The purpose of the investigation was to determine the existence, locations and severity of existing or potential health hazards at the property associated with exposures to lead & copper in the water.

The following report details the results of the investigation. A summary of this report must be provided to each new lessee (tenant) or purchaser of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to purchasers and made available to tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency (EPA), entitled "Protect Your Family from Lead in Your Home", and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead in the water hazards. For more information regarding your obligations under federal lead-based paint regulations, contact 800-424-LEAD (5323).

1.3 Site Description / Occupancy Information

The subject property is currently an elementary school; the subject property is located at 20001 Wexford, Detroit, MI 48234. The property is currently an active school. The building is multi story with 3 sections. The residence was constructed circa 1963. The building has active water in use daily.

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1.4 Report Summary

The following is a summary of positively identified testing for lead in the water hazards.
 20001 Wexford Detroit, MI 48234:

Sample ID	Date Sampled	Location	Water Results	Cause of Concern Level	EPA Action Level
DE 01	4/20/2016	Main Floor Door Drinking Fountain - Initial	1 ppb	5 ppb	15 ppb
DE 02	4/20/2016	Main Floor Door Drinking Fountain - Flush	Not Detected	5 ppb	15 ppb
DE 03	4/20/2016	Teachers Lounge - Initial	Not Detected	5 ppb	15 ppb
DE 04	4/20/2016	Teachers Lounge - Flush	Not Detected	5 ppb	15 ppb
DE 05	4/20/2016	2 nd Floor Main Bldg Drinking Fountain - Initial	10 ppb	5 ppb	15 ppb
DE 06	4/20/2016	2 nd Floor Main Bldg Drinking Fountain - Flush	2 ppb	5 ppb	15 ppb
DE 07	4/20/2016	1 st Floor Lower Level Drinking Fountain - Initial	2 ppb	5 ppb	15 ppb
DE 08	4/20/2016	1 st Floor Lower Level Drinking Fountain - Flush	3 ppb	5 ppb	15 ppb
DE 09	4/20/2016	Kitchen Sink - Initial	Not Detected	5 ppb	15 ppb
DE 10	4/20/2016	Kitchen Sink - Flush	Not Detected	5 ppb	15 ppb
DE 11	4/20/2016	2 nd Floor South Bldg Drinking Fountain - Initial	Not Detected	5 ppb	15 ppb
DE 12	4/20/2016	2 nd Floor South Bldg Drinking Fountain - Flush	Not Detected	5 ppb	15 ppb
DE 13	4/20/2016	Gym Drinking Fountain - Initial	1 ppb	5 ppb	15 ppb
DE 14	4/20/2016	Gym Drinking Fountain - Flush	Not Detected	5 ppb	15 ppb

1.5 Report Summary

The following is a summary of positively identified testing for copper in the water.
 20001 Wexford, Detroit, MI 48234:

Sample ID	Date Sampled	Location	Copper in Water Results	EPA Action Level
DE 01	4/20/2016	Main Floor Door Drinking Fountain - Initial	49 ppb	1,300 ppb
DE 02	4/20/2016	Main Floor Door Drinking Fountain - Flush	57 ppb	1,300 ppb
DE 03	4/20/2016	Teachers Lounge - Initial	150 ppb	1,300 ppb
DE 04	4/20/2016	Teachers Lounge - Flush	51 ppb	1,300 ppb
DE 05	4/20/2016	2 nd Floor Main Bldg Drinking Fountain - Initial	Not Detected	1,300 ppb
DE 06	4/20/2016	2 nd Floor Main Bldg Drinking Fountain - Flush	45 ppb	1,300 ppb
DE 07	4/20/2016	1 st Floor Lower Level Drinking Fountain - Initial	280 ppb	1,300 ppb
DE 08	4/20/2016	1 st Floor Lower Level Drinking Fountain - Flush	170 ppb	1,300 ppb
DE 09	4/20/2016	Kitchen Sink - Initial	76 ppb	1,300 ppb
DE 10	4/20/2016	Kitchen Sink - Flush	29 ppb	1,300 ppb
DE 11	4/20/2016	2 nd Floor South Bldg Drinking Fountain - Initial	57 ppb	1,300 ppb
DE 12	4/20/2016	2 nd Floor South Bldg Drinking Fountain - Flush	36 ppb	1,300 ppb
DE 13	4/20/2016	Gym Drinking Fountain - Initial	130 ppb	1,300 ppb
DE 14	4/20/2016	Gym Drinking Fountain - Flush	35 ppb	1,300 ppb

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2.0 SAMPLING PROCEDURES

2.1 Laboratory

Samples for lead in the water were analyzed by Water Tech Drinking Water & Environmental Laboratories located at 718 S. Michigan, Howell, MI 48843 (517-548-2505). Water Tech participates in the environmental quality control controls and is approved as a water testing lab by the State of Michigan DEQ, State Laboratory License Number 0023.

2.2 Reading Analysis

During this investigation, samplings of the water from various faucets testing for lead content in the water. Sampling was performed by or under the direction of Edward G. Wenz, Jr., a certified licensed Lead Inspector / Lead Risk Assessor. All water sampling was done following the HUD 2012 Guidelines for water sampling for lead in the water and met or exceeds EPA and State standards for lead in the water testing.

Representative water sampling of faucets within the building were analyzed for lead content in accordance with the HUD publication, "Guidelines for the Evaluation and Control of Lead-Based Paint in Housing" (HUD Guidelines). The water sampling strategy used for this investigation is found in Chapter 5 of the HUD Guidelines.

2.3 Water Testing Levels

Water samples, if collected, are analyzed for lead and copper content, as deemed appropriate by the investigator, usually where any water source within the property.
Water samples are processed in the following manner:

Lead In Drinking Water

Safe Level of Lead Content: ≤ 5 ppb

Level of Concern: > 5 ppb

EPA Action level: > 15 ppb

Copper in Drinking Water

Safe Level of Copper Content: $\leq 1,300$ ppb

Not to exceed 10% of all samples drawn

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3.0 CONCLUSIONS and RECOMMENDATIONS

3.1 Previous Lead and Copper Identification Activities

There is no lead inspection or lead risk assessment work previously done as made aware to this inspection firm. There was no previous copper in drinking water sampling done as made aware to this inspection firm.

3.2 CONCLUSIONS

Results of this Lead in the Drinking Water Testing Assessment indicate that lead in the water hazards were not identified during the course of this lead in the water testing assessment.

Results of this Copper in the Drinking Water Testing Assessment indicate that copper in the water hazards were not identified during the course of this copper in the water testing assessment.

3.3 RECOMMENDATIONS

No further action is required at this time.

The water samplings show safe levels at the time of our testing for initial water draw & flush draw

4.0 BACKGROUND INFORMATION

4.1 Health Effects of Lead Exposure

Lead is a soft metal, naturally occurring in the Earth's crust. It has been widely used in consumer products since 6500 B.C. It has been determined; however, that lead has no useful purpose in the human body, and acts as a toxin. It takes the place of essential minerals such as calcium, potassium, and iron, which are vital to the construction and repair of bones, organs and blood. Lead exposures have become a major health concern.

Children, due to their smaller body mass and higher metabolism, are affected by lead exposures much more severely than adults. They ingest lead through daily hand-to-mouth activities and may develop severe attention deficit disorders, irreversible brain injury, learning disabilities and aggressive behaviors. The symptoms of lead poisoning often mimic other afflictions such as flu, colic or general malaise. It is important to have young children's blood tested for lead burden.

4.2 Sources of Lead

Since lead is ingested by routine daily activities such as eating, playing and working, it is important to understand the sources of lead exposures. The most common places to find lead in household settings are interior and exterior paint, and contaminated dust or soil. Lead-based paint is most hazardous when it is chipping, peeling, cracking, or chalking; or applied to friction surfaces of components such as doors, windows, and floors. The abrasive action of painted surfaces rubbing together causes lead-containing paints to be ground into a fine dust. Lead dust can also be created from decaying vinyl mini blinds. Lead dust then settles on furniture, play area floors, and children's toys, where children are exposed during regular activities.

Several other sources of lead in the home include lead dust brought into the home from occupational exposures, water pipes, fixtures, and joints; decorative china, "leaded" crystal, fishing lures and sinkers, firearms ammunition, wine bottles and cosmetics. Some hobbies may also contribute to lead contamination within the home. Exposures to all sources of lead should be minimized or eliminated.

4.3 Simple Methods to Reduce Lead Exposures

The simplest way to reduce lead exposures is through regular washing of hands, toys, and horizontal surfaces in the home with a liquid hand soap or dish soap and water. It is highly recommended that disposable cleaning materials be used to wash surfaces, so as not to re-contaminate them with a used mop or cloth. A guideline to reducing lead hazards in the home is included in Appendix B of this report.

Other ways of reducing lead hazards within the home include taking shoes off before entering living areas, letting water run prior to drinking or cooking, covering exposed soil with plant materials, and vacuuming with a High Efficiency Particulate Air (HEPA) filtered vacuum. Removal of all lead main supply lines and any other lead contaminated plumbing.

For more information regarding lead poisoning and prevention, contact your local health department or the National Lead Information Center (800-424-LEAD). Contact the Michigan Department of Community Health, Lead Hazard Remediation Program at (866) 691-5323 for information regarding lead hazard remediation or selection of qualified lead professionals.

5.0 COPPER IN DRINKING WATER HEALTH EFFECTS and HOW TO REDUCE EXPOSURE

In 1991, the U. S. Environmental Protection Agency (EPA) established rules for controlling lead and copper levels in public water supplies. Since that time, water systems across the country have been sampling water in the homes of their customers to determine if there is a problem. Enclosed is information on copper in drinking water: why it is cause for concern, how it enters water, and how you and your family can reduce your exposure to it. Copper is a reddish metal that occurs naturally in rock, soil, water, sediment, and air. It has many practical uses in our society and is commonly found in coins, electrical wiring, and pipes. It is an essential element for living organisms, including humans, and-in small amounts-necessary in our diet to ensure good health. However, too much copper can cause adverse health effects, including vomiting, diarrhea, stomach cramps, and nausea. It has also been associated with liver damage and kidney disease. The human body has a natural mechanism for maintaining the proper level of copper in it. However, children under one-year-old have not yet developed this mechanism and, as a result, are more vulnerable to the toxic effects of copper. People with Wilson's disease also have a problem with maintaining the proper balance and should also exercise particular care in limiting exposure to copper. Water is one of the ways that copper may enter our bodies. The EPA has established an "action level" for copper in drinking water. This action level is exceeded if the level of copper in more than 10 percent of the tap water samples collected by a water system is greater than 1,300 micrograms per liter (or 1,300 parts per billion). You may wish to check with your water supplier for the results of the copper testing it did. Steps should be taken to reduce exposure if this level of 1,300 parts per billion is exceeded.

This level has been set to protect against acute toxic effects in humans. However, it is not protective against copper toxicity in sensitive members of the population, such as those with Wilson's disease, who will have to further limit their intake of copper from all sources.

How can I reduce my exposure to copper?

Copper works its way into the water by dissolving from copper pipes in the household plumbing. The longer the water has stood idle in the pipes, the more copper it is likely to have absorbed. (Newer homes with copper pipes may be more likely to have a problem. Over time, a coating forms on the inside of the pipes and can insulate the water from the copper in the pipes. In newer homes, this coating has not yet had a chance to develop.) Thus, anytime the water has not been used for more than six hours-overnight, for example, or during the day when people have been gone to work or school-it should be cleared from the pipes before being used for drinking or cooking.

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This can be achieved by letting the cold water faucet run until you can feel the water getting colder- usually 30 to 60 seconds. This must be done before taking drinking water from any faucet in the house. In addition, hot water dissolves copper more quickly than cold water; as a result, water to be used for drinking or cooking should not be drawn from the hot water tap. If you need hot water for cooking or drinking, take water from the cold tap and heat it. It is especially important not to use the hot water for making baby formula.

What is my local water supplier doing about copper?

Water supply systems that have exceeded the federal “action level” of 1,300 parts per billion of copper are taking a number of steps to deal with the problem. These include testing the source water for contamination and treating the water to make it less corrosive or less likely to absorb copper from the plumbing.

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6.0 ADDITIONAL RESOURCES

For further information regarding lead-based paint hazards and poisoning prevention, consult the following resources:

Contacts

National Lead Information Center:800-424-LEAD (5323)
www.epa.gov/lead
U.S. Department of Housing and Urban Development:888-532-3547 (LEADLIST)
www.hud.gov/offices/lead/healthyhomes/lead
Michigan Lead Hazard Remediation Program:866-691-LEAD (5323)
www.michigan.gov/leadsafe

PUBLICATIONS

“Lead in Your Home: A Parent’s Reference Guide”
U.S. Environmental Protection Agency
“The Lead-Safe Certified Guide to Renovate Right”
U.S. Environmental Protection Agency
“Lead Paint Safety: A Field Guide for Painting, Home Maintenance, and Renovation Work”
U.S. Department of Housing and Urban Development

The information contained in this report is a true and accurate representation of the lead in the water conditions at the subject property at the time of the investigation, based on the professional judgment of the person(s) who conducted and reported this lead in the water testing / assessment:



Edward G. Wenz, Jr.
Michigan Registered Lead Inspector and Risk Assessor, P-01130

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LEAD IN THE WATER SAMPLING LABORATORY RESULTS

CTI – Consulting, Testing, & Inspections, LLC

CTI Environmental Project – NAS Dove Elem

Date of Sampling: 4/20/2016 ~ Sampled By: Edward G. Wenz, Jr.

SAMPLE ID	SAMPLE LOCATION	STANDARD FOR EPA ACTION Level for LEAD in the Water (ppb = mg/L)	SAMPLE RESULT ppb
DE 01	Main Floor Door Drinking Fountain - Initial	15 ppb	1 ppb
DE 02	Main Floor Door Drinking Fountain - Flush	15 ppb	Not Detected
DE 03	Teachers Lounge - Initial	15 ppb	Not Detected
DE 04	Teachers Lounge - Flush	15 ppb	Not Detected
DE 05	2 nd Floor Main Bldg Drinking Fountain - Initial	15 ppb	10 ppb
DE 06	2 nd Floor Main Bldg Drinking Fountain - Flush	15 ppb	2 ppb
DE 07	1 st Floor Lower Level Drinking Fountain - Initial	15 ppb	2 ppb
DE 08	1 st Floor Lower Level Drinking Fountain - Flush	15 ppb	3 ppb
DE 09	Kitchen Sink - Initial	15 ppb	Not Detected
DE 10	Kitchen Sink - Flush	15 ppb	Not Detected
DE 11	2 nd Floor South Bldg Drinking Fountain - Initial	15 ppb	Not Detected
DE 12	2 nd Floor South Bldg Drinking Fountain - Flush	15 ppb	Not Detected
DE 13	Gym Drinking Fountain - Initial	15 ppb	1 ppb
DE 14	Gym Drinking Fountain - Flush	15 ppb	Not Detected

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SAMPLE ID	SAMPLE LOCATION	STANDARD FOR EPA ACTION Level for COPPER in the Water (ppb = mg/L)	SAMPLE RESULT ppb
DE 01	Main Floor Door Drinking Fountain - Initial	1,300 ppb	49 ppb
DE 02	Main Floor Door Drinking Fountain - Flush	1,300 ppb	57 ppb
DE 03	Teachers Lounge - Initial	1,300 ppb	150 ppb
DE 04	Teachers Lounge - Flush	1,300 ppb	51 ppb
DE 05	2 nd Floor Main Bldg Drinking Fountain - Initial	1,300 ppb	Not Detected
DE 06	2 nd Floor Main Bldg Drinking Fountain - Flush	1,300 ppb	45 ppb
DE 07	1 st Floor Lower Level Drinking Fountain - Initial	1,300 ppb	280 ppb
DE 08	1 st Floor Lower Level Drinking Fountain - Flush	1,300 ppb	170 ppb
DE 09	Kitchen Sink - Initial	1,300 ppb	76 ppb
DE 10	Kitchen Sink - Flush	1,300 ppb	29 ppb
DE 11	2 nd Floor South Bldg Drinking Fountain - Initial	1,300 ppb	57 ppb
DE 12	2 nd Floor South Bldg Drinking Fountain - Flush	1,300 ppb	36 ppb
DE 13	Gym Drinking Fountain - Initial	1,300 ppb	130 ppb
DE 14	Gym Drinking Fountain - Flush	1,300 ppb	35 ppb

Also See Attached Laboratory Results

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Appendix A - Site Location

20001 Wexford - Detroit, MI 48234




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Appendix B - Site Location Map



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Appendix C - Inspector Qualifications



Michigan Department of Health and Human Services
Healthy Homes Section

Edward Wenz Jr.
Lead Supervisor
Lead Inspector/Risk Assessor
 Cert. number **P-01130**
 Annual fee due by March 31, **2017**

Appropriate refresher training and exam must be taken to renew this certification before March 31, 2019




State of Michigan
Department of Licensing and Regulatory Affairs
Michigan Occupational Safety & Health Administration - Asbestos Program

Asbestos Contractor/Supervisor

Edward G. Wenz, Jr.
 8756 Trenton Drive
 White Lake, MI 48386

Accreditation Number **A42527** Expiration Date **04/05/2017** DOB: **01/08/1968**

This individual has satisfactorily met or exceeded the requirements of Section 206 of the Toxic Substances Control Act to be accredited in the above discipline. Accreditation card is not valid if altered. 120312



State of Michigan
Department of Licensing and Regulatory Affairs
Michigan Occupational Safety & Health Administration - Asbestos Program

Asbestos Inspector

Edward G. Wenz, Jr.
 8756 Trenton Drive
 White Lake, MI 48386

Accreditation Number **A42527** Expiration Date **04/05/2017** DOB: **01/08/1968**

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector. Accreditation card is not valid if altered. 120311



Occupational Safety and Health Administration

21-004444959

This card acknowledges that the recipient has successfully completed a 10-hour Occupational Safety and Health Training Course in **Construction Safety and Health**

EDWARD WENZ, JR.

Bryan Renaud
(Trainer name – print or type)

06/12/2013
(Course end date)



Michigan Department of Licensing and Regulatory Affairs
Michigan Occupational Safety and Health Administration
Consultation Education and Training Division

This is to recognize that

Edward Wenz, Jr.

Has a completed a 10-Hour MIOSHA course in **CONSTRUCTION SAFETY AND HEALTH**

Bryan Renaud
(Instructor)

Approval # **AP 147**

6/12/13
(Date)

LARA



People Helping People Build a Safer World™

INTERNATIONAL CODE COUNCIL MEMBER

Michigan Builders Training LLC
 Edward Wenz
 Corporate Membership
 Member #: 8100520 Exp: 1/31/2014

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
CORPORATIONS, SECURITIES & COMMERCIAL LICENSING BUREAU

L245595

RESIDENTIAL BUILDER
LICENSE

EDWARD GILBERT WENZ, JR
 8756 TRENTON DR
 WHITE LAKE MI 48386

PERMANENT I.D. NO.
2101186904

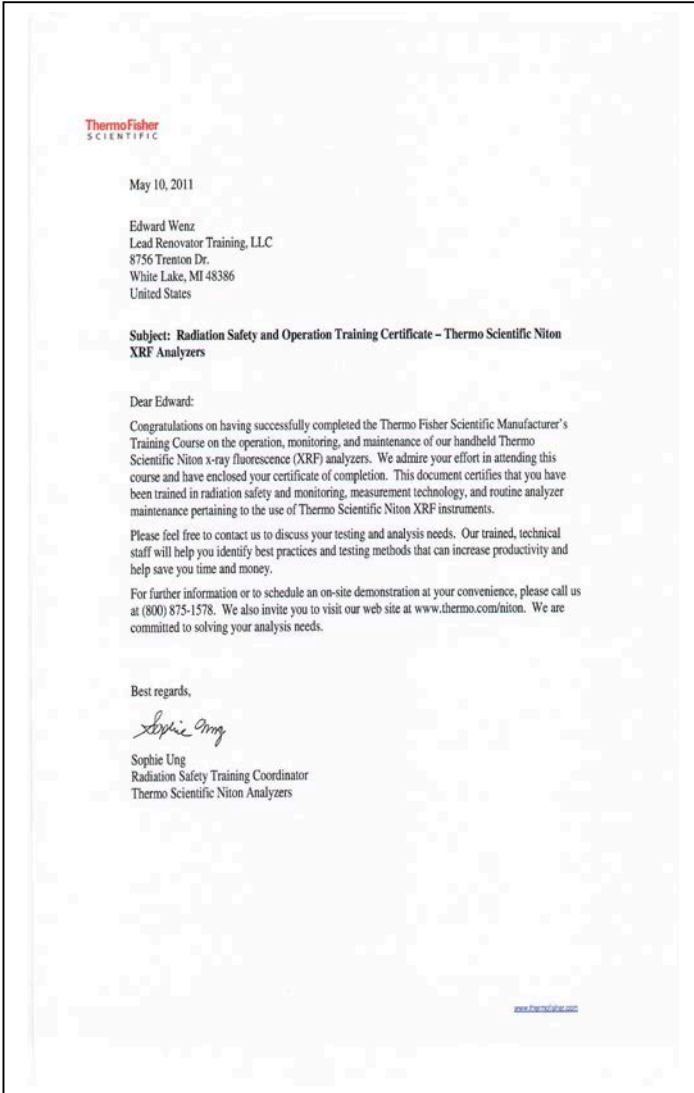
EXPIRATION DATE
05/31/2017

AUDIT NO.
2801332

THIS DOCUMENT IS DULY ISSUED
UNDER THE LAWS OF THE STATE
OF MICHIGAN

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Appendix D - XRF Manufacturer's Training Certificate



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Appendix E – Water Sampling Test Results

**LEAD and COPPER WATER SAMPLING
LABORATORY RESULTS & Chain of Custody**

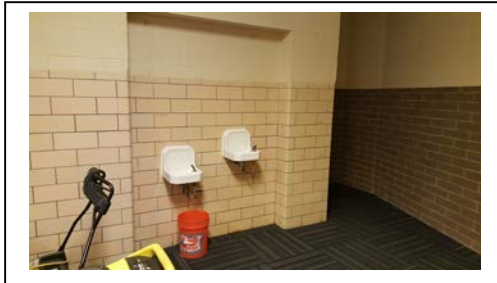
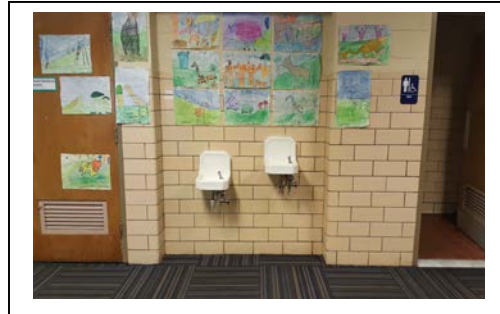
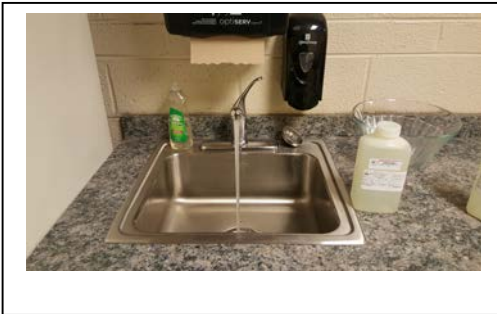
CTI – Consulting, Testing, & Inspections, LLC ~ CTI Environmental Project # NAS

**20001 Wexford
Detroit, MI 48234**

Date of Sampling: 4/20/2016 ~ Sampled By: Edward G. Wenz, Jr.

See Attached Lab Results with Chain of Custody

Appendix F – Photos





WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Main Floor 1 door-drink ftn

Sample ID:
20001 Wexford
Detroit, MI
DE 01

Lab Sample Number: 88542-01

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.049	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	0.001	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

Laboratory #23 assigned by the Michigan Department of Environmental Quality for the microbiological and chemical analysis of drinking water.

ABBREVIATIONS:
RL = Lowest reporting level
MCL = Maximum Contaminant Level - The maximum permissible level established by the USEPA and or MDEQ for safe drinking water.
SMCL = Secondary Maximum Contaminant Level - Suggested maximum level established by the USEPA for desirable water quality.
CFU/100 ml = Colony Forming Units/100 milliliter sample volume.
mg/L = Milligrams per liter (= parts per million).



718 S. Michigan

Howell, MI 48843

(517) 548-2505

Fax (517) 548-3434

WATER ANALYSIS RESULTS

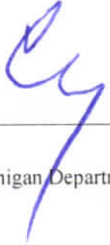
To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Main Floor 1 door ,df-flush

Sample ID:
20001 Wexford
Detroit, MI
DE 02

Lab Sample Number: 88542-02

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.057	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

Laboratory #23 assigned by the Michigan Department of Environmental Quality for the microbiological and chemical analysis of drinking water.

ABBREVIATIONS:

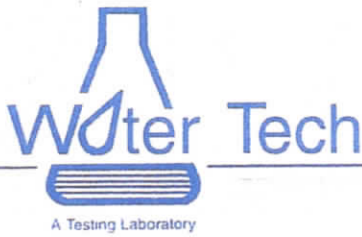
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CFU/100 ml = Colony Forming Units/100 milliliter sample volume.

mg/L = Milligrams per liter (= parts per million).



WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Teachers Lounge-Intial

Sample ID:
20001 Wexford
Detroit, MI
DE 03

Lab Sample Number: 88542-03

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.150	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

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RL = Lowest reporting level
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CFU/100 ml = Colony Forming Units/100 milliliter sample volume.
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WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Teachers Lounge-Flush

Sample ID:
20001 Wexford
Detroit, MI
DE 04

Lab Sample Number: 88542-04

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.051	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

Laboratory #23 assigned by the Michigan Department of Environmental Quality for the microbiological and chemical analysis of drinking water.

ABBREVIATIONS:

- RL = Lowest reporting level
- MCL = Maximum Contaminant Level - The maximum permissible level established by the USEPA and or MDEQ for safe drinking water.
- SMCL = Secondary Maximum Contaminant Level - Suggested maximum level established by the USEPA for desirable water quality.
- CFU/100 ml = Colony Forming Units/100 milliliter sample volume.
- mg/L = Milligrams per liter (= parts per million).



WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: 2nd fl.-D. F. Initial

Sample ID:
20001 Wexford
Detroit, MI
DE 05

Lab Sample Number: 88542-05

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	Not Detected	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	0.010	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: _____

Date: 4/21/2016

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- CFU/100 ml = Colony Forming Units/100 milliliter sample volume.
- mg/L = Milligrams per liter (= parts per million).



WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: 2nd Fl.-D. F. Flush

Sample ID:
20001 Wexford
Detroit, MI
DE 06

Lab Sample Number: 88542-06

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.045	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	0.002	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

Laboratory #23 assigned by the Michigan Department of Environmental Quality for the microbiological and chemical analysis of drinking water.

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mg/L = Milligrams per liter (= parts per million).



WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: 1st FI-Lower Level-DF Initial

Sample ID:
20001 Wexford
Detroit, MI
DE 07

Lab Sample Number: 88542-07

Test Parameter	Result	Units	RL	Method	Date of Analysis	Maximum Desired Limit
Total Copper	0.280	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	0.002	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By  _____

Date: 4/21/2016

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CFU/100 ml = Colony Forming Units/100 milliliter sample volume. MPN = Most Probable Number.

mg/L = Milligrams per liter (= parts per million).



WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: 1st FI-Lower Level-DF Flush

Sample ID:
20001 Wexford
Detroit, MI
DE 08

Lab Sample Number: 88542-08

Test Parameter	Result	Units	RL	Method	Date of Analysis	Maximum Desired Limit
Total Copper	0.170	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	0.003	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By 

Date: 4/21/2016

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CFU/100 ml = Colony Forming Units/100 milliliter sample volume. MPN = Most Probable Number.
mg/L = Milligrams per liter (= parts per million).



WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Kitchen Sink- Intial

Sample ID:
20001 Wexford
Detroit, MI
DE 09

Lab Sample Number: 88542-09

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.076	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

Laboratory #23 assigned by the Michigan Department of Environmental Quality for the microbiological and chemical analysis of drinking water.

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mg/L = Milligrams per liter (= parts per million).



WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Kitchen Sink- flush

Sample ID:
20001 Wexford
Detroit, MI
DE 10

Lab Sample Number: 88542-10

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.029	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

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mg/L = Milligrams per liter (= parts per million).



718 S. Michigan

Howell, MI 48843

(517) 548-2505

Fax (517) 548-3434

WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: 2nd fl D.F. South- Intial

Sample ID:
20001 Wexford
Detroit, MI
DE 11

Lab Sample Number: 88542-11

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.057	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: _____

Date: 4/21/2016

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WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: 2nd fl D.F. South- Flush

Sample ID:
20001 Wexford
Detroit, MI
DE 12

Lab Sample Number: 88542-12

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.036	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

Laboratory #23 assigned by the Michigan Department of Environmental Quality for the microbiological and chemical analysis of drinking water.

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WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Gym D.F. Intial

Sample ID:
20001 Wexford
Detroit, MI
DE 13

Lab Sample Number: 88542-13

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.130	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	0.001	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

Laboratory #23 assigned by the Michigan Department of Environmental Quality for the microbiological and chemical analysis of drinking water.

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WATER ANALYSIS RESULTS

To: Edward Wenz, Jr
CTI - Consulting, Testing & Inspections, LLC
8756 Trenton Dr
White Lake, MI 48386

Date Sampled: 4/20/2016 6:00
Date Received: 4/20/2016
Collected By: Ed Wenz
Sample Point: Gym D.F. Flush

Sample ID:
20001 Wexford
Detroit, MI
DE 14

Lab Sample Number: 88542-14

Test Parameter	Result	Units	RL	Method	Analysis Date	Maximum Desired Limit
Total Copper	0.035	mg/L	0.01	EPA200.8	4/20/2016 0:00	1.3
Total Lead	Not Detected	mg/L	0.001	EPA200.8	4/20/2016 0:00	0.015

Released By: 

Date: 4/21/2016

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CHAIN OF CUSTODY RECORD

Site Address: 20001 Westford
 City: Detroit, MI

CTI - Consulting, Testing & Inspections, LLC
 Edward G. Wenz, Jr.
 8756 Trenton Drive
 White Lake, MI 48386
 (248) 698-6900 Email Results to: wenz_ed@yahoo.com
 (248) 694-2001



718 S. Michigan
 Howell, MI 48843
 Ph: (517) 548-2505
 Fax: (517) 548-3434

891822

ITEM NO	WATER TECH SAMPLE NO	CLIENTS SAMPLE ID	Sample Date	Sample Time	Containers TYPE & QUANTITY						ANALYSIS REQUESTED			
					BACTI BOTTLE	HDPE	HDPE W/HN03	GLASS W/H2504	VOA-S-PRESERV	OTHER	COLD AMBIENT WARM	LEAD	COPPER	Water Sample(s) Location in Dwelling
1	8854-01	EW-DE 01	4-20	6 AM			X					X	X	Main Floor / Door - Dringy Fin
2	8854-02	EW-DE 02	4-20	6 AM								X	X	Main Floor / Door - DC - Flush
3	8854-03	EW-DE 03	4-20	6 AM								X	X	Teacher's Lge - JANITR
4	8854-04	EW-DE 04	4-20	6 AM								X	X	Teacher's Lge - - Flush
5	8854-05	EW-DE 05	4-20	6 AM								X	X	2nd floor DF - JANITR
6	8854-06	EW-PE 06	4-20	6 AM								X	X	2nd floor DF - Flush
7	8854-07	EW-DE 07	4-20	6 AM								X	X	1st floor Lower level DF - Flush
8	8854-08	EW-DE 08	4-20	6 AM								X	X	1st floor Lower level DF - Flush
9	8854-09	EW-PE 09	4-20	6 AM								X	X	Kitchen SINK - JANITR
10	8854-10	EW-PE 10	4-20	6 AM								X	X	Kitchen SINK - Flush

Please fill out the Chain of Custody completely and review incorrect or incomplete information with result in a "hold" on all analyses.

IMPORTANT - TURN AROUND TIME:

DATE RESULTS EXPECTED:
 48 HOURS 72 HOUR
 24 Hr TAT OTHER 5 DAY

Sampled By: Go Wenz

Relinquished By: [Signature]

DATE TIME RECEIVED BY
 4-20-16 10:20 DW
 4/20/16
 10:23

STANDARD

4/21

