Lead/Copper Water Sampling Report

For

Childtime Learning Center

June 2nd, 2016

ENVIRONMENTAL, INC.

Childtime Learning Center

Lead/Copper Water Sampling Report

Background:

On May 10th, 2016, Ms. Katie Lillard of Learning Care Group contacted Nova Environmental, Inc. and requested that lead water samples be collected at the Childtime Learning Center located at 3130 West Grand Blvd., Detroit, Michigan. Upon discussion, it was determined to conduct testing for copper also. Since this water testing is for screening purposes, it was determined that three samples be collected at the Center. The location of the testing was from interior taps from which water is typically drawn for consumption. This would include, but is not limited to the Kitchen area.

Sampling Methodology:

On Thursday, June 2nd, 2016, an environmental consultant from Nova Environmental, Inc. conducted the water sample collection at the Center. The water samples were collected "first draw" which means that the tap was not flushed prior to sample collection. This first draw method is stipulated within the Environmental Protection Agency and Michigan Department of Environmental Quality (MDEQ) sampling guidelines for lead and copper.

The water samples were collected in the early morning in order to ensure that the drinking water outlet has sat idle for a minimum of six hours prior to sample collection.

Sample Analysis:

Subsequent to the collection, the sample bottles were hand delivered to the National Testing Laboratories, Ltd., Ypsilanti, Michigan. The type of analysis performed on the water samples was Inductively Coupled Plasma – Mass Spectrometry (ICP – MS).

Sample Results:

The action level established by the Environmental Protection Agency (EPA) for lead in drinking water is 0.015 milligrams per liter (mg/L) while for copper is 1.3 mg/L.

The results of all samples collected and analyzed at the Childtime Learning Center were below the action levels for both lead and copper.

Limitations:

The intent of this sampling was to conduct a simple, cursory screening for lead/copper in drinking water at the Childtime Learning Center. Therefore, this report was not intended to or should not be construed to provide any type of regulatory compliance. Furthermore, the sampling from three taps within a building does not imply a thorough or even representative indication of lead/copper in the drinking water, but is intended to simply provide a snapshot of lead/copper levels at the specific locations tested. In order to clarify, Nova Environmental, Inc. provides the following disclaimers:

- The determination of what taps to test were discussed with building staff and were based on those most likely to be used for consumption, which usually included one sample within the Kitchen;
- The intent of this sampling was not to provide any means or implication of regulatory compliance;
- The only way to ensure an accurate indication of potential lead/copper in water presence within a given building is to test each tap on a periodic basis.

Laboratory Statement of Qualifications:

National Testing Laboratories, Ltd. is a fully certified laboratory for the analysis of lead and copper in thirty four states throughout the US including Michigan. Included within this report is a Statement of Qualifications for lead and copper analysis along with a copy of their Michigan certification.

Childtime Learning Center

Sample ID - Primary	Lead	Copper	Sample ID - Flush	Lead	Copper	Location
191924	ND	0.028 mg/L	191921	N/A	N/A	Faucet, Kitchen Area
191923	ND	0.041 mg/L	191920	N/A	N/A	Faucet, Toddler Room
191919	ND	0.002 mg/L	191922	N/A	N/A	Faucet, Infant Room

ND = None Detected at Reporting Limit

Federal Action Level for Drinking Water: Lead 0.015 mg/L Copper 1.3 mg/L
mg/L = milligrams/Liter (ppm)

Laboratory ID: 0055

National Testing Laboratories, Ltd
556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 356075

6/7/2016

Customer: Nova Environmental Inc.
Kary Amin
5300 Plymouth Road
Ann Arbor, MI 48105

Source: Childtime Learning Center, 191924P

Date/Time Received: 6/2/2016 13:50
Collected by: K. Amin

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND"	This contaminant was not detected at or above our lower reporting limit (LRL)
"NA"	Not Analyzed
"Standard"	This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.
"LRL"	This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.
"DF"	This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
					Inorganic Analytes - Metals						
1022	Copper	200.8	1.0	mg/L	0.002	0.028	1	6/2/2016	06:31		6/7/2016
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	6/2/2016	06:31		6/7/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8

James Abston, Operations Manager

Laboratory ID: 0055

National Testing Laboratories, Ltd
556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 356077

6/7/2016

Customer: Nova Environmental Inc.
Kary Amin
5300 Plymouth Road
Ann Arbor, MI 48105

Source: Childtime Learning Center, 191923P

Date/Time Received: 6/2/2016 13:50
Collected by: K. Amin

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND"	This contaminant was not detected at or above our lower reporting limit (LRL)
"NA"	Not Analyzed
"Standard"	This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.
"LRL"	This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.
"DF"	This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
					Inorganic Analytes - Metals						
1022	Copper	200.8	1.0	mg/L	0.002	0.041	1	6/2/2016	06:34		6/7/2016
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	6/2/2016	06:34		6/7/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8

James Abston, Operations Manager

Laboratory ID: 0055

National Testing Laboratories, Ltd
556 South Mansfield, Ypsilanti, MI, 48197-5166
(440) 449-2525, Fax: (440) 449-8585

ANALYTICAL REPORTS

SAMPLE CODE: 356079

6/7/2016

Customer: Nova Environmental Inc.
Kary Amin
5300 Plymouth Road
Ann Arbor, MI 48105

Source: Childtime Learning Center, 191919P

Date/Time Received: 6/2/2016 13:50
Collected by: K. Amin

The results herein conform to TNI and ISO/IEC 17025:2005 standards, where applicable, unless otherwise narrated in the body of the report. The uncertainty of the test results are available upon request. All Dates and Times are reported as U.S. Eastern Time.

Legend:

Any 'Level Detected' marked with an asterisk (*) indicates that the value has exceeded the EPA Maximum Contaminant Level (MCL) or one of the Standards of Quality.

"ND" This contaminant was not detected at or above our lower reporting limit (LRL)

"NA" Not Analyzed

"Standard" This column indicates either the Maximum Contaminant Level (MCL) for EPA Primary Standards or the guideline values for EPA Secondary Standards.

"LRL" This column indicates the Lower Reporting Limit, which is the lowest level that the laboratory can detect a contaminant.

"DF" This column indicates the contaminant dilution factor.

Report Notes:

Fed Id #	Contaminant	Method	Standard	Units	LRL	Level Detected	DF	Date/Time Sampled		Date Prepped	Date/Time Analyzed
					Inorganic Analytes - Metals						
1022	Copper	200.8	1.0	mg/L	0.002	0.040	1	6/2/2016	06:38		6/7/2016
1030	Lead	200.8	0.015	mg/L	0.001	ND	1	6/2/2016	06:38		6/7/2016

These test results may be used for compliance purpose as required.

Analyst	Tests
EC	200.8

James Abston, Operations Manager

State of Michigan
Department of Environmental Quality
Remediation & Redevelopment Division

CERTIFIES:

NATIONAL TESTING LABORATORIES, LTD.

HAS BEEN EVALUATED AND IS APPROVED FOR THE FOLLOWING PARAMETERS FOR THE ANALYSIS OF DRINKING WATER:

FULL CERTIFICATION

INORGANIC CHEMISTRY

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium,
Lead, Nickel, Selenium Thallium, Sodium and Copper
Mercury, Bromide, Bromate, Nitrate, Nitrite, Fluoride, Sulfate
Chlorate, Chlorite and Total Organic Carbon

This certification requires maintenance of an acceptable quality assurance program, use of approved methodology and equipment, and satisfactory performance on evaluation samples. This certification does not guarantee validity of data generated.

November 6, 2018
Expiration Date

Gregg A. Lundy
Laboratory Certification Officer

October 16, 2015
Issuance Date

0055
Laboratory Number

EQC 2310 12/02

Authority: Act 399, PA 1976

National Testing Laboratories, Ltd.
Quality Water Analysis

Statement of Qualifications

Lead and Copper Analysis

National Testing Laboratories, Ltd. located in Ypsilanti, Michigan specializes in the testing of drinking water. We are accredited by the NELAC Institute and have also achieved ISO Certification for analyzing lead and copper. Additionally, we are certified in thirty-four states and U.S. territories for lead and copper in drinking water. Following are the methods we utilize for testing lead and copper in drinking water.

Lead is analyzed by one of two methods. The more commonly run method is 200.8 which utilizes Inductively Coupled Plasma Mass Spectrometry. The second method is Standard Methods 3113B, which utilizes Electrothermal Atomic Absorption Spectrometry. This method is more commonly used to confirm results from the ICP-MS, but can also be used to run production samples.

Copper is analyzed by one of two methods. The method used is dependent on the other metals that may be needed in addition to copper, this is to improve efficiency of runs. EPA method 200.8 is often used when analyzing lead and copper samples, so samples can be run simultaneously. Copper can also be analyzed using 200.7 which utilizes Inductively Coupled Plasma Atomic Emission Spectrometry.

National Testing Laboratories runs thousands of samples each year for Lead and Copper to meet various regulations and client requirements. We have been in business for Regulations include FHA and VA loans, FDA requirements and the Lead and Copper rule under the Safe Drinking Water Act.