



eriewater.org

Madelyn Groover,
Laboratory Supervisor

Implementing workflow in WIMS Premier for Distribution Sampling for Complete Analysis and Compliance



- **25** Million Gallons of Water Produced Daily
- **65,000** Active Customers
- **780** Miles of Water Main
- **220,000** people consume EWW water daily
- **150** Compliance Distribution Samples Monthly

- **23** Pressure Districts
- **26** Pumping Stations
- **19** Water Storage Facilities
- **76** Million Gallons of Water Storage Capacity

Erie Water Works Organizational Information

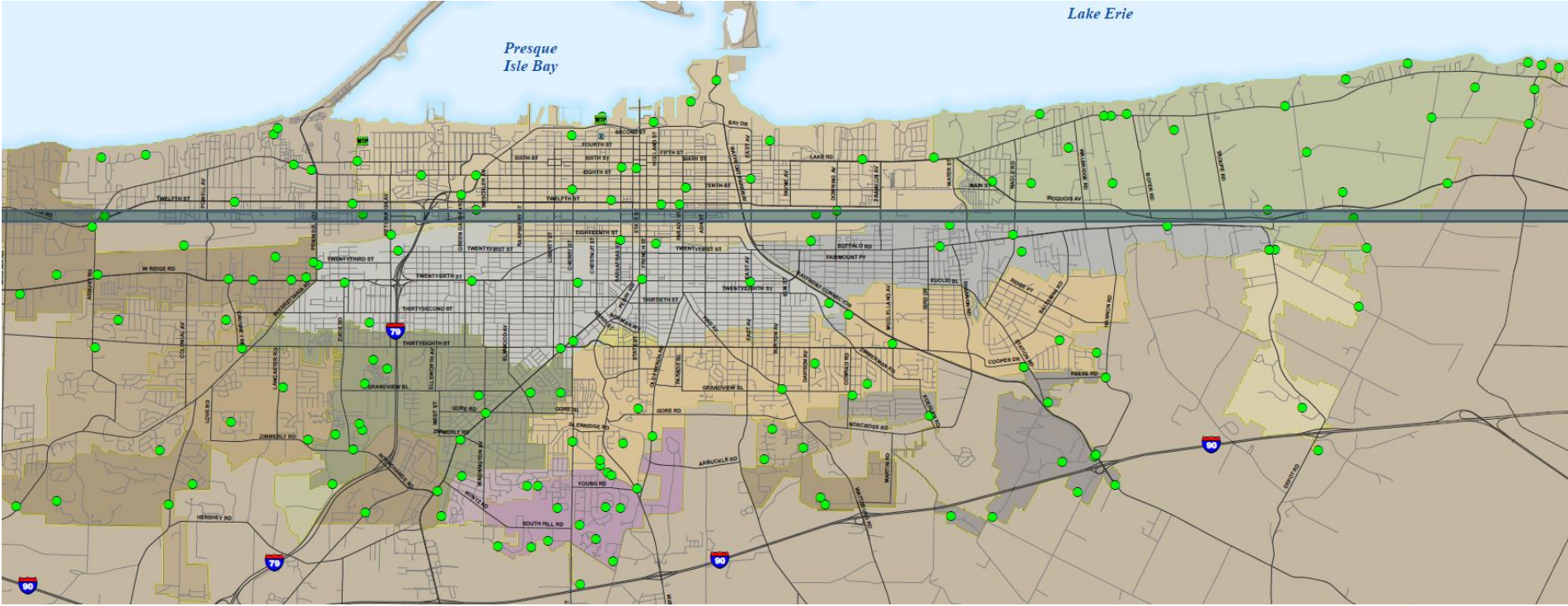
Mission Statement:

To guarantee a continuous, uninterrupted, reasonably priced supply of quality water to its customers, which assures public health, while promoting regional stability and future development.



168 Sampling locations

Pump stations, Tanks, Reservoirs, Outdoor sampling stations (BOSS Units) and businesses



Laboratory



ERIE WATER WORKS LABORATORY

ERIE DISTRIBUTION SYSTEM

ANALYSIS DATE: FEBRUARY 17, 2022

MONTHLY TOTAL: _____ HPC OPERATOR: _____
 DISTRIBUTION (D): 108 INCUBATOR/SHELF: _____
 COMPLAINTS: _____ INCUBATION DATE/TIME IN: _____
 SPECIALS (S): _____ HPC COUNTER: _____
 CHECK SAMPLES (C): _____ INCUBATION DATE/TIME OUT: _____
 OTHER: _____ AGAR CONTROL: _____ MICRO A.D.: _____

COLIFORM OPERATOR: Zimmerman
 INCUBATOR/SHELF: SAE #1 / BOTTOM
 INCUBATION DATE/TIME IN: 02/17/2022 / 08:28
 COLIFORM COUNTER: Zimmerman
 INCUBATION DATE/TIME OUT: 02/17/2022 / 14:13
 COLIFORM METHOD: SM 9223 COLLETT

C = COLOR CHANGE (TOTAL COLIFORM +)
 F = FLUORESCENCE (E. coli +)
 NC = NO COLOR CHANGE (TOTAL COLIFORM -)
 NF = NO FLUORESCENCE (E. coli -)

2-17-22

1	999 1655 W. Bayfront Pk	06 ⁵⁰	1.32	1.47	7.34	17.9	3
2	839 474 W. Lake Rd	07 ²⁰	1.22	1.31	7.47	8.1	3
3	879 2617 W. 26 St	07 ⁴⁶	1.43	1.65	7.39	16.3	3
4	777 3727 Cherry St	08 ⁵⁶	1.25	1.38	7.31	14.9	3
5	820 1925 Zenith Dr	09 ⁴²	1.41	1.54	7.34	3.0	3
6	822 4120 Station Rd	10 ¹⁵	1.89	2.01	7.42	5.2	3
7	802 5601 Buffalo Rd	11 ⁰⁵	1.00	1.21	7.44	8.9	3
8	735 1926 Holland St	11 ⁴⁵	1.21	1.38	7.39	14.0	3
9	788 810 E. East Ave	12 ¹⁰	1.62	1.74	7.20	7.7	3

NO.	ID#	IDENTIFICATION (SAMPLE TYPE)	SAMPLER	COLLECTION		RECEIPT		Free Cl mg/L	Total Cl mg/L	pH	TEMP °C	Turbidity NTU	Observed PO ₄ mg/L	Corrected PO ₄ mg/L	Cl ₂ v	HPC			mLs USED	COLIFORM PER 100 mLs	COMMENTS (SAMPLE WARNED TO °C)	NO.
				DATE	TIME	DATE	TIME									PLATE 1	PLATE 2	Average				
1	999	1655 W. BAYFRONT PKY (D)	R06	02/17/2022	06:50	02/17/2022	12:40	1.32	1.47	7.34	17.9	0.150	0.41	0.67	-	-	-	100	NC NF	(345)	1	
2	839	4701 W. LAKE RD (D)		07:20				1.3	1.22	7.47	8.1	0.152	0.34	0.71	-	-	-	100	NC NF	(346)	2	
3	879	2617 W. 26 ST (D)		07:46				1.3	1.45	7.39	16.3	0.111	0.38	0.78	-	-	-	100	NC NF	(348)	3	
4	777	3727 CHERRY ST (D)		08:56				1.3	1.25	7.31	14.9	0.209	0.49	0.61	-	-	-	100	NC NF	(349)	4	
5	820	1925 ZENITH DR (D)		09:42				1.0	1.41	7.34	3.0	0.129	0.31	0.71	-	-	-	100	NC NF	(349)	5	
6	822	4120 STATION RD (D)		10:15				1.8	1.89	7.42	5.2	0.114	0.82	0.81	-	-	-	100	NC NF	(347)	6	
7	802	5601 BUFFALO RD (D)		11:05				1.4	1.00	7.44	8.9	0.131	0.79	0.79	-	-	-	100	NC NF	(35.0)	7	
8	735	1926 HOLLAND ST (D)		11:45				1.6	1.21	7.39	14.0	0.150	0.81	0.81	-	-	-	100	NC NF	(35.1)	8	
9	788	810 EAST AVE (D)		12:10				2.8	1.62	7.20	7.7	0.221	0.80	0.80	-	-	-	100	NC NF	(35.2)	9	
10		()																100	()	()	10	
11		()																100	()	()	11	
12		()																100	()	()	12	
13		()																100	()	()	13	
14		()																100	()	()	14	
15		()																100	()	()	15	
16		()																100	()	()	16	
17		()																100	()	()	17	
18		()																100	()	()	18	

Sampler: R06
 Date Samples Collected: 2-17-2022

ID	(DEP Code) Sample Location	Sample Type	Time	Free Cl	Total Cl	pH	Temp	Flushed (Gal)
1	999 1655 W. Bayfront Pky	D	06 ⁵⁰	1.32	1.47	7.34	17.9	3
2	839 4701 W. Lake Rd		07 ²⁰	1.22	1.31	7.47	8.1	3
3	879 2617 W. 26 St		07 ⁴⁶	1.43	1.65	7.39	16.3	3
4	777 3727 Cherry St		08 ⁵⁶	1.25	1.38	7.31	14.9	3
5	820 1925 Zenith Dr.		09 ⁴²	1.41	1.54	7.34	3.0	3
6	822 4120 Station Rd		10 ¹⁵	1.89	2.01	7.42	5.2	3
7	802 5601 Buffalo Rd		11 ⁰⁵	1.00	1.21	7.44	8.9	3
8	735 1926 Holland St		11 ⁴⁵	1.21	1.38	7.39	14.0	3
9	788 810 E. East Ave		12 ¹⁰	1.62	1.74	7.20	7.7	3
10								
11								
12								
13								
14								
MK1	805 9231 Edinboro Rd	D	08 ¹⁹	0.57	0.68			3
MK2								

Relinquished by: Ryan Orade
 Date/Time: 2-17-22 / 12:40
 Received by: Baob Zhu
 Date/Time: 02/17/2022 / 12:46

*All Samples used the following consumables
 pH Meter ID: HQ11d 104
 pH Probe ID: PHC101 R1107
 pH Buffer 4.0 : R1092
 pH Buffer 7.0 : R1093
 pH Buffer 10.0 : R1201
 HACH Chlorine Meter: 201
 DPD Free Chlorine : R1189
 DPD Total Chlorine : R1133
 Sample Bottle EWW Lot#: R1210

Manage Item ✖

Revision:

Date:

Time:

Location:

Code:

Reason:

Needs Report:

Chlorine (Free):

pH:

Temp:

Turbidity:

Orth- phosphate:

Coliform:

Alkalinity:

Fluoride:

Chloride:

Notes:



← (842) 6342 Sterrettania Road

🔍 Search Worksheet Column

6 Columns

Wed, 22 May 2024 📅



Last entry Today at 7:57 AM

...\Erie\ (842) 6342 Sterrettania Road May 22, 7:56 AM

Free Chlorine (mg/L)

1.35



Add note 📝

Last: 1.4 on Apr 30 ▾

...\Erie\ (842) 6342 Sterrettania Road May 22, 7:57 AM

pH (su)

7.52



Add note 📝

Last: 7.66 on Apr 30 ▾

...\Erie\ (842) 6342 Sterrettania Road May 22, 7:57 AM

Temperature (°C)

17.8



Add note 📝

Last: 13.9 on Apr 30 ▾



...\Erie\ (842) 6342 Sterrettania Road



12:44

LTE 82%

← (701) 4233 Depot Road

Search Worksheet Column

7 Columns

Tue, 13 Aug 2024  

...ution\Erie\701) 4233 Depot Road Aug 13, 12:44 PM

Free Chlorine (mg/L)

  4.2

Regulatory Limit: >4 (mg/L)

Add note  Last: 1.01 on Aug 12 


RSW Plant\Distribution\Erie\701) 4233 Depot Road

pH (su)

Add note  Last: 8.5 on Aug 12 

RSW Plant\Distribution\Erie\701) 4233 Depot Road









Temperature (°C)

Add note  Last: 21.6 on Aug 12 


RSW Plant\Distribution\Erie\701) 4233 Depot Road

 SAVE



-  Dashboard
-  Spreadsheets
-  Reports
-  Graphs
-  Logbook
-  Operation
-  Users
-  Import data

< August 2024  >

Updated: Aug 22, 5:52 AM [Access management](#)  Export

Daily ▾	RSW Plant \ Distribution \ Erie \ (701) 4233 Depot Road							
	Free Chlorine (mg/L)	pH (su)	Temperature (°C)	Amount Flushed (gal)	Chlorine Analyzer Flow Rate (L/min)	Depot Sink Flow Rate (L/min)	PO ₄ (mg/L)	Turbidity (NTU)
8/1/2024								
8/2/2024								
8/3/2024								
8/4/2024								
8/5/2024	1.04	8.28	22.7					
8/6/2024								
8/7/2024								
8/8/2024								
8/9/2024								
8/10/2024								
8/11/2024								
8/12/2024	1.01	8.5	21.6					
8/13/2024								
8/14/2024								
8/15/2024								
8/16/2024								
8/17/2024								
8/18/2024								
8/19/2024	1.05	8.24	21.7					
8/20/2024								
8/21/2024								
8/22/2024								
Minimum	1.01	8.24	21.6	-	-	-	-	-
Maximum	1.05	8.5	22.7	-	-	-	-	-
Average	1.03333333333333...	8.3400000000...	22	-	-	-	-	-
Sum	3.09999999999999...	25.0200000000...	66	-	-	-	-	-
GeoMean	1.0331927199115...	8.339221154603...	21.9944503908...	-	-	-	-	-

+

+



Erie Water

Wednesday, May 29, 2024

MGROOVER

Data Entry Forms

Erie RTCR Monthly Sample Requirement

Bacteria Samples Completed
140

% Complete
93.33

Calculate Database

Lab Cal

Chain of Custody

Quick Links



SDWA1 WQPs Chestnut

SDWA1 WQPs RSW

RTCR_DRR Erie Entry Form

TTHM Data Entry

Bench Sheets

Chestnut Plant Monthly Data

RSW Plant Monthly Data

RTCR_DRR McKean Entry Form

WQP Data Entry

WIMS_RIO Webpage

Chestnut Plant Sludge

RSW Plant Sludge

Erie RTCR Last Sampled Date

McKean WQP

Chestnut Plant TTHMs

RSW Plant TTHMs

Chlorides Worksheet

Monthly Chlorine Minimum	ppm	Location	Graph
5/21/2024	0.33	(971) 3950 West 20th Street	Quick Trend Graph



ERIE WATER WORKS RSW LABORATORY

Sample Login, Chain of Custody, & RTCR Data Sheet

RJZ 5/23/24
Supervisor's Approval

#	Received Temp C	Sample Location	Sample Type	Sample Date/Time	Tests						
					Free Chlorine	pH	Temp C	Turb NTU	PO4	mLs	Coliform
1	2.9	(861) 1241 Camphausen Aven	D	May 23 2024 7:11AM	0.98	7.6	17.7	0.269	0.74	100	NCNF
2	2.9	(863) 3207 Otto Street	D	May 23 2024 7:35AM	1.05	7.76	17.8	0.375	0.76	100	NCNF
3	3.1	(856) 1024 Bonnie Brae	D	May 23 2024 8:04AM	1.08	7.7	15.8	0.087	0.76	100	NCNF
4	1.5	(755) 5761 Cavaliero Street	D	May 23 2024 8:30AM	1.07	7.71	15	0.157	0.75	100	NCNF
5	2.1	(858) 21 East Drive	D	May 23 2024 9:13AM	0.96	8.1	19.4	0.814	0.81	100	NCNF
6	2.1	(870) 260 Shomont Drive	D	May 23 2024 10:11AM	0.88	7.9	16.2	0.097	0.75	100	NCNF
7	1.2	(891) 1836 Davison Road	D	May 23 2024 10:54AM	0.96	8	14.8	3.58	0.91	100	NCNF
8	10.1	(824) 2132 West 21st Street	D	May 23 2024 11:57AM	1.32	7.75	13.4	0.055	0.61	100	NCNF

Sampler Micro Trace: RCG			Coliform Operator Micro Trace: RJZ		
pH Meter ID: R1339	pH Probe ID: R1204	HACH TL2300: R1334	Colilert EWW Lot: R1466 Colilert Comparator: R1442		
pH Buffer 4.0: R1404	DR300: 201	Phosphate Meter: G	IR Temperature Gun: R1461		
pH Buffer 7.0: R1405	DPD Free Chlorine: R1446	Phosver 3: R1423	Coliform Method: SM 9223 Colilert		
pH Buffer 10.0: R1460	Sample Bottle Lot#: R1308	Relinquished by Sampler: Ryan O'Neale			
Relinquished Date/Time: 5-23-24 / 12"		Received by: Brian O'Connell		Received Date/Time: 05232024 / 12:11	
COLIFORM OPERATOR: Zionka	INCUBATOR: R1331 R1332	COLIFORM COUNTER: Zionka		INCUBATION DATE/TIME OUT: 05242024 / 1331	
INCUBATION DATE/TIME IN: 05232024 / 1249	SHELF: TOP <u>BOTTOM</u>				



Erie Water

Wednesday, May 29, 2024

MGROOVER

Data Entry Forms

Erie RTCR Monthly Sample Requirement

Bacteria Samples Completed
140

% Complete
93.33

Calculate Database

Lab Cal

Chain of Custody

Quick Links



SDWA1 WQPs Chestnut

SDWA1 WQPs RSW

RTCR_DRR Erie Entry Form

TTHM Data Entry

Bench Sheets

Chestnut Plant Monthly Data

RSW Plant Monthly Data

RTCR_DRR McKean Entry Form

WQP Data Entry

WIMS_RIO Webpage

Chestnut Plant Sludge

RSW Plant Sludge

Erie RTCR Last Sampled Date

McKean WQP

Chestnut Plant TTHMs

RSW Plant TTHMs

Chlorides Worksheet

Monthly Chlorine Minimum	ppm	Location	Graph
5/21/2024	0.33	(971) 3950 West 20th Street	Quick Trend Graph



Close/Edit Sample 240522-0023

Close Sample Skip Sample Delete Sample Set as Default Layout

Sample # 240522-0023 Schedule Type One-Time Status **Received** Scheduled Date 05/22/2024 12:00 AM

Sample Name (842) 6342 Sterrettania Rd

Location Distribution System\Distribution\Erie\842) 6342 Sterrettania Road ... Add

Sample Type D Sample Volume

Sampled By Ryan Grode (P) Sample Date/Time 05/22/2024 07:57 AM

Rcvd in Lab By Brian Zilonka (P) Rcvd in Lab Date/Time 05/22/2024 12:05 PM

Assigned To Date Closed 05/29/2024 12:00 AM

Lab

Tests Chain Of Custody Sample Notes Sample Definition Notes Test Notes User Defined Fields Associated

Add Test Delete Test Test History Approve Set/View Picture Calc Additional Info

Variable	Test	Method	Batch #	Result	Units	Analysis Start Date	Analysis Start Time hh:mm AM/PM	Start Analyst	Analysis Date Complete	Analysis Time Complete hh:mm AM/PM	Analyzed By	Volume Analyzed	Result Comments
23361 - (842) 6342 Sterrettania Road Fluorides	Fluorides	SM 4500-F C			mg/L								
23325 - (842) 6342 Sterrettania Road Received Temperature	Received Temperature			1.3	Deg C	05/22/24	12:05 PM	Brian Zilonka	05/22/24	12:05 PM	Brian Zilonka		
23307 - (842) 6342 Sterrettania Road Free Chlorine	Free Chlorine			1.35	mg/L				05/22/24	07:56 AM	Ryan Grode		
23313 - (842) 6342 Sterrettania Road pH	pH			7.52	SU				05/22/24	07:57 AM	Ryan Grode		
23316 - (842) 6342 Sterrettania Road Temperature	Temperature			17.80	Deg C				05/22/24	07:57 AM	Ryan Grode		
23319 - (842) 6342 Sterrettania Road Turbidity	Turbidity			0.0960	NTU				05/22/24	12:53 PM	Ryan Grode		
23322 - (842) 6342 Sterrettania Road Phosphate	Phosphate			0.73	mg/L				05/22/24	12:53 PM	Ryan Grode		
23332 - (842) 6342 Sterrettania Road RSW Incubator Location	Incubator Location			R1331 TOP		05/22/24	12:55 PM	Brian Zilonka	05/22/24	12:55 PM	Brian Zilonka		
23334 - (842) 6342 Sterrettania Road Total Coliform	Total Coliform	331		NC		05/22/24	12:55 PM	Brian Zilonka	05/23/24	02:06 PM	Brian Zilonka	100 ml	
23337 - (842) 6342 Sterrettania Road E Coli	E Coli	331		NF		05/22/24	12:55 PM	Brian Zilonka	05/23/24	02:06 PM	Brian Zilonka	100 ml	



Sample # Schedule Type Status Due Scheduled Date

Sample Name

Location

Sample Type Sample Volume

Sampled By Sample Date/Time

Rcvd in Lab By Rcvd in Lab Date/Time

Assigned To Date Closed

Lab

Tests Chain Of Custody Sample Notes Sample Definition Notes Test Notes User Defined Fields Associated Samples Accounting

Variable	Test	Method	Batch #	Result	Units	Analysis Start Date	Analysis Start Time hh:mm AM/PM	Start Analyst	Analysis Date Complete	Analysis Time Complete hh:mm AM/PM	Analyzed By	Volume Analyzed	Result Comments
6925 - (701) 4233 Depot Road Received Temperature	Received Temperature				Deg C								
6907 - (701) 4233 Depot Road Free Chlorine	Free Chlorine			4.20	mg/L				08/13/24	12:44 PM	Madelyn Groover		
6913 - (701) 4233 Depot Road pH	pH				SU								
6916 - (701) 4233 Depot Road Temperature	Temperature				Deg C								
6919 - (701) 4233 Depot Road Turbidity	Turbidity				NTU								
6922 - (701) 4233 Depot Road Phosphate	Phosphate				mg/L								
6932 - (701) 4233 Depot Road RSW/ Incubator Loc.	Incubator Location												
6934 - (701) 4233 Depot Road Total Coliform	Total Coliform	331											
6937 - (701) 4233 Depot Road E Coli	E Coli	331											

REPORT TYPES: TRIGGER, LAST VALUE, AND TASK



PWSID	ContamCode	Method	Result	Anal_Date	Location	Samp_Date	Samp_Type	Samptime	Lab_ID	SampleID	Filterid
6250028	1013	301	2.10	050124	992	050124	D	0757	25066		
6250028	1013	301	1.43	050124	963	050124	D	1157	25066		
6250028	1013	301	1.43	050124	934	050124	D	0648	25066		
6250028	1013	301	1.14	050124	844	050124	D	1044	25066		
6250028	1013	301	1.36	050124	841	050124	D	0821	25066		
6250028	1013	301	1.47	050124	839	050124	D	0709	25066		
6250028	1013	301	1.36	050124	838	050124	D	0741	25066		
6250028	1013	301	1.27	050124	829	050124	D	1020	25066		
6250028	1013	301	1.15	050124	812	050124	D	1006	25066		
6250028	1013	301	1.68	050124	811	050124	D	0939	25066		
6250028	1013	301	0.61	050124	804	050124	D	0635	25066		
6250028	1013	301	1.58	050124	710	050124	D	0852	25066		
6250028	1013	301	1.33	050224	834	050224	D	0708	25066		
6250028	1013	301	1.31	050224	833	050224	D	0655	25066		
6250028	1013	301	1.51	050224	814	050224	D	1126	25066		
6250028	1013	301	1.21	050224	806	050224	D	0834	25066		
6250028	1013	301	0.81	050224	968	050224	D	1047	25066		
6250028	1013	301	1.57	050224	967	050224	D	1058	25066		
6250028	1013	301	1.51	050224	943	050224	D	1234	25066		
6250028	1013	301	1.16	050224	932	050224	D	1208	25066		
6250028	1013	301	1.35	050224	847	050224	D	0738	25066		
6250028	1013	301	1.34	050224	843	050224	D	0924	25066		
6250028	1013	301	1.38	050224	840	050224	D	0757	25066		
6250028	1013	301	1.11	050224	837	050224	D	0816	25066		
6250028	1013	301	0.47	050624	907	050624	D	0633	25066		
6250028	1013	301	1.38	050624	853	050624	D	0903	25066		
6250028	1013	301	0.49	050624	851	050624	D	0658	25066		
6250028	1013	301	1.27	050624	850	050624	D	0644	25066		
6250028	1013	301	0.55	050624	849	050624	D	0622	25066		
6250028	1013	301	1.55	050624	824	050624	D	0849	25066		
6250028	1013	301	1.34	050624	813	050624	D	1124	25066		
6250028	1013	301	1.50	050624	812	050624	D	1012	25066		
6250028	1013	301	1.50	050624	985	050624	D	1138	25066		
6250028	1013	301	1.38	050624	972	050624	D	0916	25066		
6250028	1013	301	1.25	050624	957	050624	D	1102	25066		
6250028	1013	301	1.07	050624	909	050624	D	1218	25066		
6250028	1013	301	1.45	050724	752	050724	D	0806	25066		
6250028	1013	301	1.14	050724	748	050724	D	0738	25066		
6250028	1013	301	1.47	050724	707	050724	D	0840	25066		
6250028	1013	301	1.65	050724	706	050724	D	1154	25066		



Reply Reply All Forward



Wed 5/22/2024 3:02 PM

WIMS@eriewaterworks.org

Daily Distribution Chlorines

To Elizabeth Romero; Andrew Whelpley; Andy Zhuang; Stephen Rossette; Adam Franz; Arthur Schwindt; Bill Williams; Brian Zilonka; Chad Francis; James Lynch; ssanders@eri
William Claxton; Justin Hatcher; Madelyn Groover; Mark Murray; Richard Imler; Ryan Grode; Thomas Brown; wcox@eriewaterworks.org; William Pfister; Mike Perry; Wesley

We removed extra line breaks from this message.

Daily Distribution Chlorines.pdf
13 KB

Chlorine Residual	Location	Pressure District	Sample Date
1.85	(793) 6001 Knowledge Parkway	Station Road	052224
1.12	(841) 4037 Westbury Ridge	Asbury Tank Booster	052224
1.35	(842) 6342 Sterrettania Road	Echo Hills	052224
1.29	(853) 2445 West 34th Street	High Service	052224
1.23	(854) 202 Dunn Boulevard	Low Service	052224
1.42	(884) 3921 Davison Avenue	East Booster	052224
0.45	(907) 125 Oregon Avenue	Low Service	052224
0.36	(908) 1429 Davison Road	East Lake	052224
1.55	(967) 1326 Ponderosa Drive	South Booster	052224



Reply Reply All Forward

Thu 7/11/2024 4:02 PM



WIMS@eriewaterworks.org

McKean DRR Sample Needs Taken

To Madelyn Groover; Richard Imler; Ryan Grode; [Brian Zilonka](#); Bill Williams

We removed extra line breaks from this message.



SDWA1 RTCR & DRR Mckean.pdf
5 KB

**** This email has been received from outside the organization – Think before clicking on links, opening attachments, or responding. ****

The attached Hach WIMS Spread Report was generated by GNR Server on 2024-07-11 16:01:21 Date Range of the report : 2024-07-05 to 2024-07-11 23:59:59 Facility : Erie Water (OPSPAERIE)
Requested by : VIA_SCHEDULER (2024-07-11 16:01:02)

Generated by :
WIMS 8.1.8 build 20230613 [Multi User, English (United States) [en-US], Microsoft SQL Server Express]

=====
Do not reply to this email as it was generated by an automated service.
Thank you for using Hach WIMS. For more information, please visit <http://www.hachwims.com>



eriewater.org

ERIE WATER WORKS

Spread Report View - Erie RTRC Site Sampling Checklist



< Year To Date >

D34 ... =DSORT(15134,1,"DD","Short Date","Y",1)

	A	B	C	D	E	F	G	H
1								
2	ID	Site Location (Distribution and Check Samples)		Date Last				
3		#	Street and Description	Sampled				
4	701	4233	Depot Road (Tank)	8/5/2024				
5	702	5470	Kuhl Road (Tank)	8/5/2024				
6	703	5416	East Lake Road (Bravillier Village)	7/16/2024				
7	704	326	Mooreheadville (BOSS)	8/7/2024				
8	705	4120	Station Road (Pump Station Discharge)	7/18/2024				
9	706	2220	Depot Road (Pump Station Discharge)	8/7/2024				
10	707	3600	Page Street (Johnson Pump Station)	8/6/2024				
11	708	7901	Cherry Street Extension (South Tank)	7/29/2024				
12	709	3608	West 26th Street (Municipal Building)	5/13/2024				
13	710	6014	Grubb Road (Pump Station)	7/18/2024				
14	711	1927	Wager Road (Conservatory)	6/19/2024				
15	733	606	West 2nd Street (Erie County Health)	4/15/2024				
16	735	1926	Holland Street (Municipal Garage)	1/24/2024				
17	742	4334	Buffalo Road (Perkins)	4/11/2024				
18	745	2565	West 12th Street (Tim Hortons)	4/15/2024				
19	746	5700	Knowledge Parkway (Sample Station)	7/24/2024				
20	747	1901	Camphausen Avenue (Pump Station)	8/1/2024				
21	748	5532	Niemeyer Road (BOSS)	7/25/2024				
22	750	1901	Wager Road (Tank)	7/17/2024				
23	752	5748	Evans Road (BOSS)	7/18/2024				
24	755	5761	Cavaliero Street (BOSS)	7/17/2024				
25	757	130	Parkview Drive (BOSS)	7/16/2024				
26	759	1180	Janes Lane (Sample Station)	6/13/2024				
27	763	5207	Old French Road (BOSS)	6/27/2024				
28	765	5859	Clinton Street (BOSS)	7/18/2024				
29	766	2880	Alexandra Drive (Sample Station)	8/8/2024				
30	774	5008	Peach Street (Country Fair)	4/4/2024				
31	777	3727	Cherry Street (YMCA)	4/23/2024				
32	784	2101	Nagle Street (YMCA)	4/30/2024				
33	786	209	East 12th Street (Tim Hortons)	4/4/2024				
34	787	160	East Front Street (Blasco Library)					
35	788	810	East Avenue (Country Fair)	4/23/2024				
36	792	5086	Station Road (University Gate Rental Office)	7/23/2024				
37	793	6001	Knowledge Parkway (GetGo)	5/28/2024				
38	794	4526	Pine Avenue (Country Fair)	4/24/2024				
39	795	2266	East 38th Street (Country Fair)	4/11/2024				
40	798	3116	West 26th Street (Country Fair)	4/11/2024				
41	802	5601	Buffalo Road (Municipal Building)	4/4/2024				
42	803	3050	West Lake Road (Laundromat)	4/17/2024				



Quarterly Erie Distribution WQP Samples PWSID:6250028

DEP ID#	Location	Sample Date	Alkalinity ppm	Calcium Hardness ppm	TDS ppm	Conductivity µS	Ortho-phosphate ppm	pH SU	Temperature °C	Langeliens Index
701	4233 Depot Road (Tank)	5/13/2024	89.9	82.4	212.2	320.4	0.54	8.20	15.60	-0.0
702	5470 Kuhl Road (Tank)	5/13/2024	88.6	81.6	210.0	317.3	0.54	8.04	12.90	-0.3
703	5416 East Lake Road (Bravillier)	5/13/2024	92.8	84.2	199.1	301.9	0.50	7.92	16.80	-0.3
704	326 Mooreheadville Road (BOSS)	5/13/2024	90.3	87.2	210.5	318.1	0.52	8.42	13.60	0.2
705	4120 Station Road (Pump)	5/13/2024	90.7	84.6	203.2	307.6	0.61	7.70	12.60	-0.6
706	2220 Depot Road (Pump)	4/10/2024	91.7	88.6	211.4	319.4	0.67	7.99	10.90	-0.3
707	3600 Page Street (Johnson)	6/11/2024	89.7	80.0	194.7	295.8	0.68	7.89	17.70	-0.3
708	7901 Cherry Street Ext. (Tank)	5/13/2024	88.2	83.0	209.4	316.5	0.42	7.95	12.80	-0.3
709	3608 W 26th Street (Municipal Bld)	5/13/2024	89.1	83.6	201.2	304.8	0.46	7.68	16.80	-0.5
710	6014 Grubb Road (Pump)	6/11/2024	89.9	82.6	200.2	303.5	0.85	8.01	16.60	-0.2
711	1927 Wager Road (Conservatory)	5/13/2024	90.2	85.2	209.2	316.2	0.50	8.07	16.20	-0.1
807	2602 Sigsbee Street (Pump)	4/10/2024	91.2	88.0	207.5	313.9	0.71	7.63	13.40	-0.6
811	1530 High Street (West Tank)	4/10/2024	92.3	88.8	208.7	315.7	0.62	7.60	9.80	-0.7
812	709 West Grandview Blvd (Cherry)	4/10/2024	96.7	96.0	218.9	329.9	0.68	6.77	8.40	-1.5
820	1925 Zenith Drive (East Tank)	4/10/2024	91.8	88.8	206.6	312.6	0.62	7.68	10.70	-0.6
824	2132 W 21st ST (Kinney)	4/10/2024	92.1	86.6	207.5	313.9	0.67	7.61	11.00	-0.7
835	4501 Lancaster (Tank)	6/11/2024	90.2	85.8	202.1	306.4	0.81	8.00	17.90	-0.2
838	4001 Asbury (Tank)	6/11/2024	90.0	83.0	192.3	292.5	0.73	7.86	18.70	-0.3
842	6342 Sterrettania Road (Tank)	6/11/2024	89.2	81.8	195.2	296.5	0.77	7.88	16.10	-0.3
845	5901 Peach (Pump)	4/10/2024	91.8	86.0	209.5	316.8	0.65	7.70	9.90	-0.6
882	5301 Henderson (Pump)	6/11/2024	90.1	84.4	201.2	305.0	0.84	8.12	16.40	-0.1
900	240 West 12th (EWW)	6/11/2024	90.3	82.4	190.5	289.8	0.81	7.87	20.10	-0.3
934	4646 West 12th Street (Country Fair)	6/11/2024	89.6	84.4	189.1	287.7	0.82	7.76	18.60	-0.4
981	7728 Belle Road (BOSS)	6/11/2024	91.6	83.2	200.7	304.4	0.84	8.12	16.40	-0.1
992	6102 Echo Hill (Pump Station)	4/10/2024	91.5	86.4	209.3	316.4	0.78	7.63	9.60	-0.7

Quarterly McKean Distribution WQP Samples PWSID:6250096

DEP ID#	Location	Sample Date	Alkalinity ppm	Calcium Hardness ppm	TDS ppm	Conductivity µS	Ortho-phosphate ppm	pH SU	Temperature °C	Langeliens Index
701	9003 Main Street Suite 3	5/6/2024	89.2	82.6	212.6	321.1	0.68	8.14	19.70	-0.0
702	5260 Countryside Drive (BOSS)	5/6/2024	89.6	85.2	211.3	319.3	0.98	8.22	12.70	-0.1



BATCH

New Prep Open Save Print Set Status Save as Template Add Sample/Test Batch Remove Sample/Test Batch Move Up Move Down Clear Cells Approve Data Add Info Tools Save Batch & Calc Vars

Blank Standard Dup Spike Spike Dup Other QC

QC Tests

Analytical Batch # **B240628-01** Name **Fluorides** Notes TISAB: R1378
 SLOPE: 55.0
 2.0 ppm STD: R1471
 1.2 ppm STD: R1431
 1.0 ppm STD: R1425

Batch Start Date: 06/28/2024 03:30 PM Start Analyst: Bill Williams
 Batch End Date: 06/28/2024 04:30 PM End Analyst: Bill Williams

Test Info

Sample Loc: Input Var:
 Sample Date: QC Calc Var:
 QC Type:
 Standard Value:

Sample #	Sample Name	Test	Method	Result	Units	QC Calc	Analysis Start Date	Analysis Start Time hh:mm AM/PM	Start Analyst	Analysis Date Complete	Analysis Time Complete hh:mm AM/PM	Analyzed By	
1	QC	2.00	Fluorides	SM 4500-F C	2.050	ppm	2.49999999999999	06/28/24	03:30 PM	Bill Williams	06/28/24	03:33 PM	Bill Williams
2	QC	1.00	Fluorides	SM 4500-F C	1.010	ppm	1 % Rec	06/28/24	03:30 PM	Bill Williams	06/28/24	03:33 PM	Bill Williams
3	QC	0.2	Fluorides	SM 4500-F C	0.185	ppm	-7.50000000000000	06/28/24	03:30 PM	Bill Williams	06/28/24	03:33 PM	Bill Williams
4	QC	Blank	Fluorides	SM 4500-F C	0.0093	ppm	0.01	06/28/24	03:30 PM	Bill Williams	06/28/24	03:33 PM	Bill Williams
5	240628-0002	RSW Raw Water Laboratory	Fluorides	SM 4500-F C	0.107	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:34 PM	Bill Williams
6	240615-0002	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.527	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:34 PM	Bill Williams
7	240616-0002	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.520	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:34 PM	Bill Williams
8	240617-0004	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.476	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:35 PM	Bill Williams
9	240618-0003	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.451	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:35 PM	Bill Williams
10	240619-0003	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.545	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:35 PM	Bill Williams
11	240620-0004	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.529	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:36 PM	Bill Williams
12	240621-0003	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.514	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:36 PM	Bill Williams
13	240622-0002	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.551	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:36 PM	Bill Williams
14	240623-0002	RSW Finished Water Laboratory	Fluorides	SM 4500-F C	0.488	mg/L		06/28/24	03:30 PM	Bill Williams	06/28/24	03:36 PM	Bill Williams
15	QC	2.00	Fluorides	SM 4500-F C	2.030	ppm	1.49999999999999	06/28/24	03:30 PM	Bill Williams	06/28/24	03:37 PM	Bill Williams
16	QC	1.20	Fluorides	SM 4500-F C	1.220	ppm	1.66666666666666	06/28/24	03:30 PM	Bill Williams	06/28/24	03:37 PM	Bill Williams



Fluorides

TISAB: R1378
 SLOPE: 55.0
 2.0 ppm STD: R1471
 1.2 ppm STD: R1431
 1.0 ppm STD: R1425
 0.5 ppm STD: R1400

Sample Name	Date	Result
2.00		2.05
1.00		1.01
0.2		0.185
Blank		0.0093
RSW Raw Water Laboratory	6/28/2024 5:05:00 AM	0.107
RSW Finished Water Laboratory	6/15/2024 8:10:00 AM	0.527
RSW Finished Water Laboratory	6/16/2024 8:45:00 AM	0.52
RSW Finished Water Laboratory	6/17/2024 5:15:00 AM	0.476
RSW Finished Water Laboratory	6/18/2024 5:10:00 AM	0.451
RSW Finished Water Laboratory	6/19/2024 5:15:00 AM	0.545
RSW Finished Water Laboratory	6/20/2024 5:15:00 AM	0.529
RSW Finished Water Laboratory	6/21/2024 5:10:00 AM	0.514
RSW Finished Water Laboratory	6/22/2024 8:05:00 AM	0.551
RSW Finished Water Laboratory	6/23/2024 8:00:00 AM	0.488
2.00		2.03
1.20		1.22
RSW Finished Water Laboratory	6/24/2024 5:08:00 AM	0.476
RSW Finished Water Laboratory	6/25/2024 5:15:00 AM	0.476
RSW Finished Water Laboratory	6/26/2024 5:20:00 AM	0.518
RSW Finished Water Laboratory	6/27/2024 5:15:00 AM	0.62
RSW Finished Water Laboratory	6/28/2024 5:15:00 AM	0.486
(807) 2602 Sigsbee St	6/17/2024 9:09:00 AM	0.538
(750) 1901 Wager Rd	6/17/2024 9:53:00 AM	0.522
(708) 7901 Cherry St Extension	6/18/2024 11:16:00 AM	0.538
(702) 5470 Kuhl Rd	6/24/2024 11:25:00 AM	0.49
(818) 6502 Iroquois Ave	6/25/2024 7:39:00 AM	0.505
(818) 6502 Iroquois Ave	6/25/2024 7:39:00 AM	0.505
Spike (240627-0004)		1.69
Duplicate (240624-0062)		0.501
2.00		2.05
1.20		1.22
0.5		0.527
Blank		0.0098





Questions?

mgroover@eriewaterworks.org



eriewater.org