

F.W. Kent Park Lake Water Testing Procedure

April 26, 2021

Weekly F.W. Kent Park Lake Watershed Testing under Normal Conditions beginning on Monday of each week we will be testing.

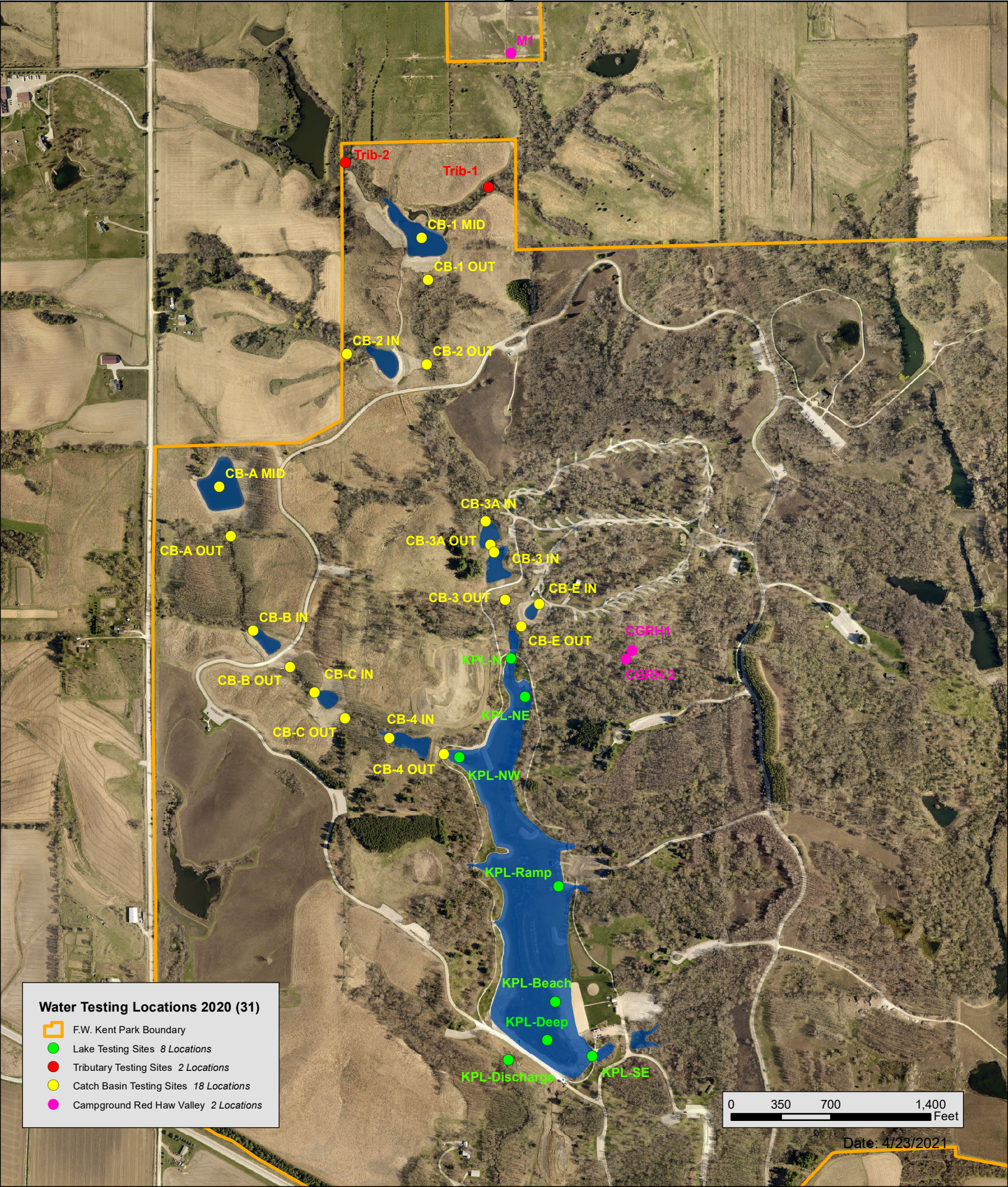
- **All normal parameters at 31 locations.**
- **E. coli bacteria at the following locations.**
 - **Trib-1**
 - **Trib-2**
 - **Outflow of CB-1**
 - **M-1**
 - **CGRH-1**
 - **CGRH-2**
 - **Beach: Once a week on Wednesday or Thursday.**

F.W. Kent Park Lake Watershed Testing after Rainfall Events

After a 1.25" Rainfall event or greater we will be conducting water testing at:

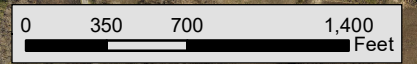
- **All normal parameters at 31 locations.**
- **E. coli bacteria at the following locations.**
 - **Trib-1**
 - **Trib-2**
 - **Outflow of CB-3**
 - **M-1**
 - **CGRH-1**
 - **CGRH-2**

F.W. Kent Park Water Testing Sites 2021



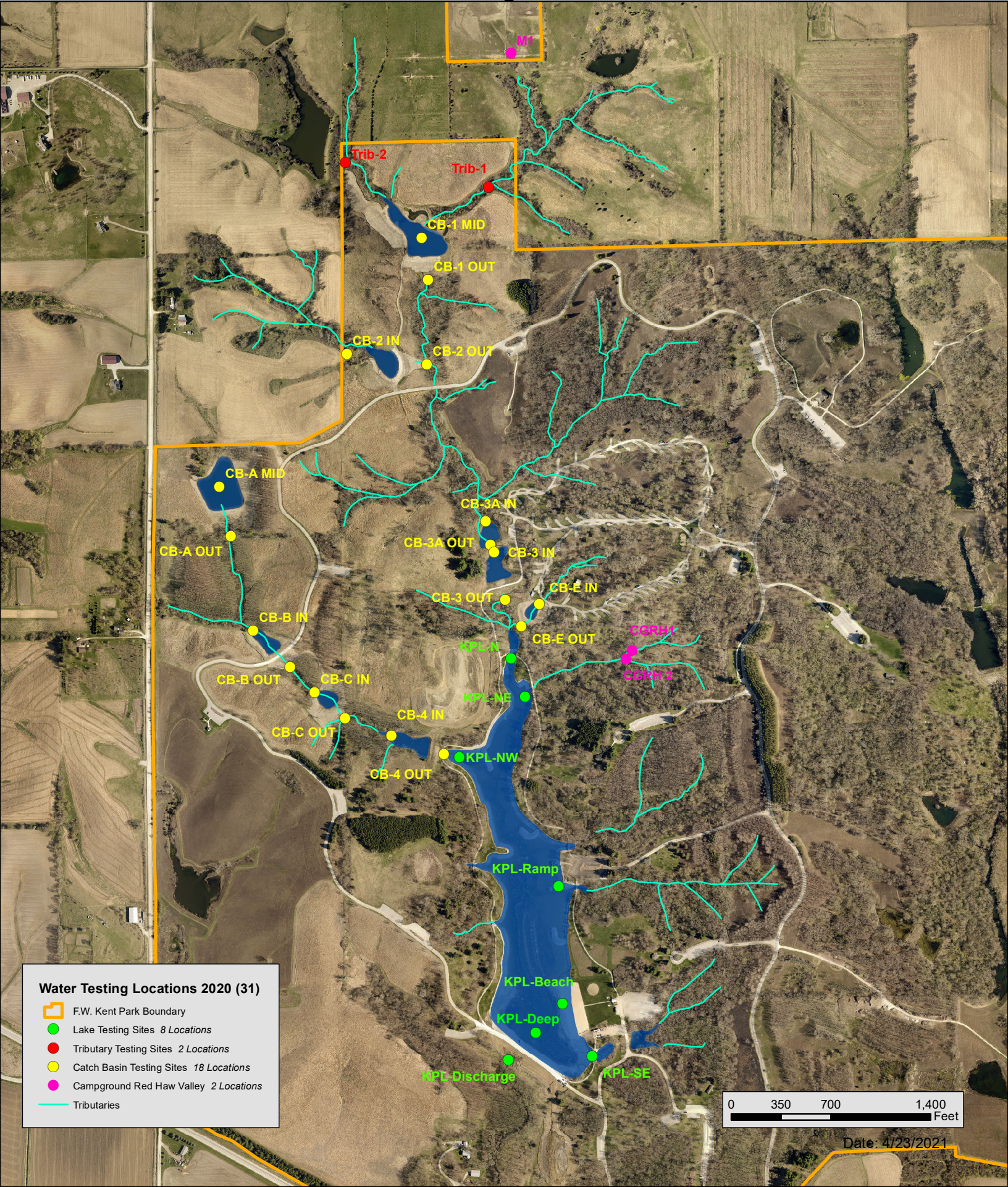
Water Testing Locations 2020 (31)

-  F.W. Kent Park Boundary
-  Lake Testing Sites 8 Locations
-  Tributary Testing Sites 2 Locations
-  Catch Basin Testing Sites 18 Locations
-  Campground Red Haw Valley 2 Locations



Date: 4/23/2021

F.W. Kent Park Water Testing Sites 2021



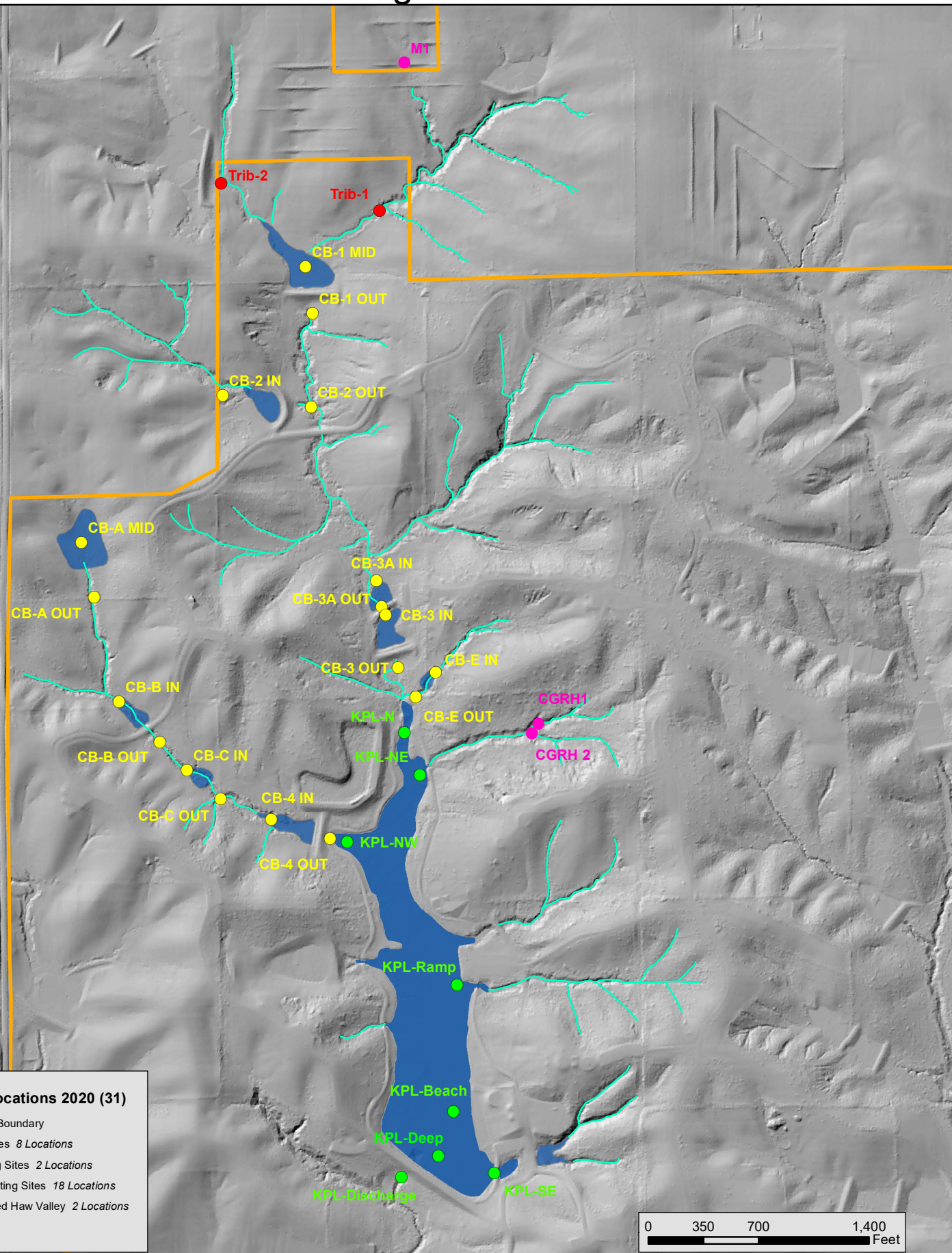
Water Testing Locations 2020 (31)

- F.W. Kent Park Boundary
- Lake Testing Sites 8 Locations
- Tributary Testing Sites 2 Locations
- Catch Basin Testing Sites 18 Locations
- Campground Red Haw Valley 2 Locations
- Tributaries



Date: 4/23/2021

F.W. Kent Park Water Testing Sites 2021



Water Testing Locations 2020 (31)

-  F.W. Kent Park Boundary
-  Lake Testing Sites 8 Locations
-  Tributary Testing Sites 2 Locations
-  Catch Basin Testing Sites 18 Locations
-  Campground Red Haw Valley 2 Locations
-  Tributaries



F.W. Kent Park Lake Water Quality Results				Proposed State Standards											
				> 5 mg/L	> 1M	6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L					
7/26/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Secchi (M)	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud Cover	Wind Speed (mph)	Daily Temp (°F)
KPL-N	8:15 AM	27.7	81.86	9.07	2.09	8.06	0	0	0.07	70	0.1	0	Sunny	SW @ 5-10	72
KPL-NE	8:25 AM	28.1	82.58	10.38	1.95	8.86	0	0	0.05	50	0.2	0	Sunny	SW @ 5-10	72
KPL-NW	8:39 AM	28.2	82.76	10.12	2.27	8.88	0	0	0.04	40	0.2	0	Sunny	SW @ 5-10	72
KPL-Ramp	9:25 AM	28.7	83.66	4.24	1.15	8.85	0	0	0.03	30	0.1	0	Sunny	SW @ 5-10	72
KPL- Beach	9:12 AM	28.4	83.12	8.78	1.68	8.86	0	0	0.05	50	0.1	0	Sunny	SW @ 5-10	72
KPL- SE	9:04 AM	28.4	83.12	7.25	2.12	8.68	0	0	0.05	50	0.1	0	Sunny	SW @ 5-10	72
KPL-Deep	8:56 AM	28.5	83.3	10.11	2.16	8.92	0	0	0.04	40	0.1	0	Sunny	SW @ 5-10	72
KPL-Outflow	No Flowing Water For Sampling														

Main Stem Drainage Water Quality Results				Proposed State Standards												
				> 5 mg/L	> 1M	6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L						
7/26/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud	Cover	Wind Speed (mph)	Daily Temp (°F)
M-1	11:15 AM	26.6	79.88	3.54	3	7.16	0	0	3.3	3300.00	2	0	Sunny		SW @ 5-10	84
Trib-1	1:04 PM	25.1	77.18	5.46	> 62	8.09	10	0	0.59	590.00	0.2	0	Sunny		SW @ 5-10	84
Trib-2	12:42 PM	26	78.8	3.25	> 62	7.48	0	0	0.35	350	0.2	0	Sunny		SW @ 5-10	84
CB-1 Mid	12:51 PM	30.4	86.72	9.29	> 62	9.92	0	0	0.24	240	0.2	0	Sunny		SW @ 5-10	84
CB-1 Out	No Flowing Water For Sampling															
CB-2 In	1:32 PM	22.5	72.5	6.38	> 62	8.05	0	0	0.73	730.00	0.2	0	Sunny		SW @ 5-10	84
CB-2 Out	No Flowing Water For Sampling															
CB-3A In	1:52 PM	31.5	88.7	10.57	> 62	9.05	0	0	0.19	190.00	0.2	0	Sunny		SW @ 5-10	84
CB-3A Out	1:57 PM	31.5	88.7	8.86	> 62	8.75	0	0	0.14	140.00	0.2	0	Sunny		SW @ 5-10	84
CB-3 In	2:01 PM	30.7	87.26	8.79	> 62	9.14	0	0	0.14	140.00	0.2	0	Sunny		SW @ 5-10	84
CB-3 Out	2:15 PM	22.5	72.5	4.31	26	7.27	0	0	0.52	520.00	0.3	0	Sunny		SW @ 5-10	84
CB-E In	2:28 PM	29.1	84.38	7.78	> 62	8.73	0	0	0.13	130.00	0.2	0	Sunny		SW @ 5-10	84
CB-E Out	No Flowing Water For Sampling															

Campground - Red Haw Valley Water Quality Results				Proposed State Standards												
				> 5 mg/L	> 1M	6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L						
7/26/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud	Cover	Wind Speed (mph)	Daily Temp (°F)
CGRH - 1	10:45 AM	21.3	70.34	7.04	17	7.86	1	0	0.95	950.00	0.3	0	Sunny		SW @ 5-10	82
CGRH - 2	No Flowing Water For Sampling															

Northwest Drainage Water Quality Results				Proposed State Standards												
				> 5 mg/L	> 1M	6.5 - 9	Total < 0.9 mg/L		< .035 mg/L	< 35 µg/L						
7/27/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (mg/L)	Phosphate (µg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud	Cover	Wind Speed (mph)	Daily Temp (°F)
CB-A MID	8:00 AM	27.6	81.68	6.12	> 62	8.7	0	0	0.33	330	0.1	0	Sunny		SW @ 5-10	70
CB-A Out	No Flowing Water For Sampling															
CB-B In	8:51 AM	25.7	78.26	3.76	> 62	7.49	0	0	0.22	220.00	0.2	0	Sunny		SW @ 5-10	70
CB-B Out	9:12 AM	23.4	74.12	3.93	35	7.52	0	0	1.14	1140.00	1	0	Sunny		SW @ 5-10	70
CB-C In	9:36 AM	26	78.8	3.02	> 62	7.35	0	0	0.36	360.00	0.3	0	Sunny		SW @ 5-10	70
CB-C Out	10:07 AM	24.2	75.56	3.33	48	7.45	0	0	0.47	470.00	0.6	0	Sunny		SW @ 5-10	70
CB-4 In	10:30 AM	24.4	75.92	3.03	35	7.47	0	0	0.44	440.00	0.2	0	Sunny		SW @ 5-10	70
CB-4 Out	11:10 AM	23.1	73.58	1.55	> 62	6.99	0	0	0.59	590.00	2	0	Sunny		SW @ 5-10	70



Collection Location beach	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1772797
OXFORD,	Collected 2021-07-28 07:36	Received 2021-07-28 10:00	Project
Report To	LARRY GULLET/BLAKE HARRIS JOHNSON CO CONSERVATION BOARD		Sample Description surface water
	2048 HWY 6 NW OXFORD, IA 52322		Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT ([MPN]/100mL)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>E.coli</i> Bacteria, SM 9223 B E.coli	<10.	10	

SAMPLE AND ANALYSIS NOTES

1. Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. <i>E.coli</i> Bacteria, SM 9223 B	2021-07-28 11:54 TCL, DJO	3200	2021-07-29 08:31 CLL	

DESCRIPTION OF UNITS

[MPN]/100mL = Most Probable Number per 100 Milliliters

SITE(S) PERFORMING TESTING

3200 STATE HYGIENIC LABORATORY CORALVILLE, UNIVERSITY OF IOWA RESEARCH PK, 2490 CROSSPARK RD, CORALVILLE, IA 52241; Phone 319/335-4500; Fax 319/335-4555; Michael D. Schueller, M.S., Associate Director; Wade K. Aldous, Ph.D. (D)ABMM, Associate Director; IOWA ENVIRONMENTAL LAB ID #027

The result(s) of this report relate only to the items analyzed. Where the laboratory has not been responsible for the sampling stage the results apply only to the sample as received. This report shall not be reproduced except in full without the written approval of the laboratory. If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500.



Collection Location cgrh-1	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1772798
OXFORD,	Collected 2021-07-28 08:42	Received 2021-07-28 10:00	Project
Report To	LARRY GULLET/BLAKE HARRIS JOHNSON CO CONSERVATION BOARD 2048 HWY 6 NW OXFORD, IA 52322		Sample Description surface water
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT ([MPN]/100mL)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>E.coli</i> Bacteria, SM 9223 B E.coli	1500	10	

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ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. <i>E.coli</i> Bacteria, SM 9223 B	2021-07-28 11:54 TCL, DJO	3200	2021-07-29 08:31 CLL	

DESCRIPTION OF UNITS

[MPN]/100mL = Most Probable Number per 100 Milliliters

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Collection Location trib-1	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1772799
OXFORD,	Collected 2021-07-28 08:58	Received 2021-07-28 10:00	Project
Report To	LARRY GULLET/BLAKE HARRIS JOHNSON CO CONSERVATION BOARD 2048 HWY 6 NW OXFORD, IA 52322		Sample Description surface water
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT ([MPN]/100mL)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>E.coli</i> Bacteria, SM 9223 B E.coli	17000	10	

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ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. E.coli Bacteria, SM 9223 B	2021-07-28 11:54 TCL, DJO	3200	2021-07-29 08:31 CLL	

DESCRIPTION OF UNITS

[MPN]/100mL = Most Probable Number per 100 Milliliters

SITE(S) PERFORMING TESTING

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Collection Location trib-2	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1772800
OXFORD,	Collected 2021-07-28 09:03	Received 2021-07-28 10:00	Project
Report To	LARRY GULLET/BLAKE HARRIS JOHNSON CO CONSERVATION BOARD 2048 HWY 6 NW OXFORD, IA 52322		Sample Description surface water
			Sample Type Non-Drinking Water
			Sample Source
			Sample Note(s) 1

RESULTS OF ANALYSIS - FINAL REPORT

<u>TEST</u>	<u>RESULT ([MPN]/100mL)</u>	<u>QUANT LIMIT</u>	<u>ANALYSIS NOTE(S)</u>
<i>E.coli</i> Bacteria, SM 9223 B E.coli	400	10	

SAMPLE AND ANALYSIS NOTES

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ANALYSIS INFORMATION

<u>TEST</u>	<u>ANALYZED</u>	<u>SITE</u>	<u>RELEASED</u>	<u>ANALYSIS PREP</u>
1. E.coli Bacteria, SM 9223 B	2021-07-28 11:54 TCL, DJO	3200	2021-07-29 08:31 CLL	

DESCRIPTION OF UNITS

[MPN]/100mL = Most Probable Number per 100 Milliliters

SITE(S) PERFORMING TESTING

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