



Fairfield Public Schools

Water Analysis Report

McKinley Elementary School
60 Thompson Street, Fairfield, CT

Big East Environmental, LLC
11/2/2016



SUBJECT SITE:	McKinley Elementary School 60 Thompson Street Fairfield, CT 06825
CLIENT:	Fairfield Public Schools 501 Kings Hwy East Fairfield, CT 06825 203.255.8277 mpiatt@fairfieldschools.org
INPSPECTION DATE:	November 1, 2016
BIG EAST PROJECT #:	16527

WATER QUALITY ANALYSIS REPORT

Introduction

Big East Environmental, LLC was retained by the client to perform water quality testing at the subject site on November 1, 2016. The subject property is an educational facility serving as a public elementary school.

Methods

Big East Environmental collected water samples from 30 separate locations as directed to us by the school administration on the day of the inspection. The school was not occupied during the sample collection process. Water samples were collected on a first draw method, although the system had undergone several system flushes prior to sample collection. Water samples were analyzed for sodium by EPA 2007 method, nitrite as N by EPA method 300, and pH levels. The samples were collected and stored in a cooler and dropped off at the laboratory facility for immediate analysis. All samples were collected and transported under chain of custody protocols. York Analytical Laboratories, Inc. performed the analysis. The laboratory report is attached.



SAMPLE RESULTS

Source: Hot Water Tank #2

Sample ID: 01

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	18.3	-	28
Nitrite as N	0.0912	1.0	-
pH	7.50	-	6.5 – 8.5

Source: Hot Water Tank #1

Sample ID: 02

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	18.4	-	28
Nitrite as N	0.348	1.0	-
pH	8.21	-	6.5 – 8.5

Source: Kitchen – Rinse Sink

Sample ID: 03

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.5	-	28
Nitrite as N	0.0955	1.0	-
pH	7.56	-	6.5 – 8.5

Source: Kitchen – Sink at Microwave

Sample ID: 04

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	18.3	-	28
Nitrite as N	0.147	1.0	-
pH	7.72	-	6.5 – 8.5

Source: Women’s Bathroom Sink

Sample ID: 05

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	20.8	-	28
Nitrite as N	0.772	1.0	-
pH	9.39**	-	6.5 – 8.5

Source: Water Fountain

Sample ID: 06

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.2	-	28
Nitrite as N	0.0937	1.0	-
pH	7.63	-	6.5 – 8.5



Source: Nurse's Office

Sample ID: 07

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.4	-	28
Nitrite	0.156	1.0	-
pH	8.67**	-	6.5 – 8.5

Source: Kindergarten Hall Water Fountain

Sample ID: 08

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.2	-	28
Nitrite	0.0913	1.0	-
pH	7.63	-	6.5 – 8.5

Source: Room 125 Bathroom Sink

Sample ID: 09

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.3	-	28
Nitrite	None Detected	1.0	-
pH	7.99	-	6.5 – 8.5

Source: Room 135 Classroom Sink

Sample ID: 10

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	15.9	-	28
Nitrite	0.109	1.0	-
pH	7.78	-	6.5 – 8.5

Source: Room 136 Prep Room Sink

Sample ID: 11

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.1	-	28
Nitrite	0.131	1.0	-
pH	8.12	-	6.5 – 8.5

Source: Room 184 Sink

Sample ID: 12

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.7	-	28
Nitrite	0.268	1.0	-
pH	7.79	-	6.5 – 8.5



Source: Room 194 Sink

Sample ID: 13

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	19.2	-	28
Nitrite	0.201	1.0	-
pH	7.67	-	6.5 – 8.5

Source: Room 195 Sink

Sample ID: 14

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.9	-	28
Nitrite	0.202	1.0	-
pH	7.60	-	6.5 – 8.5

Source: Fountain at Room 189

Sample ID: 15

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	18.4	-	28
Nitrite	0.133	1.0	-
pH	7.51	-	6.5 – 8.5

Source: Room 185 Slop Sink

Sample ID: 16

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	19.8	-	28
Nitrite	0.206	1.0	-
pH	7.61	-	6.5 – 8.5

Source: Fountain at Top of 2nd Floor Stairs

Sample ID: 17

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.4	-	28
Nitrite	0.153	1.0	-
pH	7.58	-	6.5 – 8.5

Source: Room 200 Sink

Sample ID: 18

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.6	-	28
Nitrite	0.200	1.0	-
pH	7.76	-	6.5 – 8.5



Source: Fountain at Room 203

Sample ID: 19

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.6	-	28
Nitrite	0.183	1.0	-
pH	7.79	-	6.5 – 8.5

Source: Room 211 Sink

Sample ID: 20

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.4	-	28
Nitrite	0.0944	1.0	-
pH	7.84	-	6.5 – 8.5

Source: Room 212 Sink

Sample ID: 21

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	15.9	-	28
Nitrite	0.111	1.0	-
pH	7.64	-	6.5 – 8.5

Source: Room 215 Sink

Sample ID: 22

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.8	-	28
Nitrite	0.104	1.0	-
pH	7.87	-	6.5 – 8.5

Source: Room 217 Sink

Sample ID: 23

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	18.3	-	28
Nitrite	0.116	1.0	-
pH	7.83	-	6.5 – 8.5

Source: Room 219 Sink

Sample ID: 24

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	16.7	-	28
Nitrite	0.237	1.0	-
pH	7.79	-	6.5 – 8.5



Source: Room 238 Sink

Sample ID: 25

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.2	-	28
Nitrite	0.204	1.0	-
pH	7.75	-	6.5 – 8.5

Source: Fountain at Room 225

Sample ID: 26

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	18.2	-	28
Nitrite	0.212	1.0	-
pH	7.68	-	6.5 – 8.5

Source: Room 236 Sink

Sample ID: 27

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.4	-	28
Nitrite	0.230	1.0	-
pH	7.71	-	6.5 – 8.5

Source: Room 231 Sink

Sample ID: 28

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.7	-	28
Nitrite	0.205	1.0	-
pH	7.70	-	6.5 – 8.5

Source: Room 226 Sink

Sample ID: 29

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.9	-	28
Nitrite	0.138	1.0	-
pH	7.78	-	6.5 – 8.5

Source: Main Water Supply (baseline)

Sample ID: 30

ANALYTE	RESULTS mg/L	MCL	MCLG
Sodium	17.8	-	28
Nitrite	0.116	1.0	-
pH	7.53	-	6.5 – 8.5



RESULTS KEY

**exceeds goal*

***exceeds secondary goal*

MCL – Maximum Contaminant Level

MCLG – Maximum Contaminant Level Goal

NE – Not Established

Mg/L – milligrams per liter of water / parts per million

µg/L – micrograms per liter of water / parts per billion

pCi/L – pico curies per liter

sec. goal – secondary goal

Maximum Contaminant Level (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5, Subpart 5-1. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary DW Maximum Contaminant Level Goal (MCLG): 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

Sincerely,

Steve DiNapoli

Steve DiNapoli, LEED AP, CMC
President
Big East Environmental