

## **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.**

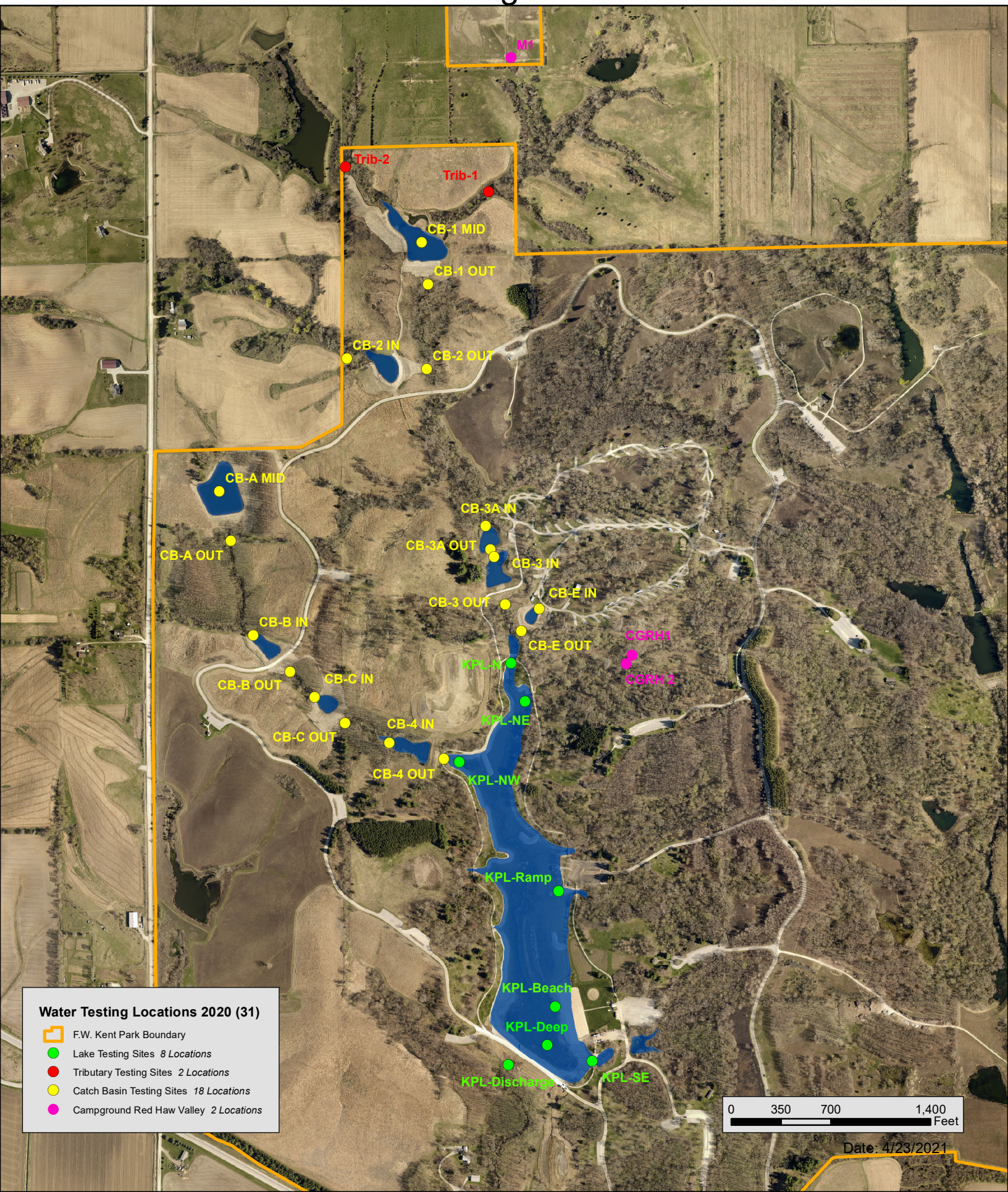
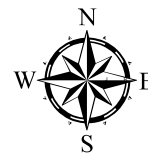
- **All normal parameters at 31 locations.**
- **E. coli bacteria at the following locations.**
  - **Trib-1**
  - **Trib-2**
  - **Outflow of CB-1**
  - **M-1**
  - **CGRH-1**
  - **CGRH-2**
  - **Beach: Once a week on Wednesday or Thursday.**

### **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

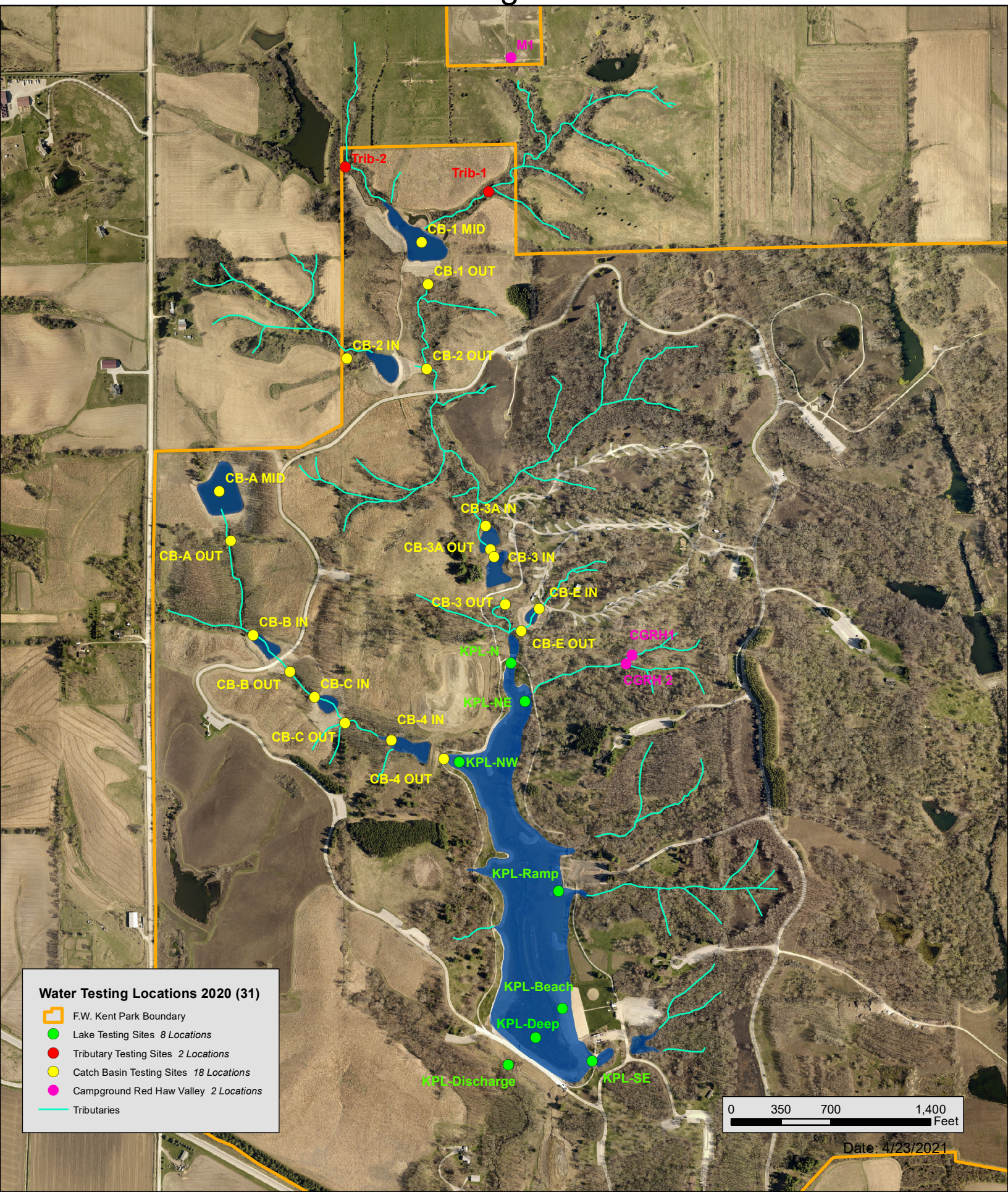
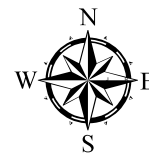


## Water Testing Locations 2020 (31)

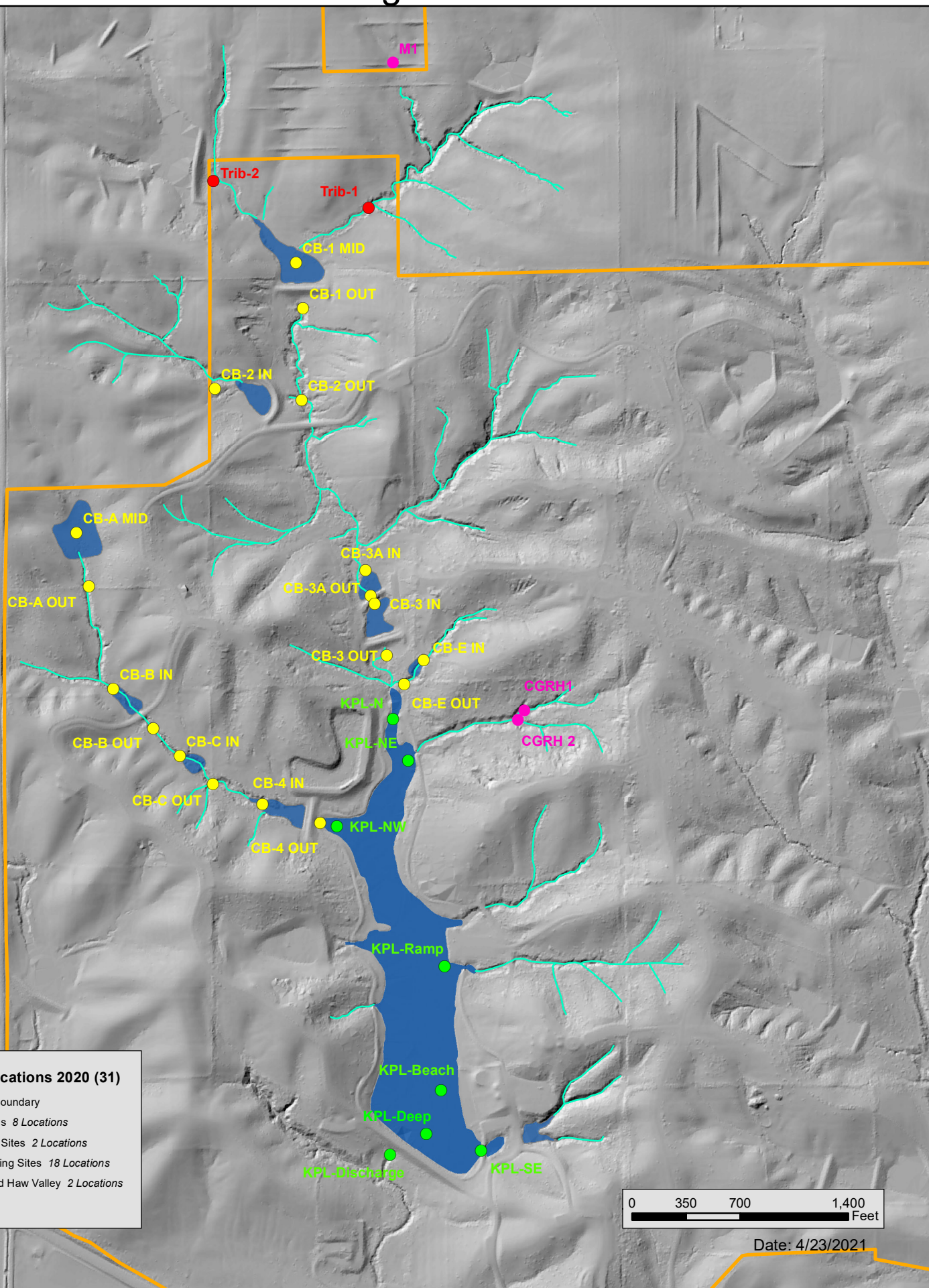
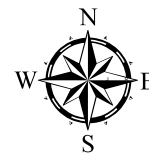
-  F.W. Kent Park Boundary
-  Lake Testing Sites 8 Locations
-  Tributary Testing Sites 2 Locations
-  Catch Basin Testing Sites 18 Locations
-  Campground Red Haw Valley 2 Locations

0 350 700 1,400  
Feet

Date: 4/23/2021



# F.W. Kent Park Water Testing Sites 2021



F.W. Kent Park Lake Water Quality Results				Proposed State Standards											
				> 5 mg/L	> 1M	6.5 - 9	< 0.9 mg/L	< 0.9 mg/L	< .035 µg/L	< 35 mg/L					
7/19/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Secchi (M)	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (µg/L)	Phosphate (mg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud Cover	Wind Speed (mph)	Daily Temp (°F)
KPL-N	8:16 AM	25.6	78.08	8.63	1.87	8.63	0	0	0.08	80	0.0	0	Sunny	NE @ 0-5	68
KPL-NE	9:36 PM	25.9	78.62	9.02	1.56	8.94	0	0	0.07	70	0.1	0	Sunny	NE @ 0-5	68
KPL-NW	8:38 AM	26	78.8	9.46	1.73	8.86	0	0	0.11	110	0.1	0	Sunny	NE @ 0-5	68
KPL-Ramp	11:31 AM	26.4	79.52	9.02	1.54	8.82	0	0	0.15	150	0.1	0	Sunny	NE @ 0-5	68
KPL- Beach	9:14 AM	26.5	79.7	8.83	1.74	8.9	0	0	0.16	160	0.1	0	Sunny	NE @ 0-5	68
KPL- SE	9:07 AM	26.2	79.16	8.92	1.79	8.95	0	0	0.08	80	0.1	0	Sunny	NE @ 0-5	68
KPL-Deep	8:54 AM	26.4	79.52	8.76	1.76	8.9	0	0	0.1	100	0.1	0	Sunny	NE @ 0-5	68
KPL-Outflow	12:31 PM	28.8	83.84	5.67	> 62	8.44	0	0	0.44	440	0.2	0	Sunny	NE @ 0-5	82

Main Stem Drainage Water Quality Results				Proposed State Standards												
				> 5 mg/L		6.5 - 9	< 0.9 mg/L	< 0.9 mg/L	< .035 µg/L	< 35 mg/L						
7/19/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (µg/L)	Phosphate (mg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud	Cover	Wind Speed (mph)	Daily Temp (°F)
M-1	11:20 AM	26.4	79.52	2.6	5	7.09	0	0	3.3	3300.00	2	0	Partly Sunny		NE @ 0-5	82
Trib-1	1:22 PM	24.6	76.28	5.03	50	8.08	5	0	0.65	650.00	0.6	0	Partly Sunny		NE @ 0-5	82
Trib-2	12:56 PM	27.5	81.5	4.41	>62	9.05	0	0	0.23	230.00	0.2	0	Partly Sunny		NE @ 0-5	82
CB-1 Mid	1:02 PM	32.3	90.14	9.57	57	10.9	0	0	0.17	170	0.2	0	Partly Sunny		NE @ 0-5	82
CB-1 Out	1:42 PM	24.3	75.74	4.38	>62	7.22	0	0	0.7	700.00	0	0	Partly Sunny		NE @ 0-5	82
CB-2 In	12:49 PM	22	71.6	6.13	>62	7.95	0	0	0.5	500.00	0.3	0	Partly Sunny		NE @ 0-5	82
CB-2 Out	1:59 PM	24	75.2	5.13	26	7.58	0	0	1.16	1160.00	1	0	Partly Sunny		NE @ 0-5	82
CB-3A In	2:15 PM	30.5	86.9	9.11	>62	9.26	0	0	0.27	270.00	0.4	0	Partly Sunny		NE @ 0-5	82
CB-3A Out	2:21 PM	30.9	87.62	7.26	>62	9.04	0	0	0.18	180.00	0.2	0	Partly Sunny		NE @ 0-5	82
CB-3 In	2:24 PM	30.5	86.9	8.56	>62	9.49	0	0	0.16	160.00	0.2	0	Partly Sunny		NE @ 0-5	82
CB-3 Out	2:31 PM	23.8	74.84	4.05	>62	7.51	0	0	0.29	290	0.6	0	Partly Sunny		NE @ 0-5	82
CB-E In	2:43 PM	29.6	85.28	8.74	>62	8.99	0	0	0.14	140.00	0.2	0	Partly Sunny		NE @ 0-5	82
CB-E Out	No Flowing Water For Sampling															



Northwest Drainage Water Quality Results				Proposed State Standards												
				> 5 mg/L		6.5 - 9	< 0.9 mg/L	< 0.9 mg/L	< .035 µg/L	< 35 mg/L						
7/20/2021	Time	Temp (°C)	Temp (°F)	D.O. (mg/L)	Transparency Tube	pH	Nitrate (mg/L)	Nitrite (mg/L)	Phosphate (µg/L)	Phosphate (mg/L)	Ammonia (mg/L)	24-Hour Rainfall (in)	Cloud	Cover	Wind Speed (mph)	Daily Temp (°F)
CB-A MID	8:30 AM	26.5	79.7	6.01	>62	8.62	0	0	0.14	140	0.2	0	Sunny		NNW @ 5-10	70
CB-A Out	No Flowing Water For Sampling															
CB-B In	9:15 AM	26.1	78.98	4	>62	7.57	0	0	0.22	220.00	0.2	0	Sunny		NNW @ 5-10	70
CB-B Out	9:30 AM	22.7	72.86	4.05	>62	7.41	0	0	0.65	650.00	0.8	0	Sunny		NNW @ 5-10	70
CB-C In	9:55 AM	25	77	3.68	>62	7.43	0	0	0.35	350.00	0.8	0	Sunny		NNW @ 5-10	70
CB-C Out	10:10 AM	22.7	72.86	3.33	>62	7.44	0	0	0.35	350.00	0.8	0	Sunny		NNW @ 5-10	70
CB-4 In	10:38 AM	25.1	77.18	6.82	32	8.66	0	0	0.17	170.00	0.2	0	Sunny		NNW @ 5-10	70
CB-4 Out	11:15 AM	22.3	72.14	3.88	>62	7.2	0	0	0.51	510.00	0.8	0	Sunny		NNW @ 5-10	70

Collection Location beach	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1764477
	Collected 2021-07-21 07:42	Received 2021-07-21 11:04	Project
Report To	LARRY GULLETT/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 <b>E.coli</b>	<b>20.</b>	<b>10</b>	

**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	2021-07-21 11:56 MMK, JAS	3200	2021-07-22 12:07 JAS	

**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 cgrh1  OXFORD,	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1764478
	Collected 2021-07-21 09:36	Received 2021-07-21 11:04	Project
Report To	LARRY GULLETT/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

TEST	RESULT ([MPN]/100mL)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>E.coli</i> Bacteria, SM 9223 B <b>E.coli</b>	<b>&gt;24000</b>	<b>10</b>	

## SAMPLE AND ANALYSIS NOTES

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## ANALYSIS INFORMATION

TEST	ANALYZED	SITE	RELEASED	ANALYSIS PREP
1. <i>E.coli</i> Bacteria, SM 9223 B	2021-07-21 11:56 MMK, JAS	3200	2021-07-22 12:07 JAS	

## DESCRIPTION OF UNITS

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

## SITE(S) PERFORMING TESTING

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Collection Location trib 1  OXFORD,	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1764479
	Collected 2021-07-21 09:49	Received 2021-07-21 11:04	Project
Report To	LARRY GULLETT/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 <b>E.coli</b>	<b>4600</b>	<b>10</b>	

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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	2021-07-21 11:56 MMK, JAS	3200	2021-07-22 12:07 JAS	

**DESCRIPTION OF UNITS**

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

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Collection Location trib 2  OXFORD,	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1764480
	Collected 2021-07-21 09:55	Received 2021-07-21 11:04	Project
Report To	LARRY GULLETT/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

TEST	RESULT ([MPN]/100mL)	QUANT LIMIT	ANALYSIS NOTE(S)
<i>E.coli</i> Bacteria, SM 9223 B <b>E.coli</b>	<b>910</b>	<b>10</b>	

## SAMPLE AND ANALYSIS NOTES

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## ANALYSIS INFORMATION

TEST	ANALYZED	SITE	RELEASED	ANALYSIS PREP
1. <i>E.coli</i> Bacteria, SM 9223 B	2021-07-21 11:56 MMK, JAS	3200	2021-07-22 12:07 JAS	

## DESCRIPTION OF UNITS

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

## SITE(S) PERFORMING TESTING

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Collection Location cb1 out	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1764481
	Collected 2021-07-21 10:06	Received 2021-07-21 11:04	Project
Report To	LARRY GULLETT/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 <b>E.coli</b>	<b>280</b>	<b>10</b>	

**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. <i>E.coli</i> Bacteria, SM 9223 B	2021-07-21 11:56 MMK, JAS	3200	2021-07-22 12:07 JAS	

**DESCRIPTION OF UNITS**

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

**SITE(S) PERFORMING TESTING**

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Collection Location m1	Collector and Phone gullett larry 319/331-7347	Client Reference larry gullett	Accession # 1764482
	Collected 2021-07-21 10:40	Received 2021-07-21 11:04	Project
Report To	LARRY GULLETT/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 <b>E.coli</b>	<b>250</b>	<b>10</b>	

**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. <i>E.coli</i> Bacteria, SM 9223 B	2021-07-21 11:56 MMK, JAS	3200	2021-07-22 12:07 JAS	

**DESCRIPTION OF UNITS**

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

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