



**Environmental
Works, Inc.**

**Delta C-7 School District
Lead in Drinking Water
Sampling and Testing Plan**

Prepared For:

Delta C-7 School District
20 Charger Lane
P.O. Box 297
Deering, MO 63840-0297

Prepared By:

Environmental Works, Inc.
1455 E Chestnut Expressway
Springfield, Missouri 65802

Plan Prepared:

December 22, 2023

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1.0 Purpose

Environmental Works, Inc. (EWI), on behalf of the Delta C-7 School District (Delta C-7), has prepared this Lead in Drinking Water Sampling and Testing (LDWST) Plan in response to the Missouri Revised Statutes of Missouri (RSMo) Chapter 160 Section 077 (160.077). This LDWST Plan includes procedures for inventorying and sampling outlets used for drinking water and water dispensed for cooking and cleaning of eating and cooking utensils in each of the school buildings.

This Plan has been prepared to meet the requirements of the RSMo 160.077, the Environmental Protection Agencies (EPA) 3T's for Reducing Lead in Drinking Water and the EPA Safe Drinking Water Act (SDWA). The Delta C-7 District has distributed this LDWST Plan to the public through the District website (<http://www.deltac7.k12.mo.us/>). General information on the health effects of lead contamination and additional informational resources for employees and parents of children at each school will be provided upon request.

1.1 Regulatory Schedule Requirements (RSMo 160.077(4))

In accordance with RSMo 160.077, on or before January 1, 2024, each school will:

- Conduct an inventory of all drinking water outlets and all outlets that are used for dispensing water for consumption, cooking and cleaning of cooking and eating utensils;
- Develop a Plan for testing each outlet inventoried;
- Provide the Plan to the public; and
- Upon request, provide general information on the health effects of lead contamination and additional informational resources for employees and parents of children at each school.

Before August 1, 2024, or on the first day students will be present in the building, whichever is later, each school will:

- Complete sampling in accordance with RSMo 160.077
- Make all testing results and any lead remediation plans available on the school's website within two weeks of receiving final analytical test results;
- Remove and replace any drinking water coolers or drinking water outlets that the EPA has determined are not lead-free under the federal Lead Contamination Control Act of 1988.

2.0 School District Description and Contact Information

2.1 School District Information

School Name: Delta C-7 School District

School Type: Public

Address: 20 Charger Lane PO Box 297
Deering, MO 63840-0297

Phone: (573) 757-6648 (O) and (573) 757-9691 (F)
Email: kcopley@deltac7.k12.mo.us

Contact: Pamela Robinson
Superintendent
(573) 757-6648 (O)

2.2 Buildings

The following table summarizes the schools covered in this LDWST Plan.

| Schools | Level | Grade | Address |
|-----------------------|-----------|------------|--|
| Delta C-7 Elementary | Primary | K – 6th | 20 Charger Lane PO Box 297 Deering, MO 63840-0297 |
| Delta C-7 High School | Secondary | 7th – 12th | 20 Charger Lane PO Box 297 Deering, MO 63840-0297 |

3.0 Inventory

The Delta C-7 completed a building and outlet questionnaire and EWI completed a site visit to gather information such as:

- Date of building construction.
- Year and location of plumbing repairs
- Location of where water enters the building and flows.
- Identification of any known lead lines or plumbing components.
- Location of water pipes and piping material.
- Location of any tanks in the plumbing system.
- Identification of all faucets and fixtures used for drinking water and cooking.
- Identification of filters, aerators, signs of corrosion or banned water cooler tanks.

3.2 Outlet Identification and Prioritization

Drinking water and cooking outlets were identified from the questionnaire and site-visit in accordance with the Missouri RMOs 160.077.2 drinking water outlet definition, which includes, but may not be limited to:

- a) A water fountain, faucet, or tap that is used or potentially used for drinking or food preparation;
and
- b) Ice-making and hot drink machines.

Building diagrams are attached in **Appendix A**, detailed information on each building can be found in **Appendix B** and the outlets identified in the inventory is outlined in **Appendix C**.

4.0 Sampling and Testing

4.1 Initial Sampling and Testing

The outlet inventory and prioritization schedule included in this plan will be used to conduct sampling for the Delta C-7. Samples will be collected using proper sampling procedures. The sampler will utilize laboratory prepared 250-milliliter (mL) unpreserved plastic containers to collect outlet water for analysis of lead by Method 200.8. Samples will be labeled, managed under a Chain of Custody, and sent to a certified laboratory for analysis. EWI personnel will collect samples from each identified outlet based on the following criteria:

First Draw Sampling

First draw samples will be immediately collected from the outlet from the first water after the outlet is turned on. Samples will be collected after a stagnation period of at least 8 hours but no greater than 18 hours.

Flush Sampling

Follow-up flush samples will be collected from at least 25% of inventoried drinking water outlets.

All results will be summarized in a final report, submitted to the Missouri Department of Health and Senior Services, and published on the Delta C-7 website.

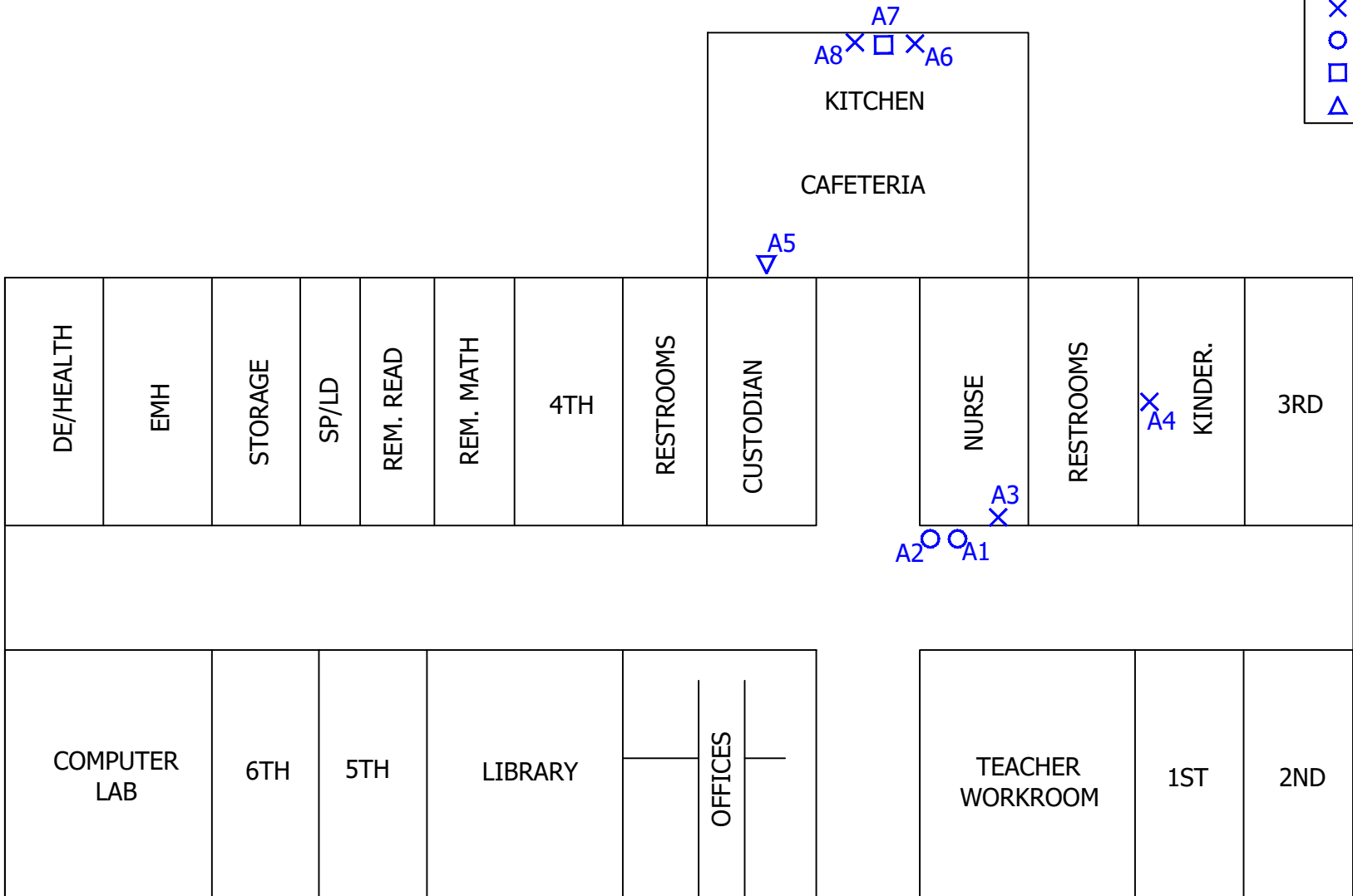
4.2 Subsequent Sampling and Testing



If initial testing finds lead above 5 ppb, the Delta C-7 will implement remedial measures then test and sample 25% of remediated drinking water outlets by first draw and follow-up flush sampling annually.

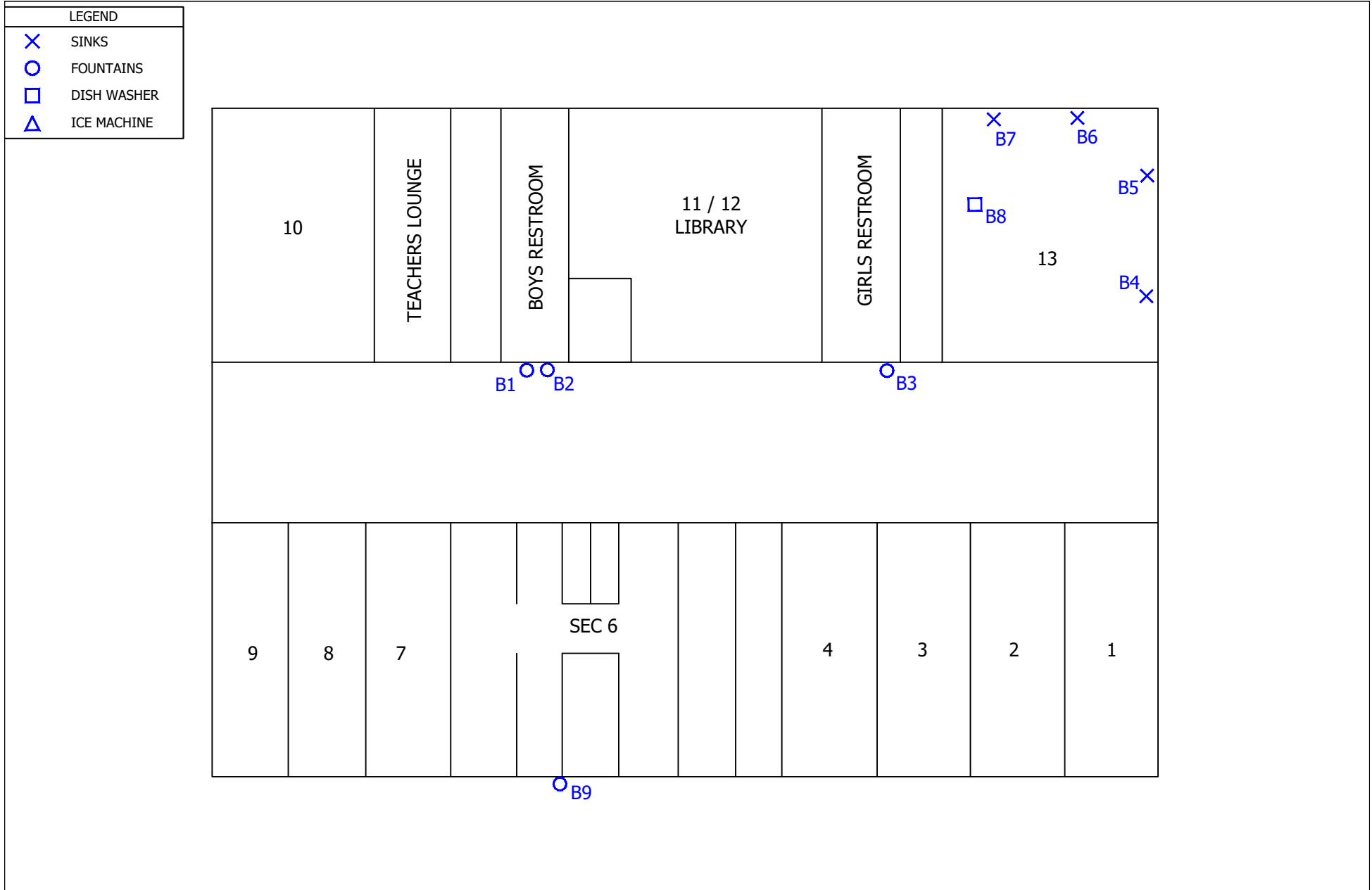
If initial testing does not find a drinking water source with a lead concentration above 5 ppb, Delta C-7 will complete testing and sampling every five years.



APPENDIX A – Building Diagrams

| LEGEND | |
|--------|-------------|
| X | SINKS |
| O | FOUNTAINS |
| □ | DISH WASHER |
| △ | ICE MACHINE |

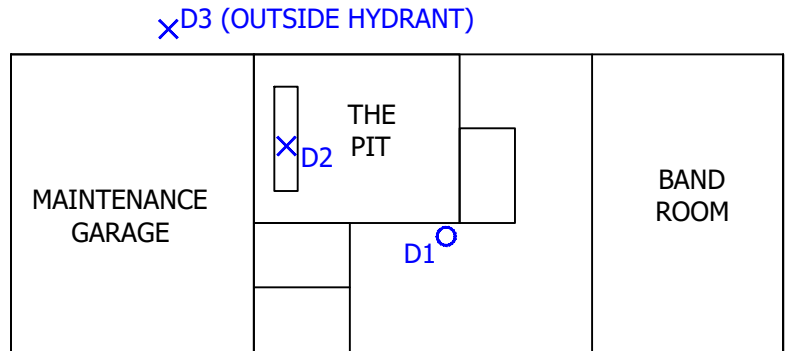
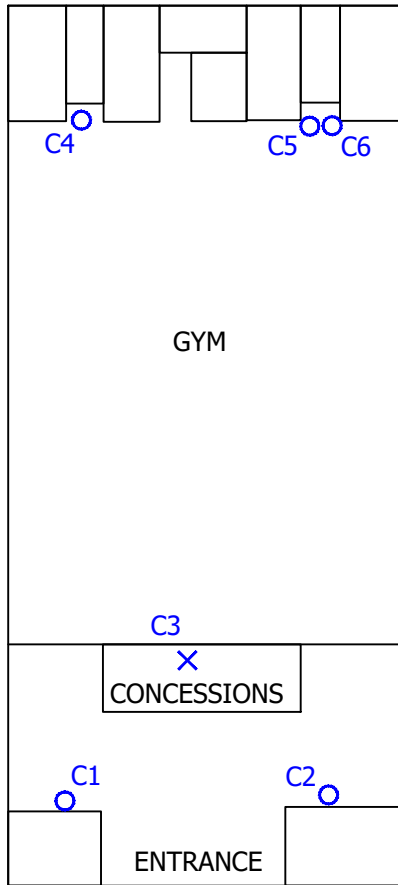


| | | | | | | | |
|---|---|--------------|---|--|--|---|----------------------|
|  | CHECKED BY: T. ABERNATHY | NOT TO SCALE |  ENVIRONMENTAL WORKS | Poplar Bluff Office Location 2008 N. Westwood BLVD Poplar Bluff, MO 63901 Phone: (513) 316-9300 | | ELEMENTARY SCHOOL (BUILDING A) | FIGURE 1.0 |
| | E.W.I. # 233907 DRAWN BY: CRR Nov. 27, 2023 | | | DELTA C-7 SCHOOLS DELTA, MISSOURI | | | |



| | | | | | | |
|---|---|--------------|--|--|--------------------------------------|-----------------------|
|  | CHECKED BY: T. ABERNATHY | NOT TO SCALE |  | Poplar Bluff Office Location 2008 N. Westwood BLVD Poplar Bluff, MO 63901 Phone: (513) 316-9300 | HIGH SCHOOL (BUILDING B) | FIGURE 2.0 |
| | E.W.I. # 233907 DRAWN BY: CRR Nov. 27, 2023 | | | | DELTA C-7 SCHOOLS DELTA, MISSOURI | |

| LEGEND | |
|--------|-------------|
| X | SINKS |
| O | FOUNTAINS |
| □ | DISH WASHER |
| △ | ICE MACHINE |



CHECKED BY:
T. ABERNATHY

E.W.I. # 233907
DRAWN BY: CRR
Nov. 27, 2023

NOT TO SCALE



Poplar Bluff Office Location
2008 N. Westwood BLVD
Poplar Bluff, MO 63901
Phone: (513) 316-9300

**HIGH SCHOOL
(BUILDINGS C & D)**

DELTA C-7 SCHOOLS
DELTA, MISSOURI

FIGURE
3.0

APPENDIX B – Building Summary

School District: Delta C-7 School District
 Person Completing Questionnaire: Pamela Robinson

Date: 10/25/2023
 Title: Maintenance

| Building | Address | Original Construction Date | Outlet Count | Any Building Additions? NA If Unknown | | What Was Added | Where Does Water Enter the Building? | Who Provides Water to the Building? |
|--------------------------------|--------------------------------------|----------------------------|--------------|---------------------------------------|------------------|----------------|--------------------------------------|-------------------------------------|
| | | | | Yes/No/NA | Year of Addition | | | |
| Elementary (Building A) | 20 Charger Lane Deering, MO 63840 | 1956 | 8 | No | N/A | N/A | East Side /Middle | Pemiscot County Water District |
| High School (Building B) | 20 Charger Lane Deering, MO 63840 | 1942 | 9 | No | N/A | N/A | North End/West Side | Pemiscot County Water District |
| Gym (Building C) | 20 Charger Lane Deering, MO 63840 | 2002 | 6 | No | N/A | N/A | South End/Middle | Pemiscot County Water District |
| Multipurpose Room (Building D) | 20 Charger Lane Deering, MO 63840 | 1961 | 3 | No | N/A | N/A | East Side / South End | Pemiscot County Water District |
| Total Outlets | 26 | | | | | | | |

APPENDIX C – Outlet Inventory

School District/Building: Building A - Elementary

Date: 10/25/2023

Completing Questionnaire: Pamela Robinson

Title: Superintendent

| Map ID | Program Sample ID (Bldg.-floor-Rm-Outlet- Type-Sample Number) | Outlet Type | Location (Hall, Room #, Etc.) | Specific Location |
|---------------|--|--------------------|--|------------------------------|
| A1 | 01-01-HW-BF-P-001 | Bottle Filler | Hallway | Elementary Building |
| A2 | 01-01-HW-DW-P-002 | Faucet | Hallway | Elementary Building |
| A3 | 01-01-CR-CF-P-003 | Faucet | Nurses Office | Elementary Building |
| A4 | 01-01-CR-CF-P-004 | Faucet | Kindergarten | Elementary Building |
| A5 | 01-01-CAF-IM-P-005 | Ice Machine | Cafeteria | Elementary Building |
| A6 | 01-01-KIT-KF-P-006 | Faucet | Kitchen | Elementary Building |
| A7 | 01-01-KIT-DISH-P-007 | Dishwasher | Kitchen | Elementary Building |
| A8 | 01-01-KIT-KF-P-008 | Faucet | Kitchen | Elementary Building |
| 8 | Total Building Outlets | | | |

School District/Building: Building B - High School
Completing Questionnaire: Pamela Robinson

Date: 10/25/2023
Title: Superintendent

| Map ID | Program Sample ID (Bldg.-floor-Rm-Outlet- Type-Sample Number) | Outlet Type | Location (Hall, Room #, Etc.) | Specific Location |
|----------|---|------------------------|----------------------------------|----------------------|
| B1 | 02-01-HW-BF-P-009 | Fountain Bottle Filler | Hallway | High School Building |
| B2 | 02-01-HW-DW-P-010 | Fountain | Hallway | High School Building |
| B3 | 02-01-HW-DW-P-011 | Fountain | Hallway | High School Building |
| B4 | 02-01-CR-CF-P-012 | Faucet | Facs | High School Building |
| B5 | 02-01-CR-CF-P-013 | Faucet | Facs | High School Building |
| B6 | 02-01-CR-CF-P-014 | Faucet | Facs | High School Building |
| B7 | 02-01-CR-CF-P-015 | Faucet | Facs | High School Building |
| B8 | 02-01-CR-CF-P-016 | Dishwasher | Facs | High School Building |
| B9 | 02-01-OS-OF-P-017 | Faucet | Outside spigot | High School Building |
| 9 | Total Building Outlets | | | |

School District/Building:

Building C - Gym

Date:

10/25/2023

Completing Questionnaire:

Pamela Robinson

Title:

Superintendent

| Map ID | Program Sample ID (Bldg.-floor-Rm-Outlet- Type-Sample Number) | Outlet Type | Location (Hall, Room #, Etc.) | Specific Location |
|----------|---|------------------------|----------------------------------|----------------------|
| C1 | 03-01-HW-DW-P-018 | Fountain | Lobby | Gym Building |
| C2 | 03-01-HW-DW-P-019 | Fountain | Lobby | Gym Building |
| C3 | 03-01-CS-KF-P-020 | Faucet | Concession Stand | Gym Building |
| C4 | 03-01-GYM-DW-P-021 | Fountain | Gym | Gym Building |
| C5 | 03-01-GYM-BF-P-022 | Fountain/Bottle Filler | Gym | Gym Building |
| C6 | 03-01-GYM-DW-P-023 | Fountain | Gym | Gym Building |
| 6 | Total Building Outlets | | | |

School District/Building: Building D - Multipurpose
Completing Questionnaire: Pamela Robinson

Date: 10/25/2023
Title: Superintendent

| Map ID | Program Sample ID (Bldg.-floor-Rm-Outlet-Type- Sample Number) | Outlet Type | Location (Hall, Room #, Etc.) | Specific Location |
|---------------|--|--------------------|--|------------------------------|
| D1 | 04-01-HW-DW-P-024 | Fountain | Foyer | Multipurpose Room |
| D2 | 04-01-CR-CF-P-025 | Faucet | The Pit | Multipurpose Room |
| D3 | 04-01-OS-OF-P-026 | Faucet | Outside Hydrant | Multipurpose Room |
| 3 | Total Building Outlets | | | |