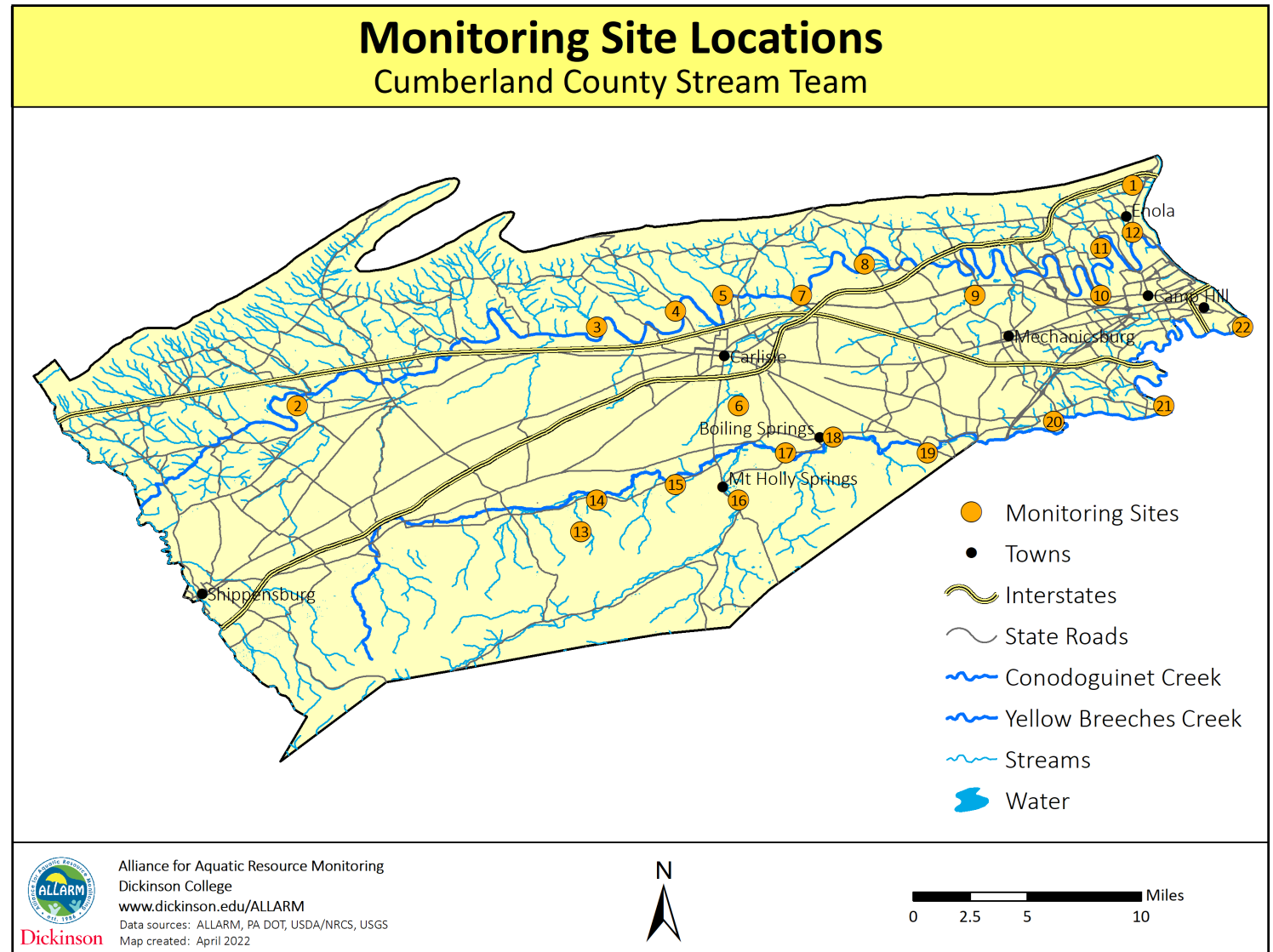


Cumberland County Stream Team Data Interpretation Workbook



Site Locations

Map #	Site ID
1	UNIRUN0.64
2	GRESPCRE0.16
3	OPOCRE0.19
4	CONCRE39.03
5	CONCRE35.82
6	UNTLETSPRRUN0.65
7	CONCRE32.47
8	CONCRE27.96
9	HOGRUN0.98
10	UNTCONCRE 8.8
11	CONCRE6.09
12	CONCRE1.85
13	UNTYELBRECRE 1.25
14	YELBRECRE40.75
15	YELBRECRE36.90
16	MOUCRE2.65
17	YELBRECRE34.93
18	YELBRECRE32.32
19	YELBRECRE 23.6
20	YELBRECRE17.65
21	YELBRECRE13.63
22	YELBRECRE0.85



University Run

Site Profile

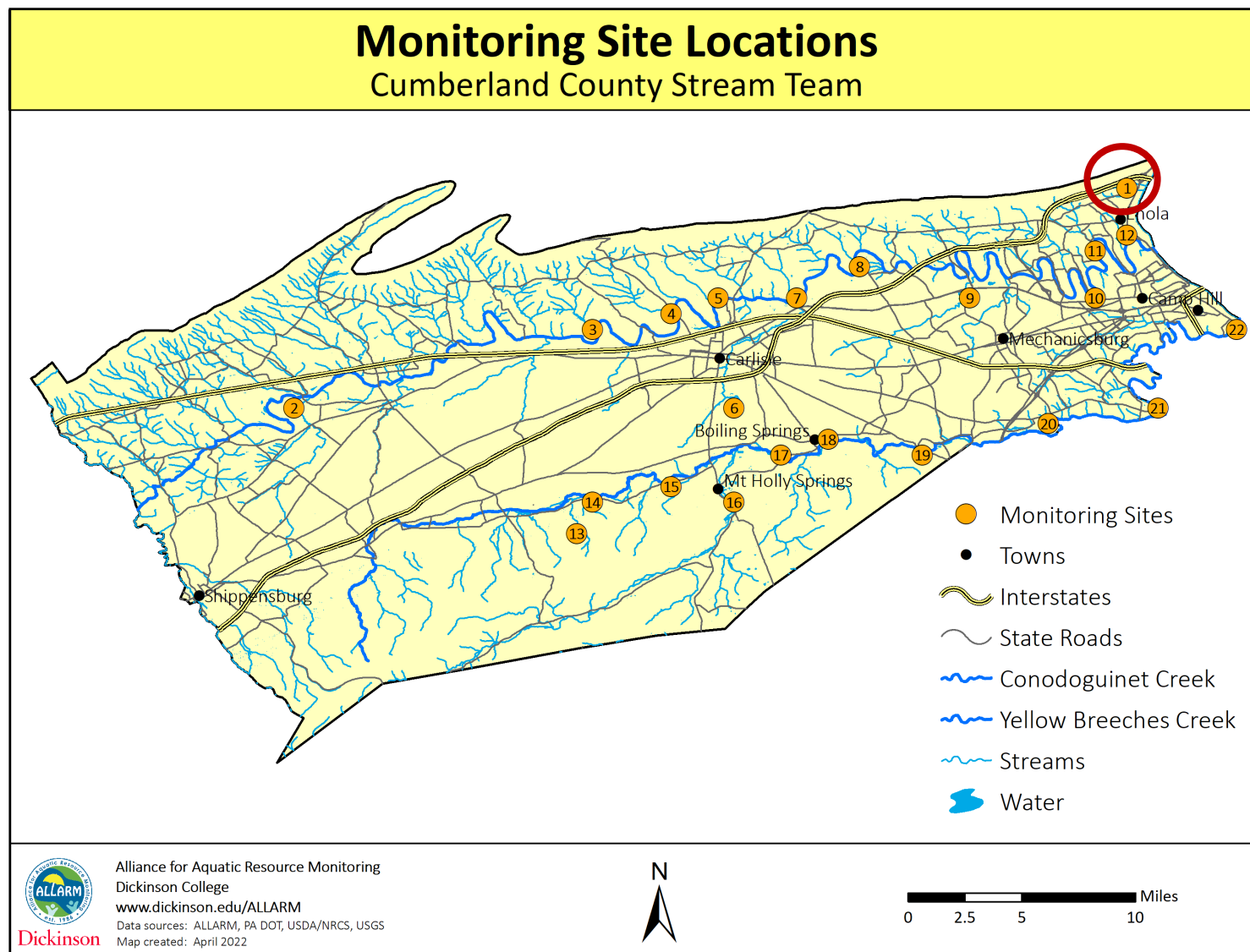
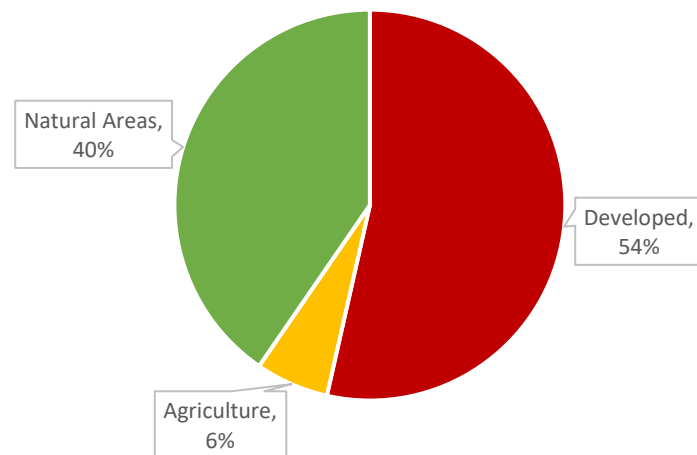
University Run (UNIRUN 0.64)

Monitor(s): Heather McKay

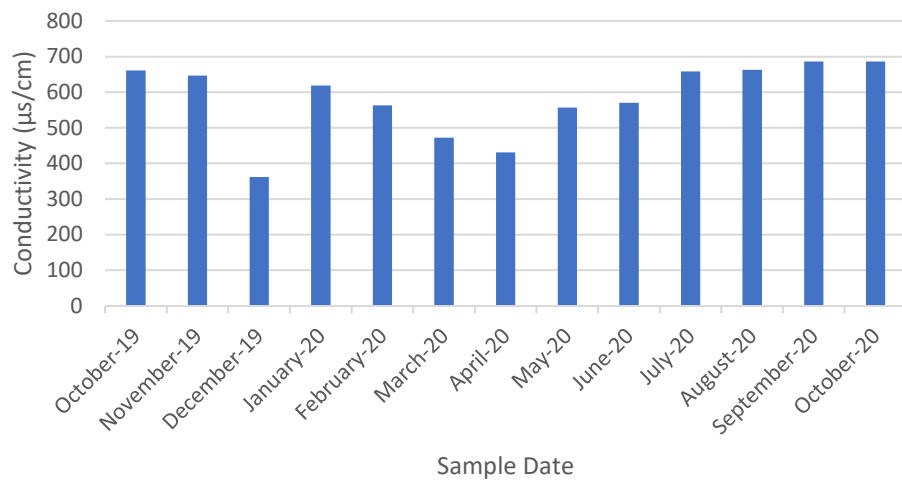
Site information:

- Drains: 2 mi²
- Impaired: Yes, aquatic life
- Designation: Warm water fishes (WWF)
- Geology: Shale

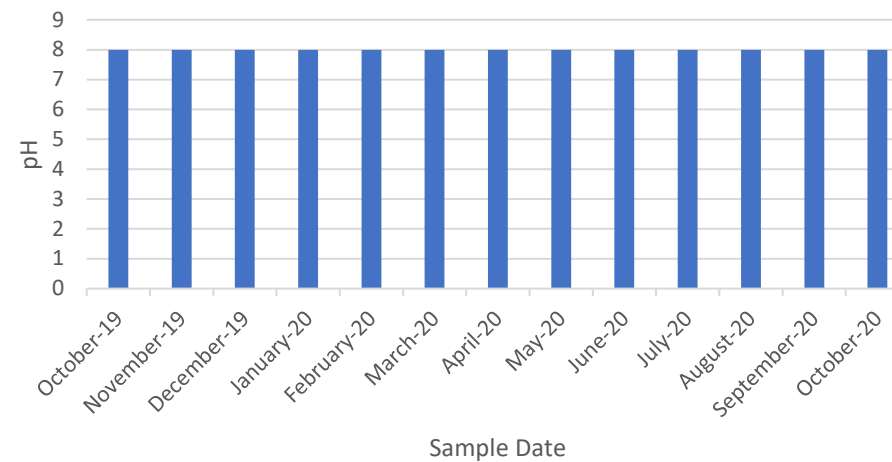
UNIRUN 0.64
Land Use



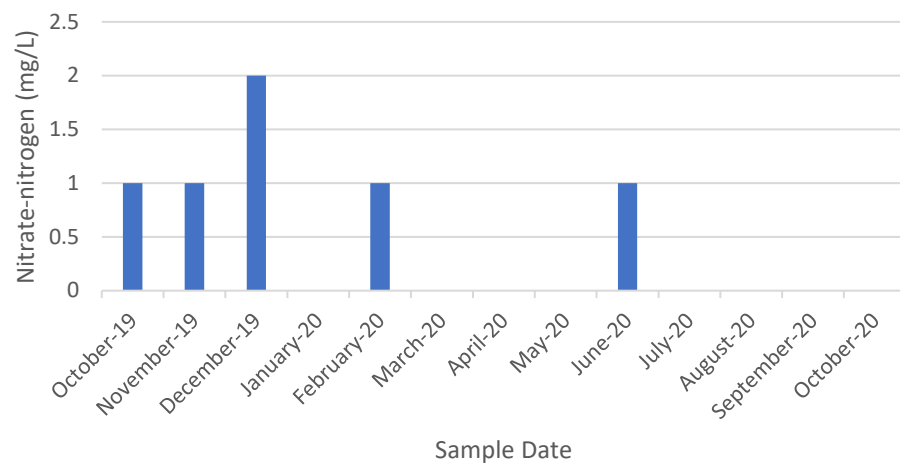
UNIRUN0.64 Conductivity



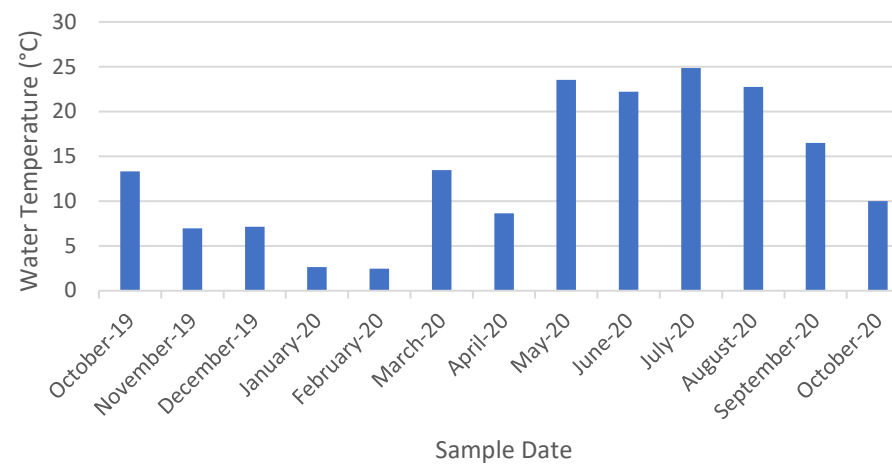
UNIRUN0.64 pH



UNIRUN0.64 Nitrate



UNIRUN0.64 Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
10/18/2019	661	1	8	13.3
11/17/2019	647	1	8	7.0
12/14/2019	362	2	8	7.2
1/16/2020	619	0	8	2.7
2/23/2020	563	1	8	2.5
3/20/2020	472	0	8	13.5
4/17/2020	431	0	8	8.7
5/24/2020	557	0	8	23.6
6/21/2020	570	1	8	22.2
7/19/2020	658	0	8	24.9
8/23/2020	663	0	8	22.8
9/18/2020	686	0	8	16.5
10/17/2020	686	0	8	10

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	362	0	8	2.5
Max	686	2	8	24.9
Median	619	0	8	13.3

Conodoguinet Creek

Site Profiles

Green Spring Creek (GRESPRCRE 0.16)

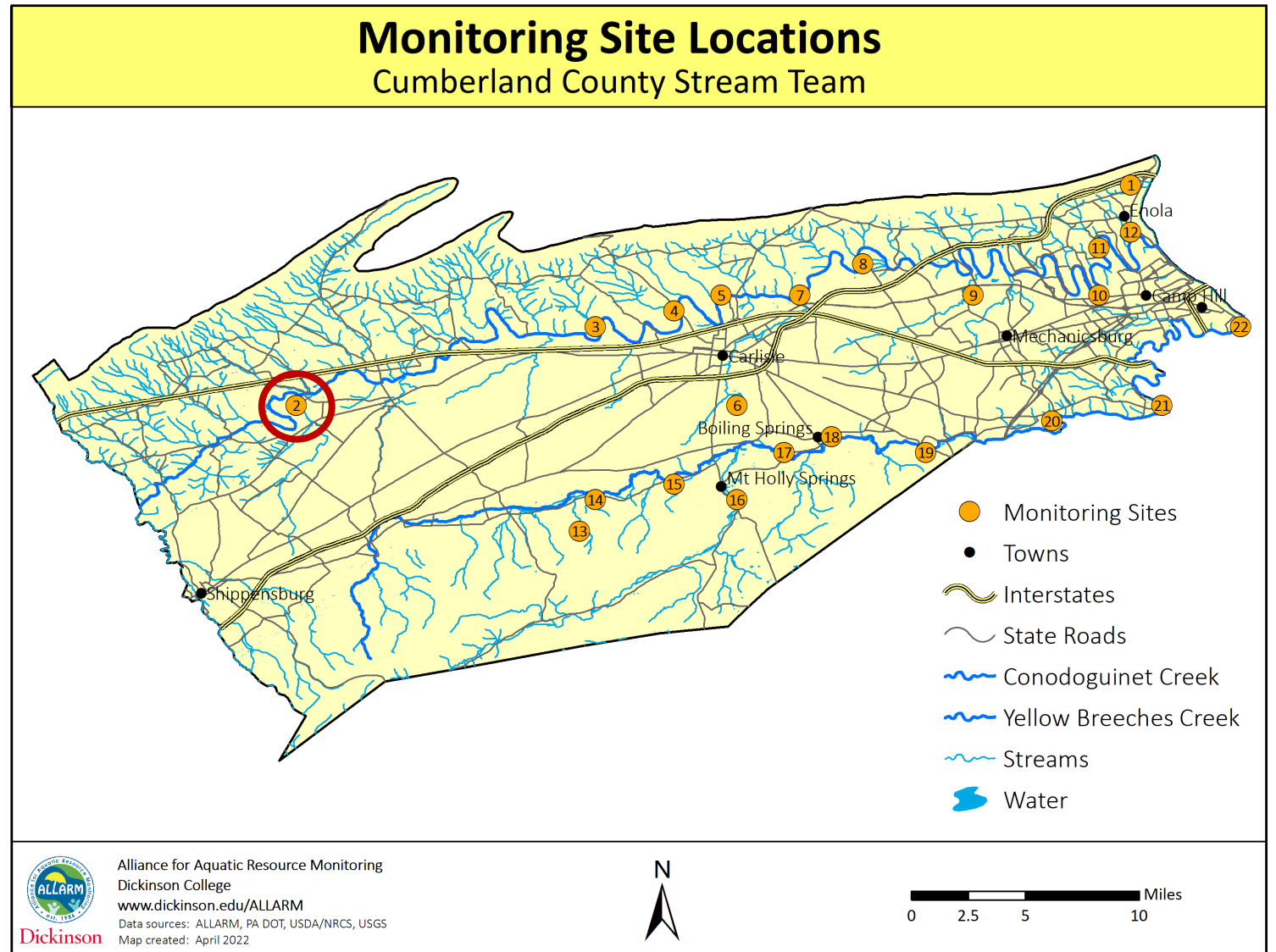
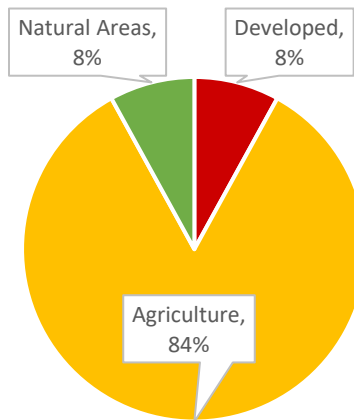
Monitor(s): Don Albright

Site information:

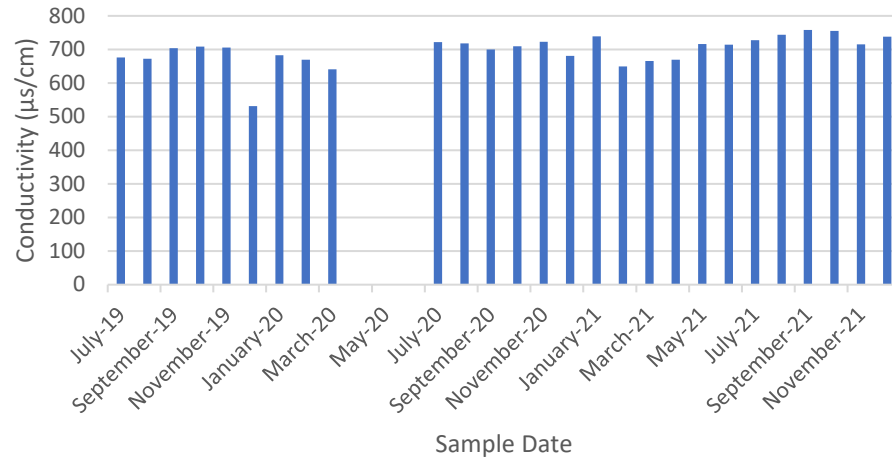
- Drains: 27 mi²
- Impaired: Recreational pathogens
- Designation: Warm water fishes (WWF)
- Geology: Calcareous

GRESPRCRE 0.16

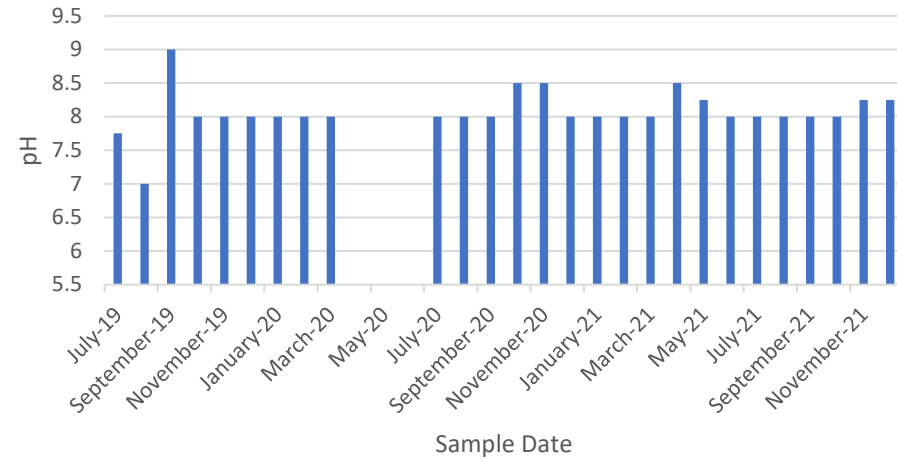
Land Use



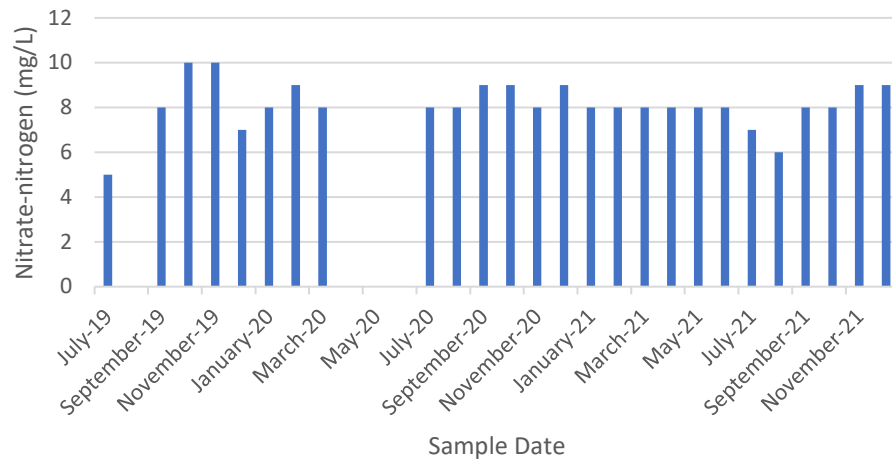
GRESPRCRE 0.16-Conductivity



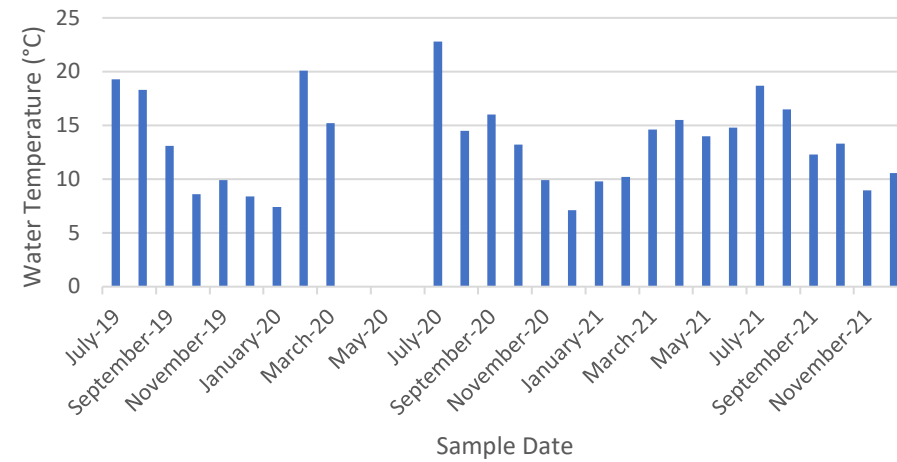
GRESPRCRE 0.16-pH



GRESPRCRE 0.16-Nitrate-nitrogen



GRESPRCRE 0.16-Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
7/21/2019	676	5	7.75	19.3
8/18/2019	672		7	18.3
9/23/2019	704	8	9	13.1
10/19/2019	709	10	8	8.6
11/18/2019	706	10	8	9.9
12/14/2019	531	7	8	8.4
1/17/2020	683	8	8	7.4
2/17/2020	670	9	8	20.1
3/22/2020	641	8	8	15.2
7/20/2020	722	8	8	22.8
8/24/2020	718	8	8	14.5
9/21/2020	700	9	8	16
10/17/2020	710	9	8.5	13.2
11/20/2020	723	8	8.5	9.9
12/20/2020	681	9	8	7.1
1/15/2021	739	8	8	9.8
2/19/2021	650	8	8	10.2
3/20/2021	666	8	8	14.6
4/19/2021	670	8	8.5	15.5
5/22/2021	716	8	8.25	14
6/18/2021	714	8	8	14.8
7/16/2021	728	7	8	18.7
8/23/2021	744	6	8	16.5
9/20/2021	758	8	8	12.3
10/16/2021	755	8	8	13.3
11/20/2021	715	9	8.25	9.0
12/17/2021	738	9	8.25	10.6

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	531	5	7	7.1
Max	758	10	9	22.8
Median	709	8	8	13.3

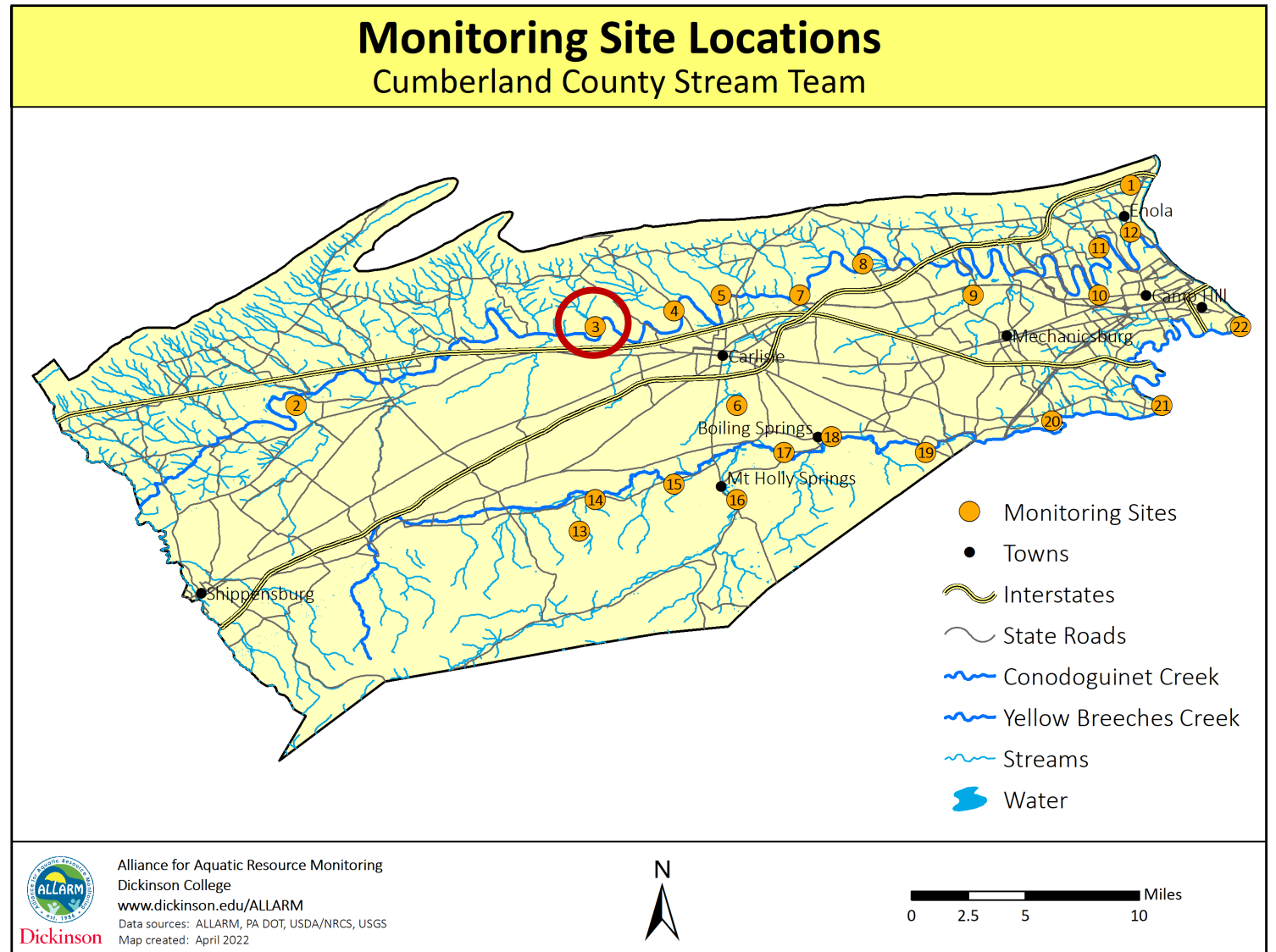
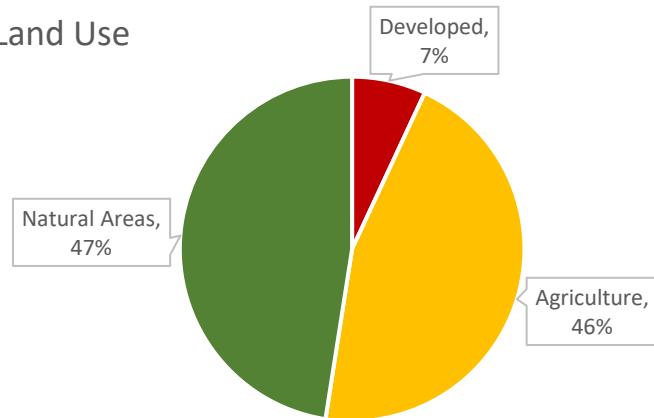
Opossum Creek (OPOCRE 0.19)

Monitor(s): Mary and Ed Franco

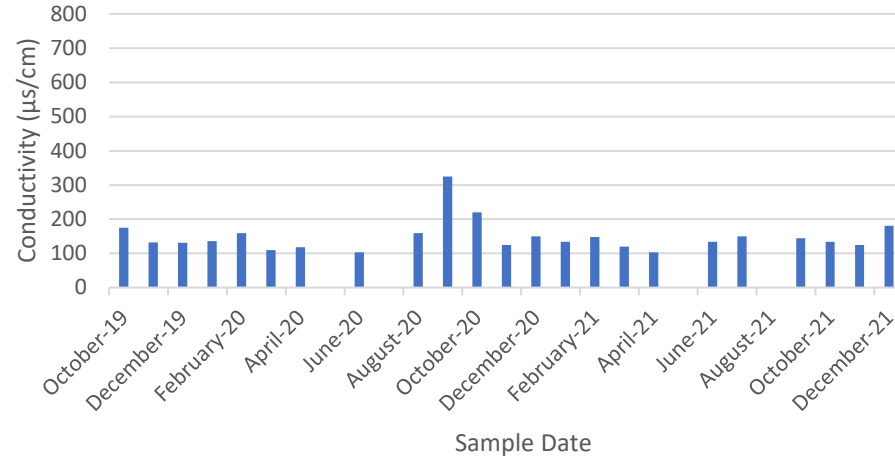
Site information:

- Drains: 5 mi²
- Impaired: Yes, aquatic life
- Designation: Trout Stocking (TSF)
- Geology: Shale

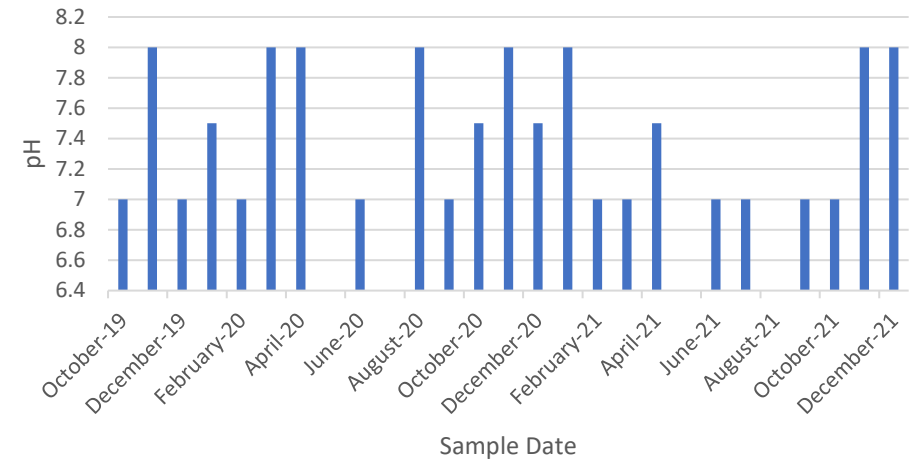
OPOCRE 0.19
Land Use



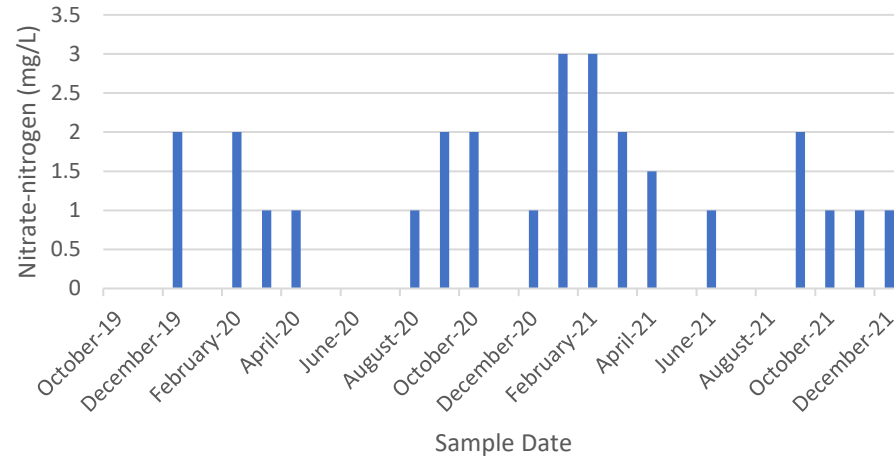
OPOCRE 0.19 - Conductivity



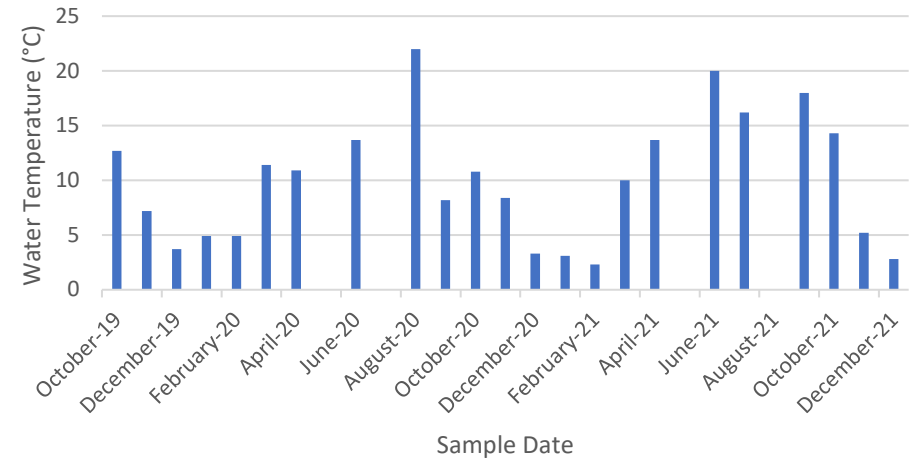
OPOCRE 0.19 - pH



OPOCRE 0.19 - Nitrate-nitrogen



OPOCRE 0.19 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
10/17/2019	175	0	7	12.7
11/18/2019	131.8	0	8	7.2
12/21/2019	131	2	7	3.7
1/20/2020	135.6	0	7.5	4.9
2/17/2020	159	2	7	4.9
3/22/2020	109.4	1	8	11.4
4/20/2020	118	1	8	10.9
6/20/2020	103	0	7	13.7
8/21/2020	159.1	1	8	22
9/21/2020	325	2	7	8.2
10/17/2020	220	2	7.5	10.8
11/23/2020	125	0	8	8.4
12/21/2020	149.9	1	7.5	3.3
1/25/2021	133.7	3	8	3.1
2/22/2021	147.7	3	7	2.3
3/22/2021	119.7	2	7	10
4/19/2021	102.7	1.5	7.5	13.7
6/21/2021	133.6	1	7	20
7/29/2021	149.7	0	7	16.2
9/20/2021	144.3	2	7	18
10/18/2021	133.5	1	7	14.3
11/30/2021	124.3	1	8	5.2
12/20/2021	181	1	8	2.8

Summary Statistics

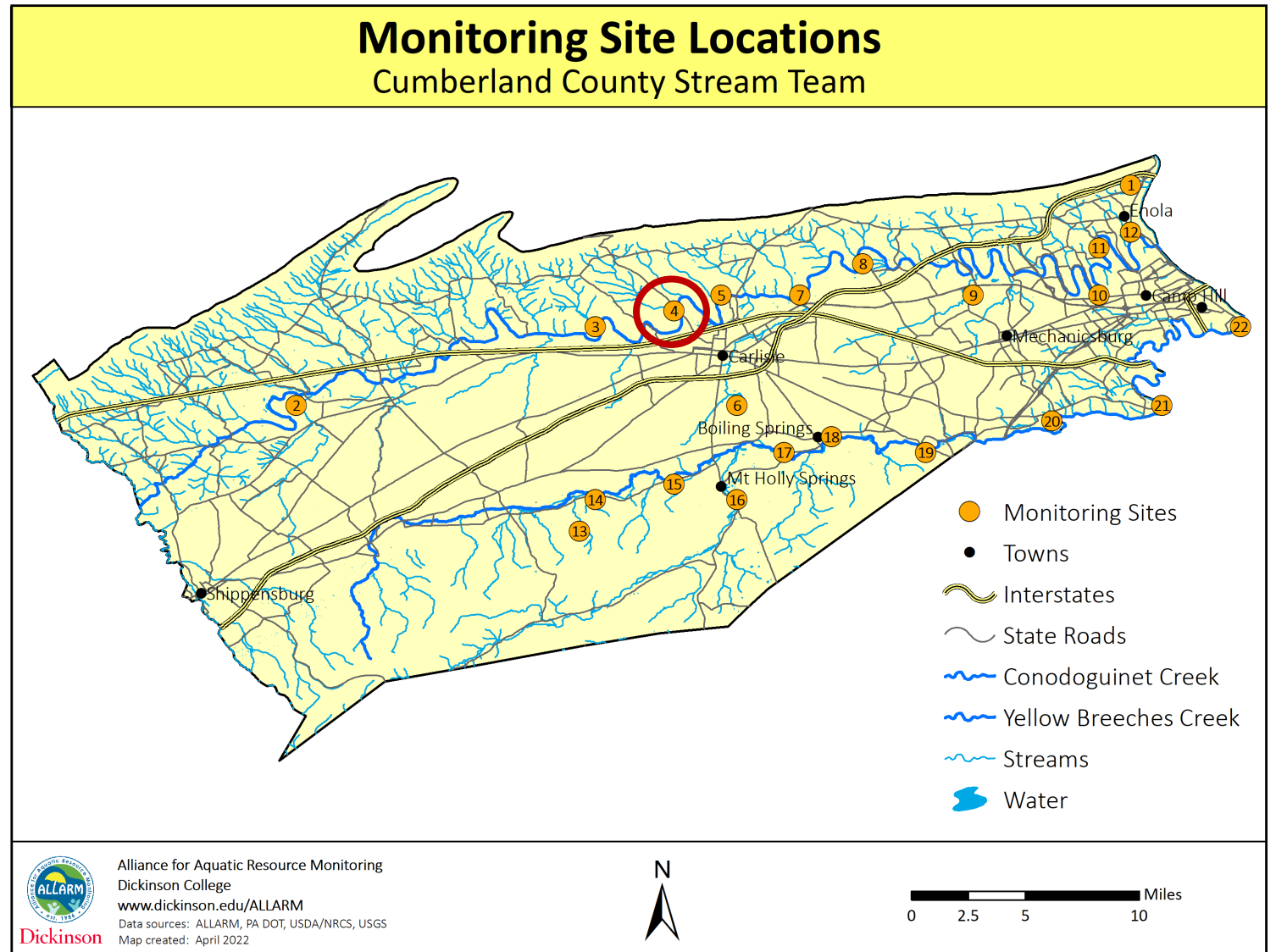
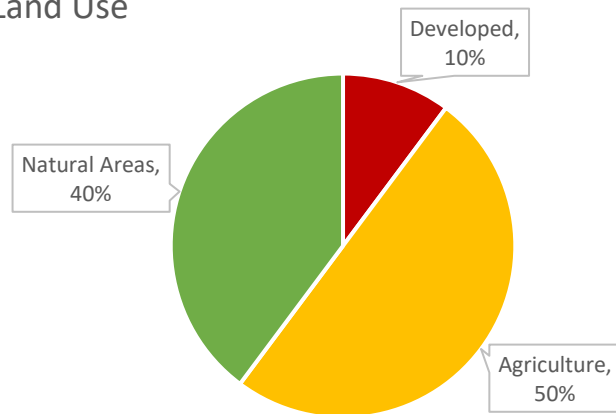
	Conductivity	Nitrate	pH	Water Temperature
Min	102.7	0	7	2.3
Max	325	3	8	22
Median	133.7	1	7.5	10

Conodoguinet Creek
at North Middleton Park (CONCRE 39.03)
Monitor(s): Vern Graham and Joel Warner

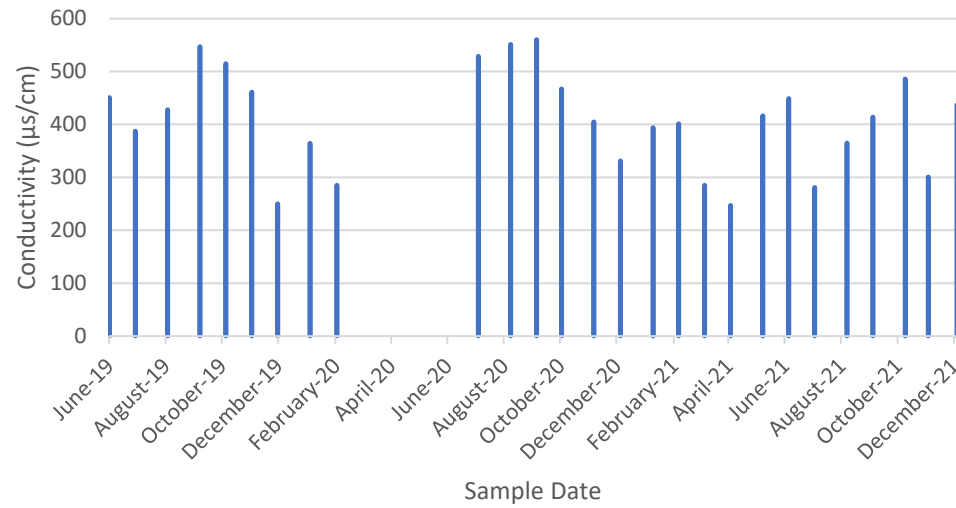
Site information:

- Drains: 368 mi²
- Impaired: Yes, aquatic life
- Designation: Warm water fishes (WWF)
- Geology: Shale and calcareous

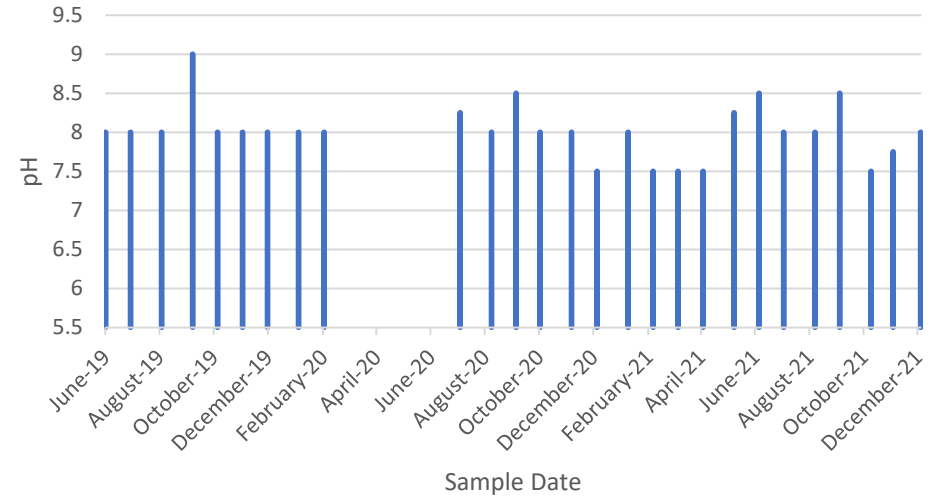
CONCRE 39.03
Land Use



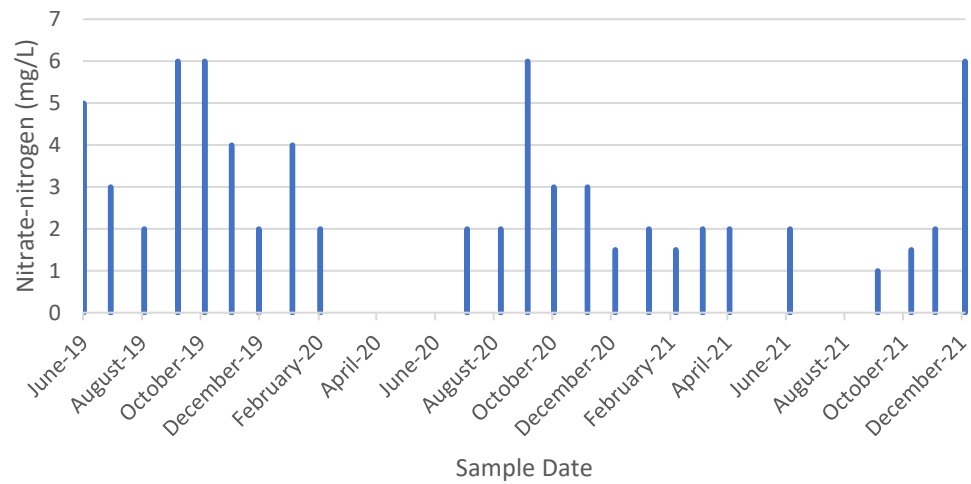
CONCRE39.03 -- Conductivity



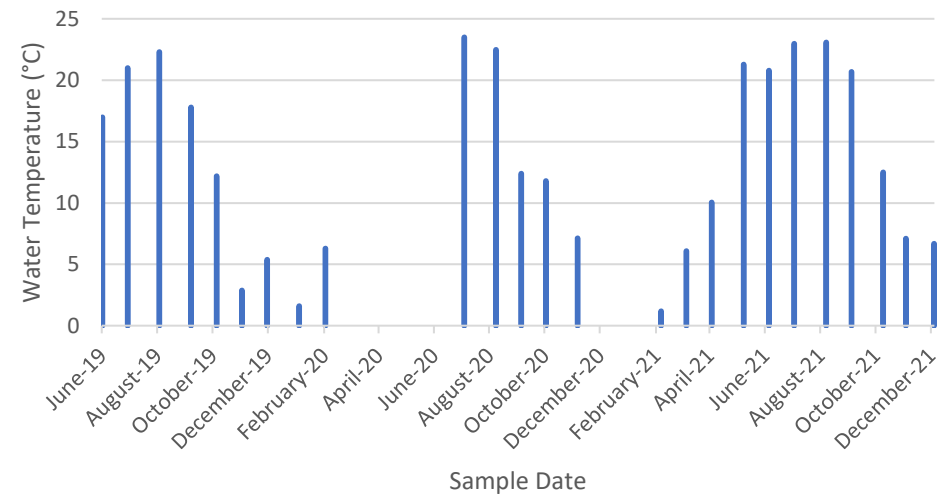
CONCRE39.03 -- pH



CONCRE39.03 -- Nitrate-nitrogen



CONCRE39.03 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/16/2019	451	5	8	17
7/14/2019	387	3	8	21
8/18/2019	428	2	8	22.3
9/22/2019	547	6	9	17.8
10/20/2019	515	6	8	12.2
11/17/2019	461	4	8	2.9
12/15/2019	250	2	8	5.4
1/19/2020	364	4	8	1.6
2/17/2020	285	2	8	6.3
7/19/2020	529	2	8.25	23.5
8/23/2020	551	2	8	22.5
9/20/2020	560	6	8.5	12.4
10/17/2020	467	3	8	11.8
11/21/2020	405	3	8	7.2
12/20/2020	331	1.5	7.5	0
1/24/2021	394	2	8	0
2/21/2021	401	1.5	7.5	1.2
3/21/2021	285	2	7.5	6.1
4/18/2021	247	2	7.5	10.1
5/23/2021	416	0	8.25	21.3
6/20/2021	449	2	8.5	20.8
7/18/2021	281	0	8	23
8/22/2021	365	0	8	23.1
9/19/2021	414	1	8.5	20.7
10/24/2021	486	1.5	7.5	12.5
11/18/2021	301	2	7.75	7.1
12/19/2021	437	6	8	6.7

Summary Statistics

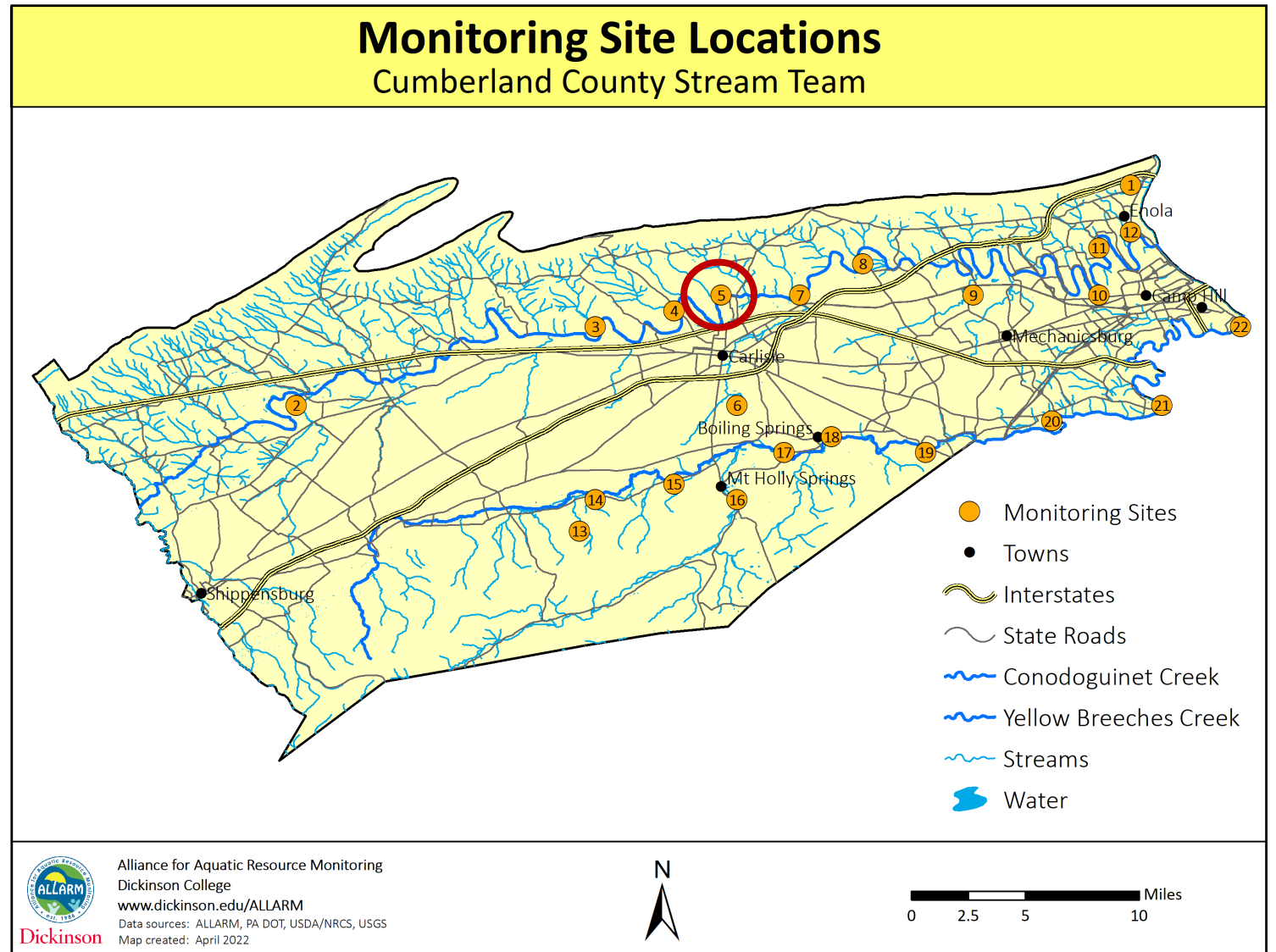
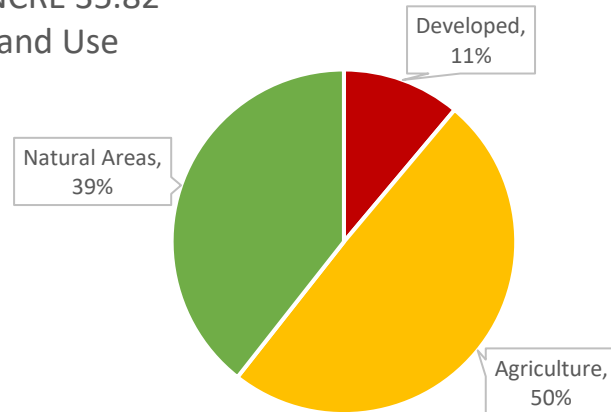
	Conductivity	Nitrate	pH	Water Temperature
Min	247	0	7.5	0
Max	560	6	9	23.5
Median	414	2	8	12.2

Conodoguinet Creek
at Creekview Park (CONCRE 35.82)
Monitor(s): Susan Boling & Mark White

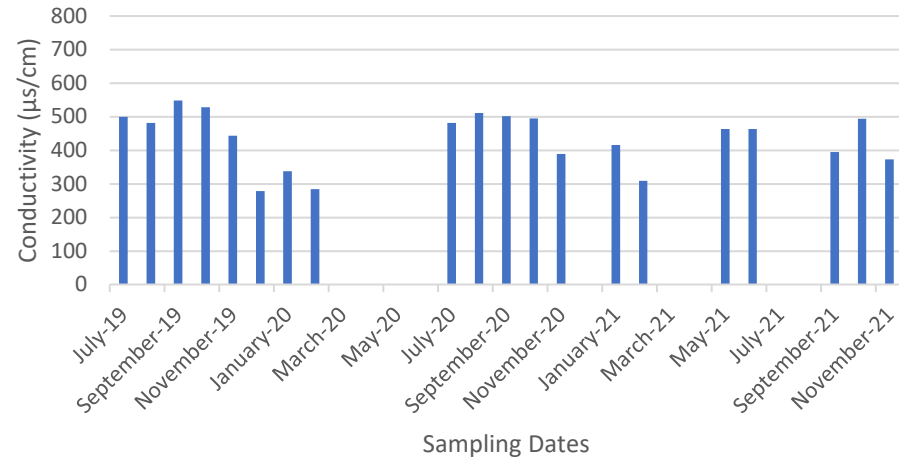
Site information:

- Drains: 382 mi²
- Impaired: Yes, aquatic life
- Designation: Warm water fishes (WWF)
- Geology: Shale and calcareous

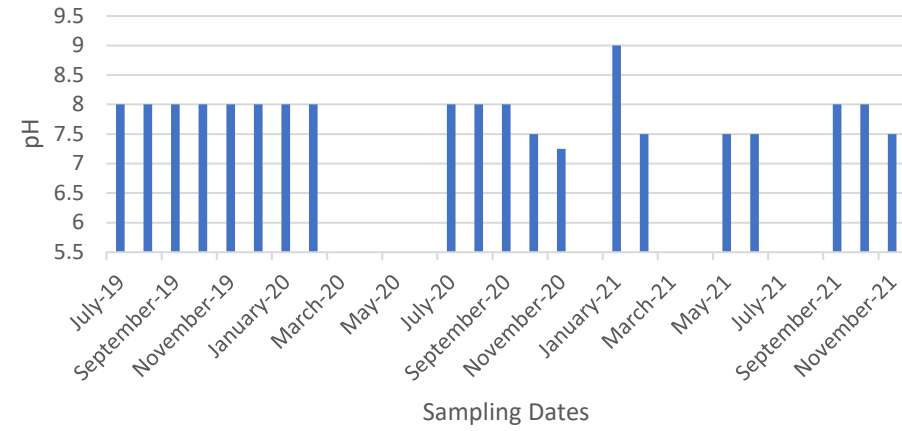
CONCRE 35.82
Land Use



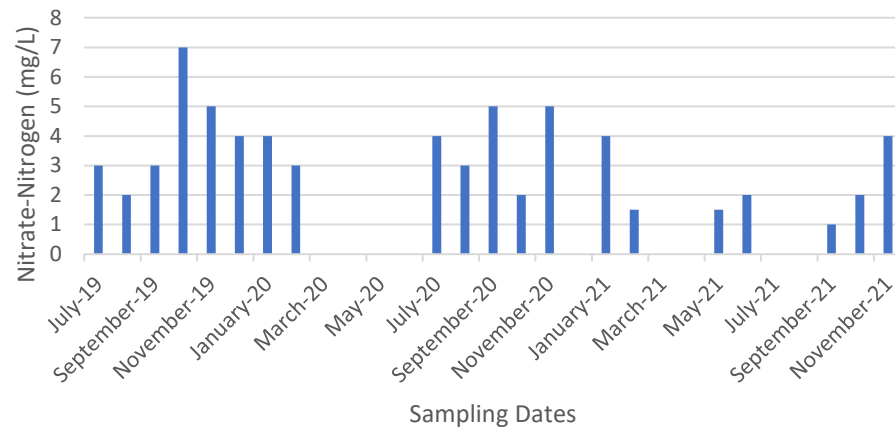
CONCRE 35.82 -- Conductivity



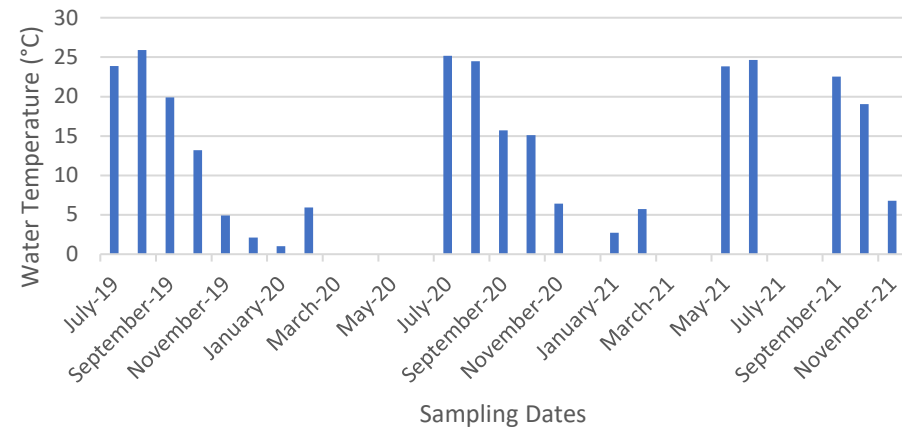
CONCRE 35.82 -- pH



CONCRE 35.82 -- Nitrate-Nitrogen



CONCRE 35.82 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
7/19/2019	500	3	8	23.9
8/19/2019	482	2	8	25.9
9/20/2019	548	3	8	19.9
10/18/2019	528	7	8	13.2
11/16/2019	443	5	8	4.9
12/20/2019	279	4	8	2.1
1/17/2020	338	4	8	1
2/14/2020	284	3	8	5.9
7/16/2020	482	4	8	25.2
8/21/2020	511	3	8	24.5
9/19/2020	502	5	8	15.7
10/16/2020	495	2	7.5	15.1
11/20/2020	389	5	7.25	6.4
1/23/2021	416	4	9	2.7
2/28/2021	309	1.5	7.5	5.7
5/23/2021	463	1.5	7.5	23.9
6/19/2021	463	2	7.5	24.7
9/17/2021	395	1	8	22.6
10/15/2021	494	2	8	19.1
11/22/2021	373	4	7.5	6.75

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	279	1	7.25	1
Max	548	7	9	25.9
Median	463	3	8	15.4

LeTort Spring Run (UNTLETSPRRUN 0.65)

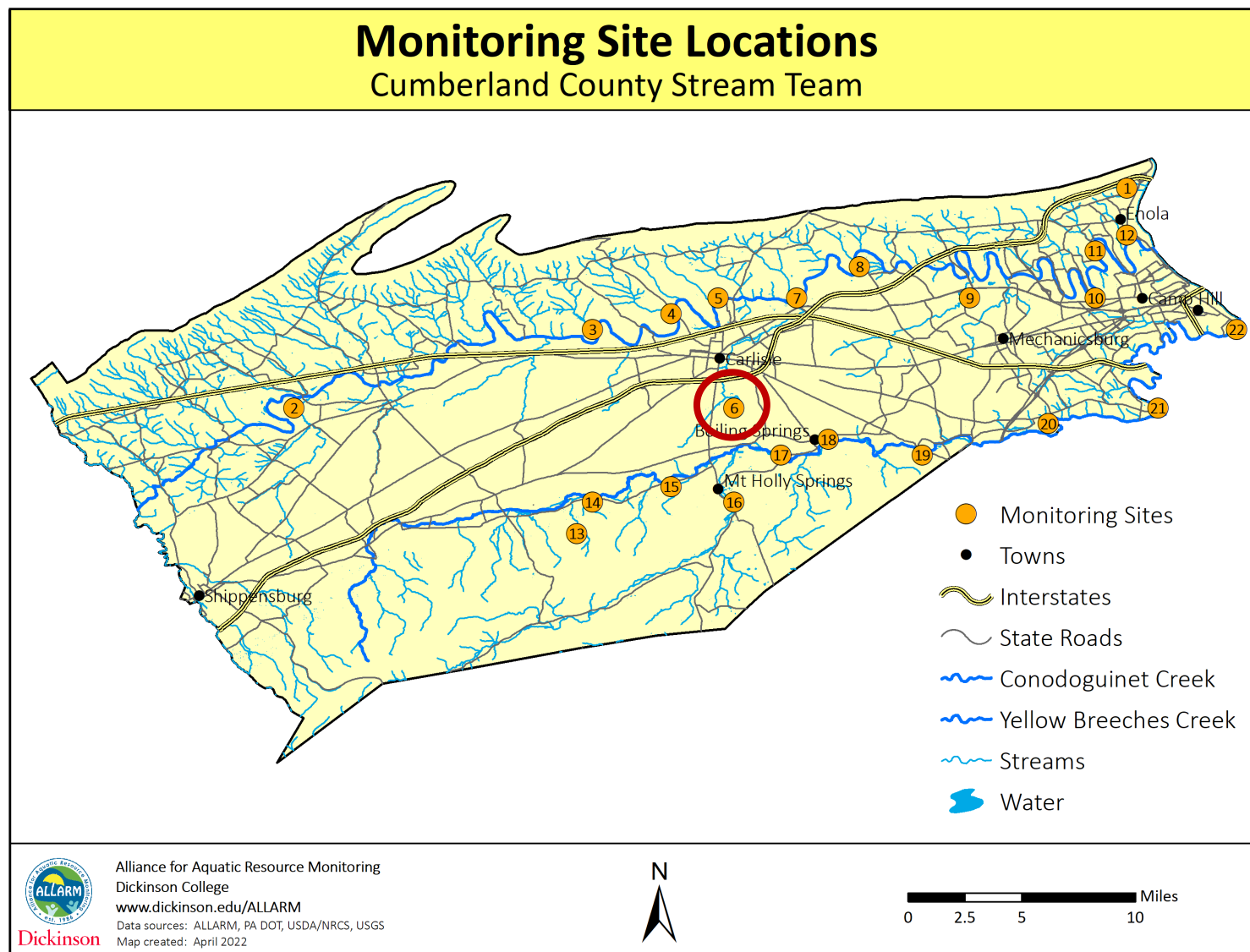
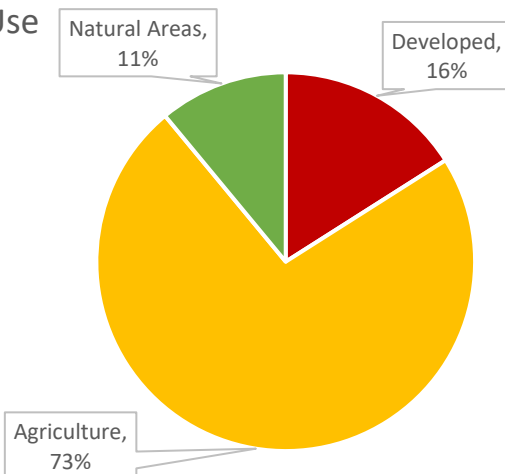
Monitor(s): Lisa Brousse & Tamela Trussell

Site information:

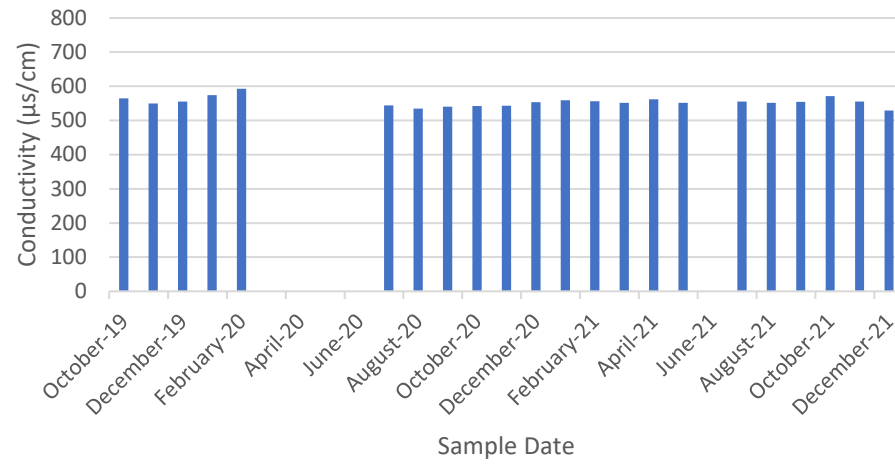
- Drains: 3 mi²
- Impaired: No
- Designation: Exceptional value stream (EV)
- Geology: Calcareous

UNTLETSPRRUN 0.65

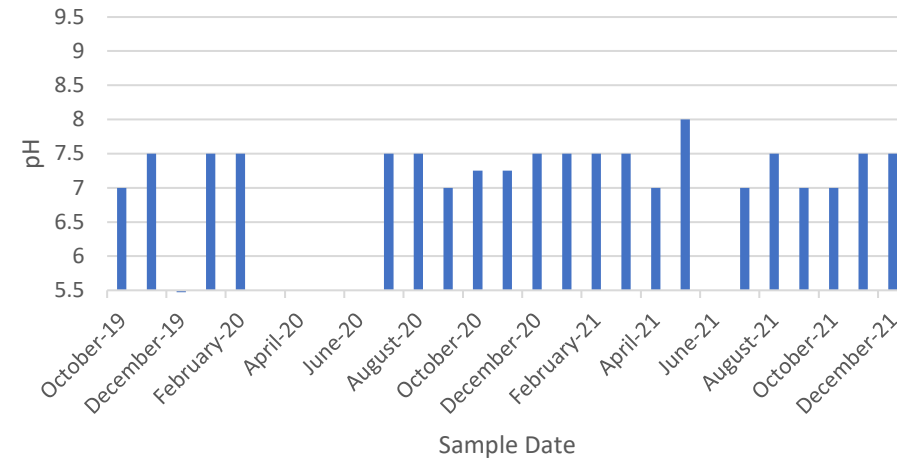
Land Use



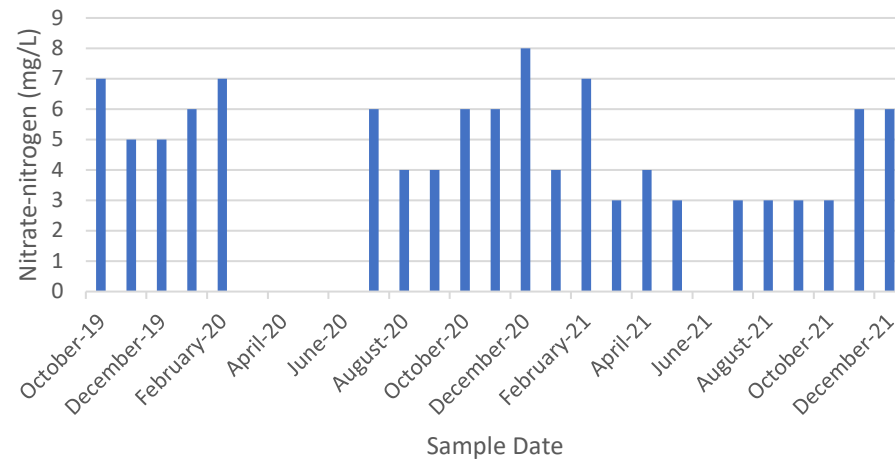
UNTLETSRRUN 0.65 -- Conductivity



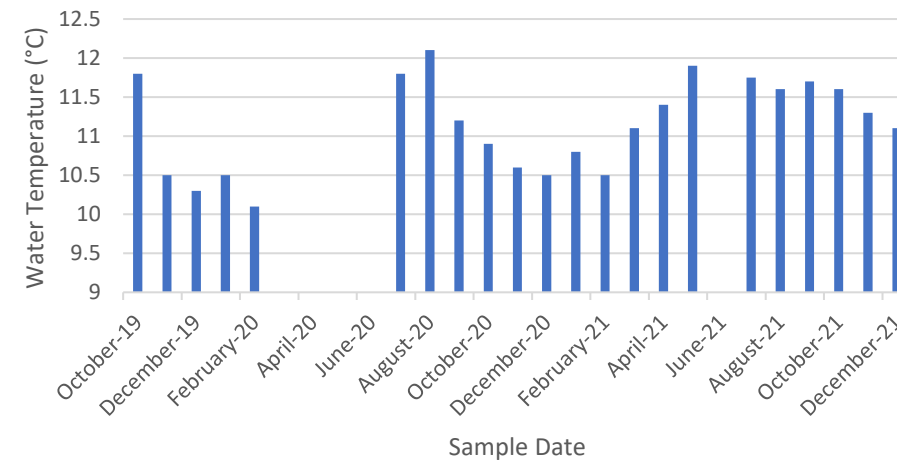
UNTLETSRRUN 0.65 -- pH



UNTLETSRRUN 0.65 -- Nitrate-nitrogen



UNTLETSRRUN 0.65 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
10/18/2019	565	7	7	11.8
11/16/2019	550	5	7.5	10.5
12/14/2019	555	5	3.75	10.3
1/16/2020	574	6	7.5	10.5
2/13/2020	593	7	7.5	10.1
7/17/2020	544	6	7.5	11.8
8/21/2020	535	4	7.5	12.1
9/18/2020	540	4	7	11.2
10/15/2020	542	6	7.25	10.9
11/19/2020	543	6	7.25	10.6
12/18/2020	553	8	7.5	10.5
1/22/2021	559	4	7.5	10.8
2/21/2021	556	7	7.5	10.5
3/19/2021	552	3	7.5	11.1
4/15/2021	562	4	7	11.4
5/21/2021	552	3	8	11.9
7/15/2021	555	3	7	11.8
8/19/2021	552	3	7.5	11.6
9/20/2021	554	3	7	11.7
10/23/2021	571	3	7	11.6
11/18/2021	555	6	7.5	11.3
12/17/2021	529	6	7.5	11.1

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	529	3	3.75	10.1
Max	593	8	8	12.1
Median	554	5	7.5	11.2

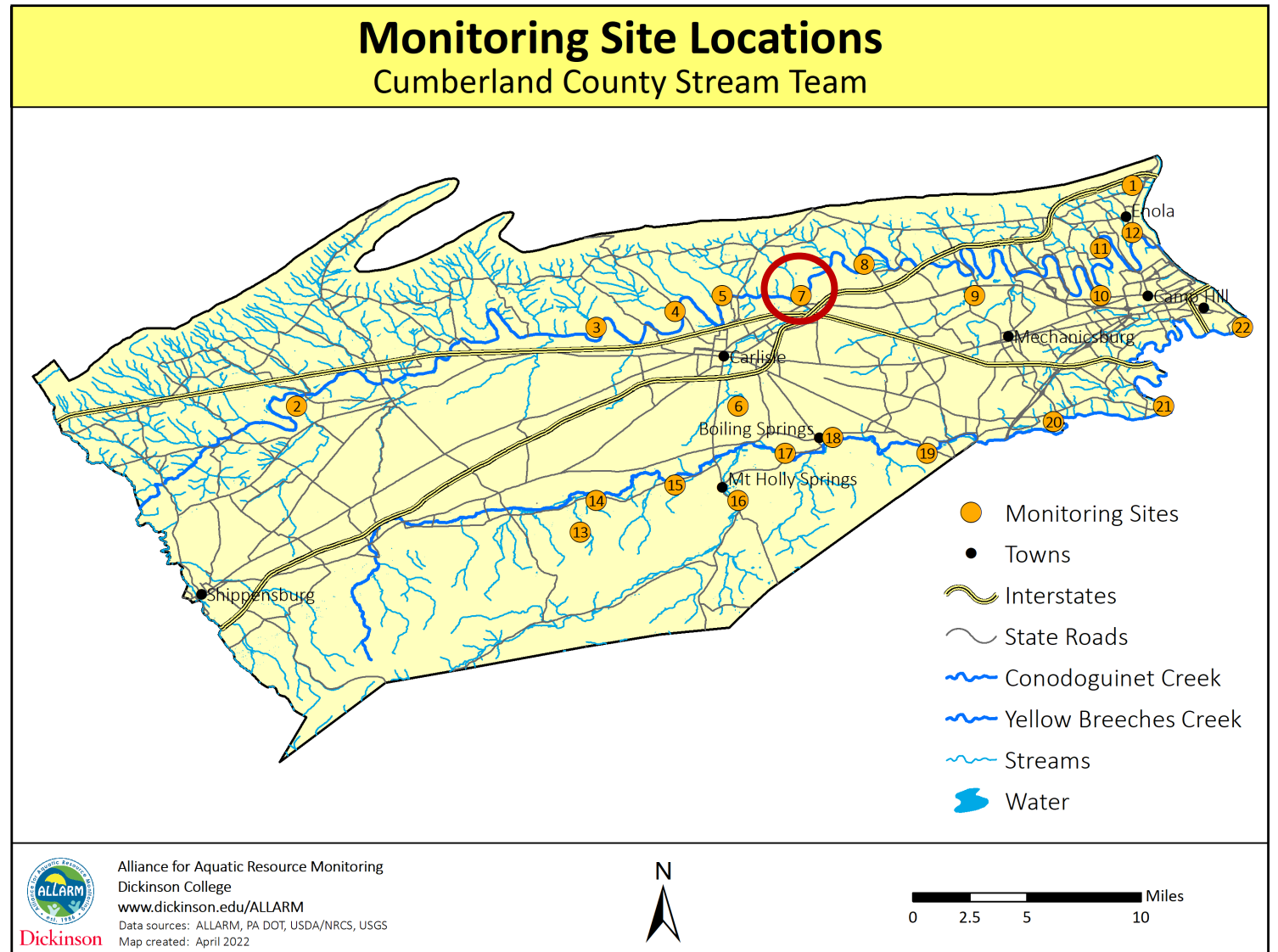
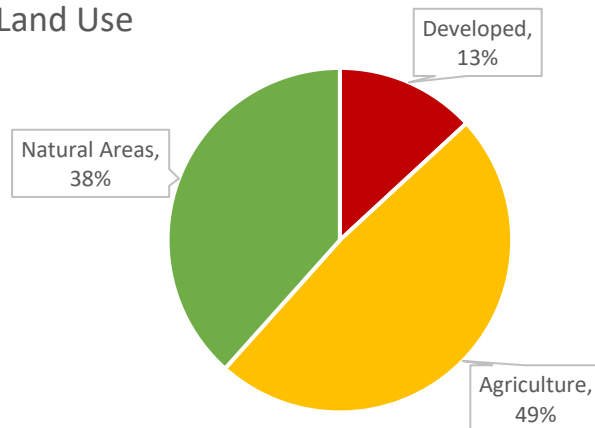
Conodoguinet Creek at LeTort Falls Park (CONCRE 32.47)

Monitor(s): Andy, Ian & Mia Yench

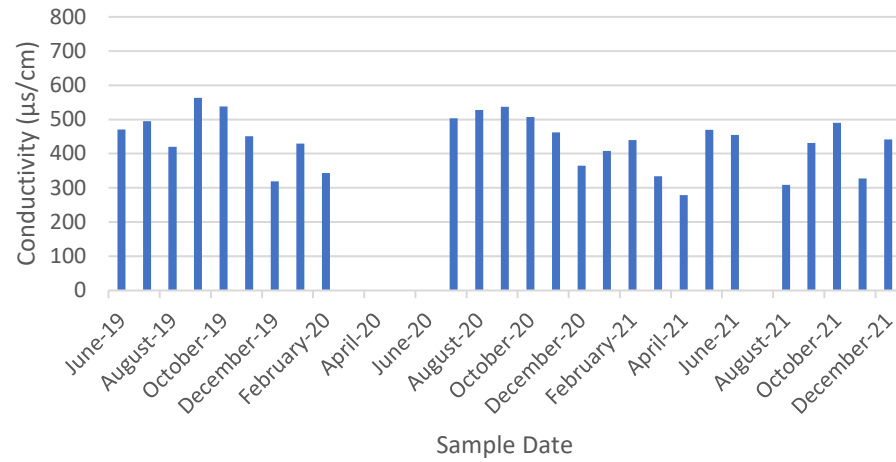
Site information:

- Drains: 420 mi²
- Impaired: Yes, aquatic life
- Designation: Warm water fishes (WWF)
- Geology: Calcareous and shale

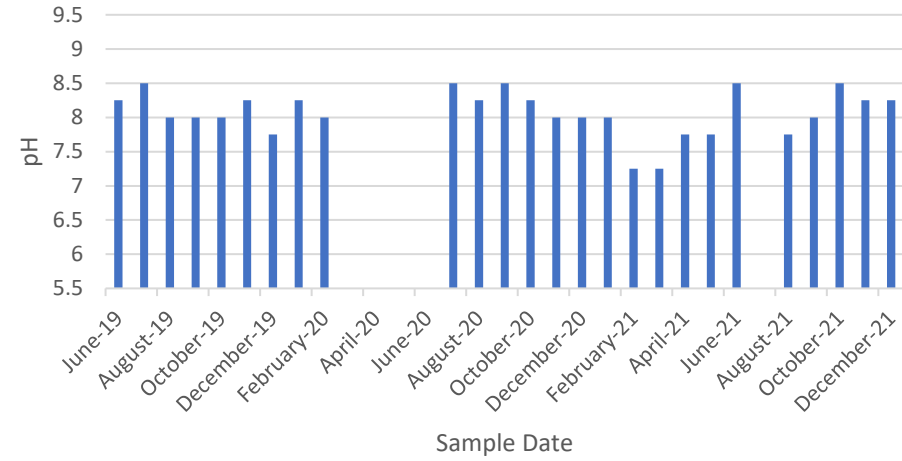
CONCRE 32.47 Land Use



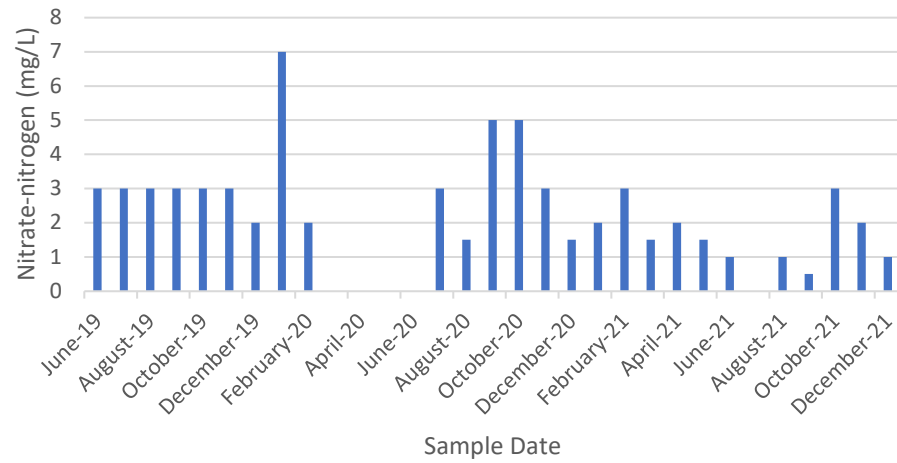
CONCRE 32.47 -- Conductivity



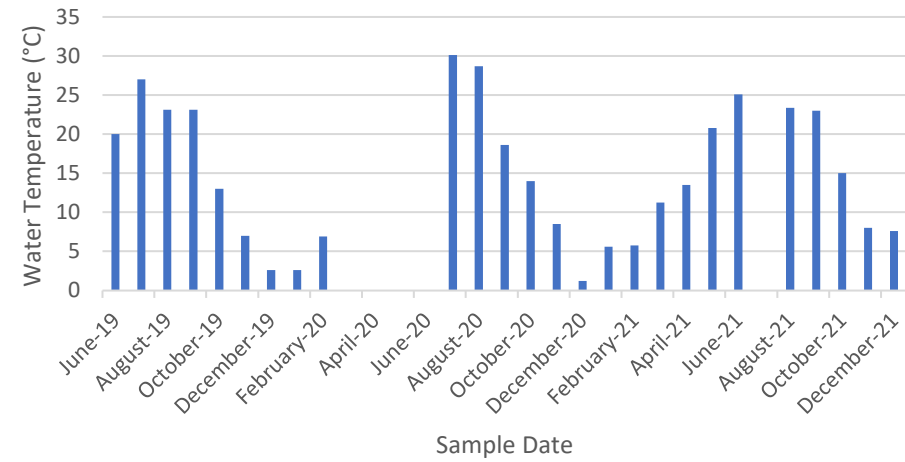
CONCRE 32.47 -- pH



CONCRE 32.47 -- Nitrate-nitrogen



CONCRE 32.47 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/16/2019	471	3	8.25	20
7/20/2019	495	3	8.5	27
8/18/2019	420	3	8	23.1
9/22/2019	563	3	8	23.1
10/20/2019	538	3	8	13
11/16/2019	451	3	8.25	7
12/22/2019	319	2	7.75	2.6
1/20/2020	429	7	8.25	2.6
2/17/2020	343	2	8	6.9
7/20/2020	503	3	8.5	30.1
8/24/2020	528	1.5	8.25	28.7
9/21/2020	537	5	8.5	18.6
10/18/2020	507	5	8.25	14
11/24/2020	462	3	8	8.5
12/20/2020	365	1.5	8	1.2
1/17/2021	408	2	8	5.6
2/21/2021	440	3	7.25	5.8
3/22/2021	334	1.5	7.25	11.3
4/18/2021	279	2	7.75	13.5
5/24/2021	470	1.5	7.75	20.8
6/18/2021	455	1	8.5	25.1
8/19/2021	309	1	7.75	23.4
9/19/2021	431	0.5	8	23
10/24/2021	490	3	8.5	15
11/22/2021	327	2	8.25	8
12/19/2021	442	1	8.25	7.6

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	279	0.5	7.25	1.2
Max	563	7	8.5	30.1
Median	447	2.5	8	13.8

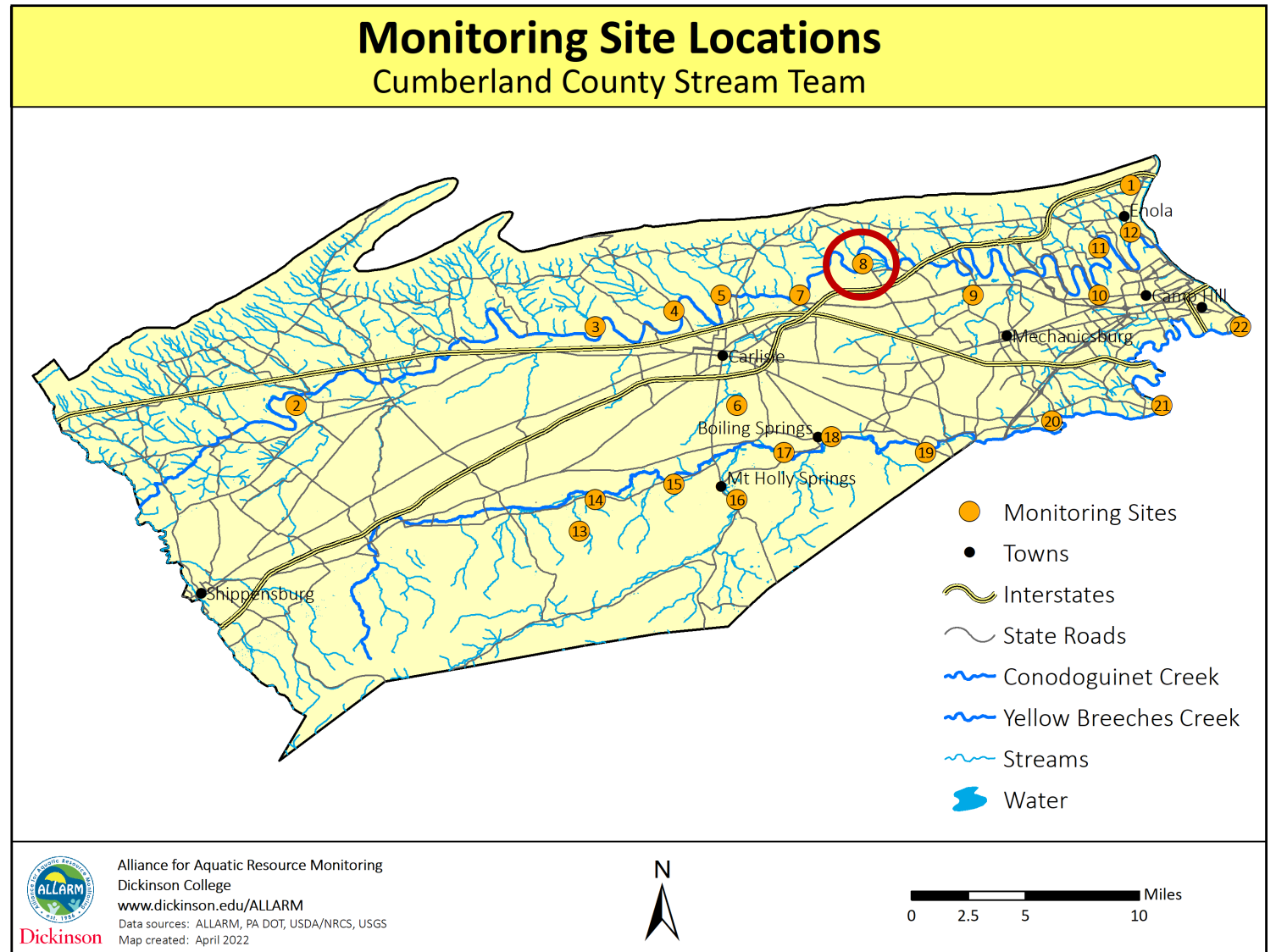
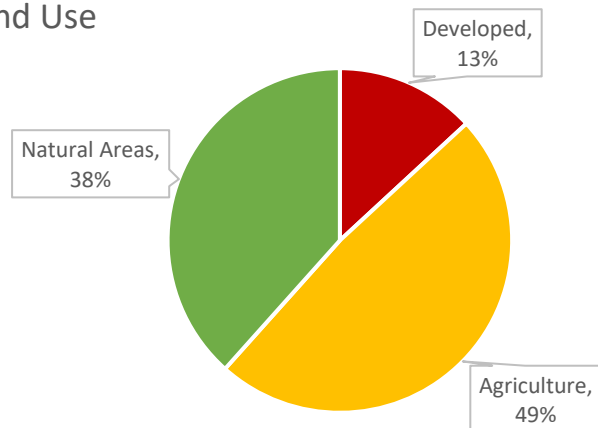
Conodoguinet Creek at Scott Farm Bridge (CONCRE 27.96)

Monitor(s): Jane & Randy Greber

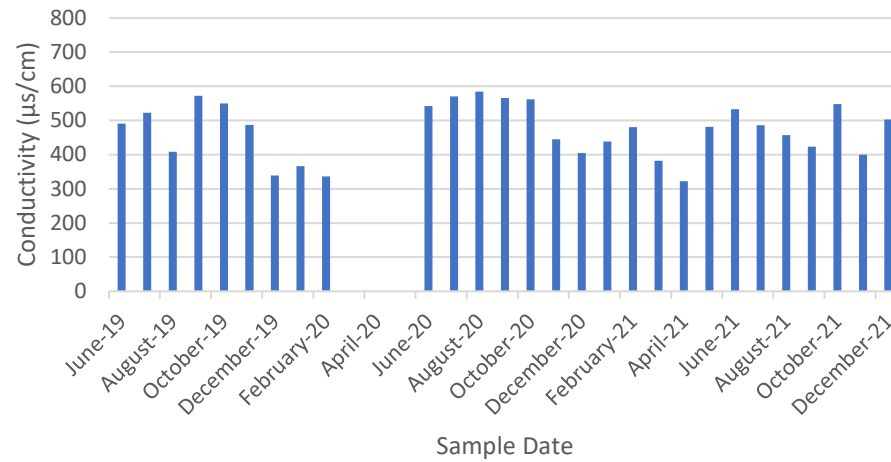
Site information:

- Drains: 426 mi²
- Impaired: Yes, aquatic life
- Designation: Warm water fishes (WWF)
- Geology: Shale and calcareous

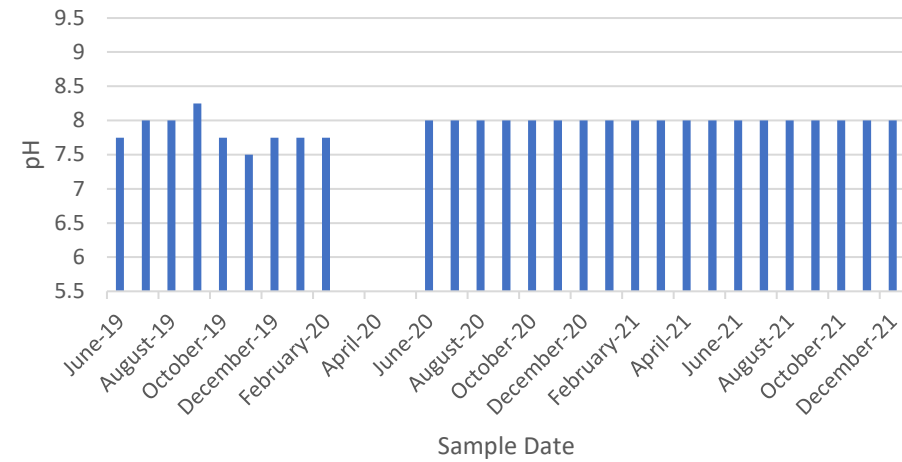
CONCRE 27.96 Land Use



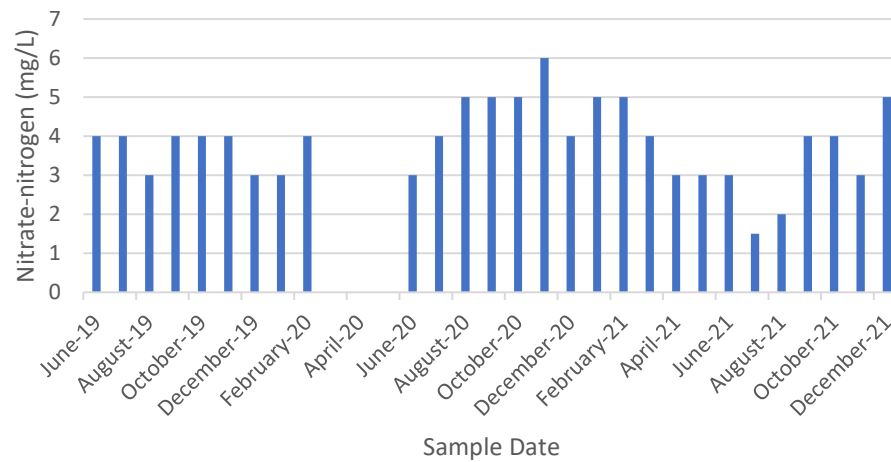
CONCRE 27.96 -- Conductivity



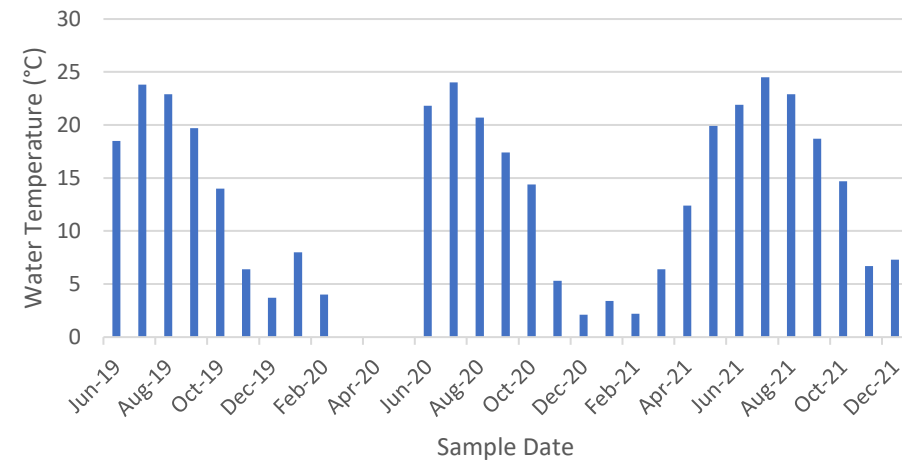
CONCRE 27.96 -- pH



CONCRE 27.96 -- Nitrate-nitrogen



CONCRE 27.96 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/13/2019	491	4	7.75	18.5
7/19/2019	523	4	8	23.8
8/17/2019	408	3	8	22.9
9/19/2019	572	4	8.25	19.7
10/21/2019	550	4	7.75	14
11/15/2019	487	4	7.5	6.4
12/12/2019	339	3	7.75	3.7
1/16/2020	366	3	7.75	8
2/16/2020	336	4	7.75	4
6/18/2020	542	3	8	21.8
7/16/2020	570	4	8	24
8/20/2020	584	5	8	20.7
9/17/2020	566	5	8	17.4
10/15/2020	562	5	8	14.4
11/19/2020	445	6	8	5.3
12/21/2020	405	4	8	2.1
1/21/2021	438	5	8	3.4
2/22/2021	480	5	8	2.2
3/19/2021	382	4	8	6.4
4/16/2021	322	3	8	12.4
5/21/2021	481	3	8	19.9
6/19/2021	533	3	8	21.9
7/15/2021	486	1.5	8	24.5
8/22/2021	457	2	8	22.9
9/10/2021	423	4	8	18.7
10/22/2021	548	4	8	14.7
11/21/2021	400	3	8	6.7
12/17/2021	503	5	8	7.3

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	322	1.5	7.5	2.1
Max	584	6	8.25	24.5
Median	484	4	8	14.6

Hogetown Run (HOGRUN 0.98)

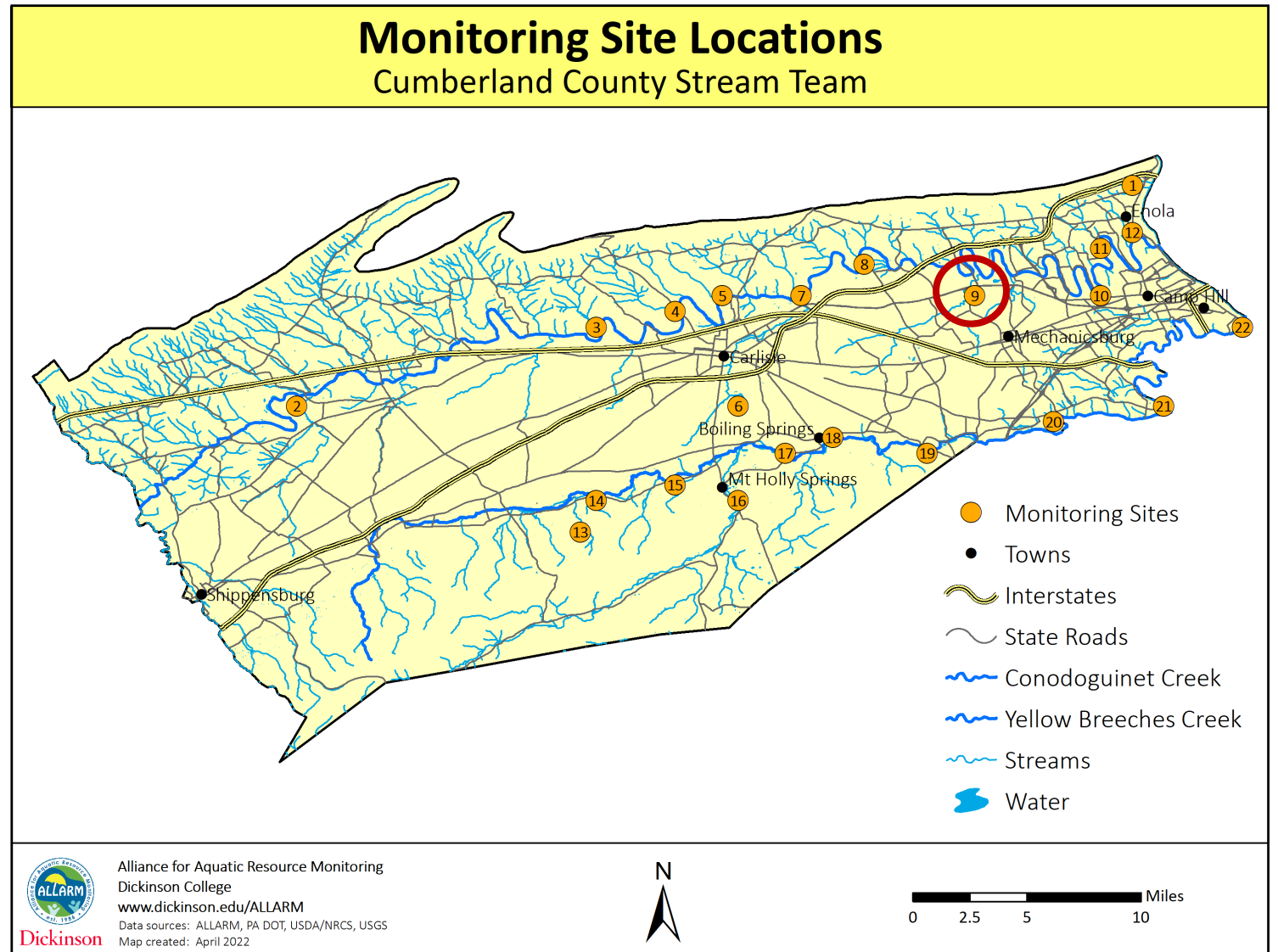
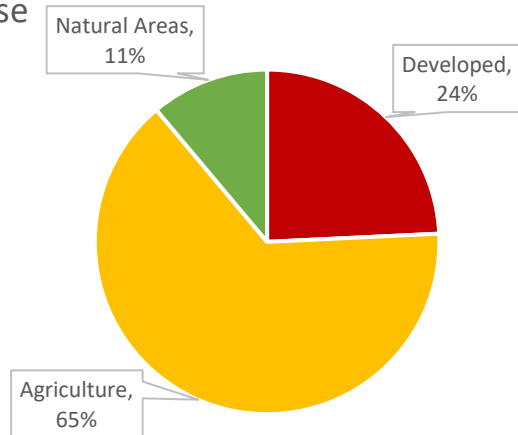
Monitor(s): Gil Freedman, Brian Smith, & Caleb Smith

Site information:

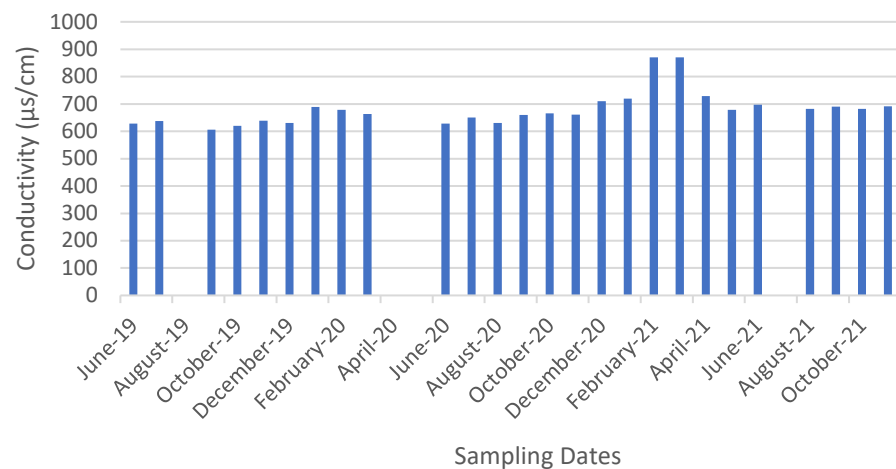
- Drains: 17 mi²
- Impaired: Yes, recreational pathogens
- Designation: Cold water fishes (CWF)
- Geology: Calcareous

HOGRUN 0.98

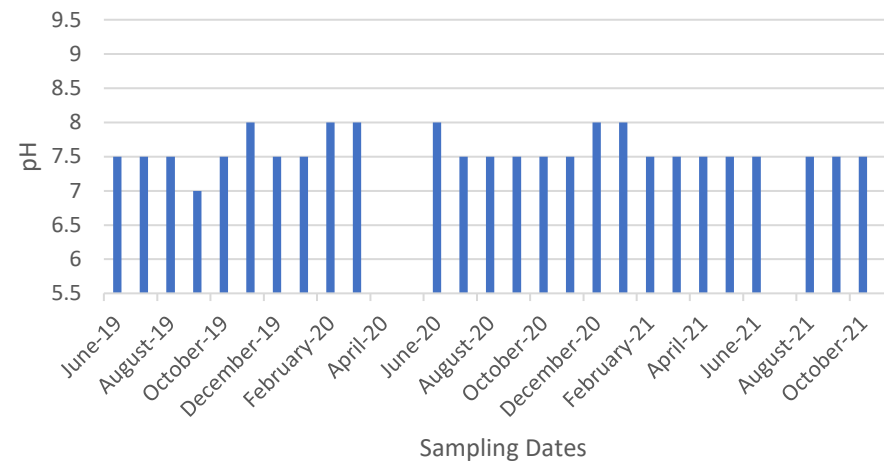
Land Use



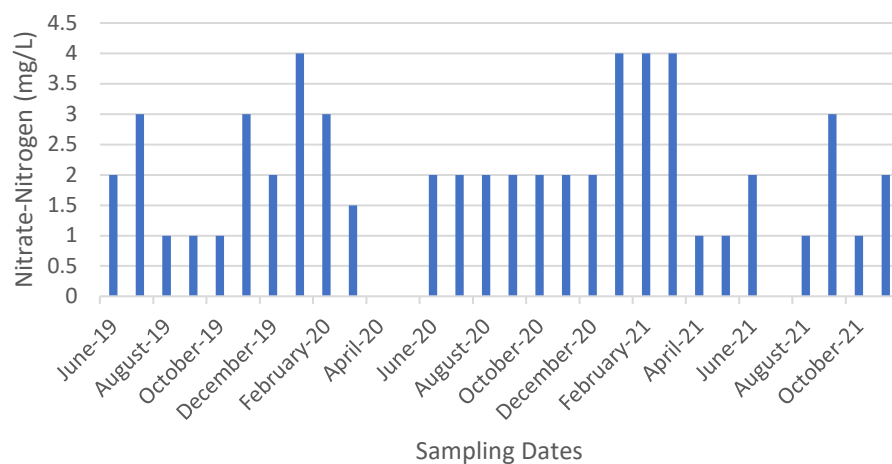
HOGRUN0.98 -- Conductivity



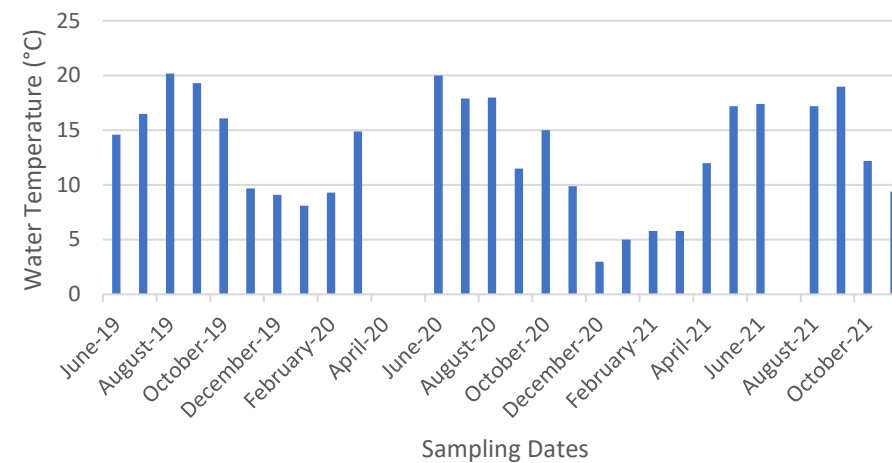
HOGRUN0.98 -- pH



HOGRUN0.98 -- Nitrate-Nitrogen



HOGRUN0.98 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/22/2019	628	2	7.5	14.6
7/18/2019	637	3	7.5	16.5
8/18/2019		1	7.5	20.2
9/23/2019	606	1	7	19.3
10/21/2019	620	1	7.5	16.1
11/18/2019	639	3	8	9.7
12/14/2019	631	2	7.5	9.1
1/19/2020	689	4	7.5	8.1
2/15/2020	679	3	8	9.3
3/22/2020	663	1.5	8	14.9
6/18/2020	628	2	8	20
7/18/2020	650	2	7.5	17.9
8/22/2020	630	2	7.5	18
9/19/2020	660	2	7.5	11.5
10/18/2020	666	2	7.5	15
11/21/2020	661	2	7.5	9.9
12/19/2020	710	2	8	3
1/23/2021	720	4	8	5
2/20/2021	870	4	7.5	5.8
3/20/2021	870	4	7.5	5.8
4/17/2021	729	1	7.5	12
5/22/2021	678	1	7.5	17.2
6/19/2021	697	2	7.5	17.4
8/22/2021	682	1	7.5	17.2
9/19/2021	690	3	7.5	19
10/16/2021	682	1	7.5	12.2
11/21/2021	691	2	7.5	9.4

Summary Statistics

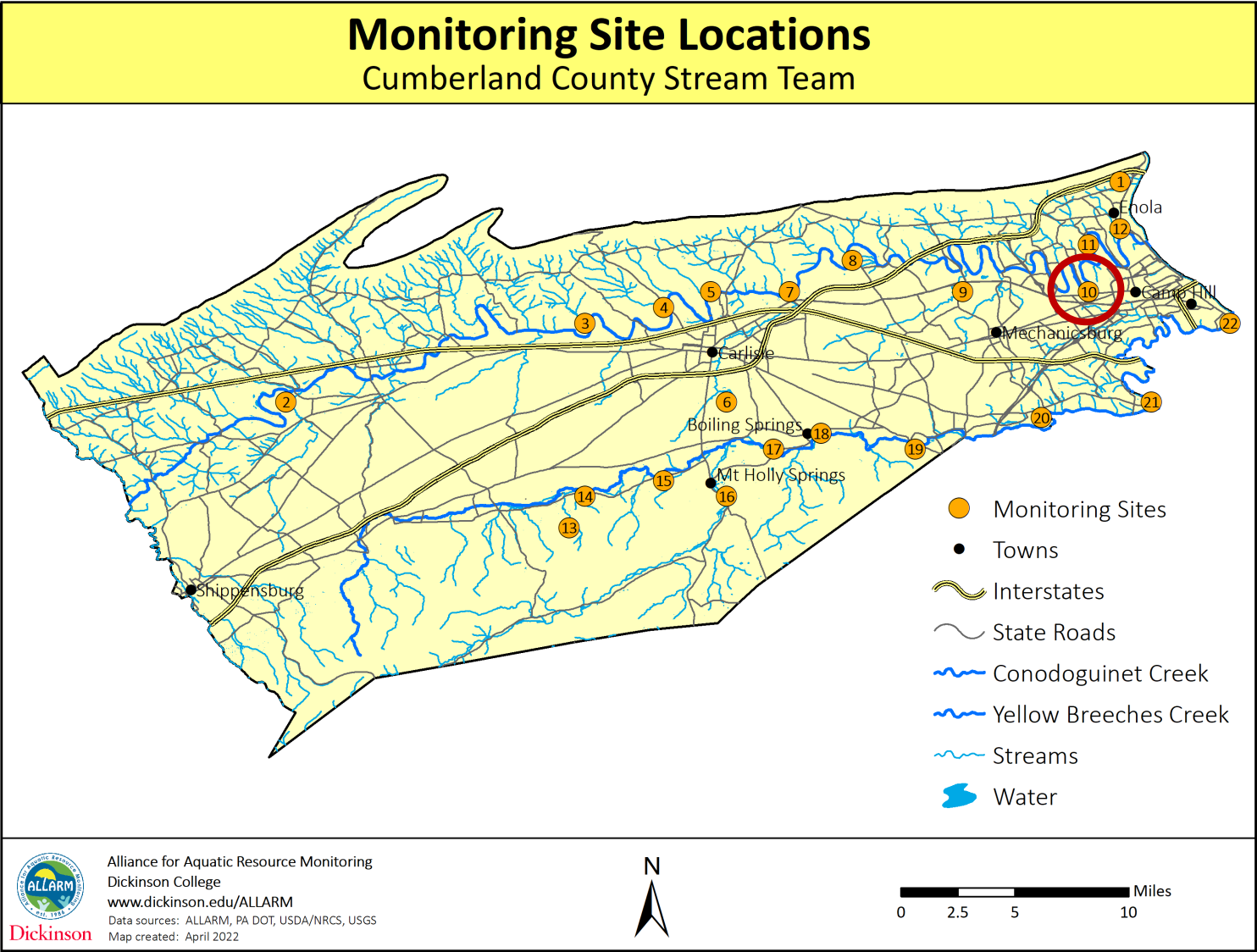
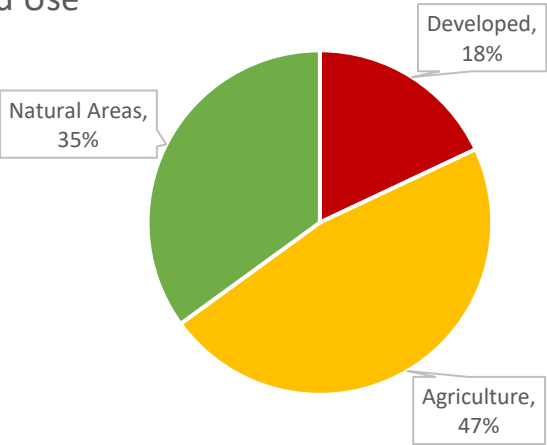
	Conductivity	Nitrate	pH	Water Temperature
Min	606	1	7	3
Max	870	4	8	20.2
Median	672	2	7.5	14.6

Unnamed Spring off of the Conodoguinet
(UNTCONCRE8.8)
Monitor(s): Greg John

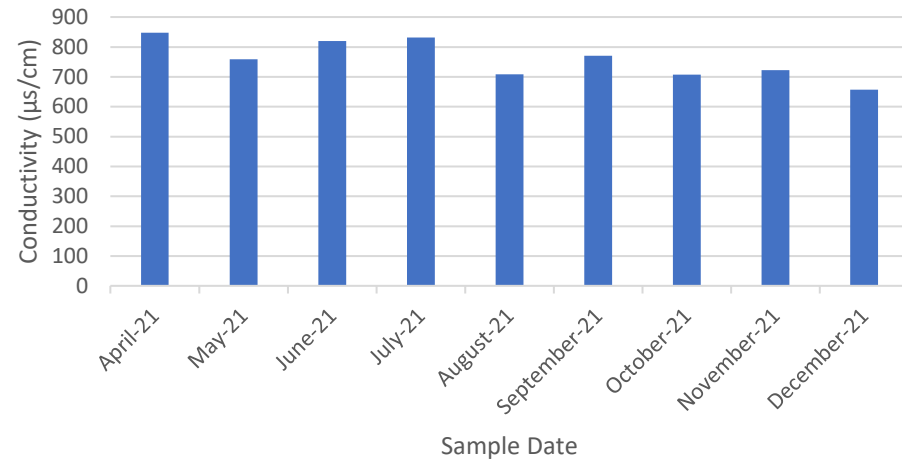
Site information:

- Drains: 481 mi²
- Impaired: Yes, organic enrichment
- Designation: Warm water fishes (WWF)
- Geology: Carbonate (39%), non-carbonate (61%)

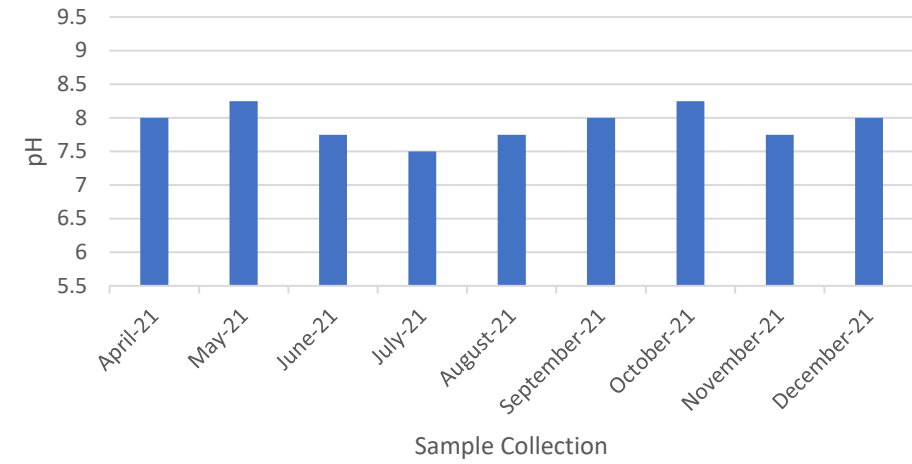
UNTCONCRE8.8
Land Use



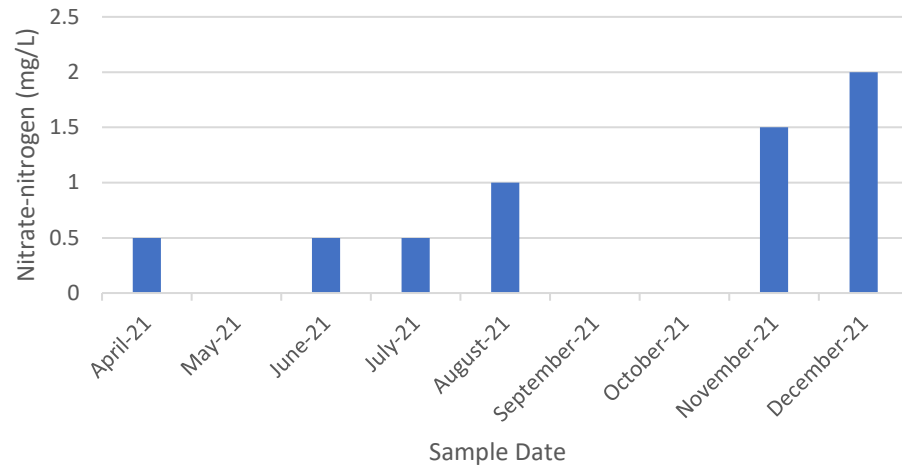
UNTCONCRE8.8 -- Conductivity



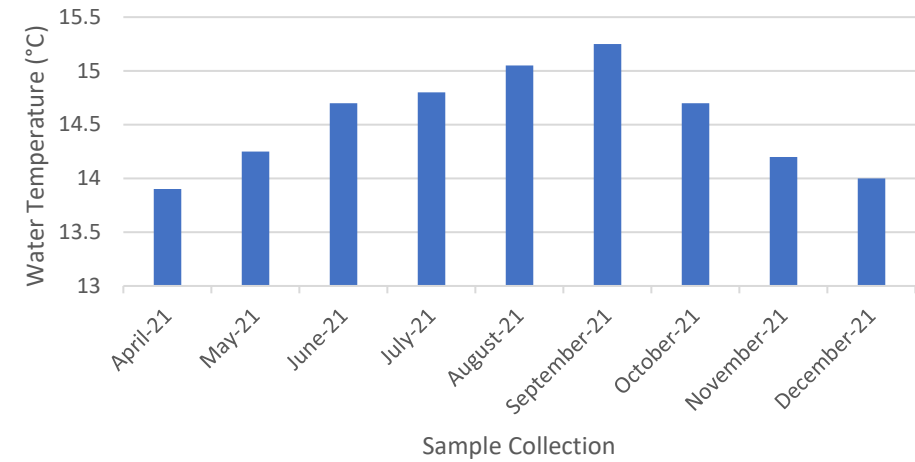
UNTCONCRE8.8 -- pH



UNTCONCRE8.8 – Nitrate-Nitrogen



UNTCONCRE8.8 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
4/20/2021	848	0.5	8	13.9
5/24/2021	759	0	8.25	14.3
6/17/2021	820	0.5	7.75	14.7
7/22/2021	832	0.5	7.5	14.8
8/19/2021	709	1	7.75	15.1
9/16/2021	771		8	15.3
10/21/2021	707		8.25	14.7
11/18/2021	722	1.5	7.75	14.2
12/16/2021	657	2	8	14

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	657	0	7.5	13.9
Max	848	2	8.25	15.3
Median	759	0.5	8	14.7

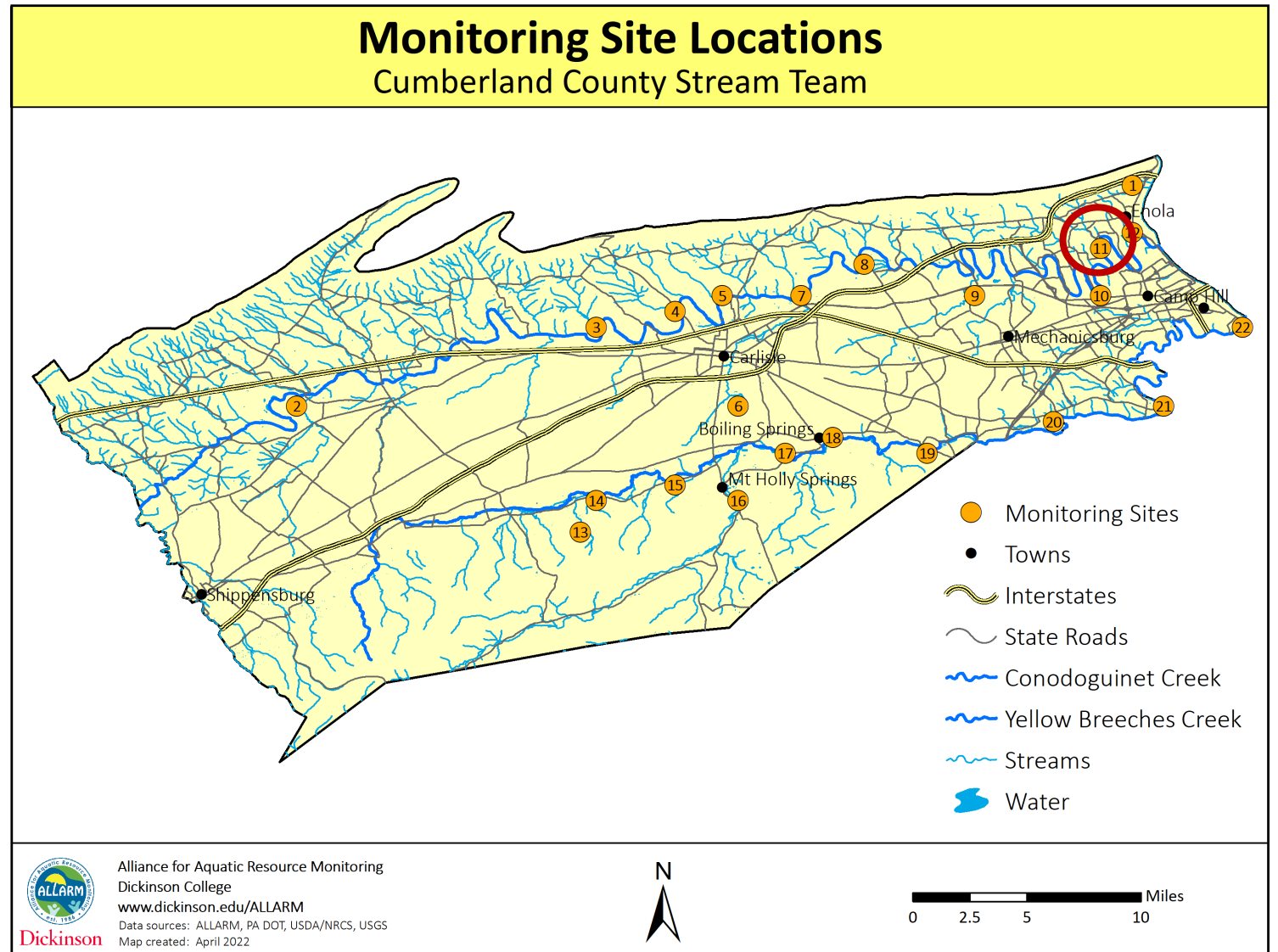
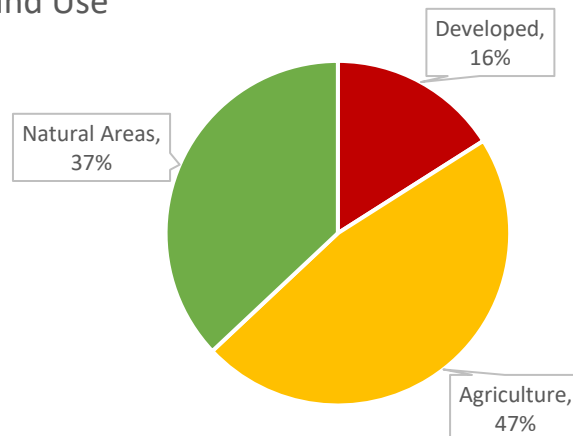
Conodoguinet at Acri Meadow Park (CONCRE 6.09)

Monitor(s): Greg John

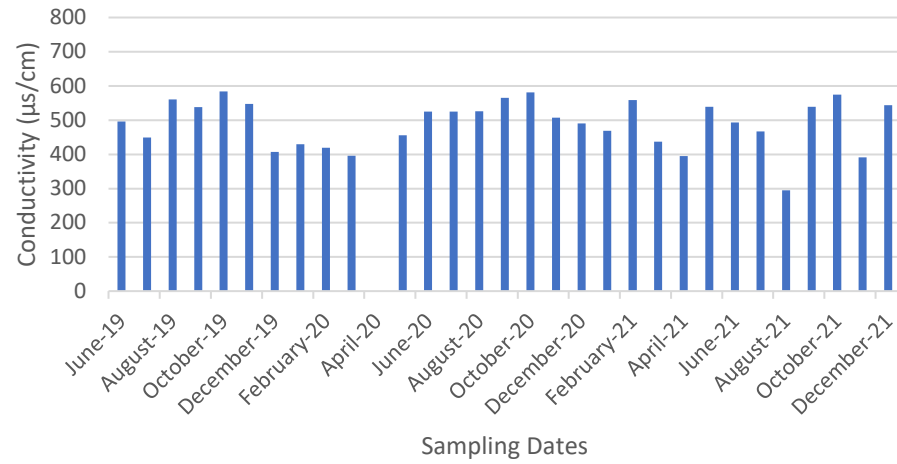
Site information:

- Drains: 494 mi²
- Impaired: Yes, aquatic life
- Designation: Warm water fishes (WWF)
- Geology: Shale and calcareous

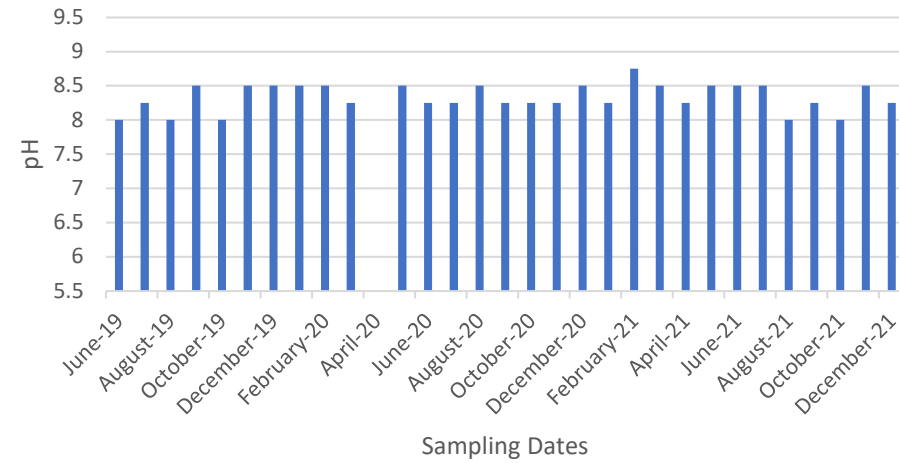
CONCRE 6.09 Land Use



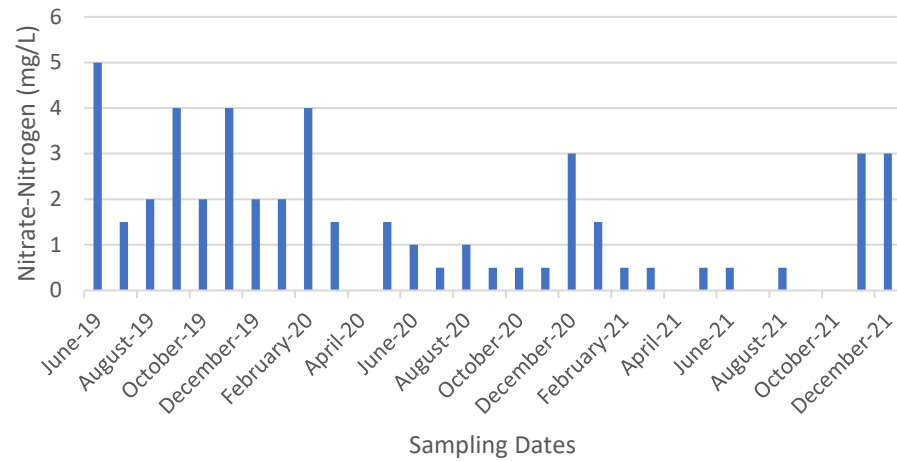
CONCRE6.09 -- Conductivity



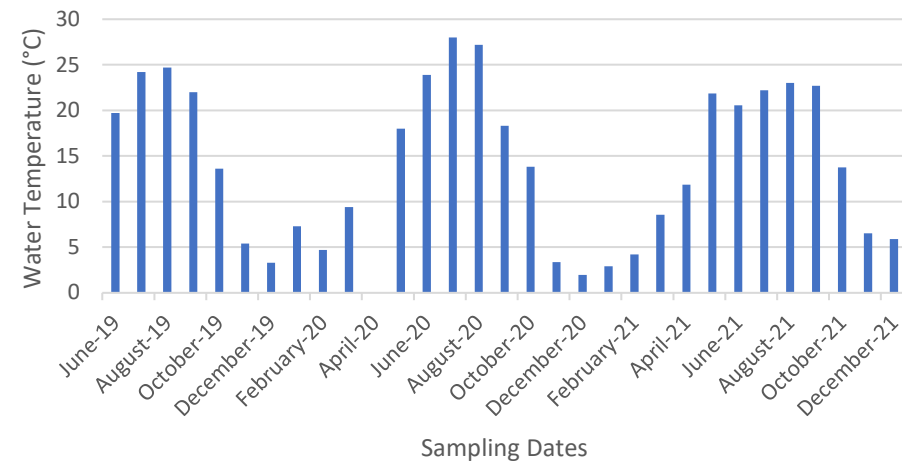
CONCRE6.09 -- pH



CONCRE6.09 -- Nitrate-Nitrogen



CONCRE6.09 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/15/2019	496	5	8	19.7
7/13/2019	449	1.5	8.25	24.2
8/17/2019	561	2	8	24.7
9/20/2019	538	4	8.5	22
10/19/2019	584	2	8	13.6
11/16/2019	548	4	8.5	5.4
12/13/2019	407	2	8.5	3.3
1/16/2020	430	2	8.5	7.3
2/20/2020	419	4	8.5	4.7
3/24/2020	396	1.5	8.25	9.4
5/22/2020	456	1.5	8.5	18
6/22/2020	525	1	8.25	23.9
7/20/2020	525	0.5	8.25	28
8/14/2020	526	1	8.5	27.2
9/18/2020	565	0.5	8.25	18.3
10/15/2020	581	0.5	8.25	13.8
11/19/2020	507	0.5	8.25	3.4
12/21/2020	490	3	8.5	2.0
1/14/2021	469	1.5	8.25	2.9
2/23/2021	559	0.5	8.75	4.2
3/23/2021	437	0.5	8.5	8.6
4/20/2021	395	0	8.25	11.9
5/24/2021	539	0.5	8.5	21.9
6/17/2021	493	0.5	8.5	20.6
7/22/2021	467	0	8.5	22.2
8/19/2021	295	0.5	8	23
9/16/2021	539		8.25	22.7
10/21/2021	575		8	13.8
11/18/2021	391	3	8.5	6.5
12/16/2021	544	3	8.25	5.9

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	295	0	8	2.0
Max	584	5	8.75	28
Median	502	1.5	8.3	13.8

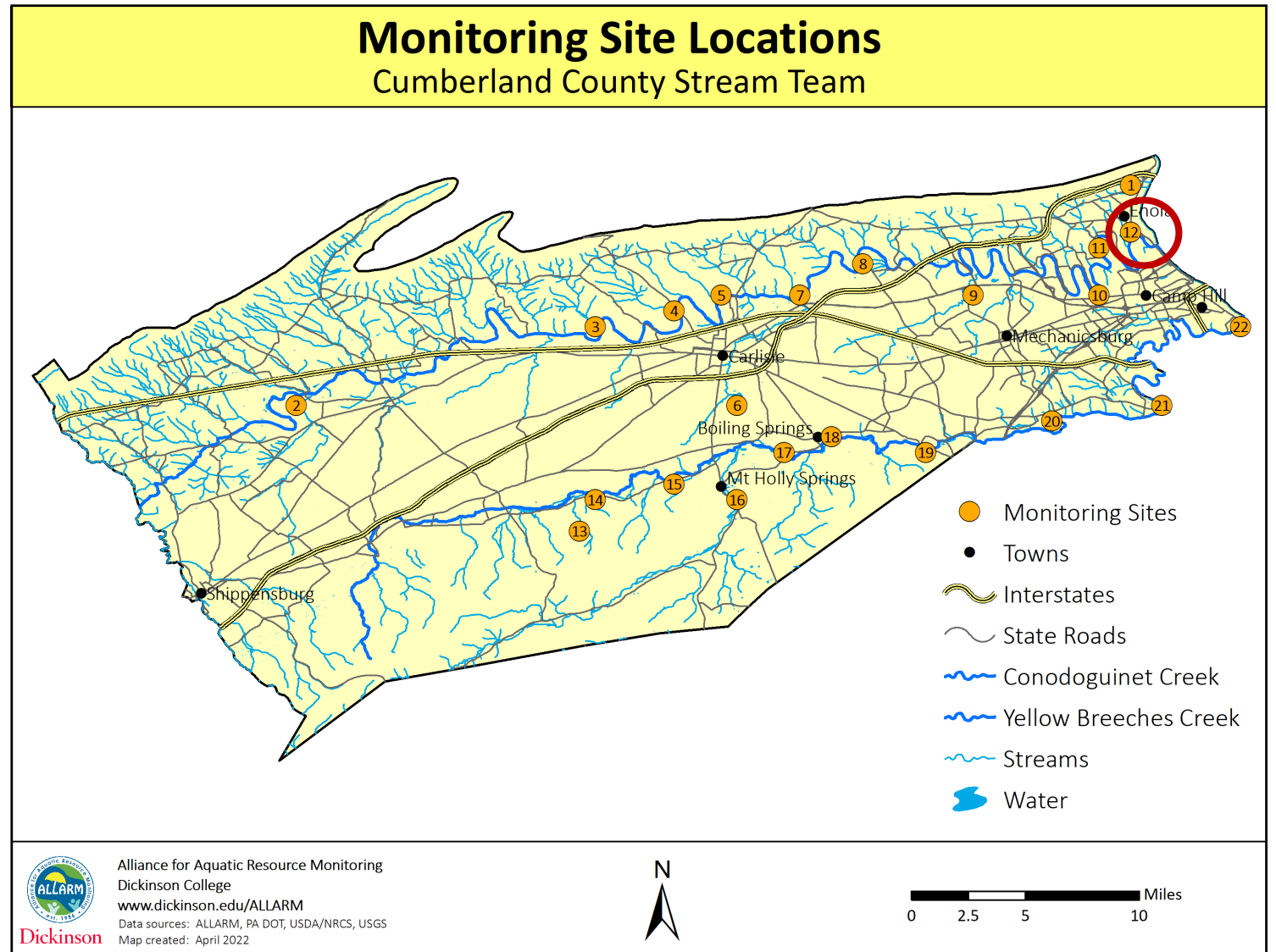
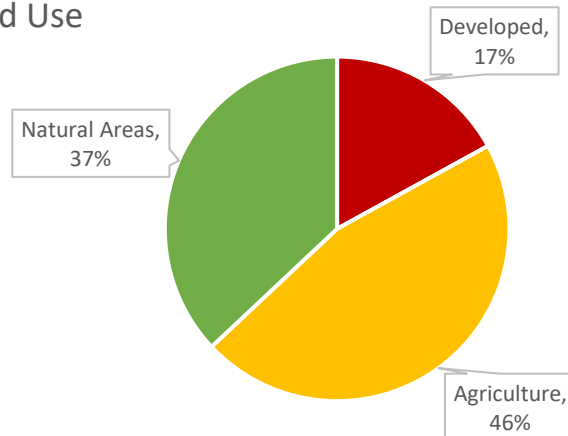
Conodoguinet at Ridley Park (CONCRE1.85)

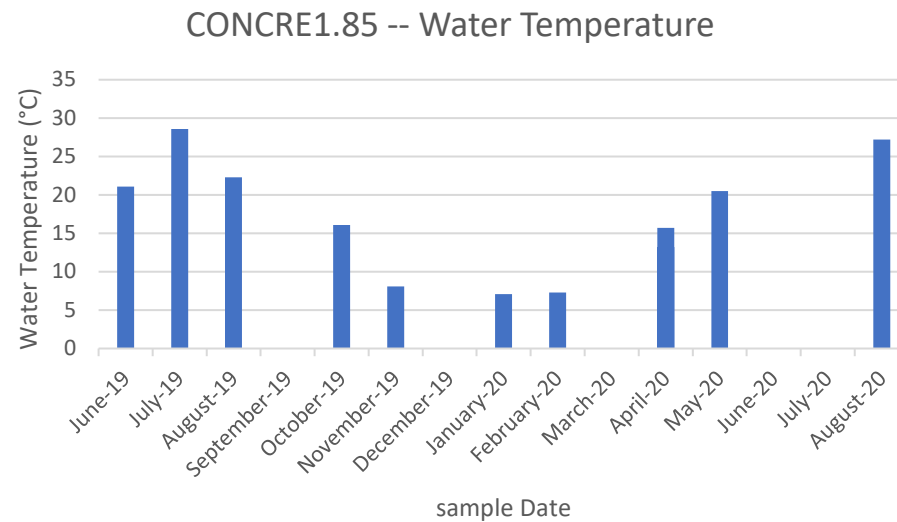
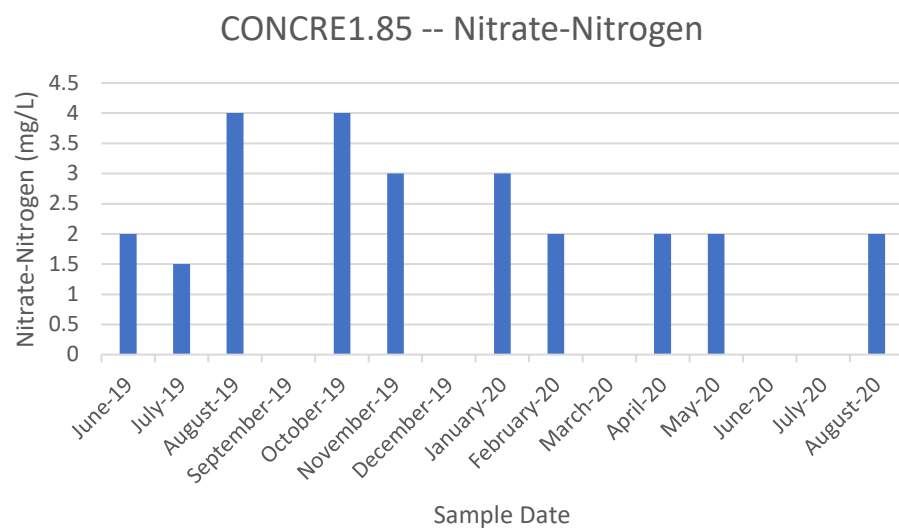
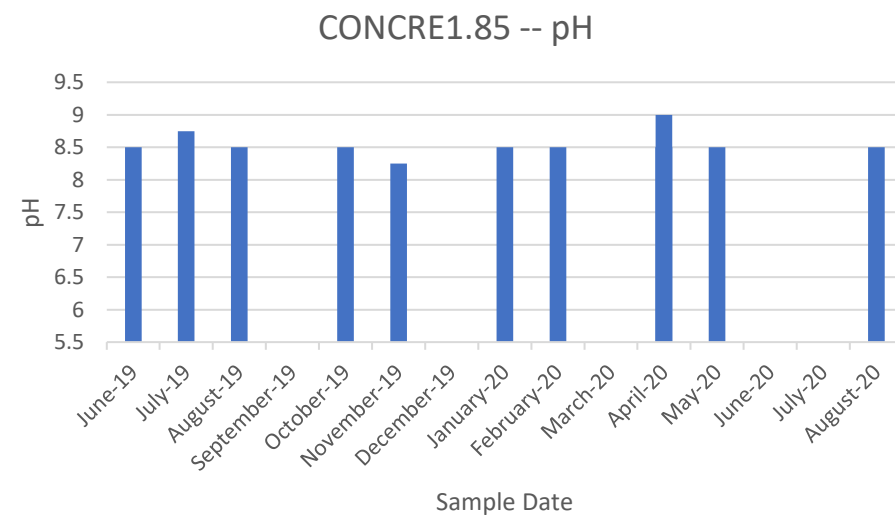
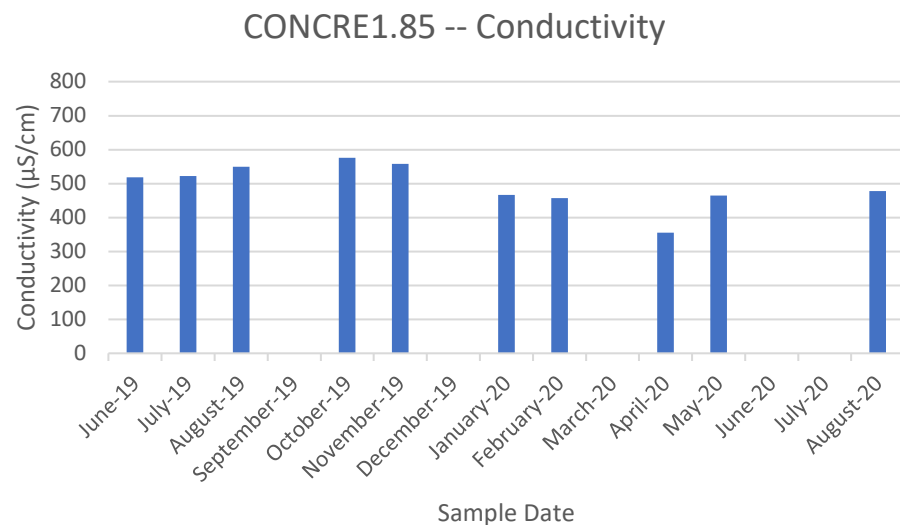
Monitor(s): Inactive

Site information:

- Drains: 501 mi²
- Impaired: Yes, aquatic life
- Designation: Warm water fishes (WWF)
- Geology: Shale and calcareous

CONCRE1.85 Land Use





**note: two values given for April of 202

Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/16/2019	519	2	8.5	21.1
7/29/2019	522	1.5	8.75	28.6
8/31/2019	550	4	8.5	22.3
10/8/2019	576	4	8.5	16.1
11/20/2019	558	3	8.25	8.1
1/4/2020	467	3	8.5	7.1
2/27/2020	457	2	8.5	7.3
4/4/2020	356	2	9	13.2
4/29/2020	314	2	8.5	15.7
5/24/2020	465	2	8.5	20.5
8/4/2020	478	2	8.5	27.2

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	314	1.5	8.25	7.1
Max	576	4	9	28.6
Median	478	2	8.5	16.1

Yellow Breeches

Site Profiles

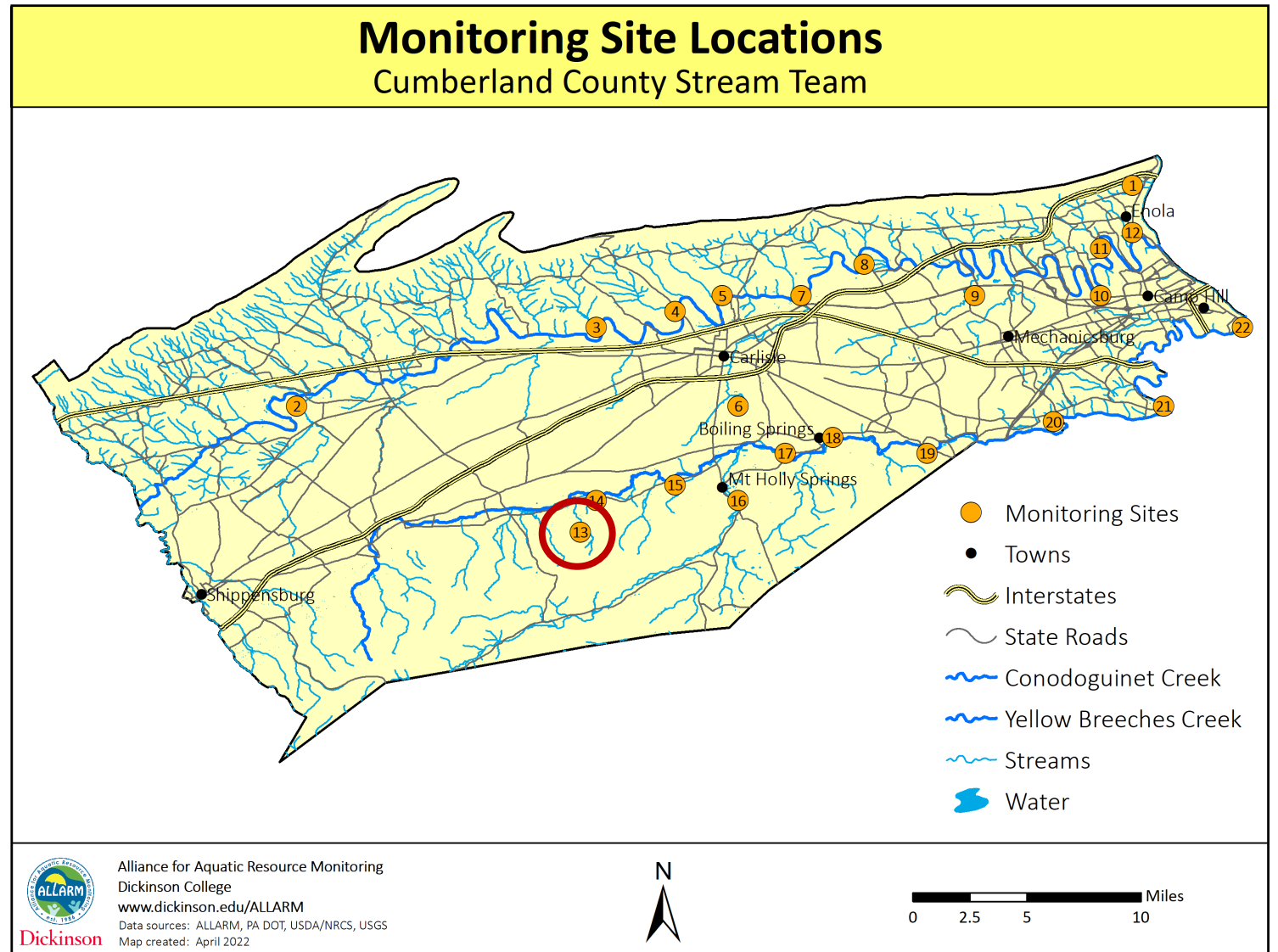
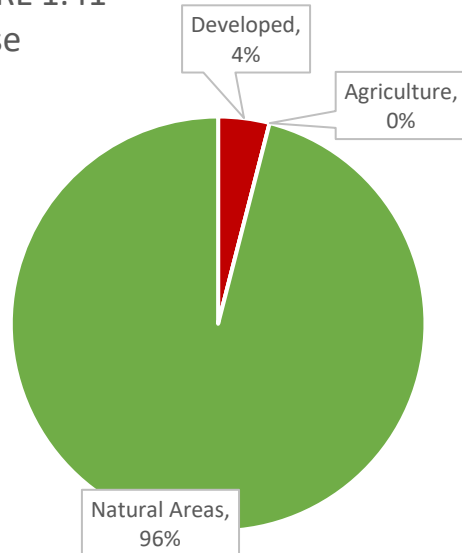
Kings Gap Run (UNTYELBREC 1.41)

Monitor(s): Retired Site (private property)

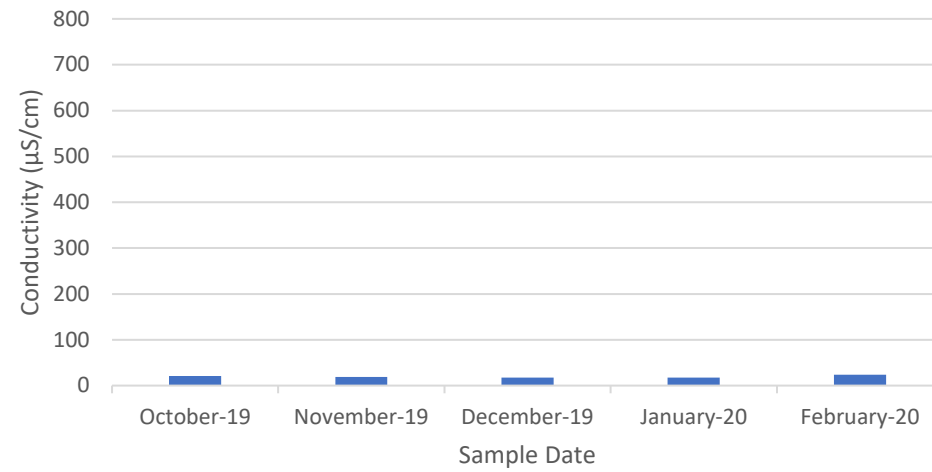
Site information:

- Drains: 2 mi²
- Impaired: Yes, aquatic life
- Designation: High-quality cold-water fishes stream (HQ-CWF)
- Geology: Igneous and metamorphic

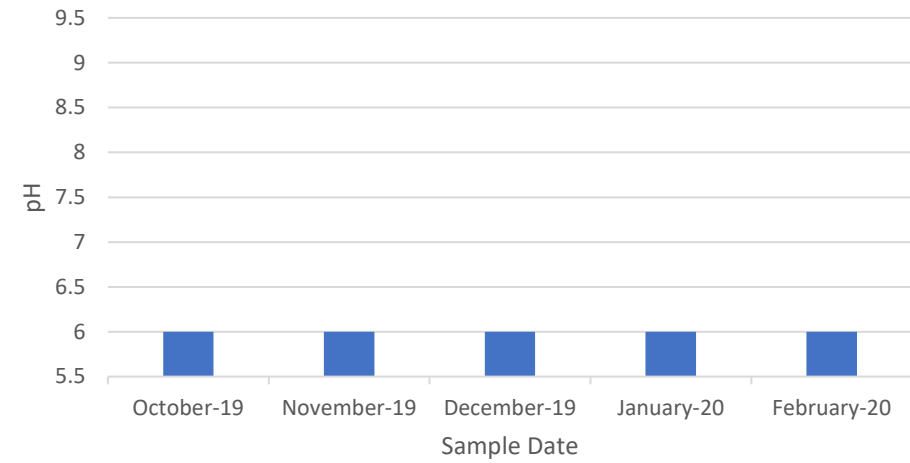
UNTYELBREC 1.41
Land Use



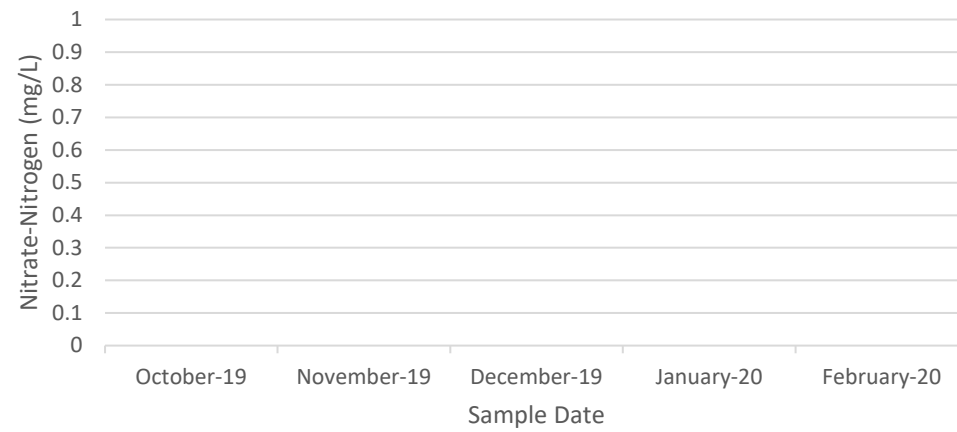
UNTYELBRECRE1.41 - Conductivity



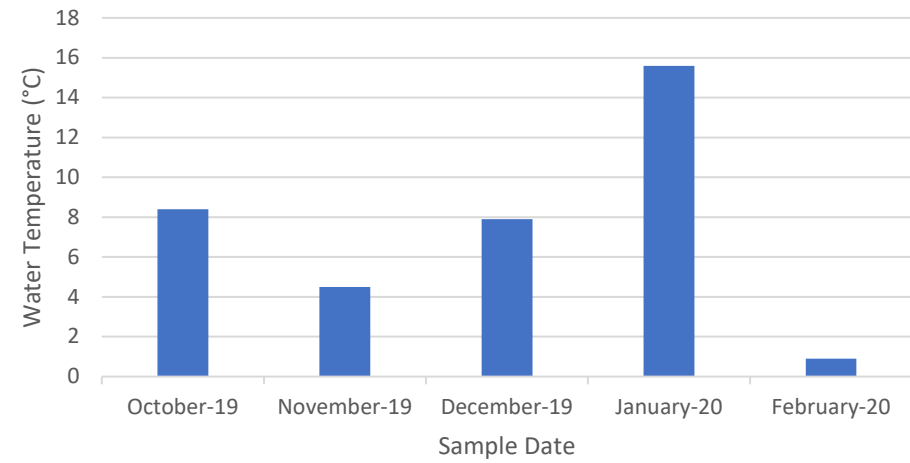
UNTYELBRECRE1.41 - pH



UNTYELBRECRE1.41 - Nitrate-Nitrogen



UNTYELBRECRE1.41 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
10/19/2019	21.1	0	6	8.4
11/16/2019	19	0	6	4.5
12/14/2019	17.5	0	6	7.9
1/17/2020	17.7	0	6	15.6
2/15/2020	23.5	0	6	0.9

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	17.5	0	6	0.9
Max	23.5	0	6	15.6
Median	19	0	6	7.9

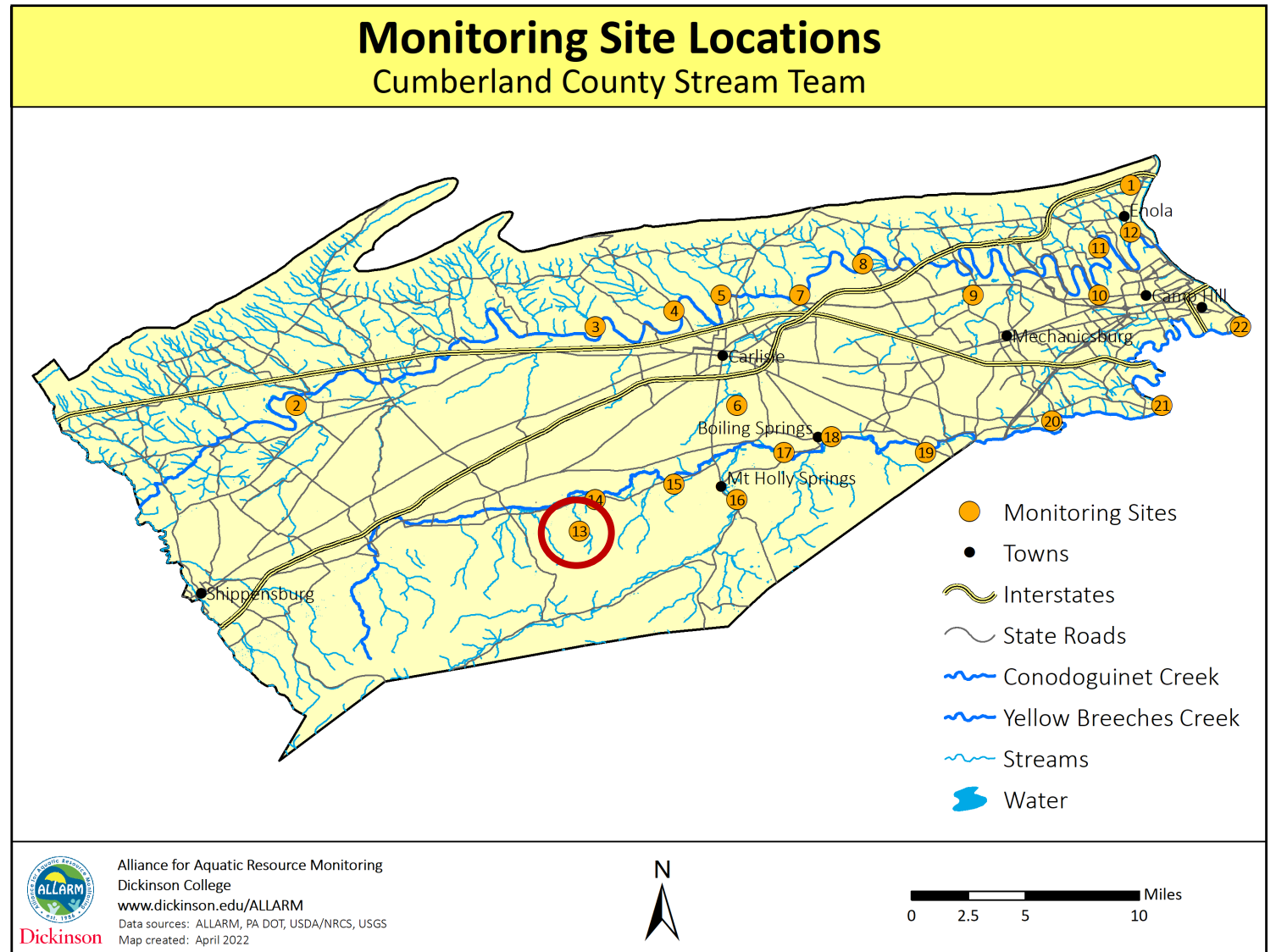
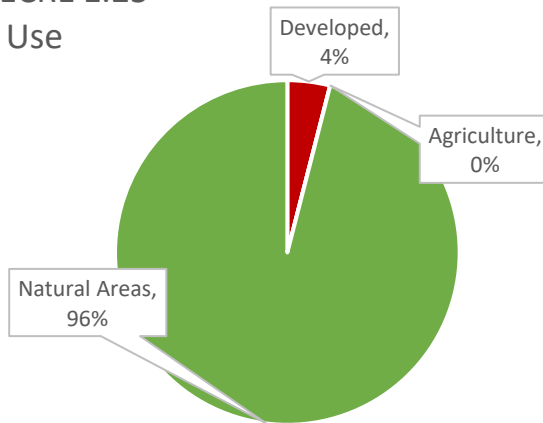
Kings Gap Run (UNTYELBRECCE 1.25)

Monitor(s): Michele Miller & Kelly McGinley
(was Biff Healy)

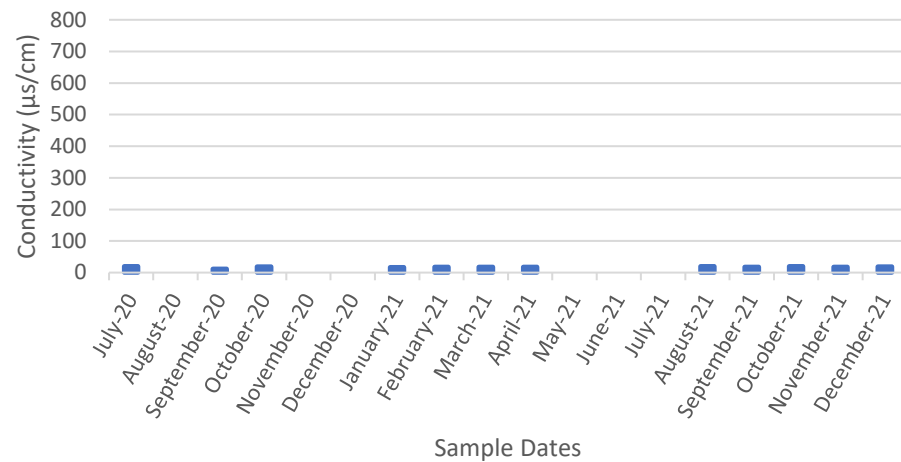
Site information:

- Drains: 2 mi²
- Impaired: Yes, atmospheric deposition (pH)
- Designation: High-quality cold-water fishes (HQ-CWF)
- Geology: Non-carbonate (100% - Igneous and metamorphic)

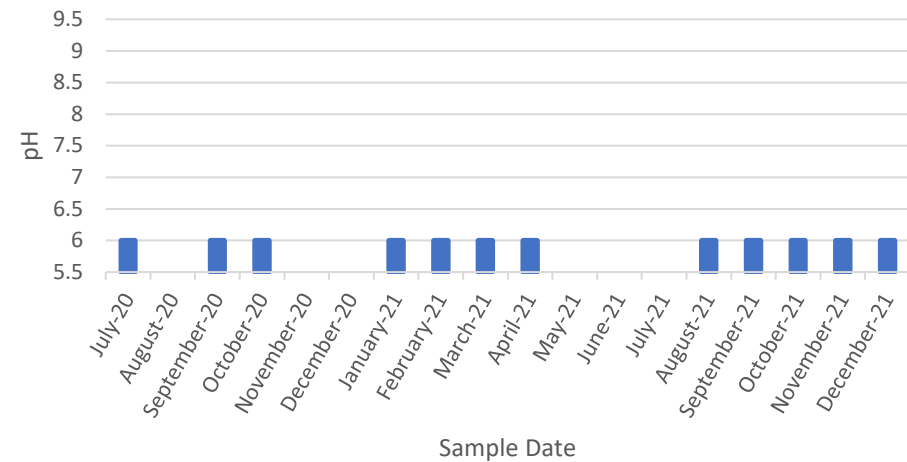
UNTYELBRECCE 1.25 Land Use



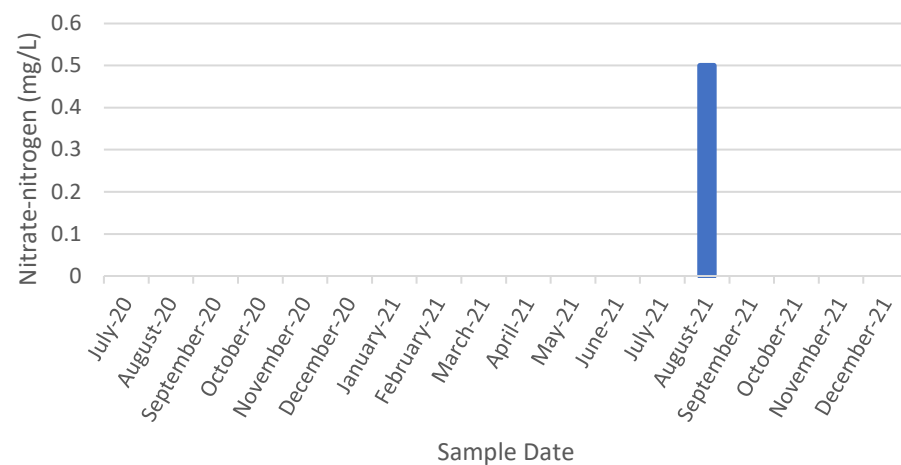
UNTYELBRECCE1.25 -- Conductivity



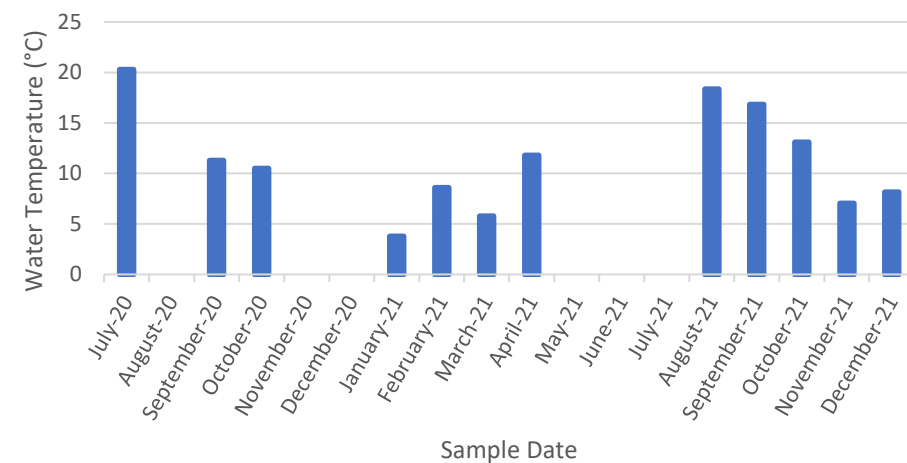
UNTYELBRECCE1.25 -- pH



UNTYELBRECCE1.25 -- Nitrate-nitrogen



UNTYELBRECCE1.25 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
7/17/2020	19.8	0	6	20.3
9/19/2020	11.8	0	6	11.3
10/17/2020	18.9	0	6	10.5
1/22/2021	16.9	0	6	3.8
2/20/2021	17.4	0	6	8.6
3/21/2021	17.5	0	6	5.8
4/15/2021	17.4	0	6	11.8
8/20/2021	19.5	0.5	6	18.4
9/19/2021	17.5	0	6	16.9
10/23/2021	19.4	0	6	13.1
11/21/2021	18.1	0	6	7.1
12/17/2021	18.2	0	6	8.2

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	11.8	0	6	3.8
Max	19.8	0.5	6	20.3
Median	17.8	0	6	10.9

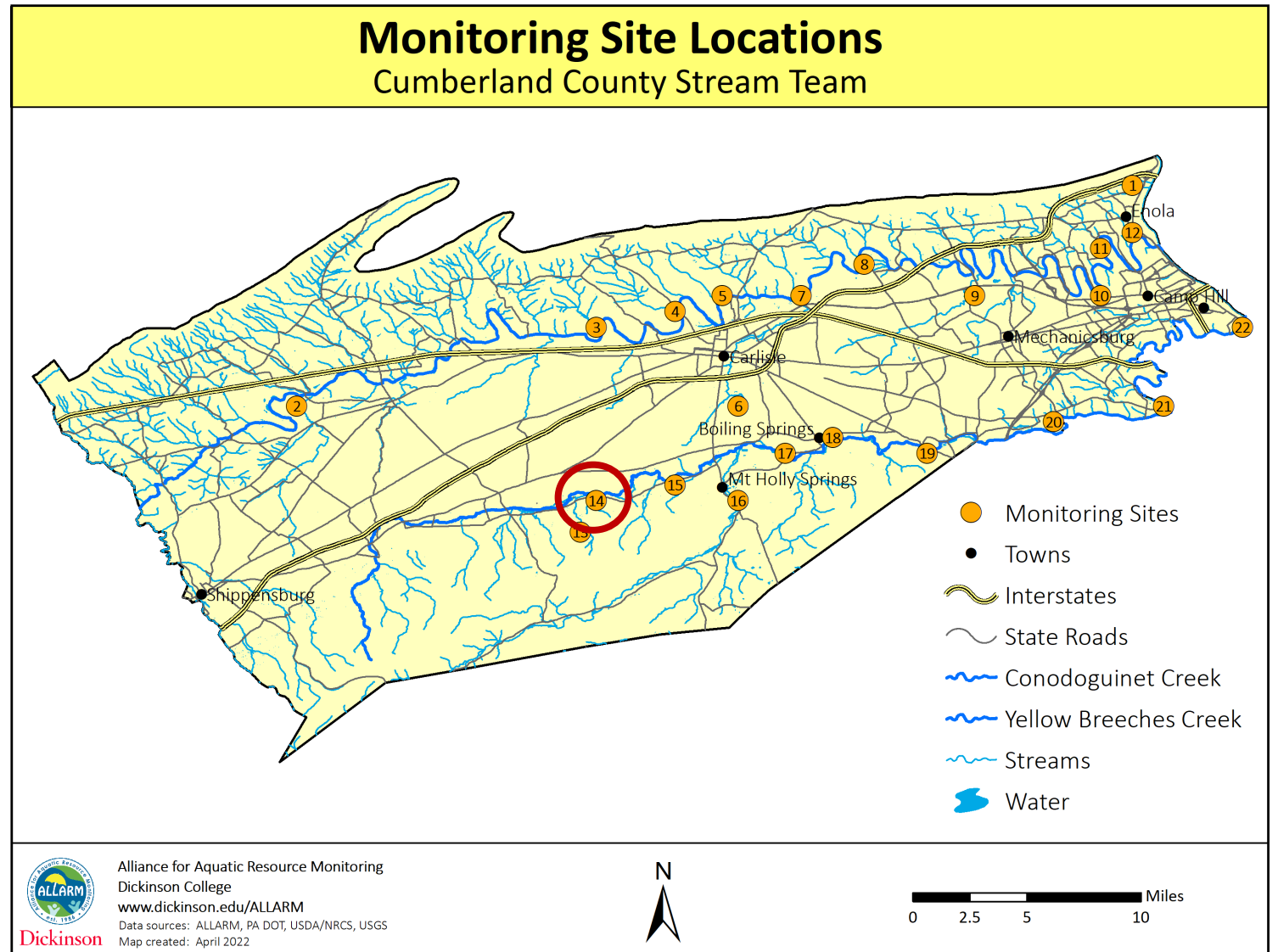
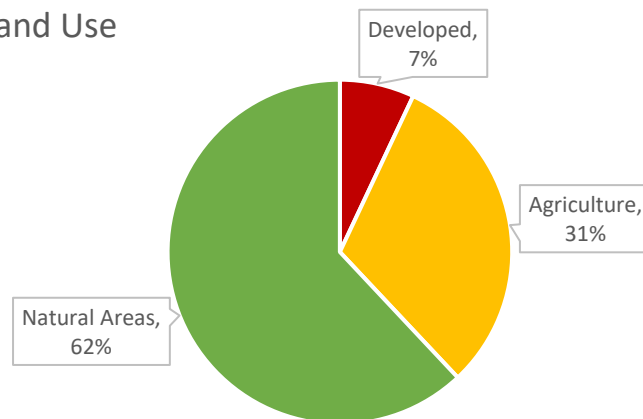
Yellow Breeches at Stuart Road (YELBREC 40.75)

Monitor(s): Elizabeth Grant and Lori Glace

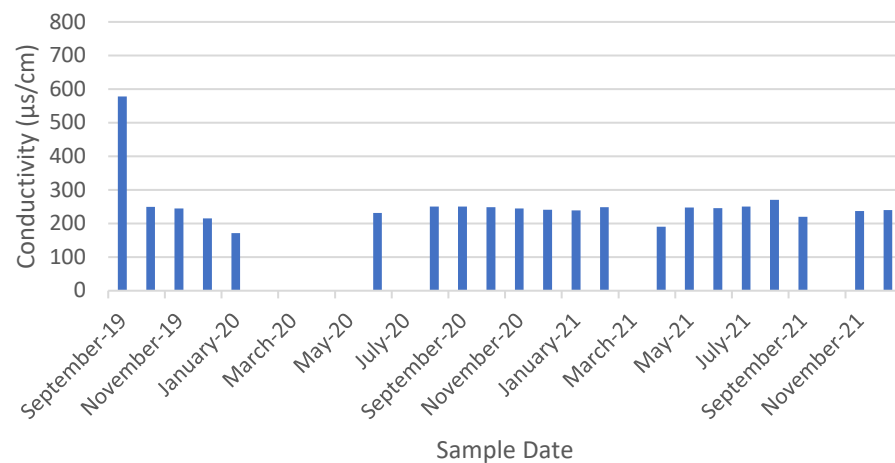
Site information:

- Drains: 45 mi²
- Impaired: Yes, recreational pathogens
- Designation: High-quality cold-water fishes stream (HQ-CWF)
- Geology: Igneous and metamorphic

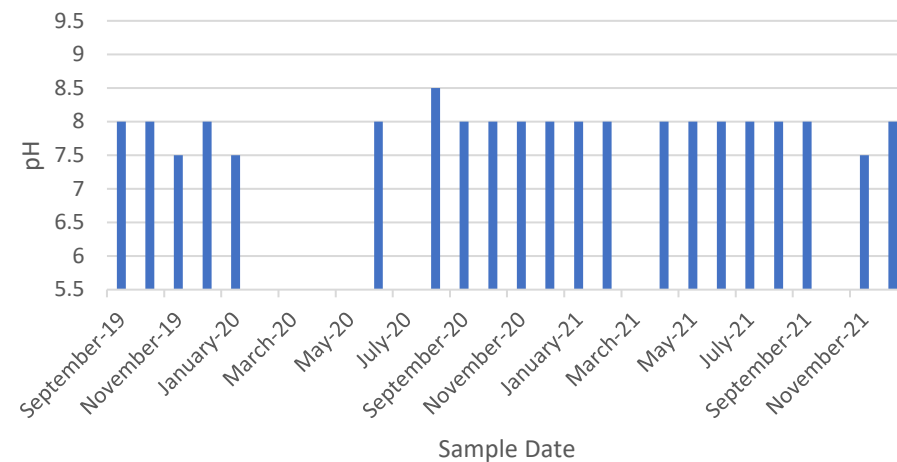
YELBREC 40.75 Land Use



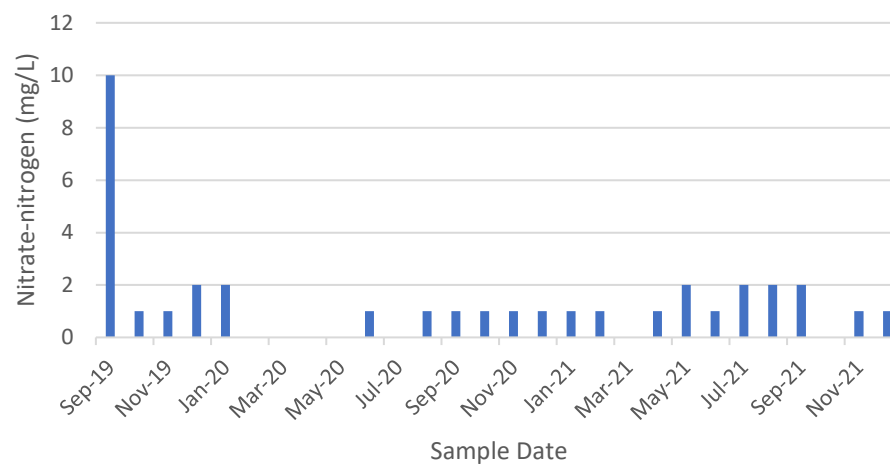
YELBRECRE 40.75 -- Conductivity



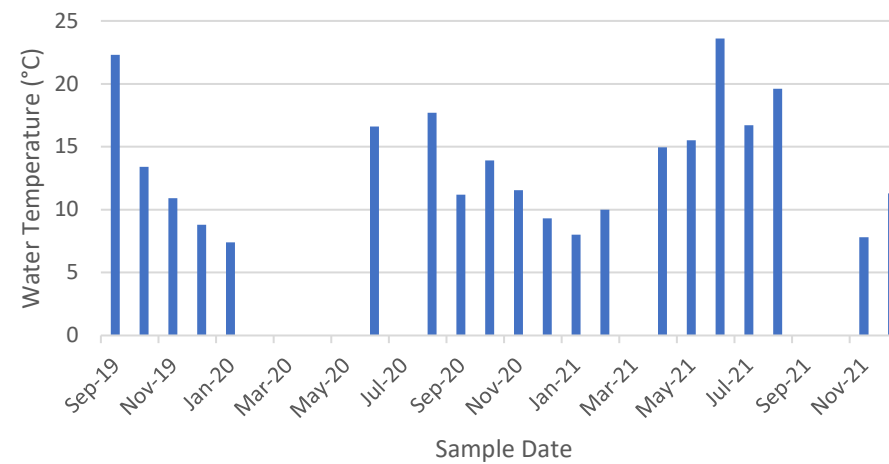
YELBRECRE 40.75 -- pH



YELBRECRE 40.75 -- Nitrate-nitrogen



YELBRECRE 40.75 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
9/24/2019	578	10	8	22.3
10/20/2019	249	1	8	13.4
11/18/2019	245	1	7.5	10.9
12/22/2019	215	2	8	8.8
1/25/2020	170.9	2	7.5	7.4
6/22/2020	231	1	8	16.6
8/24/2020	250	1	8.5	17.7
9/21/2020	250	1	8	11.2
10/16/2020	248	1	8	13.9
11/23/2020	245	1	8	11.6
12/21/2020	241	1	8	9.3
1/24/2021	239	1	8	8
2/21/2021	248	1	8	10
4/19/2021	190	1	8	15.0
5/24/2021	247	2	8	15.5
6/18/2021	246	1	8	23.6
7/19/2021	250	2	8	16.7
8/20/2021	270	2	8	19.6
9/17/2021	220	2	8	
11/22/2021	237	1	7.5	7.8
12/17/2021	240	1	8	11.3

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	170.9	1	7.5	7.4
Max	578	10	8.5	23.6
Median	245	1	8	12.5

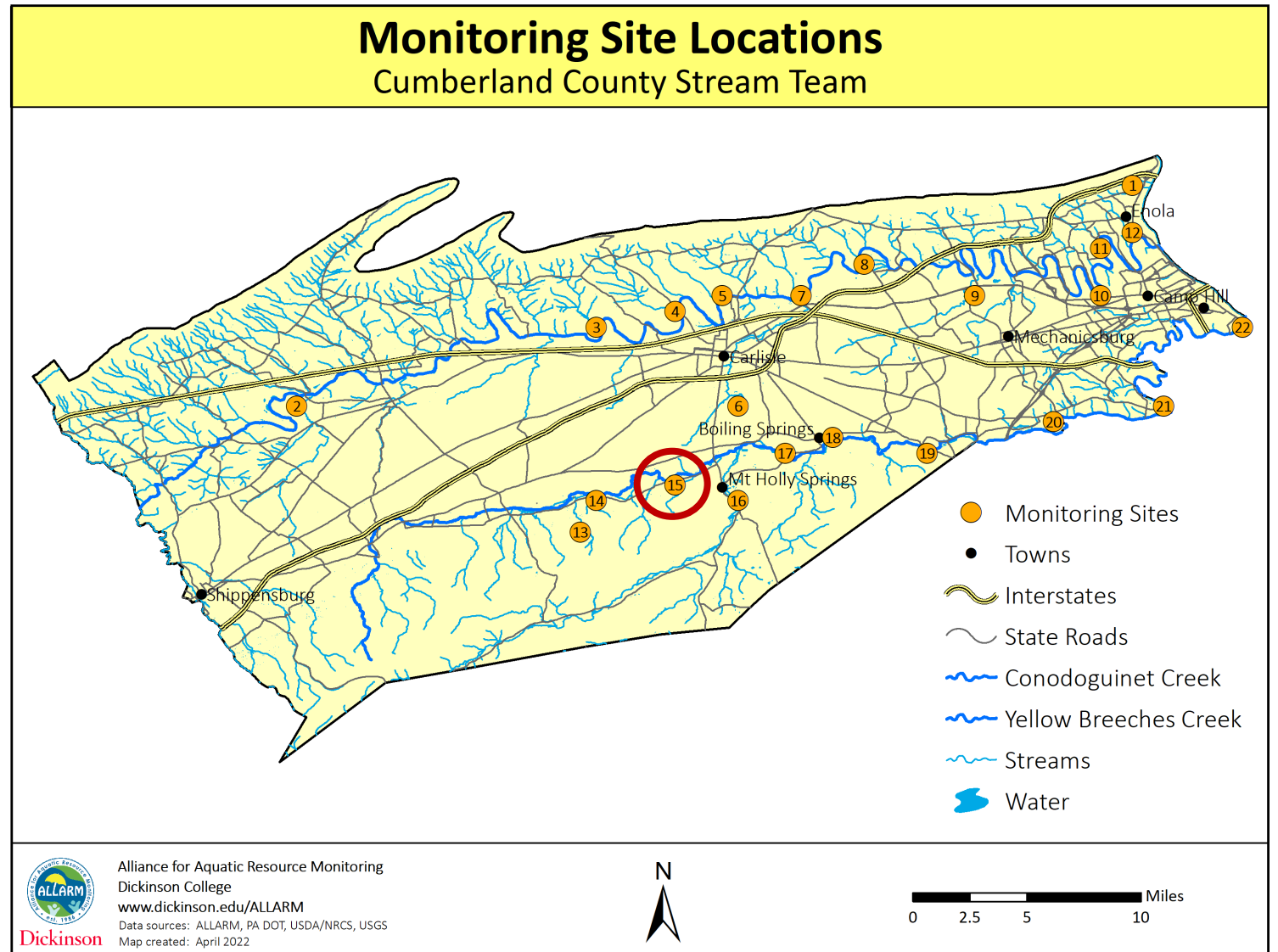
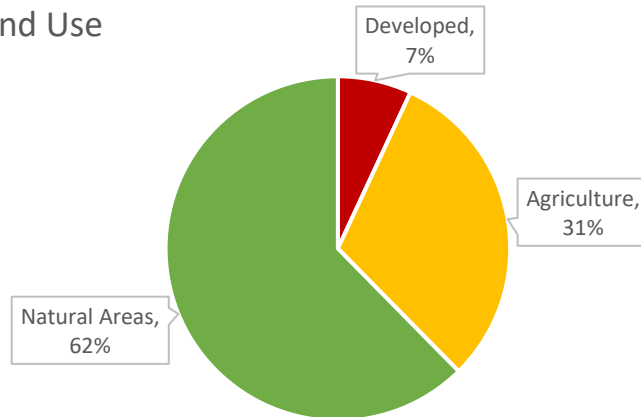
Yellow Breeches at Barnitz Mill (YELBREC 36.90)

Monitor(s): Elise, Katelin & Stephen Moul

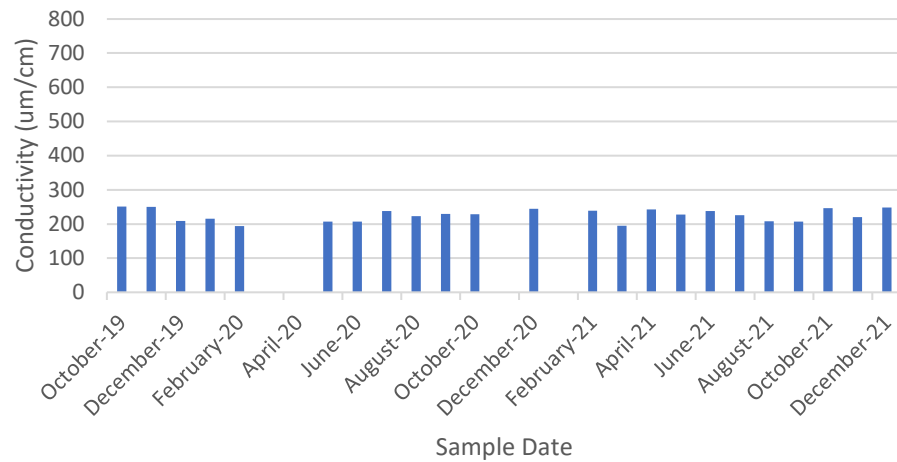
Site information:

- Drains: 55 mi²
- Impaired: No
- Designation: High-quality cold-water fishes stream (HQ-CWF)
- Geology: Igneous, metamorphic and limestone

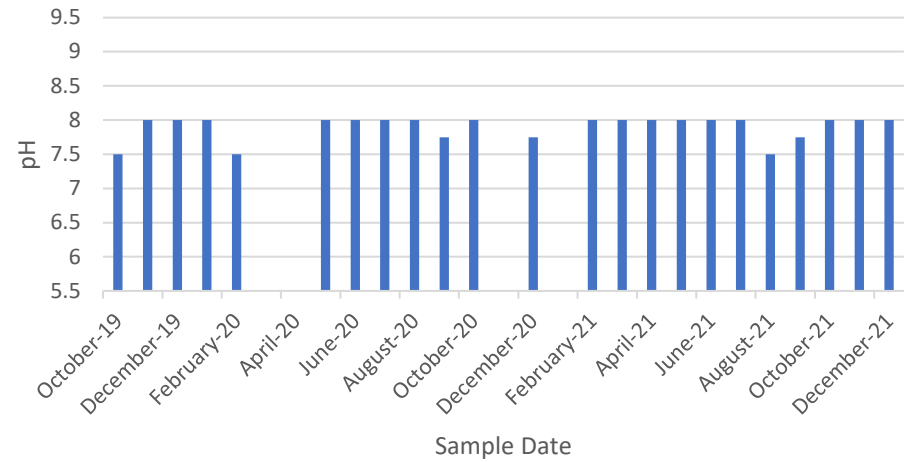
YELBREC 36.90
Land Use



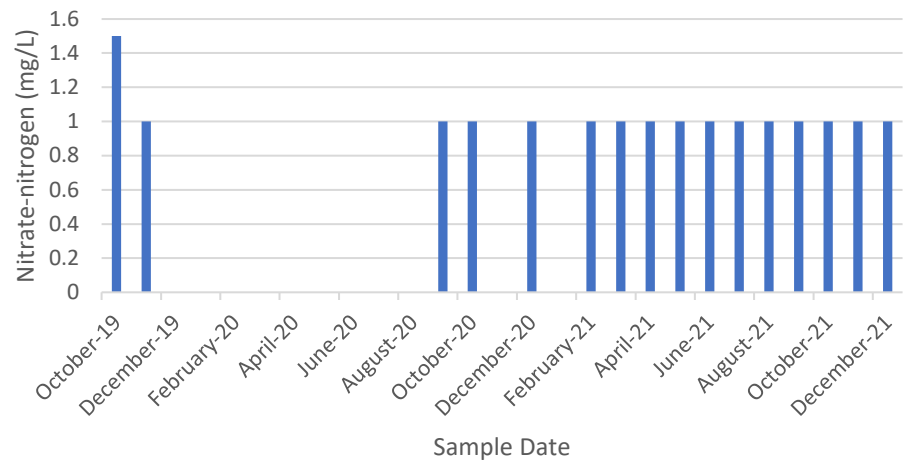
YELBRECCE 36.90 -- Conductivity



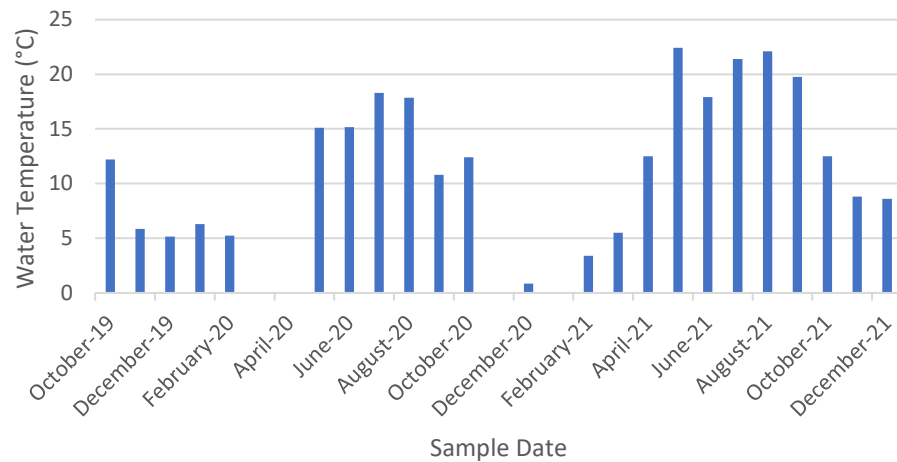
YELBRECCE 36.90 -- pH



YELBRECCE 36.90 -- Nitrate-nitrogen



YELBRECCE36.90 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
10/20/2019	251	1.5	7.5	12.2
11/17/2019	250	1	8	5.9
12/21/2019	209	0	8	5.2
1/19/2020	216	0	8	6.3
2/16/2020	194	0	7.5	5.3
5/24/2020	207	0	8	15.1
6/21/2020	207	0	8	15.2
7/19/2020	238	0	8	18.3
8/22/2020	223	0	8	17.9
9/20/2020	230	1	7.75	10.8
10/18/2020	229	1	8	12.4
12/20/2020	245	1	7.75	0.9
2/21/2021	239	1	8	3.4
3/21/2021	194.8	1	8	5.5
4/18/2021	243	1	8	12.5
5/23/2021	228	1	8	22.4
6/20/2021	238	1	8	17.9
7/18/2021	226	1	8	21.4
8/19/2021	208	1	7.5	22.1
9/18/2021	207	1	7.75	19.8
10/24/2021	246	1	8	12.5
11/21/2021	220	1	8	8.8
12/19/2021	248	1	8	8.6

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	194	0	7.5	0.9
Max	251	1.5	8	22.4
Median	228	1	8	12.4

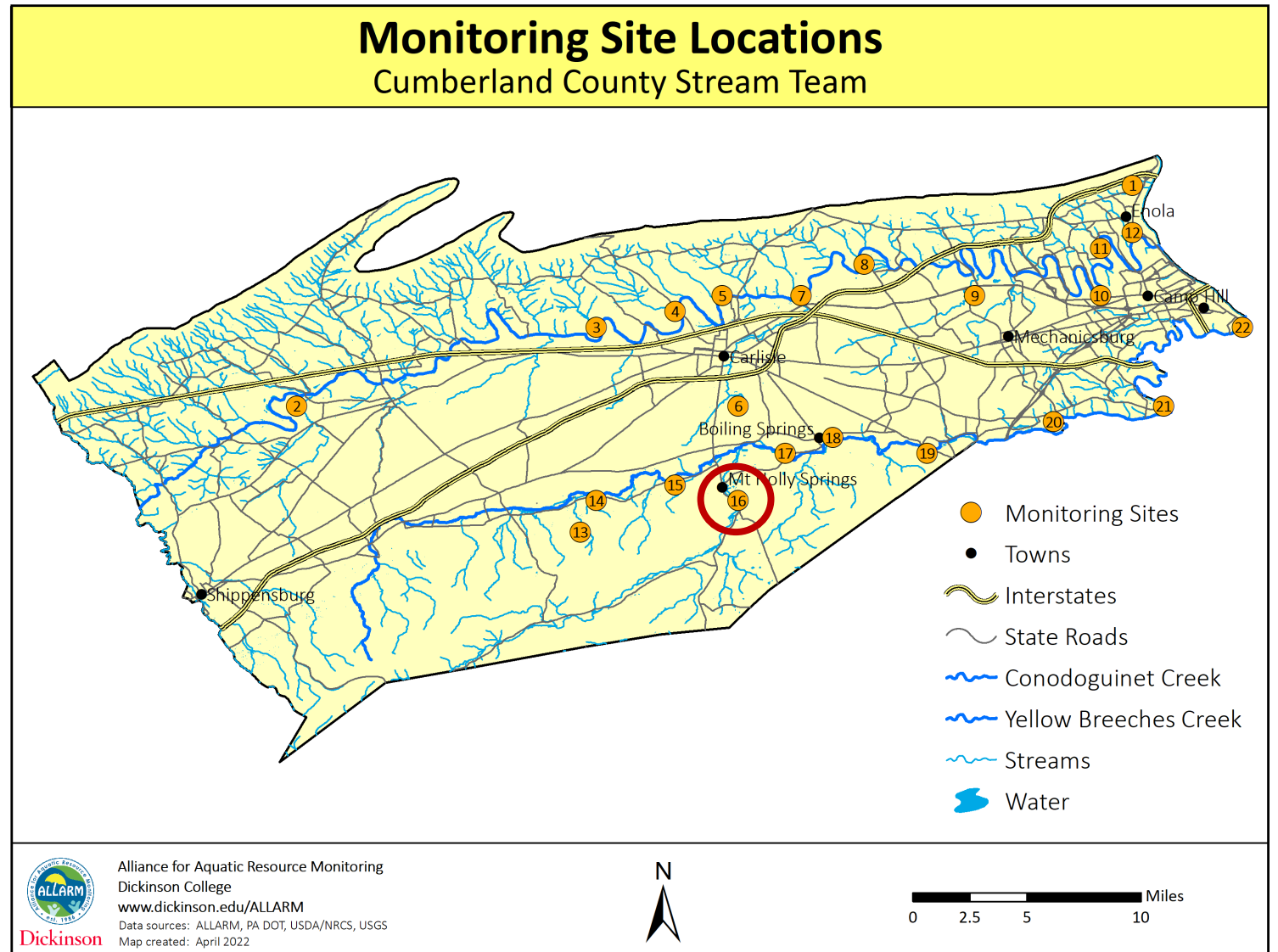
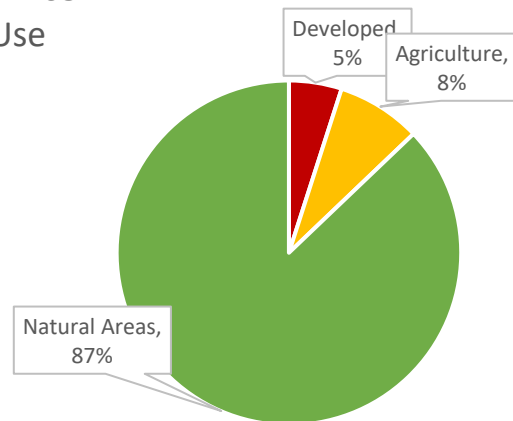
Mountain Creek at Holly Preserve (MOUCRE2.65)

Monitor(s): Samantha Anderson & Jonathan Daniels

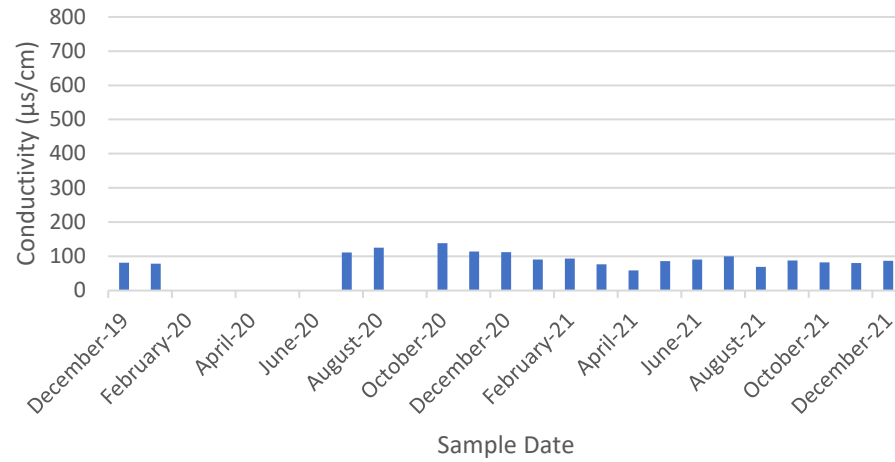
Site information:

- Drains: 45 mi²
- Impaired: No
- Designation: Cold water fishes (CWF)
- Geology: Igneous and metamorphic

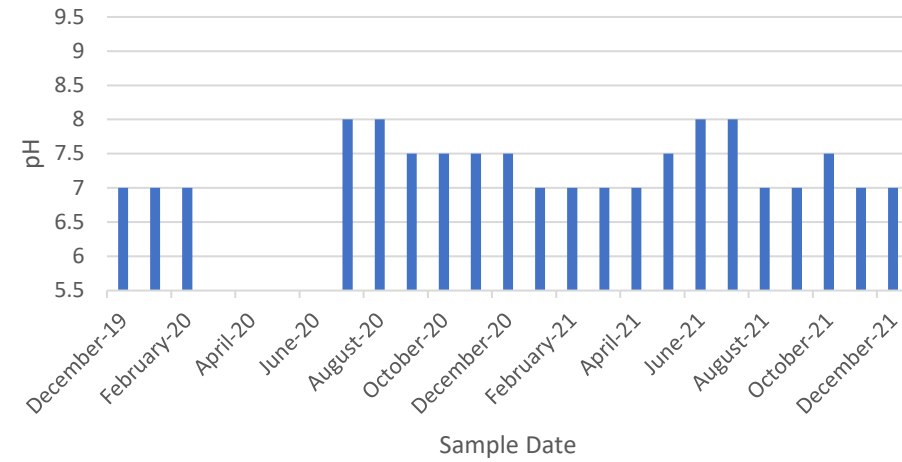
MOUCRE2.65
Land Use



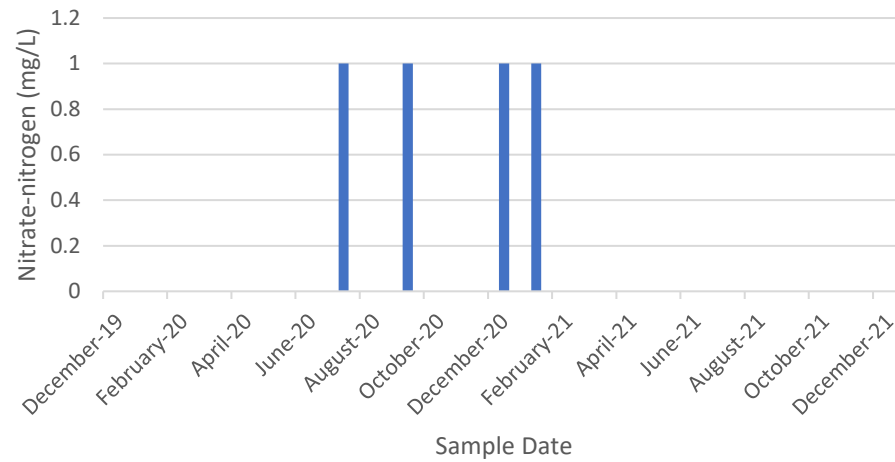
MOUCRE 2.65 -- Conductivity



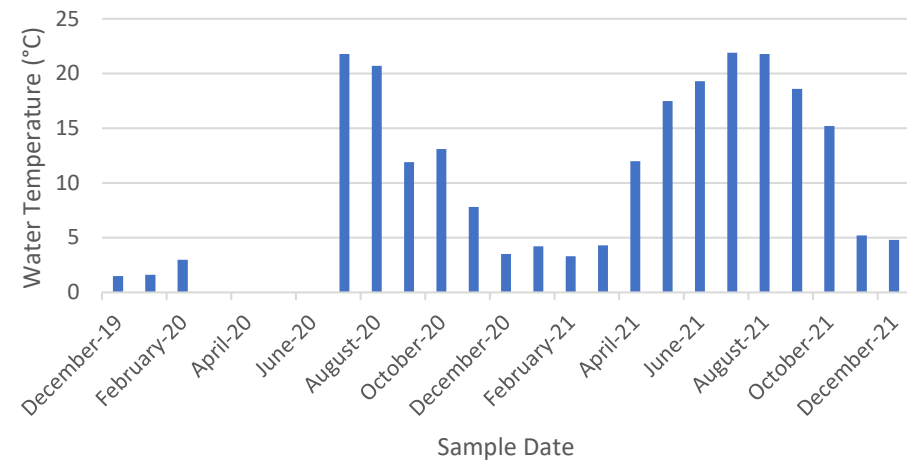
MOUCRE 2.65 -- pH



MOUCRE 2.65 -- Nitrate-nitrogen



MOUCRE 2.65 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/21/2019	80.8	0	7	1.5
1/20/2020	78.4	0	7	1.6
2/16/2020		0	7	3
7/19/2020	110.8	1	8	21.8
8/24/2020	124.8	0	8	20.7
9/19/2020		1	7.5	11.9
10/19/2020	138	0	7.5	13.1
11/14/2020	113.4	0	7.5	7.8
12/20/2020	111.8	1	7.5	3.5
1/18/2021	90	1	7	4.2
2/22/2021	93.5		7	3.3
3/21/2021	76	0	7	4.3
4/18/2021	58.5	0	7	12
5/22/2021	85.8	0	7.5	17.5
6/20/2021	90.1	0	8	19.3
7/18/2021	99.4	0	8	21.9
8/19/2021	68.8	0	7	21.8
9/19/2021	87.4	0	7	18.6
10/25/2021	82.1	0	7.5	15.2
11/22/2021	80.5	0	7	5.2
12/20/2021	86.4	0	7	4.8

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	58.5	0	7	1.5
Max	138	1	8	21.9
Median	87.4	0	7	11.9

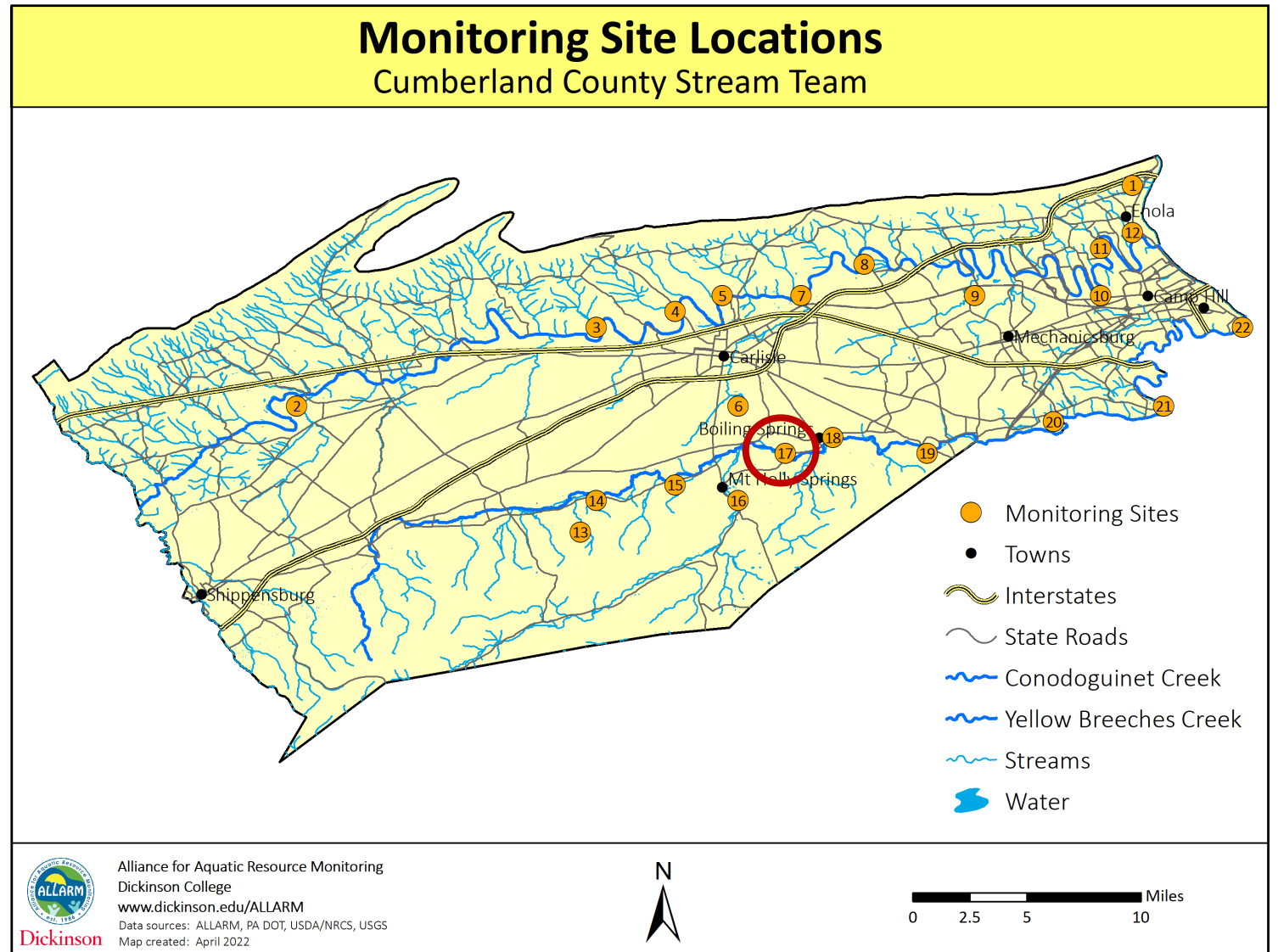
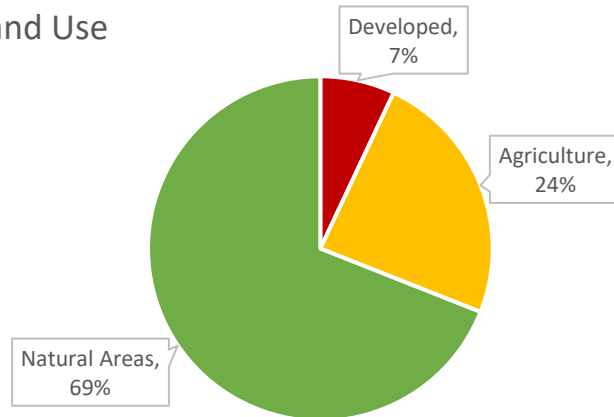
Yellow Breeches at South Middleton Park (YELBREC 34.93)

Monitor(s): Elizabeth & Tracy Aichele

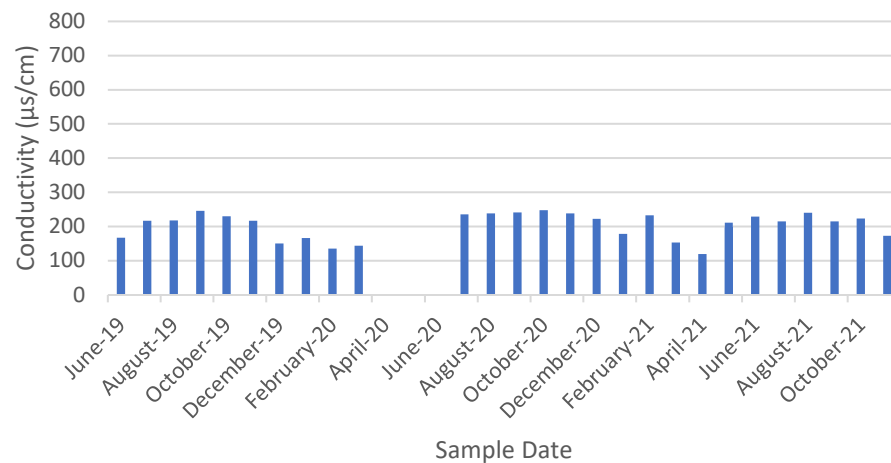
Site information:

- Drains: 114 mi²
- Impaired: No
- Designation: High-quality cold water fishes stream (HQ-CWF)
- Geology: Igneous and metamorphic

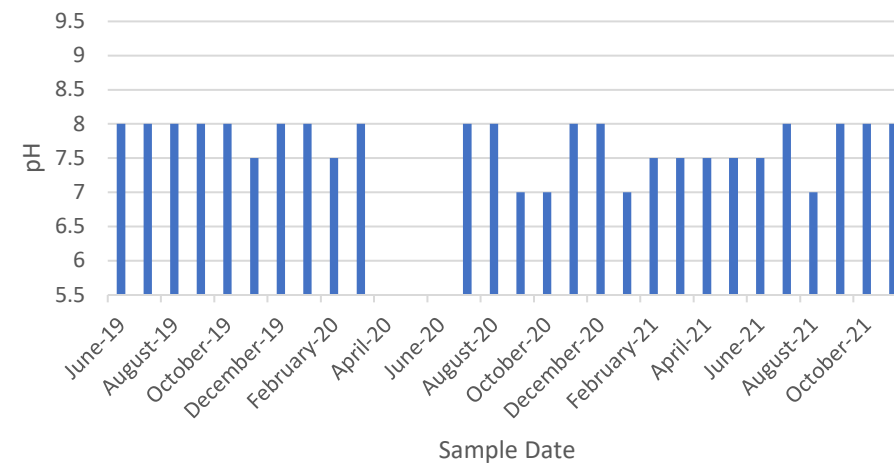
YELBREC 34.93
Land Use



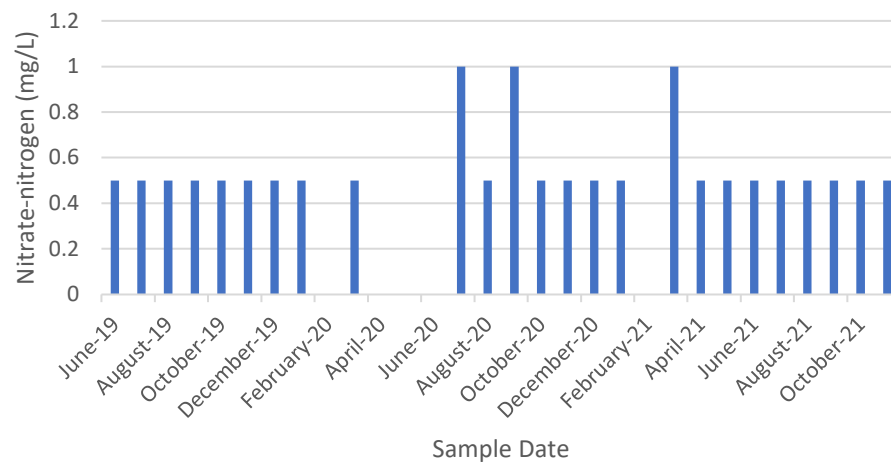
YELBREC34.93 -- Conductivity



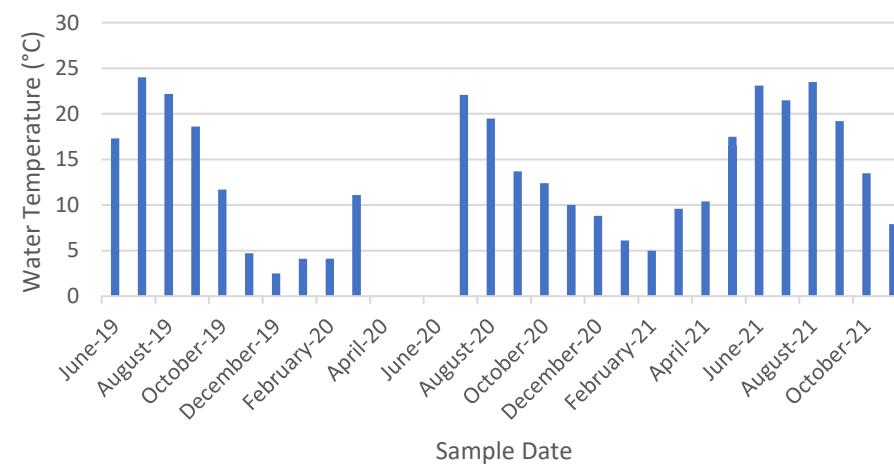
YELBREC34.93 -- pH



YELBREC34.93 -- Nitrate



YELBREC34.93 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/13/2019	167.1	0.5	8	17.3
7/21/2019	217	0.5	8	24
8/17/2019	218	0.5	8	22.2
9/21/2019	246	0.5	8	18.6
10/20/2019	230	0.5	8	11.7
11/17/2019	217	0.5	7.5	4.7
12/21/2019	150	0.5	8	2.5
1/19/2020	166.2	0.5	8	4.1
2/15/2020	135.6	0	7.5	4.1
3/22/2020	143.8	0.5	8	11.1
7/16/2020	236	1	8	22.1
8/21/2020	238	0.5	8	19.5
9/17/2020	241	1	7	13.7
10/17/2020	248	0.5	7	12.4
11/23/2020	238	0.5	8	10
12/13/2020	222	0.5	8	8.8
1/17/2021	178.9	0.5	7	6.1
2/21/2021	233	0	7.5	5
3/21/2021	153.3	1	7.5	9.6
4/18/2021	119.7	0.5	7.5	10.4
5/17/2021	196.9	0	7.5	16.5
5/24/2021	211	0.5	7.5	17.5
6/21/2021	229	0.5	7.5	23.1
7/19/2021	215	0.5	8	21.5
8/21/2021	240	0.5	7	23.5
9/20/2021	215	0.5	8	19.2
10/24/2021	223	0.5	8	13.5
11/22/2021	172.6	0.5	8	7.9

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	119.7	0	7	2.5
Max	248	1	8	24
Median	217	0.5	8	13.0

*Note: two dates for May 2021

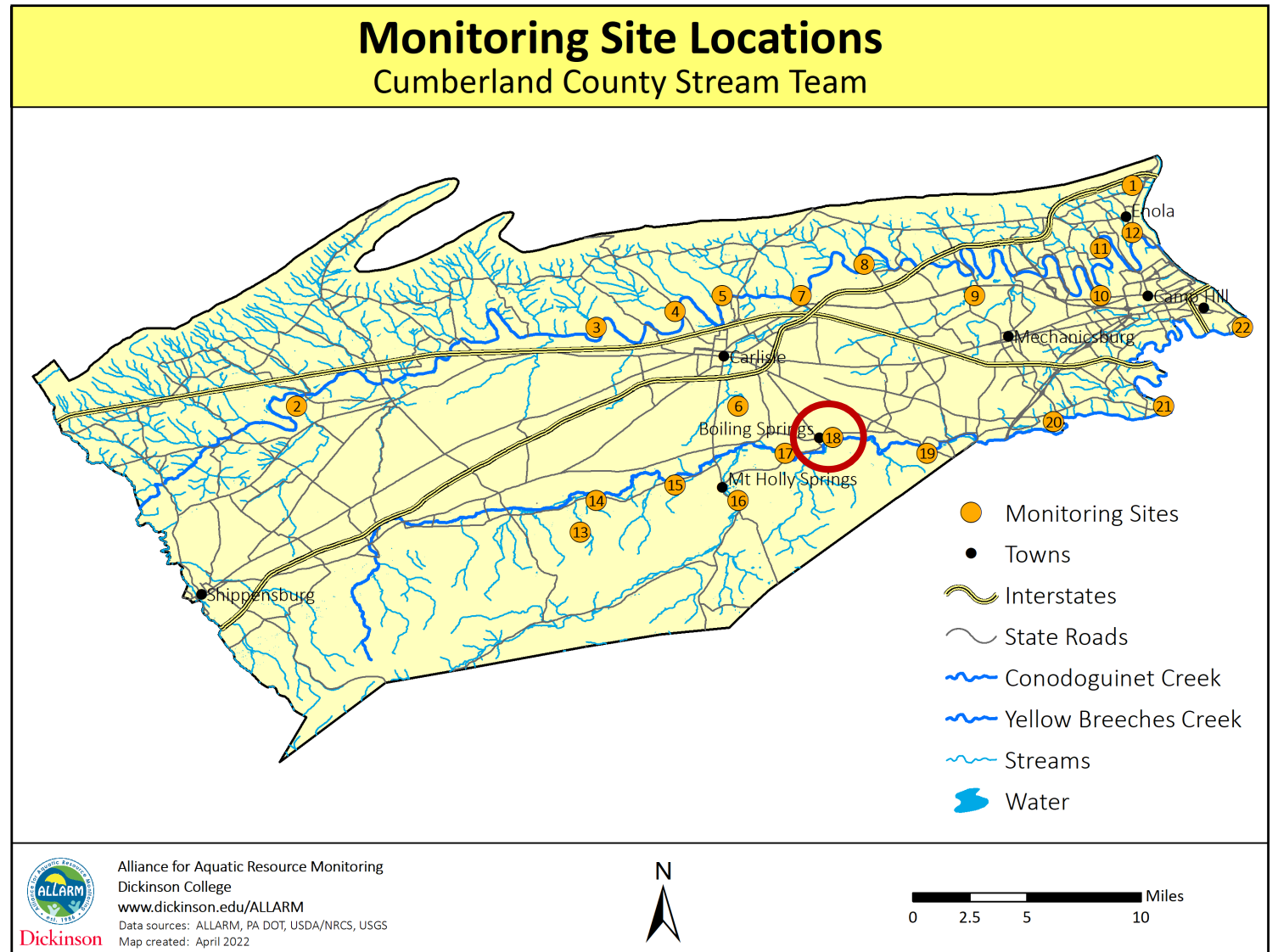
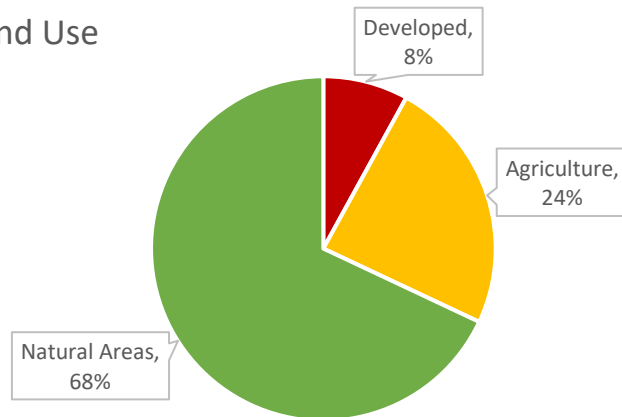
Yellow Breeches at Children's Lake (YELBREC 32.32)

Monitor(s): Kelly Kurtas

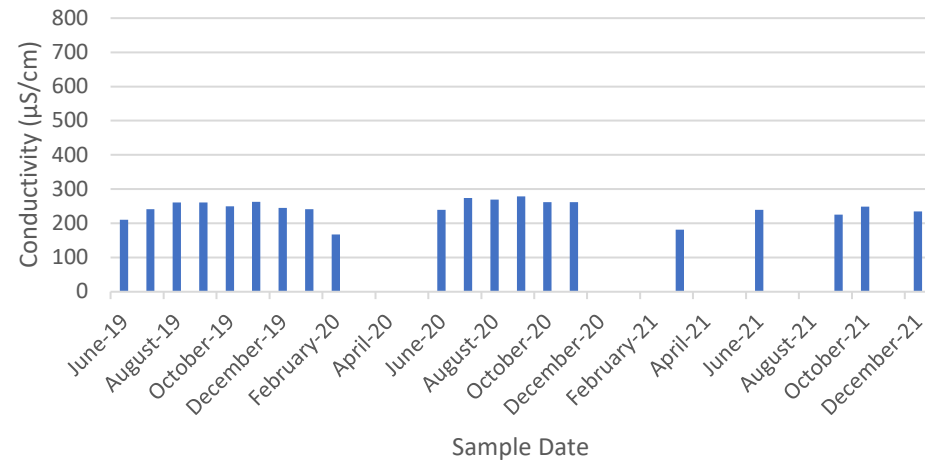
Site information:

- Drains: 131 mi²
- Impaired: No
- Designation: High-quality cold water fishes stream (HQ-CWF)
- Geology: Igneous and metamorphic

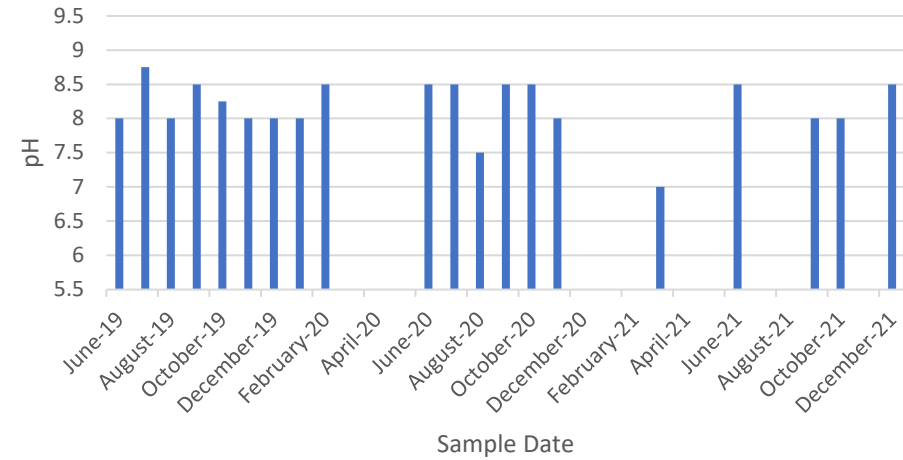
YELBREC 32.32
Land Use



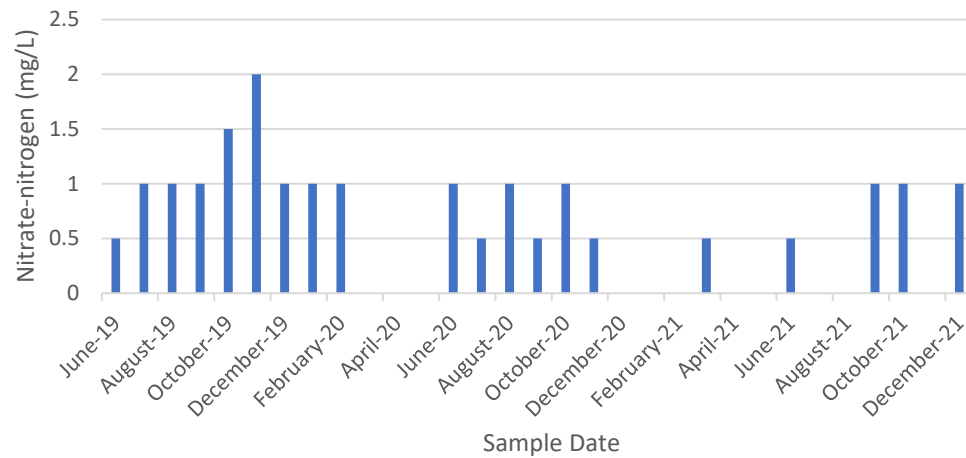
YELBRECREE 32.32 -- Conductivity



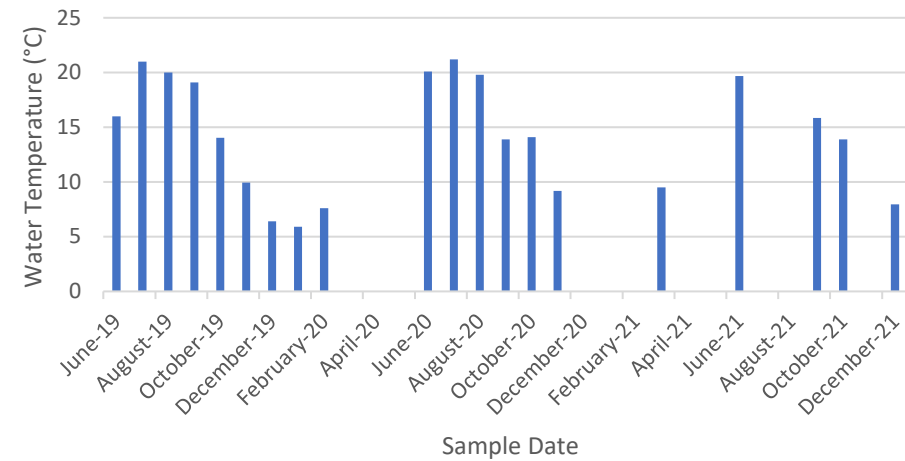
YELBRECREE 32.32 -- pH



YELBRECREE 32.32 -- Nitrate-nitrogen



YELBRECREE 32.32 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/14/2019	210	0.5	8	16
7/22/2019	241	1	8.75	21
8/17/2019	261	1	8	20
9/23/2019	261	1	8.5	19.1
10/21/2019	250	1.5	8.25	14.1
11/22/2019	263	2	8	10.0
12/13/2019	245	1	8	6.4
1/17/2020	241	1	8	5.9
2/17/2020	167	1	8.5	7.6
6/22/2020	239	1	8.5	20.1
7/18/2020	274	0.5	8.5	21.2
8/24/2020	269	1	7.5	19.8
9/21/2020	279	0.5	8.5	13.9
10/17/2020	262	1	8.5	14.1
11/23/2020	262	0.5	8	9.2
3/22/2021	181	0.5	7	9.5
6/21/2021	239	0.5	8.5	19.7
9/20/2021	225	1	8	15.9
10/22/2021	249	1	8	13.9
12/20/2021	235	1	8.5	8.0

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	167	0.5	7	5.9
Max	279	2	8.75	21.2
Median	247	1	8.1	14.1

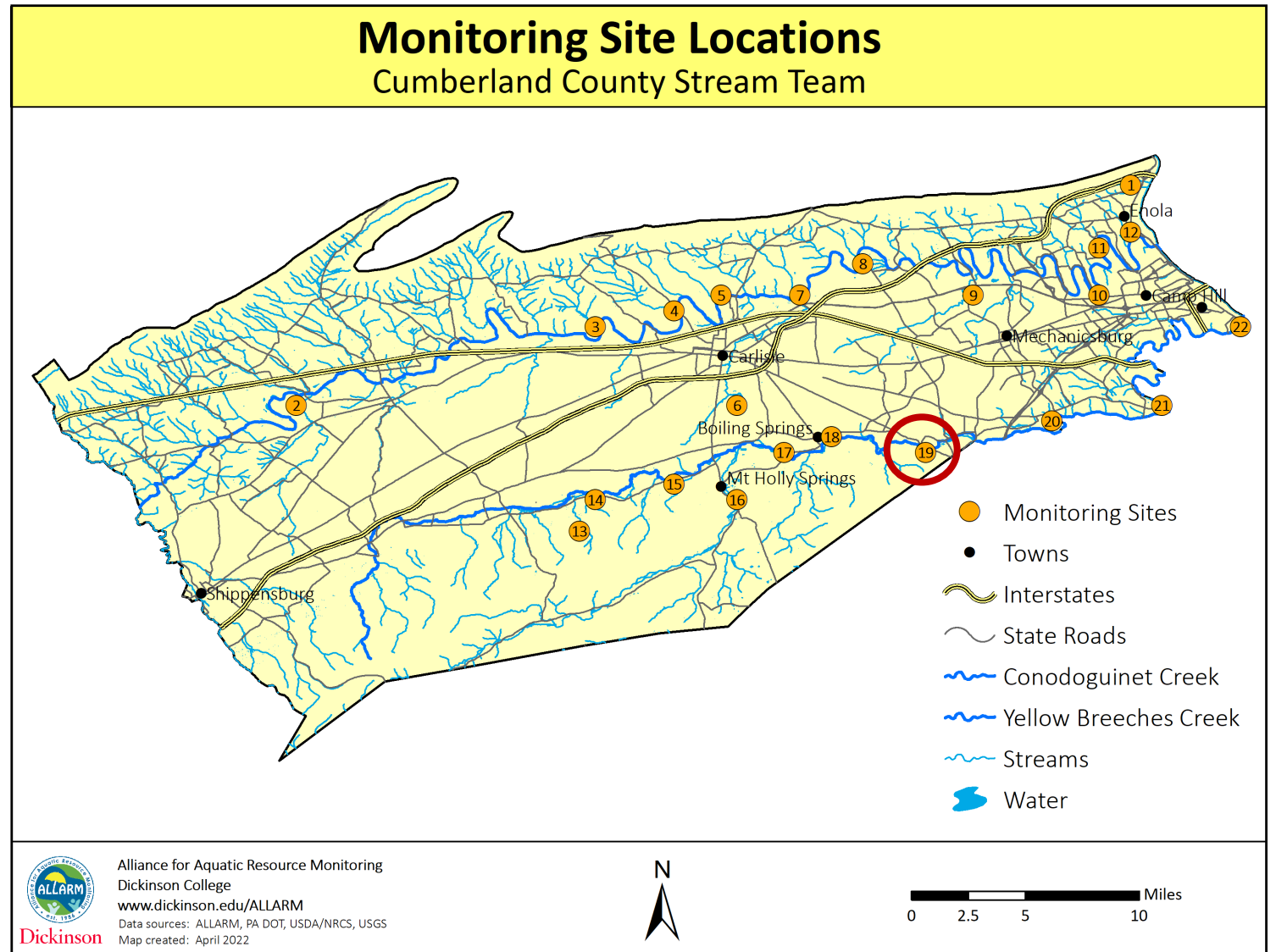
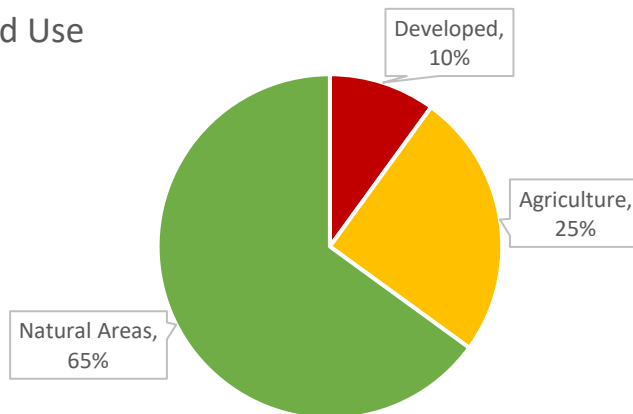
Yellow Breeches (YELBREC 23.6)

Monitor(s): Andrew & Fabian Jankowsky

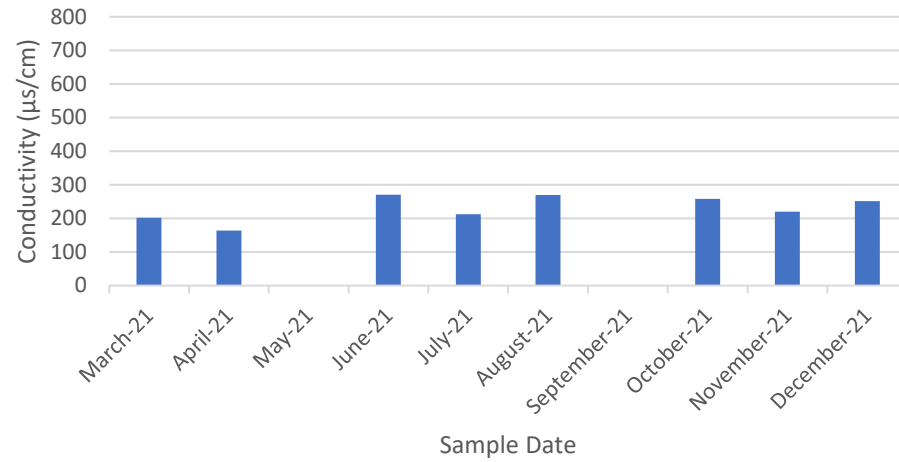
Site information:

- Drains: 141 mi²
- Impaired: No
- Designation: High quality for cold water fishes (HQ-CWF)
- Geology: Carbonate (35%), non-carbonate (65%)

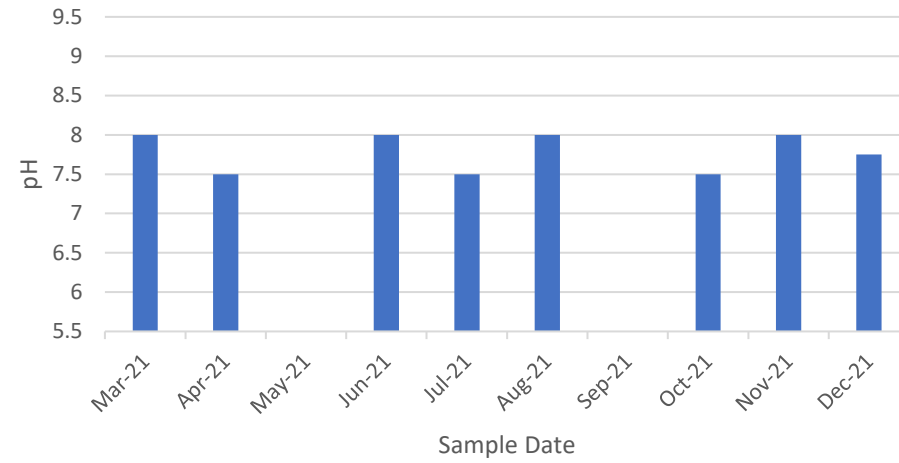
YELBREC 23.6 Land Use



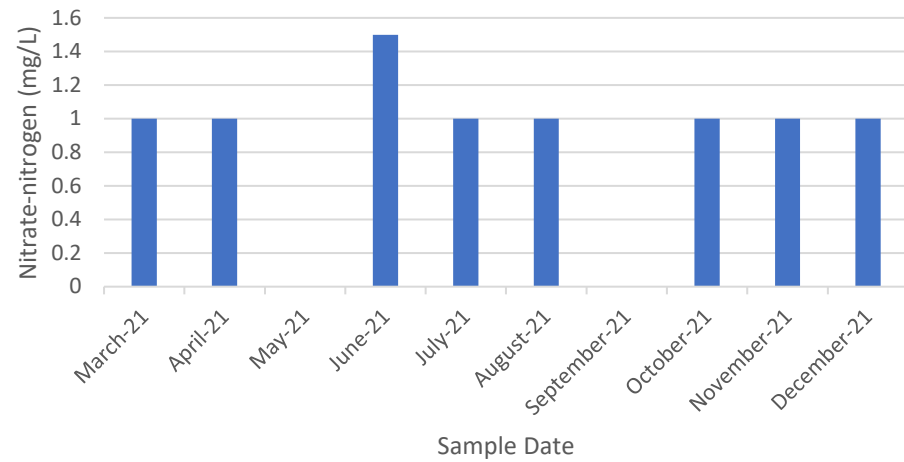
YELBRECRE 23.6 -- Conductivity



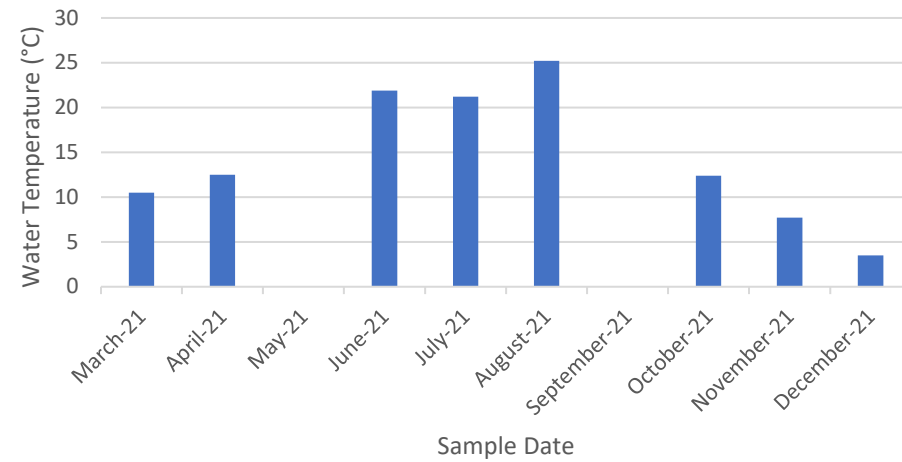
YELBRECRE 23.6 -- pH



YELBRECRE 23.6 -- Nitrate



YELBRECRE 23.6 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
3/21/2021	202	1	8	10.5
4/18/2021	163.5	1	7.5	12.5
6/20/2021	271	1.5	8	21.9
7/18/2021	213	1	7.5	21.2
8/23/2021	270	1	8	25.2
10/24/2021	258	1	7.5	12.4
11/22/2021	220	1	8	7.7
12/20/2021	252	1	7.75	3.5

Summary Statistics

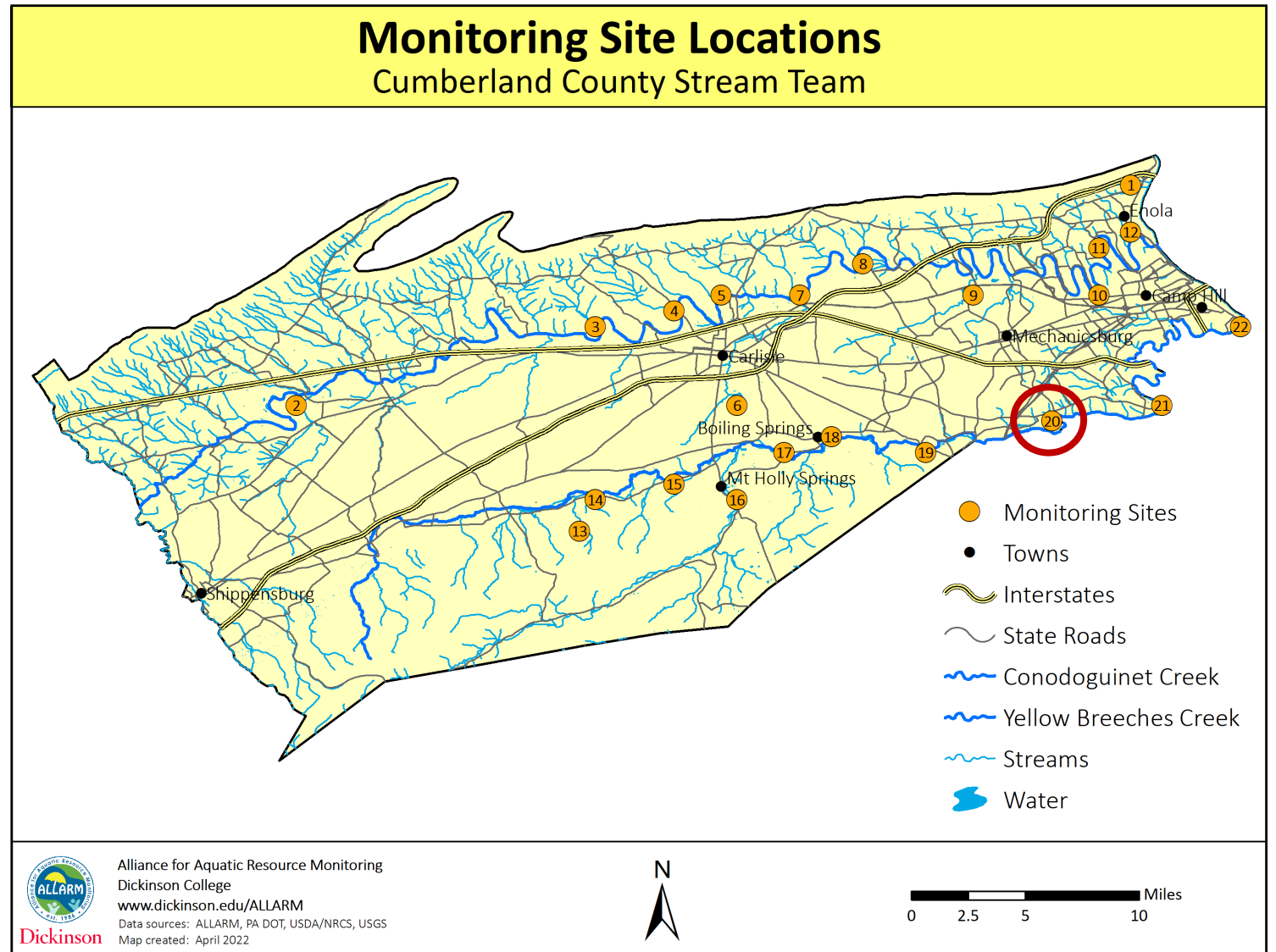
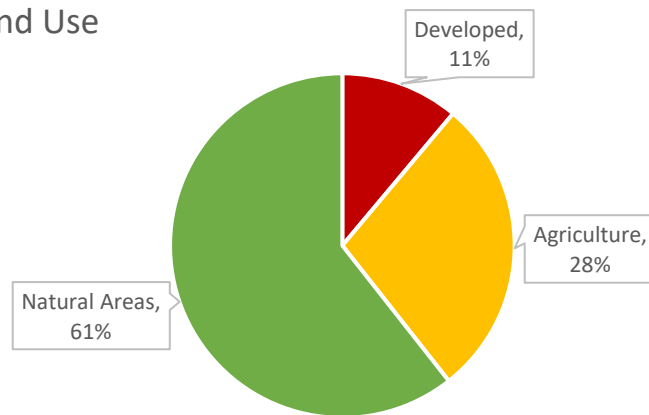
	Conductivity	Nitrate	pH	Water Temperature
Min	163.5	1	7.5	3.5
Max	271	1.5	8	25.2
Median	236	1	7.9	12.5

Yellow Breeches at Simpson Park (YELBREC 17.65) Monitor(s): Shawn Fabian (Retired Site)

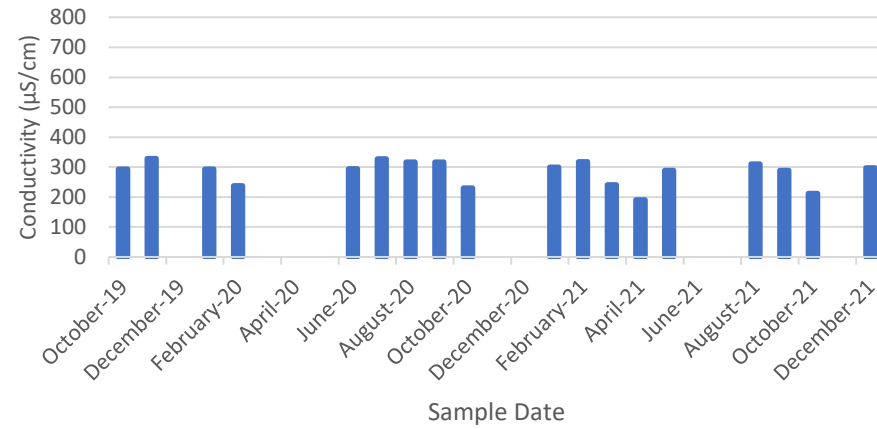
Site information:

- Drains: 177 mi²
- Impaired: No
- Designation: Cold water fishes (CWF)
- Geology: Igneous and metamorphic

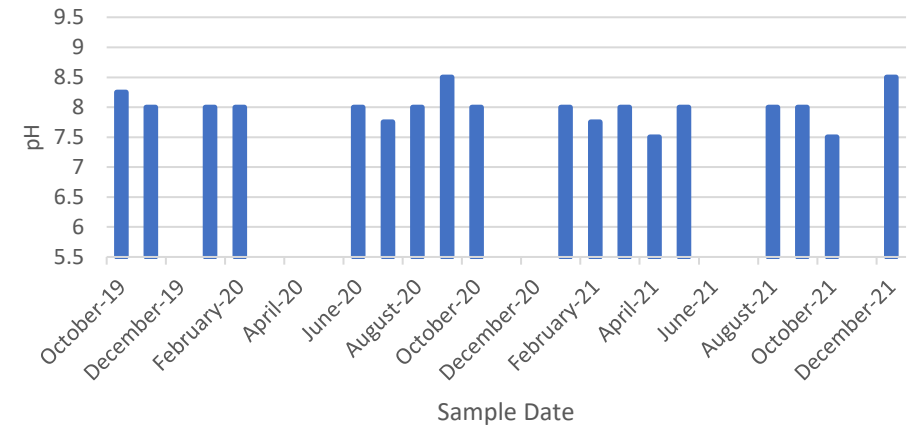
YELBREC 17.65 Land Use



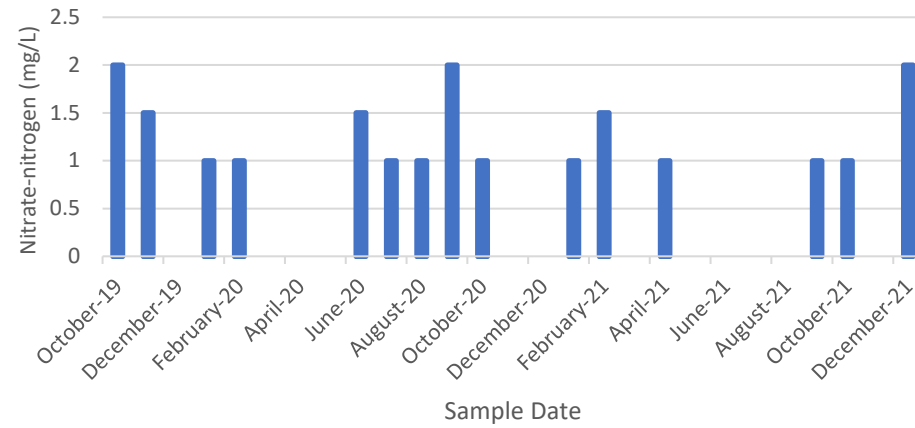
YELBRECRE17.65 -- Conductivity



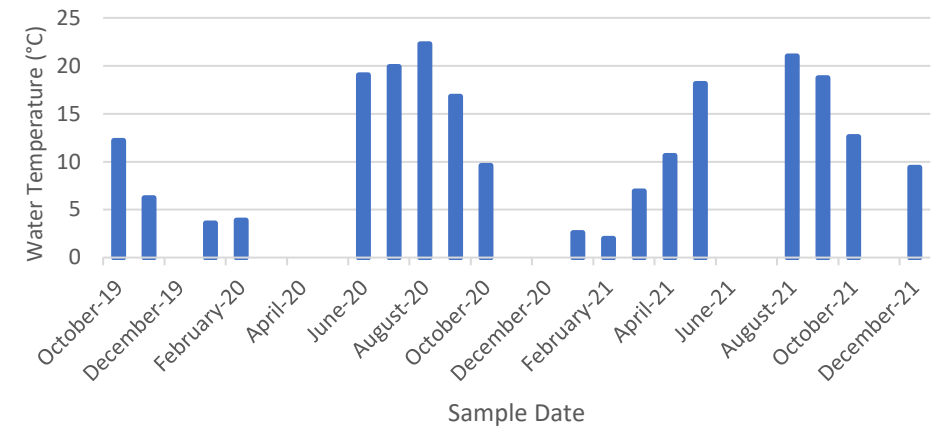
YELBRECRE17.65 -- pH



YELBRECRE17.65 -- Nitrate-nitrogen



YELBRECRE17.65 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
10/18/2019	293	2	8.25	12.2
11/17/2019	329	1.5	8	6.3
1/9/2020	293	1	8	3.6
2/16/2020	238	1	8	3.9
6/20/2020	294	1.5	8	19.1
7/18/2020	328	1	7.75	19.9
8/23/2020	317	1	8	22.3
9/18/2020	317	2	8.5	16.8
10/18/2020	230	1	8	9.6
1/24/2021	300	1	8	2.6
2/21/2021	318	1.5	7.75	2
3/21/2021	241	0	8	7.0
4/17/2021	190.5	1	7.5	10.7
5/22/2021	289		8	18.2
8/22/2021	310	0	8	21
9/19/2021	289	1	8	18.8
10/31/2021	212	1	7.5	12.6
12/19/2021	298	2	8.5	9.4

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	190.5	0	7.5	2
Max	329	2	8.5	22.3
Median	294	1	8	11.4

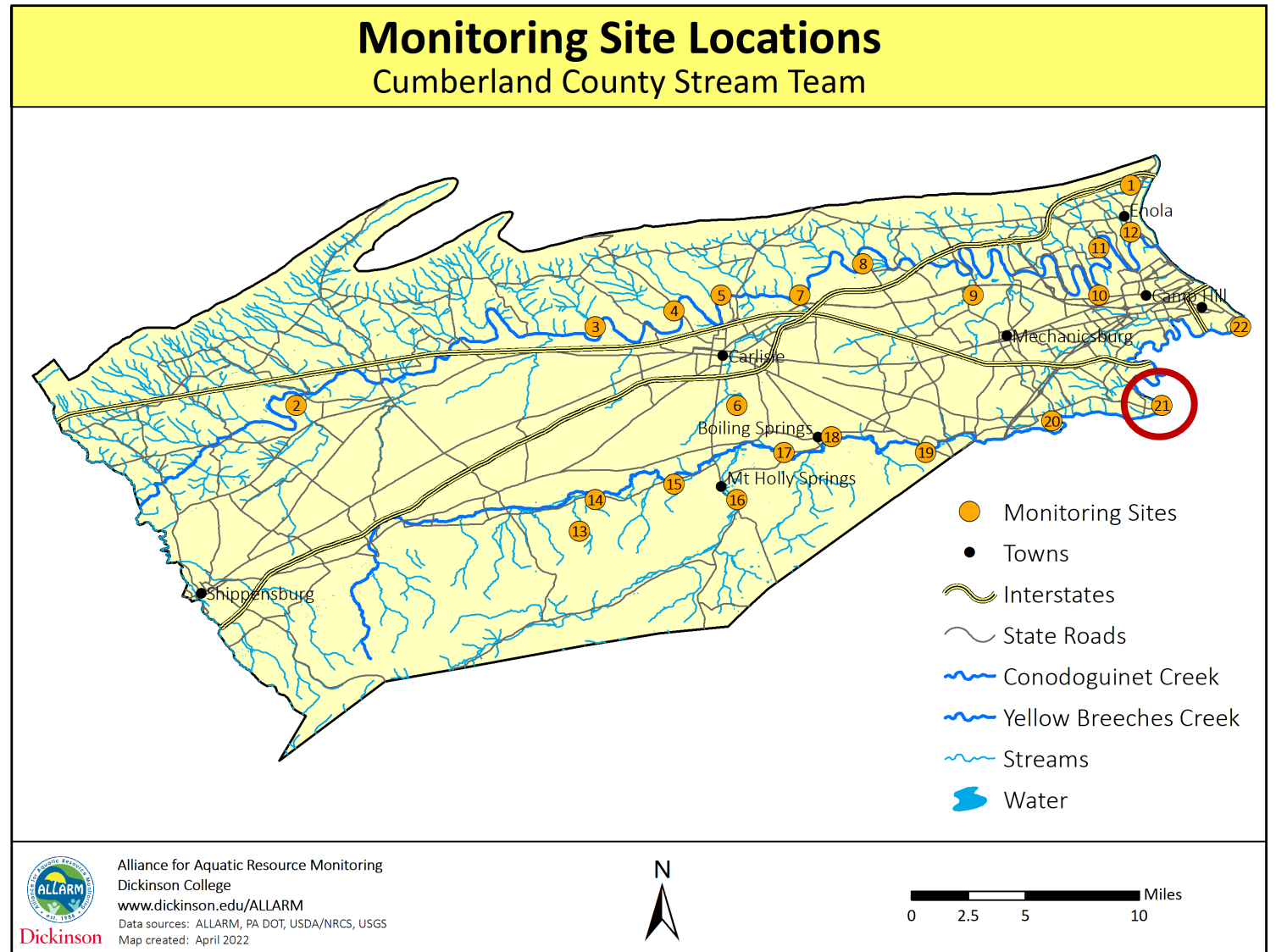
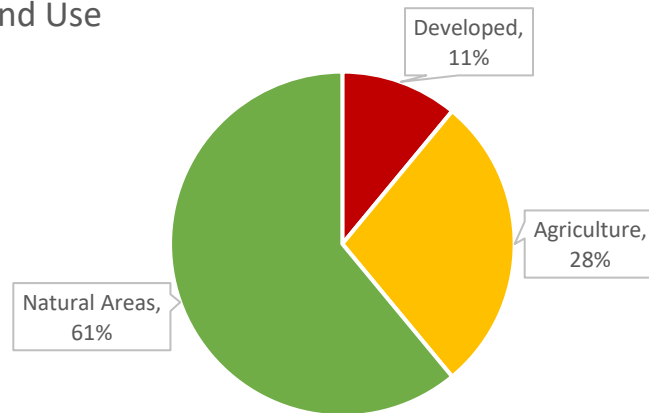
Yellow Breeches at Lower Allen Community Park (YELBREC 13.63)

Monitor(s): Randy Brown & Janey Gunn

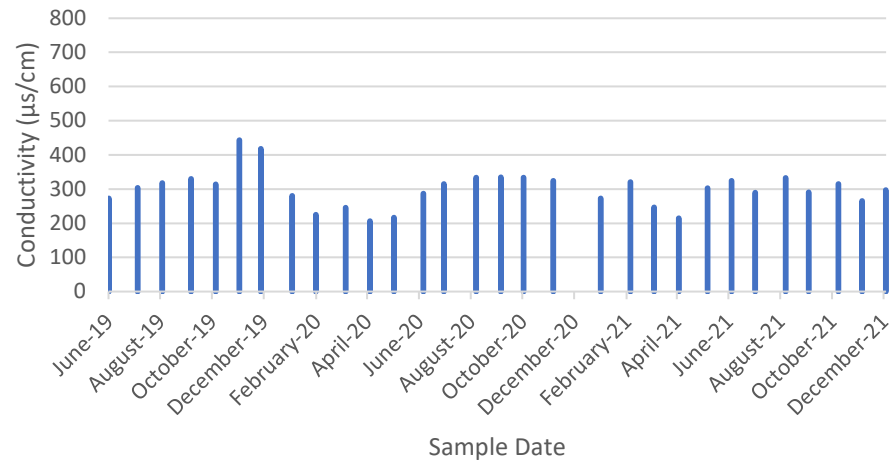
Site information:

- Drains: 189 mi²
- Impaired: No
- Designation: Cold water fishes (CWF)
- Geology: Igneous, metamorphic and limestone

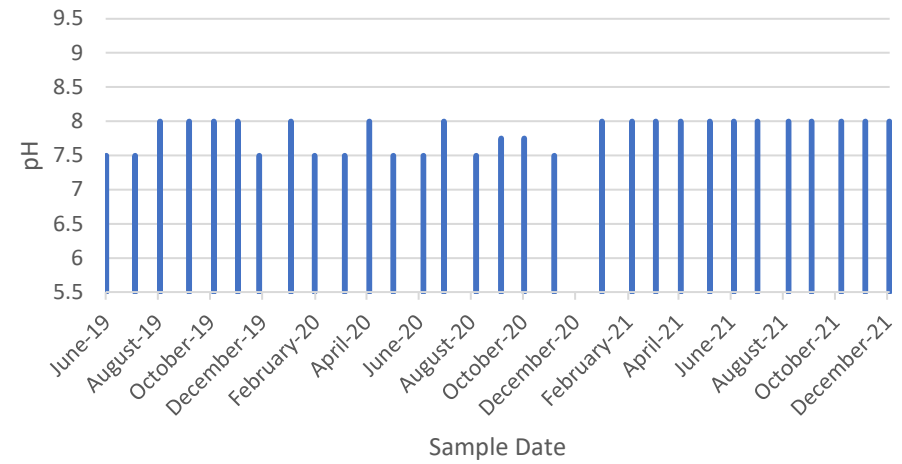
YELBREC 13.63
Land Use



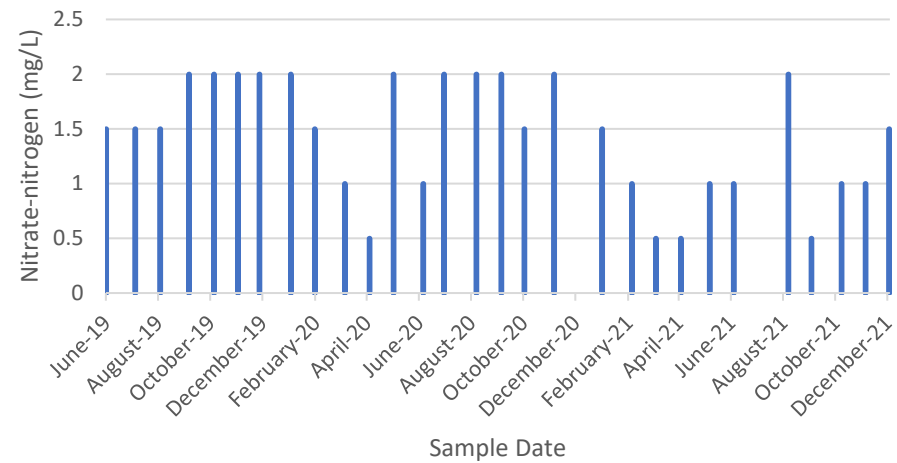
YELBRECREE13.63 -- Conductivity



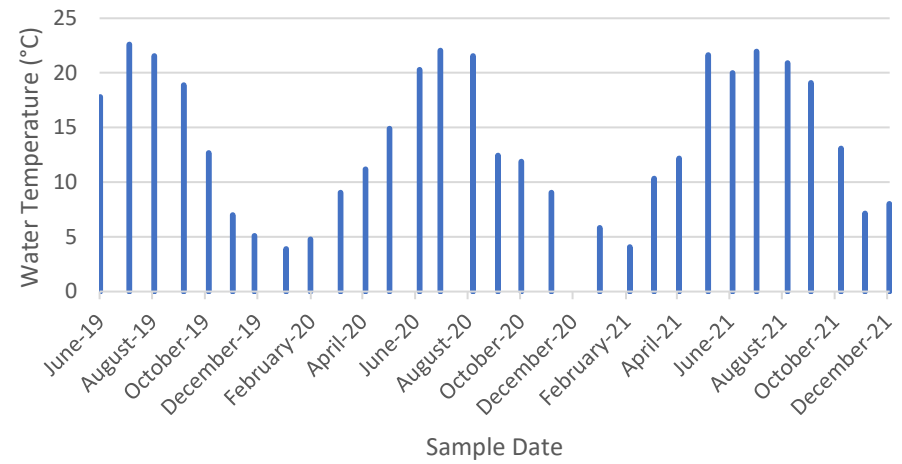
YELBRECREE13.63 -- pH



YELBRECREE13.63 -- Nitrate-nitrogen



YELBRECREE13.63 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/17/2019	273	1.5	7.5	17.8
7/21/2019	304	1.5	7.5	22.6
8/19/2019	318	1.5	8	21.6
9/22/2019	330	2	8	18.9
10/21/2019	314	2	8	12.7
11/18/2019	443	2	8	7
12/13/2019	418	2	7.5	5.1
1/19/2020	281	2	8	3.9
2/16/2020	225	1.5	7.5	4.8
3/22/2020	246	1	7.5	9.1
4/20/2020	207	0.5	8	11.2
5/18/2020	217	2	7.5	14.9
6/22/2020	287	1	7.5	20.3
7/16/2020	315	2	8	22.1
8/23/2020	334	2	7.5	21.6
9/21/2020	335	2	7.75	12.5
10/18/2020	334	1.5	7.75	11.9
11/22/2020	325	2	7.5	9.1
1/17/2021	273	1.5	8	5.9
2/21/2021	321	1	8	4.1
3/21/2021	247	0.5	8	10.4
4/19/2021	215	0.5	8	12.2
5/23/2021	303	1	8	21.7
6/20/2021	325	1	8	20
7/18/2021	290	0	8	22.0
8/23/2021	333	2	8	20.9
9/19/2021	291	0.5	8	19.1
10/24/2021	315	1	8	13.1
11/21/2021	266	1	8	7.2
12/19/2021	297	1.5	8	8.1

Summary Statistics

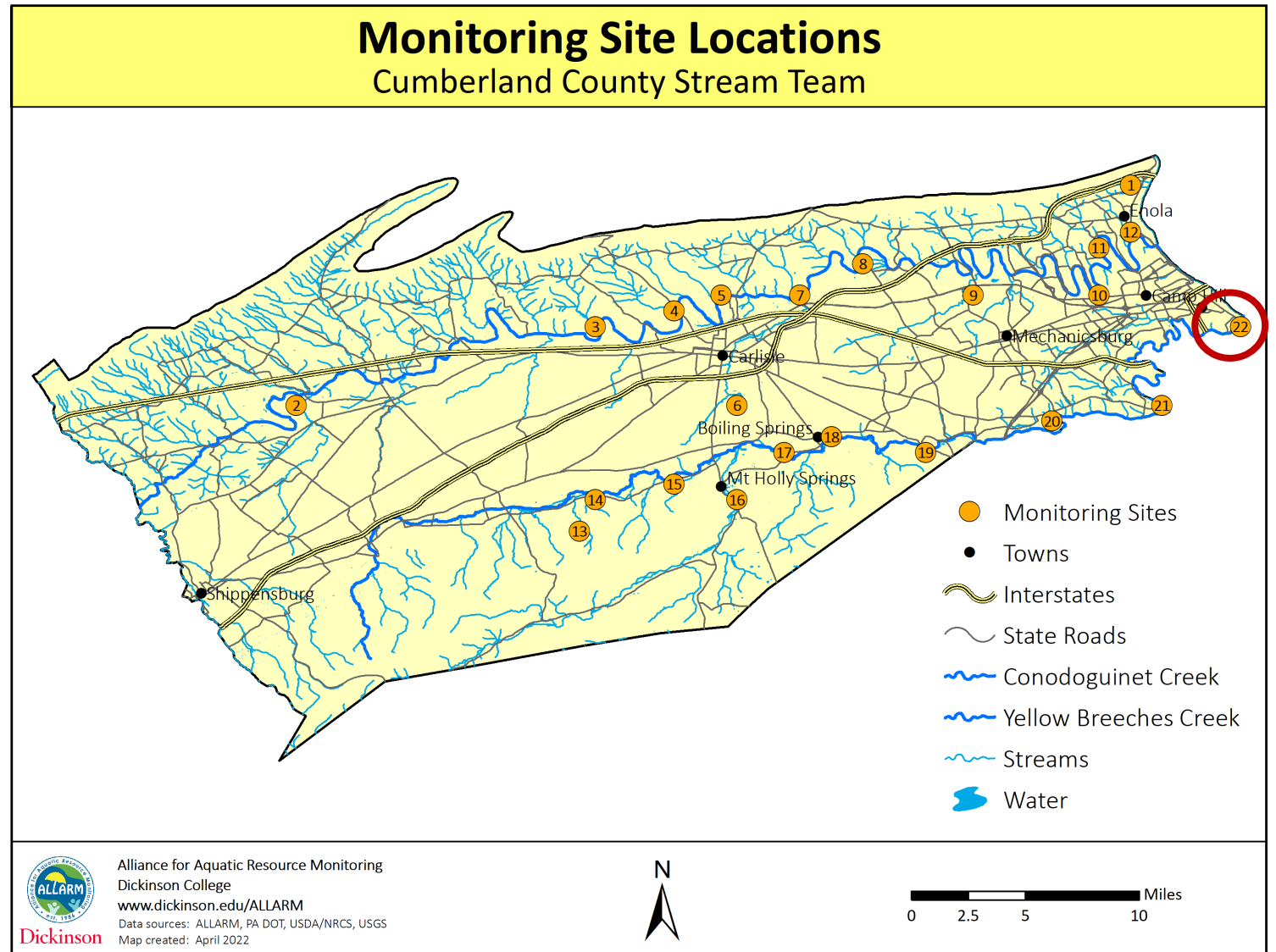
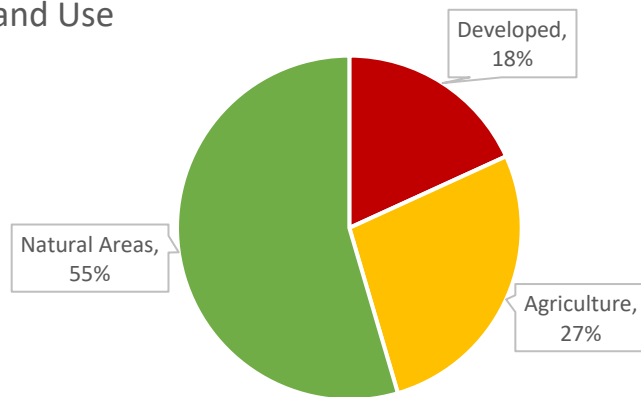
	Conductivity	Nitrate	pH	Water Temperature
Min	207	0	7.5	3.9
Max	443	2	8	22.6
Median	304	1.5	8	12.6

Yellow Breeches at New Cumberland Borough Park (YELBREC 0.85) Monitor(s): Stephanie Kern

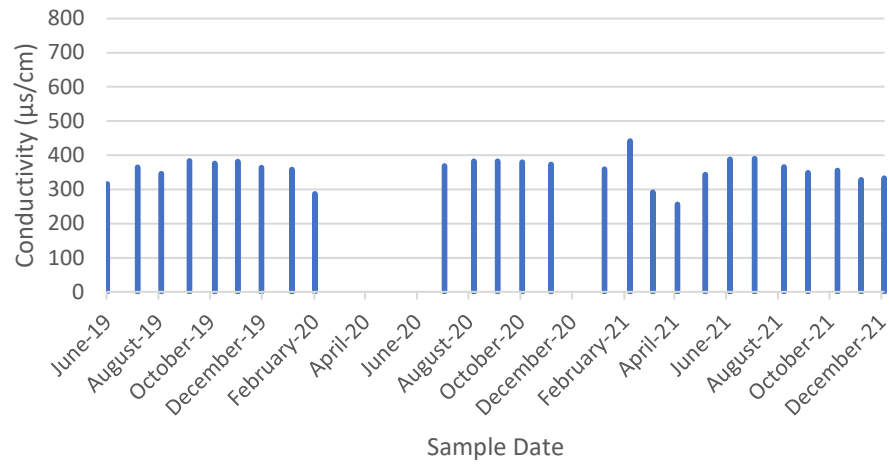
Site information:

- Drains: 217 mi²
- Impaired: No
- Designation: Cold water fishes (CWF)
- Geology: Igneous, metamorphic and limestone

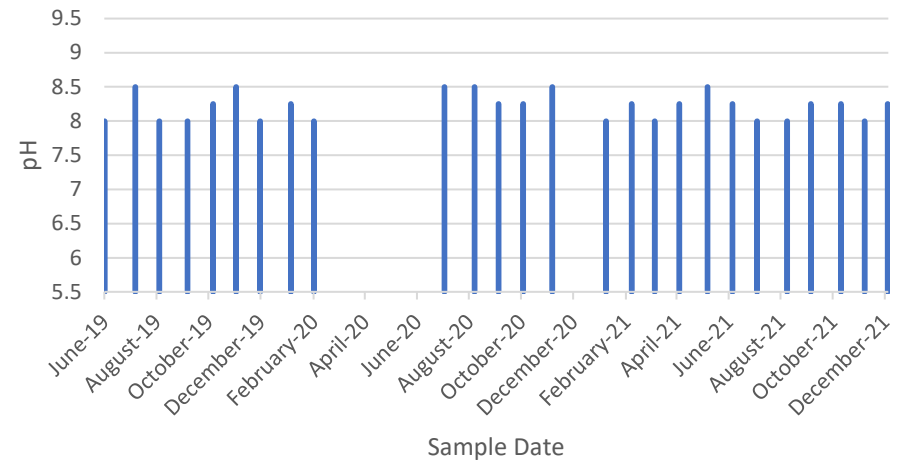
YELBREC 0.85 Land Use



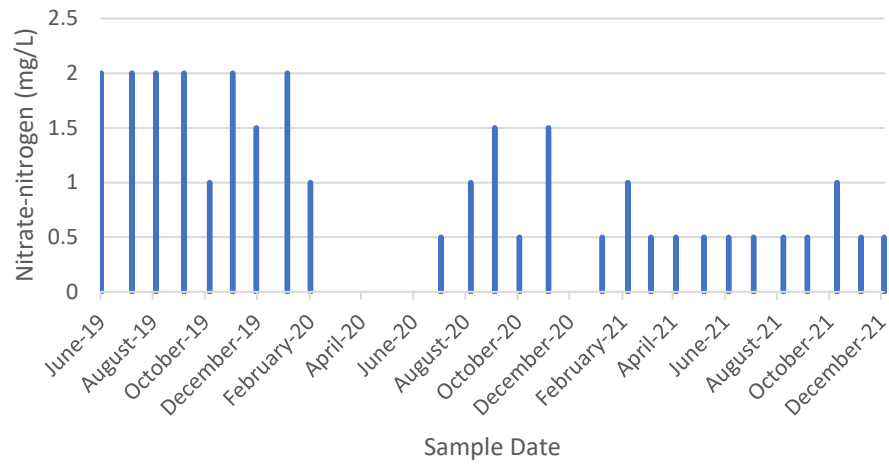
YELBREC0.85 -- Conductivity



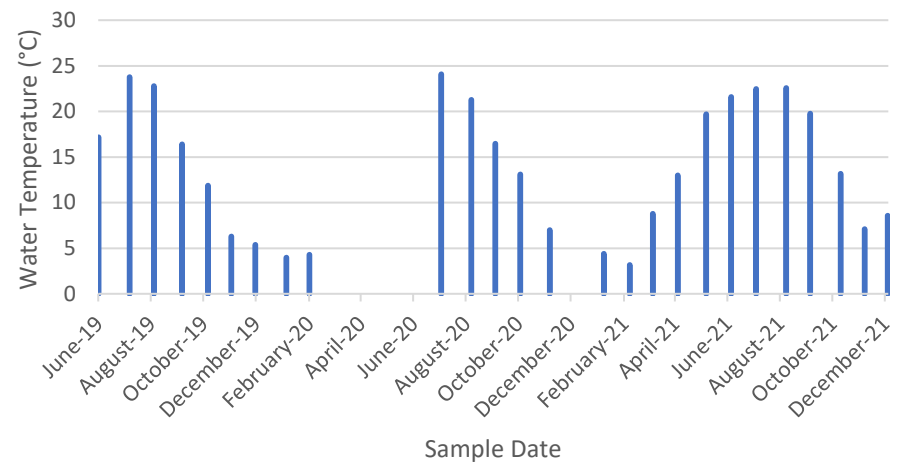
YELBREC0.85 -- pH



YELBREC0.85 -- Nitrate-nitrogen



YELBREC0.85 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
6/15/2019	316	2	8	17.2
7/21/2019	365	2	8.5	23.8
8/18/2019	346	2	8	22.8
9/20/2019	384	2	8	16.4
10/20/2019	376	1	8.25	11.9
11/16/2019	382	2	8.5	6.3
12/14/2019	364	1.5	8	5.4
1/19/2020	358	2	8.25	4
2/15/2020	287	1	8	4.3
7/17/2020	369	0.5	8.5	24.1
8/21/2020	383	1	8.5	21.3
9/18/2020	383	1.5	8.25	16.5
10/17/2020	380	0.5	8.25	13.1
11/20/2020	373	1.5	8.5	7
1/22/2021	359	0.5	8	4.4
2/21/2021	442	1	8.25	3.2
3/20/2021	292	0.5	8	8.8
4/18/2021	256	0.5	8.25	13
5/21/2021	343	0.5	8.5	19.7
6/19/2021	388	0.5	8.25	21.6
7/18/2021	390	0.5	8	22.5
8/22/2021	366	0.5	8	22.6
9/19/2021	349	0.5	8.25	19.8
10/24/2021	356	1	8.25	13.2
11/21/2021	328	0.5	8	7.1
12/18/2021	333	0.5	8.25	8.6

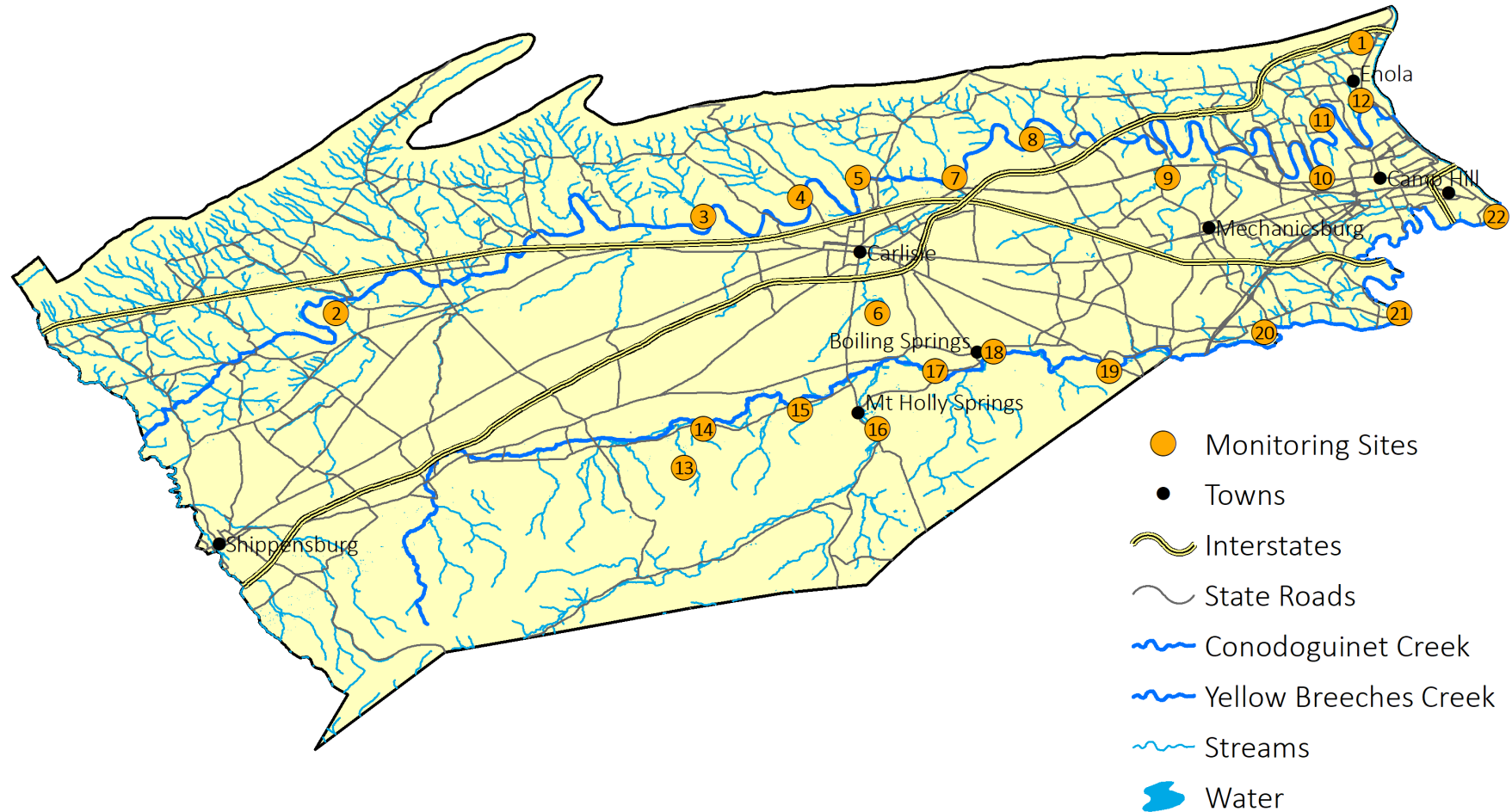
Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	256	0.5	8	3.2
Max	442	2	8.5	24.1
Median	365	1	8.3	13.2

Supplemental Maps

Monitoring Site Locations

Cumberland County Stream Team



Dickinson

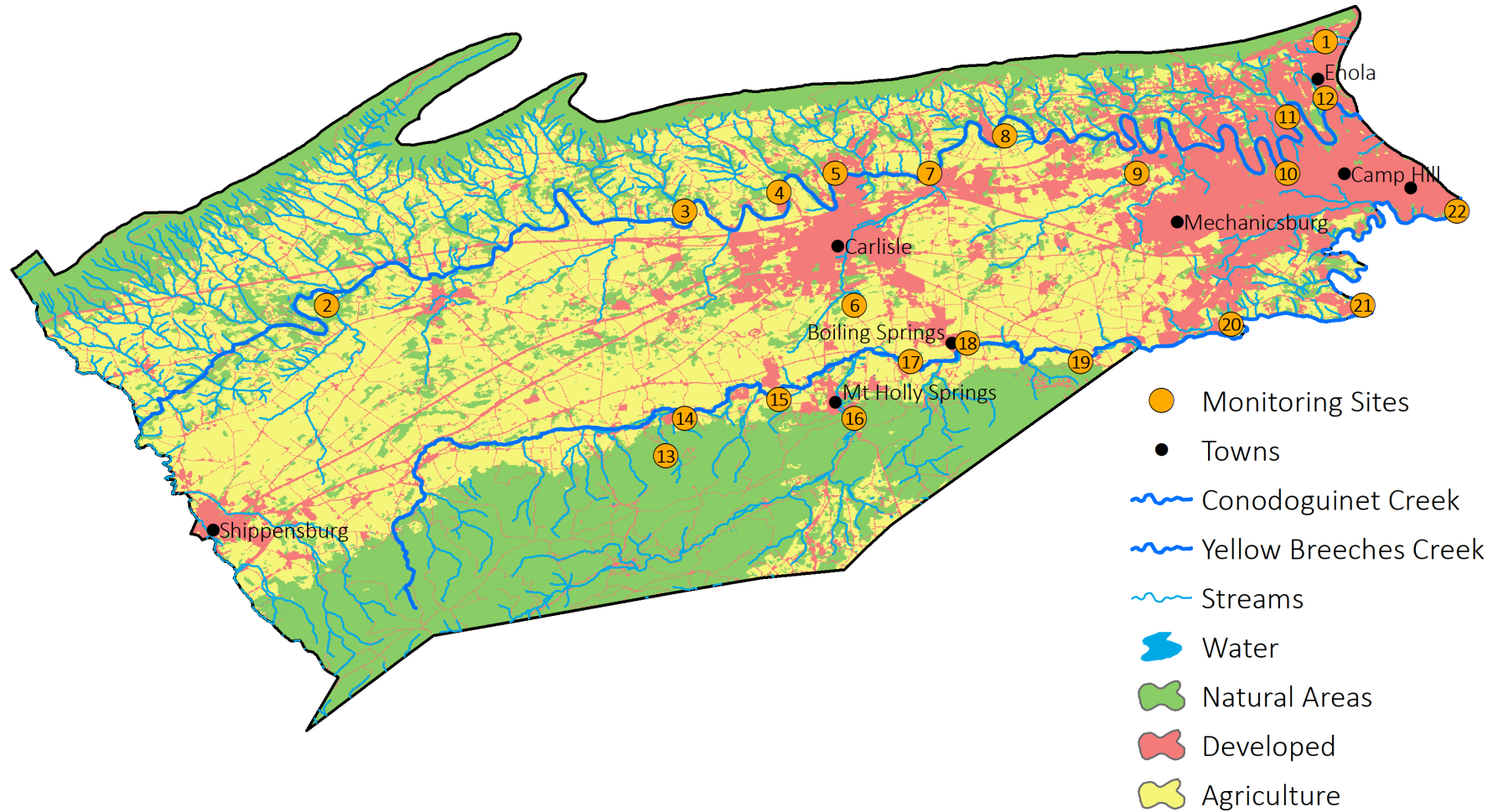
Alliance for Aquatic Resource Monitoring
Dickinson College
www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DOT, USDA/NRCS, USGS
Map created: April 2022



0 2.5 5 10 Miles

Land Cover

Cumberland County Stream Team



Dickinson

Alliance for Aquatic Resource Monitoring
Dickinson College

www.dickinson.edu/ALLARM

Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

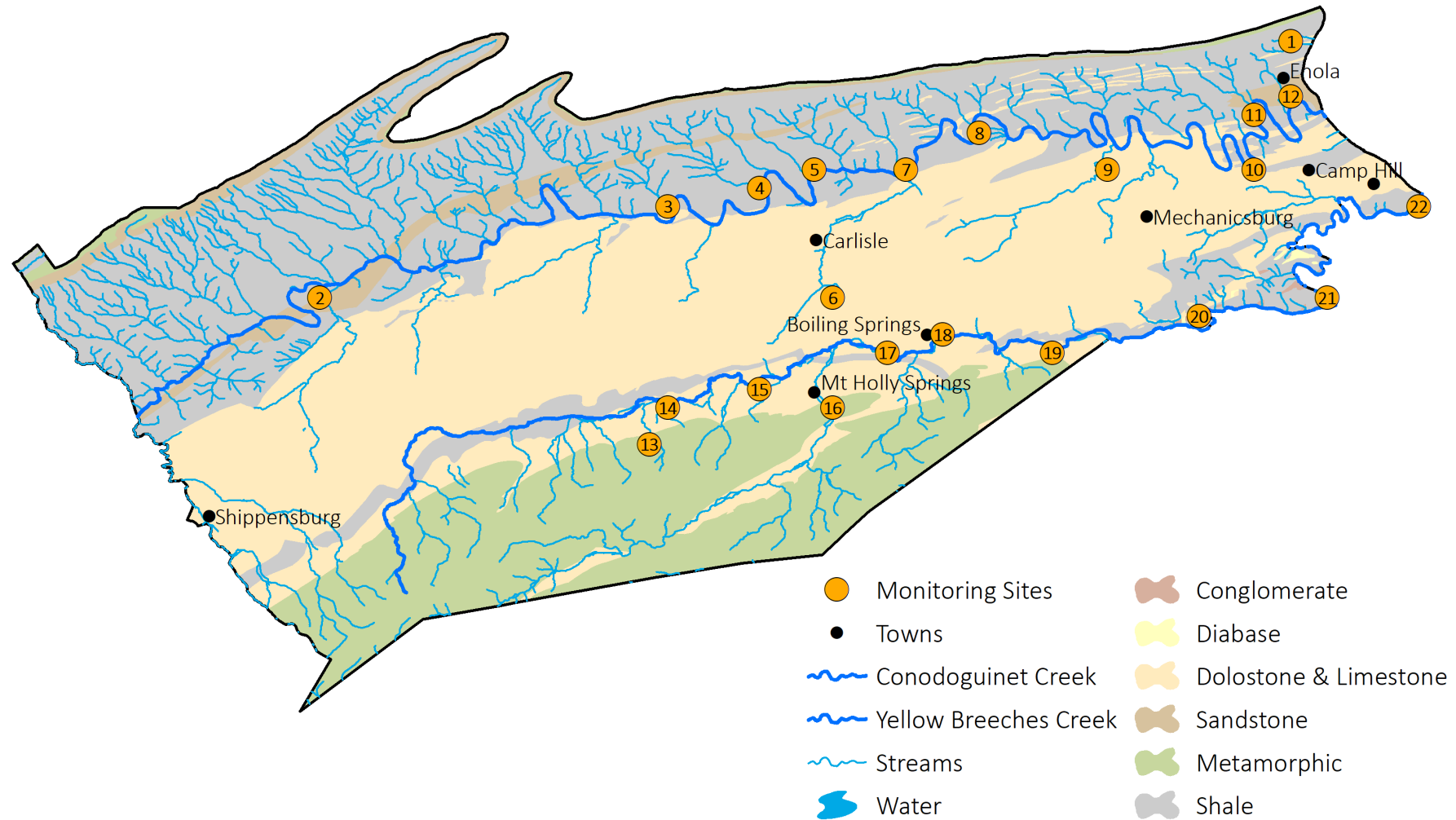
Map created: April 2022



0 2.5 5 10 Miles

Geology

Cumberland County Stream Team



Dickinson

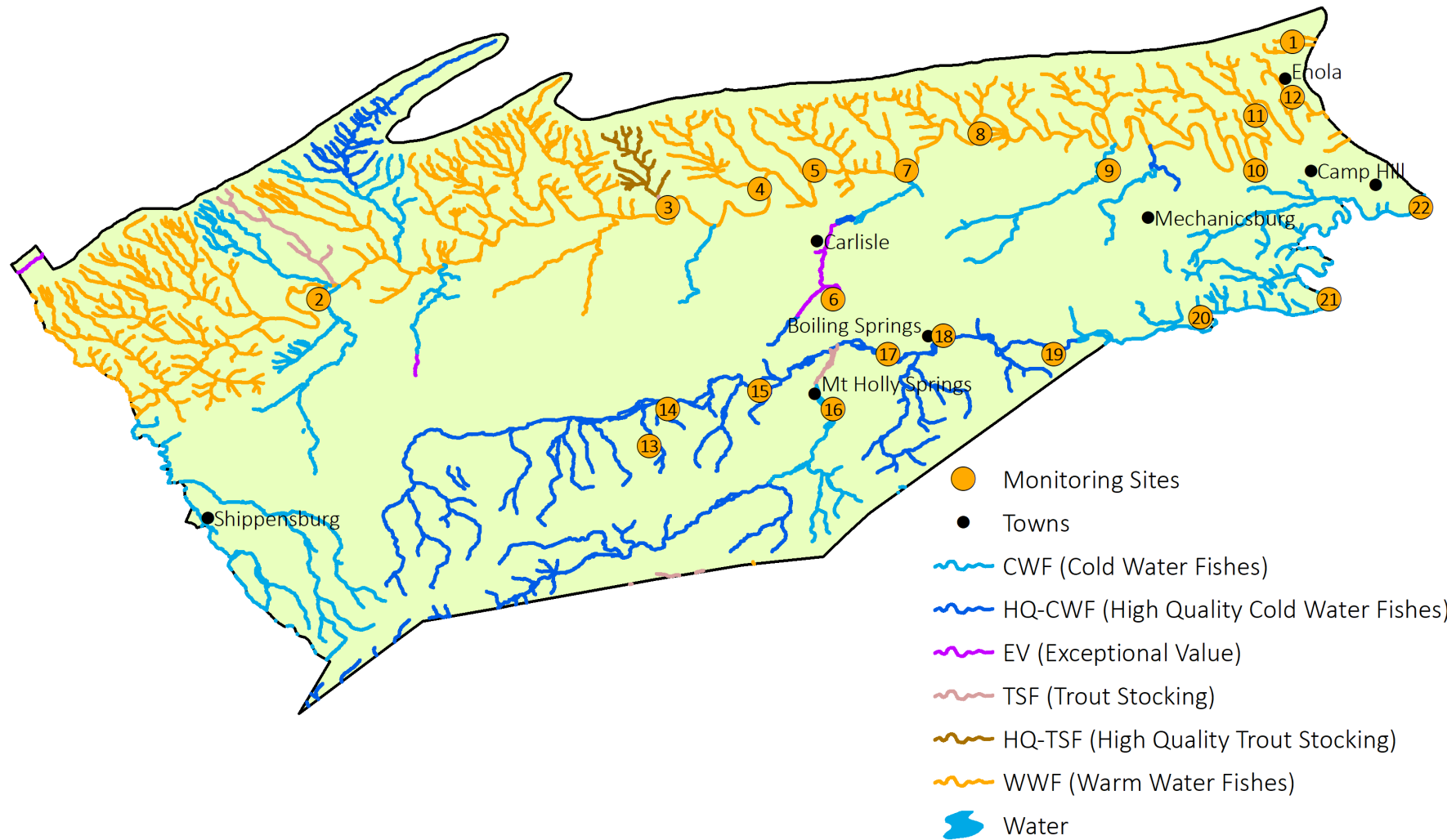
Alliance for Aquatic Resource Monitoring
Dickinson College
www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DOT, USDA/NRCS, USGS
Map created: April 2022



0 2.5 5 10 Miles

Stream Designated Uses

Cumberland County Stream Team



Dickinson

Alliance for Aquatic Resource Monitoring
Dickinson College

www.dickinson.edu/ALLARM

Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

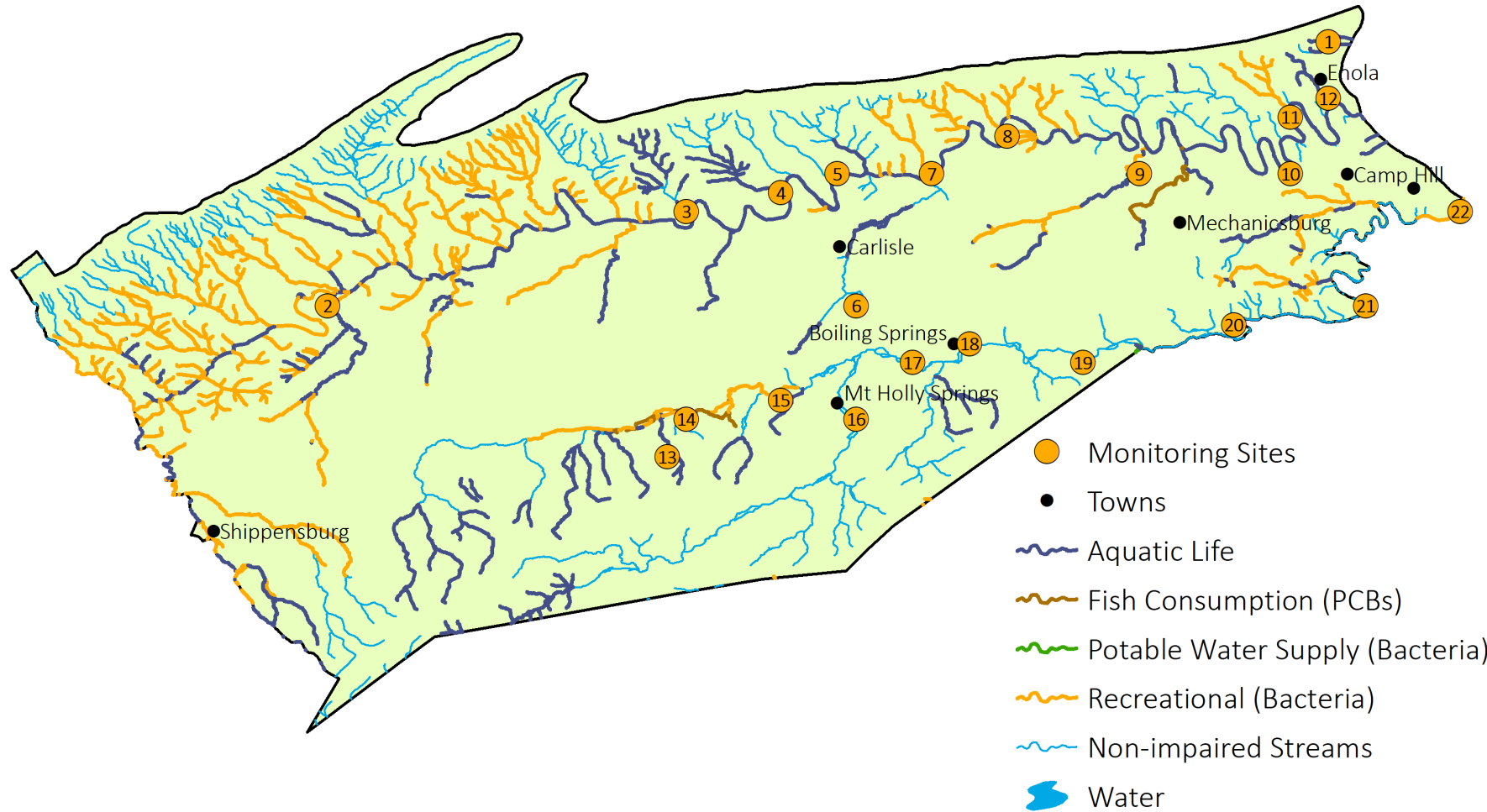
Map created: April 2022



0 2.5 5 10 Miles

Impaired Streams

Cumberland County Stream Team



Dickinson

Alliance for Aquatic Resource Monitoring
Dickinson College

www.dickinson.edu/ALLARM

Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

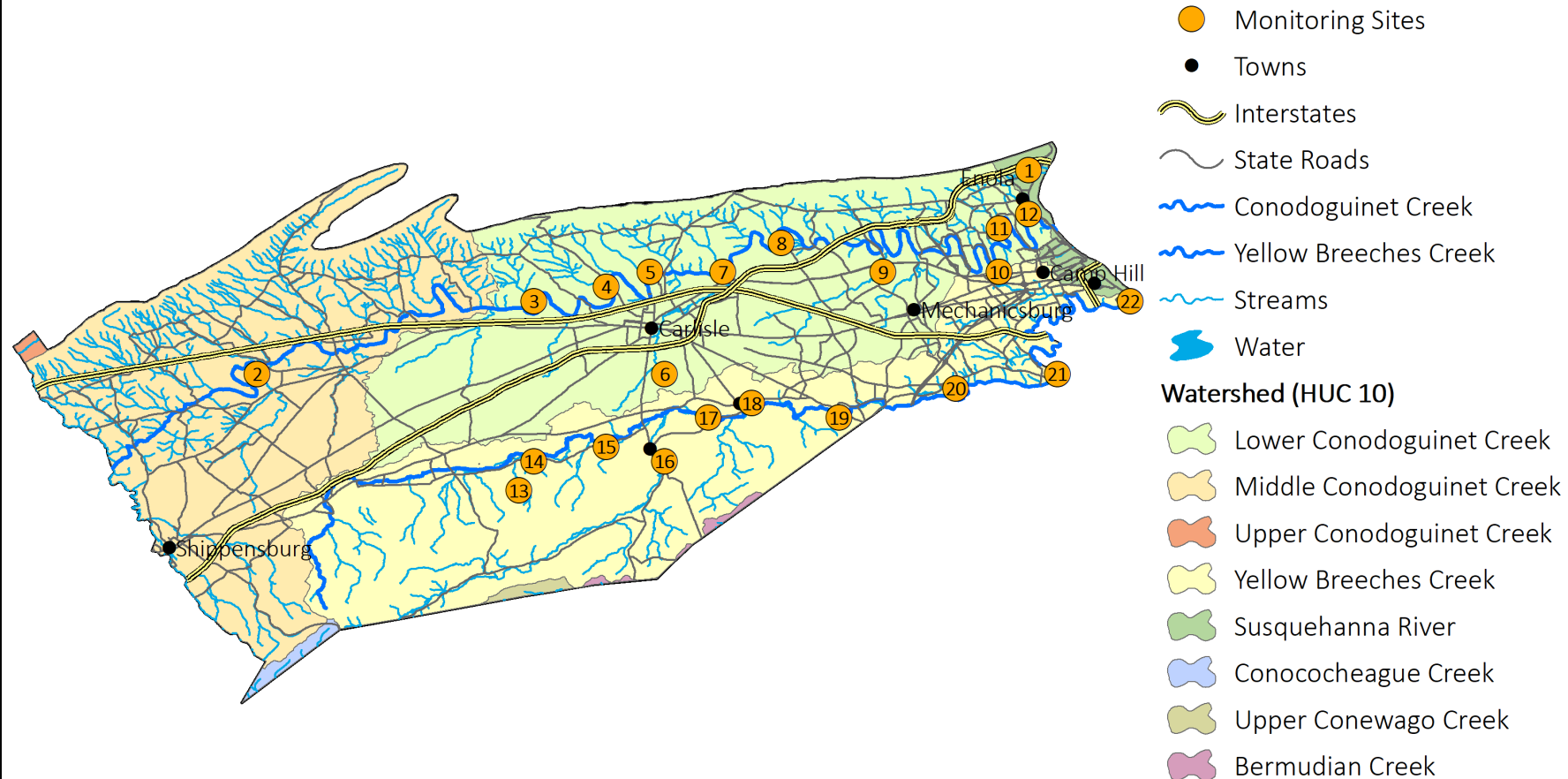
Map created: April 2022



0 2.5 5 10 Miles

Subwatersheds

Cumberland County Stream Team



Dickinson

Alliance for Aquatic Resource Monitoring
Dickinson College
www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DOT, USDA/NRCS, USGS
Map created: April 2022



0 2.5 5 10 Miles

Thank you!

Stream Team | streamteam@dickinson.edu

Alliance for Aquatic Resource Monitoring (ALLARM)

dickinson.edu/ALLARM | [@ALLARMwater](https://twitter.com/ALLARMwater) |

717.245.1565



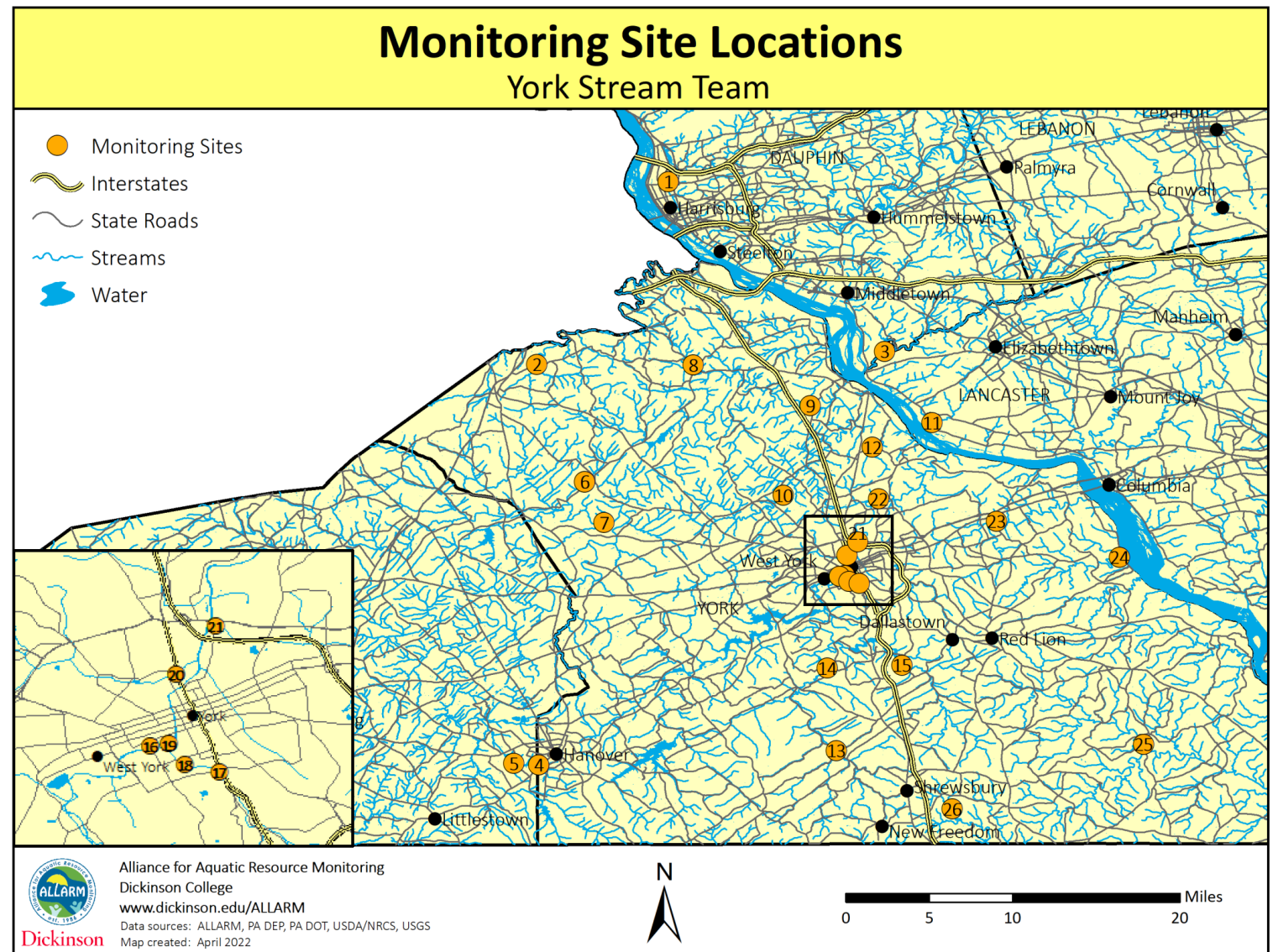
Dickinson

York County Stream Team Data Interpretation Workbook



Site Locations

Map #	Site ID
1	PAXCRE 5.76
2	STORUN 1.96
3	CONCRE 2.81
4	PLUCRE 4.26
5	PLUCRE 2.44
6	DOERUN 1.77
7	BERCRE 1.22
8	BENRUN 5.65
9	CONCRE 7.04
10	LITCONCRE 12.56
11	CONCRE 0.41
12	HARRUN 8.92
13	CENCRE 0.07
14	SOUBRACODCRE 23.11
15	EASBRACODCRE 24.60
16	CODCRE 12.39
17	TYLRUN 1.01
18	TYLRUN 0.50
19	CODCRE 12.16
20	WILLRUN 0.37
21	MILCRE 0.09
22	CODCRE 5.77
23	KRECRE 8.67
24	CABCRE 2.67
25	MUDCRE 17.55
26	DEECRE 38.64



York

Site Profiles

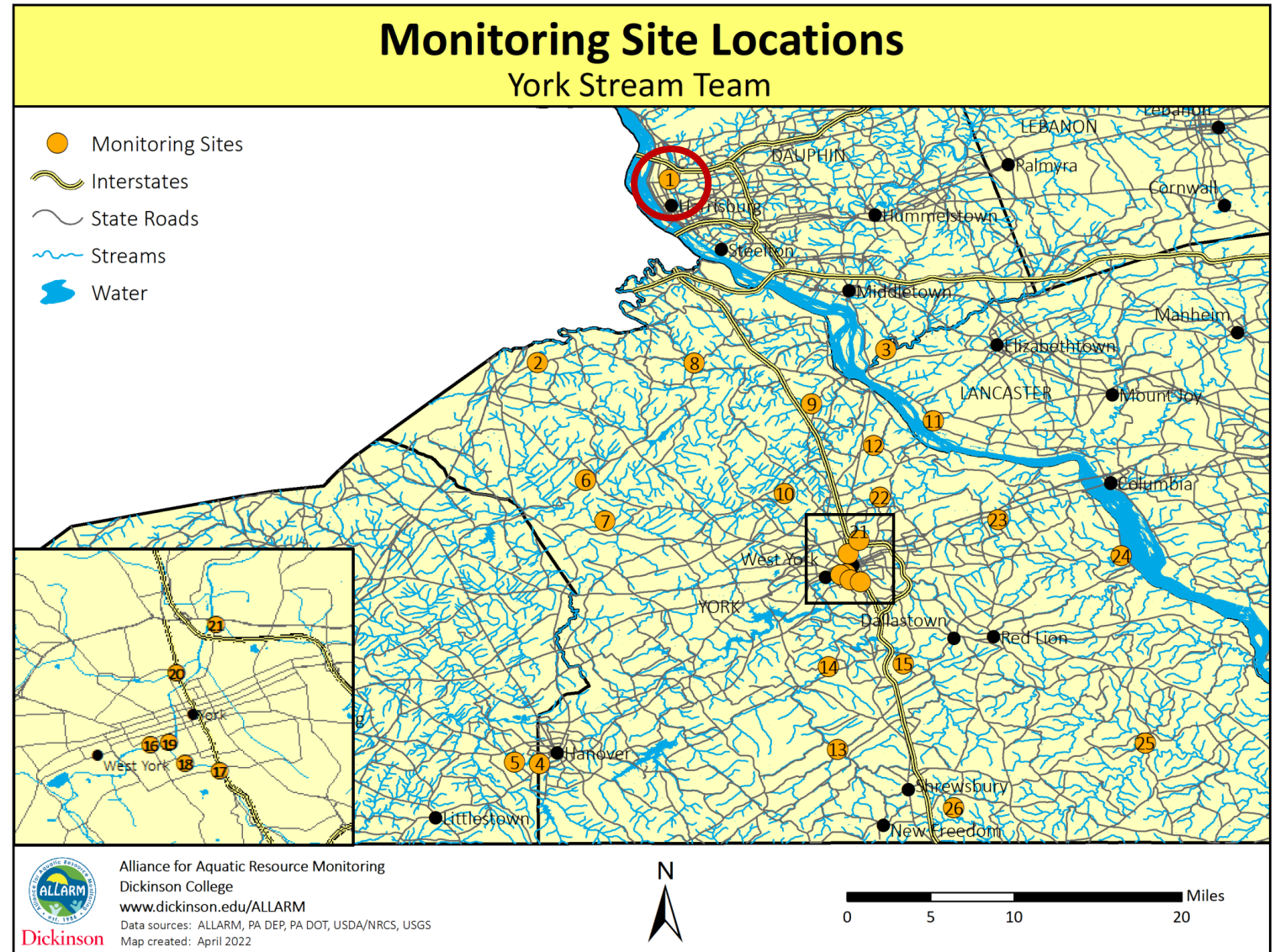
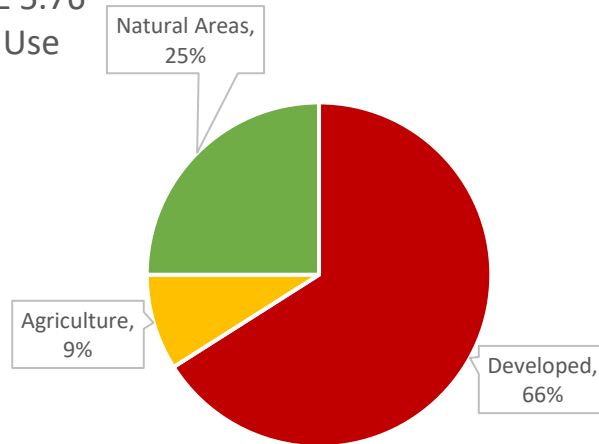
Paxton Creek (PAXCRE 5.76)

Monitor(s): Ilyse Kazar & Acey Mills

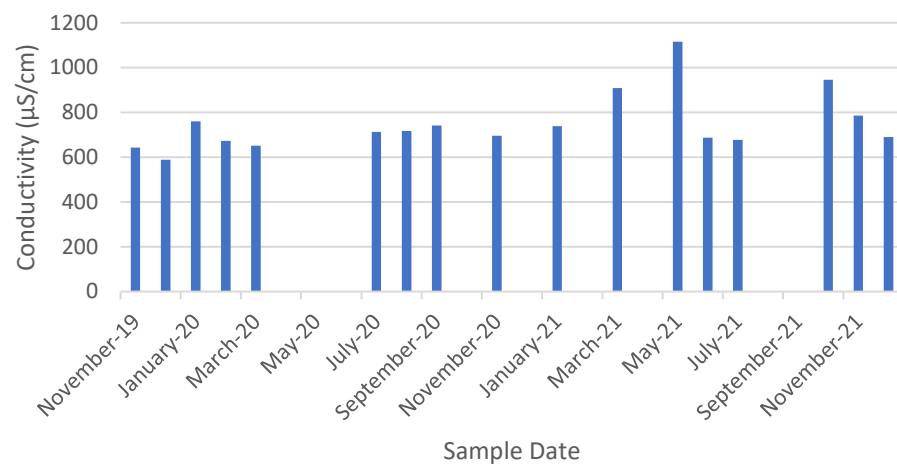
Site information:

- Drains 19 mi²
- Impaired: yes (recreational), pathogens
- Designation: Warm Water Fishes
- Geology: non-carbonate (86%), carbonate (14%)

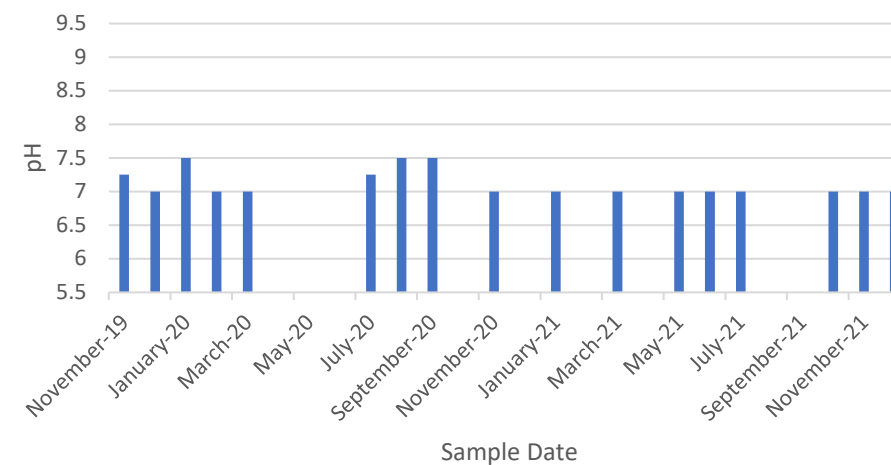
PAXCRE 5.76 Land Use



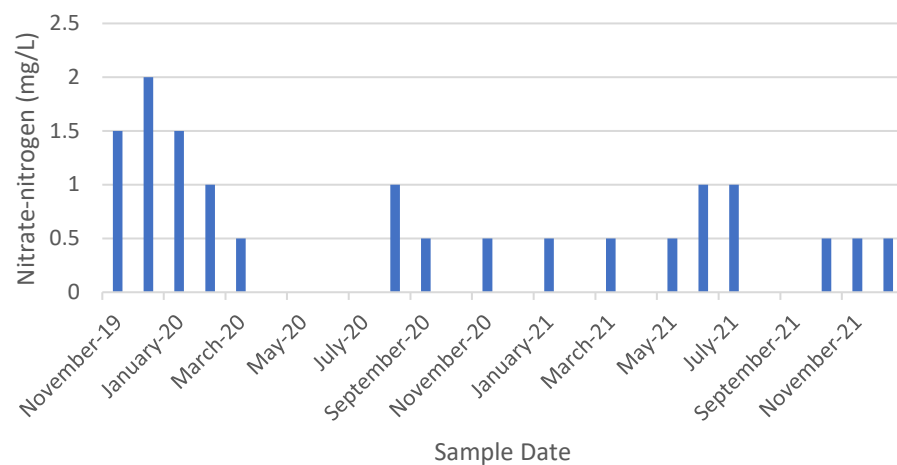
PAXCRE 5.76 - Conductivity



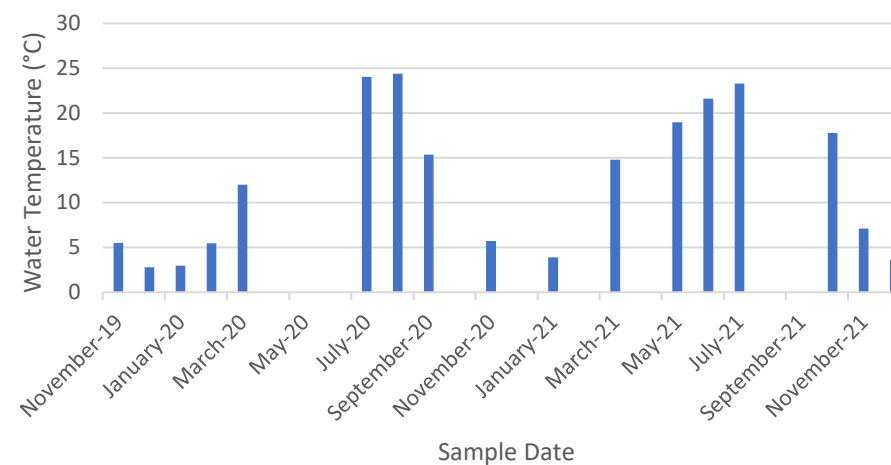
PAXCRE 5.76 - pH



PAXCRE 5.76 – Nitrate-Nitrogen



PAXCRE 5.76 - Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
11/29/2019	643	1.5	7.25	5.5
12/22/2019	589	2	7	2.8
1/19/2020	760	1.5	7.5	3.0
2/16/2020	673	1	7	5.5
3/22/2020	652	0.5	7	12
7/12/2020	713	0	7.25	24.1
8/23/2020	717	1	7.5	24.4
9/19/2020	742	0.5	7.5	15.4
11/19/2020	696	0.5	7	5.7
1/25/2021	739	0.5	7	3.9
3/22/2021	909	0.5	7	14.8
5/24/2021	1116	0.5	7	19.0
6/23/2021	688	1	7	21.6
7/21/2021	678	1	7	23.3
10/25/2021	946	0.5	7	17.8
11/22/2021	786	0.5	7	7.1
12/20/2021	690	0.5	7	3.6

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	589	0	7	2.8
Max	1116	2	7.5	24.4
Median	713	0.5	7	12

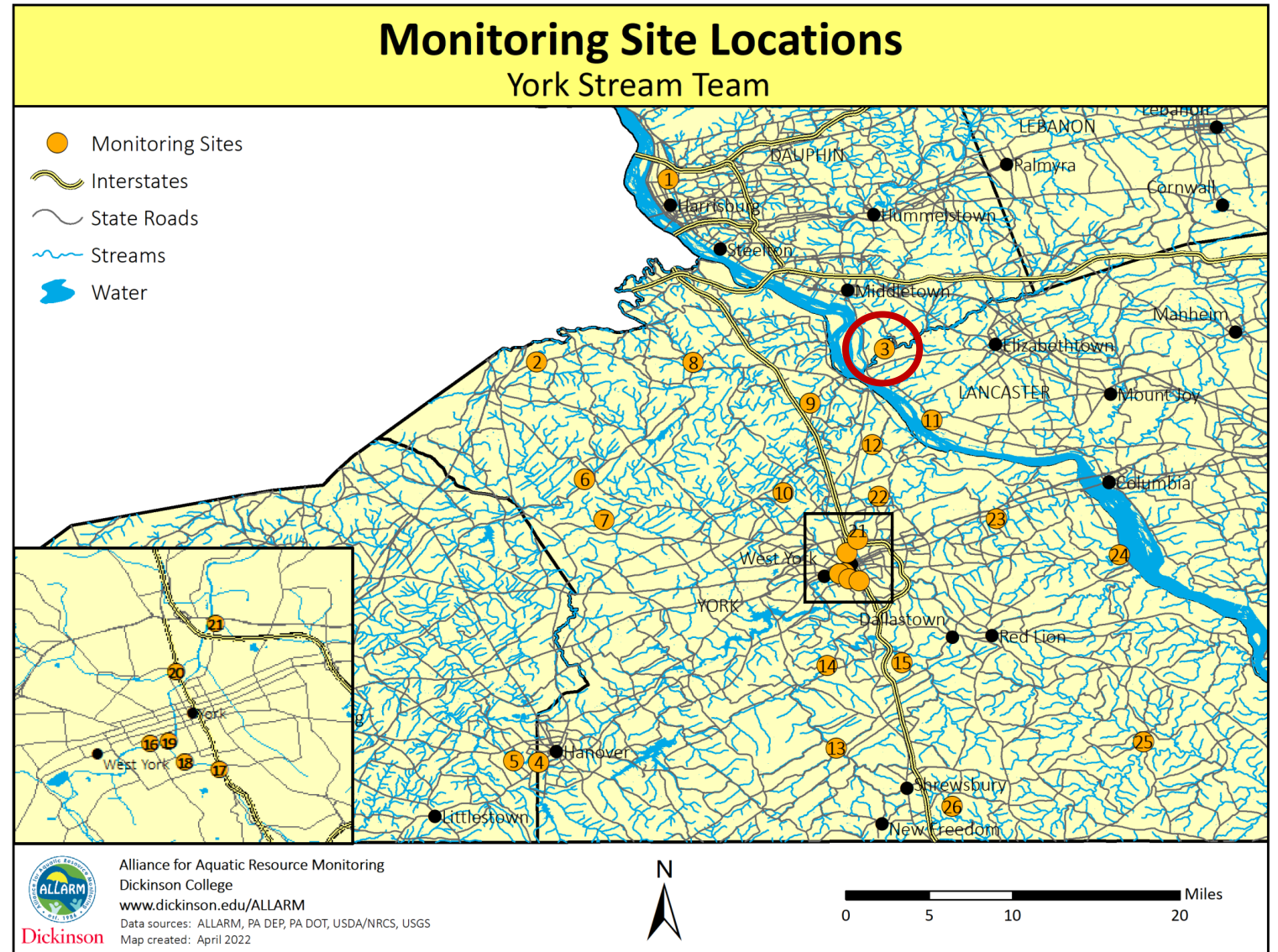
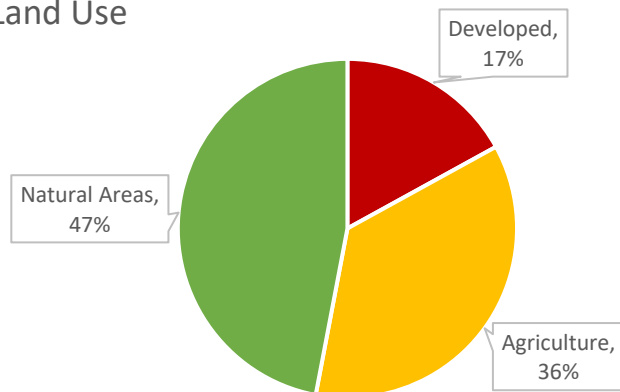
Conewago Creek E (CONCRE 2.81)

Monitor(s): Dennis Hurley & Cindy Greider

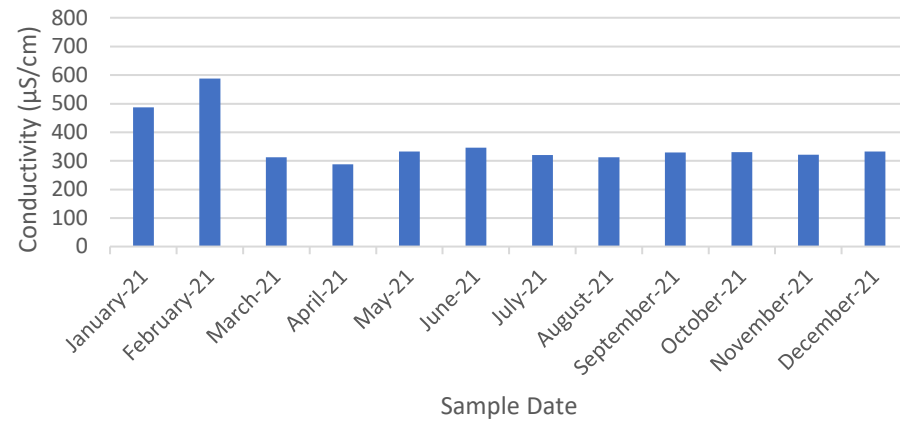
Site information:

- Drains 48 mi²
- Impaired: yes (aquatic life), nutrients
- Designation: Trout stocking
- Geology: non-carbonate (100%)

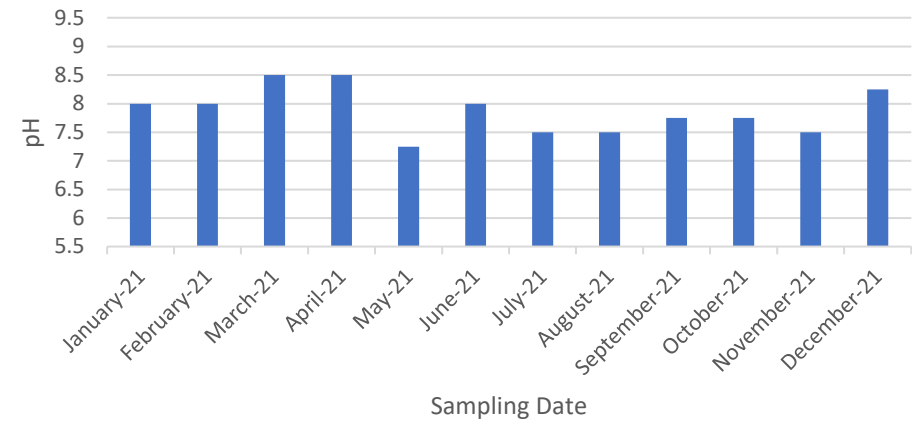
CONCRE 2.81 Land Use



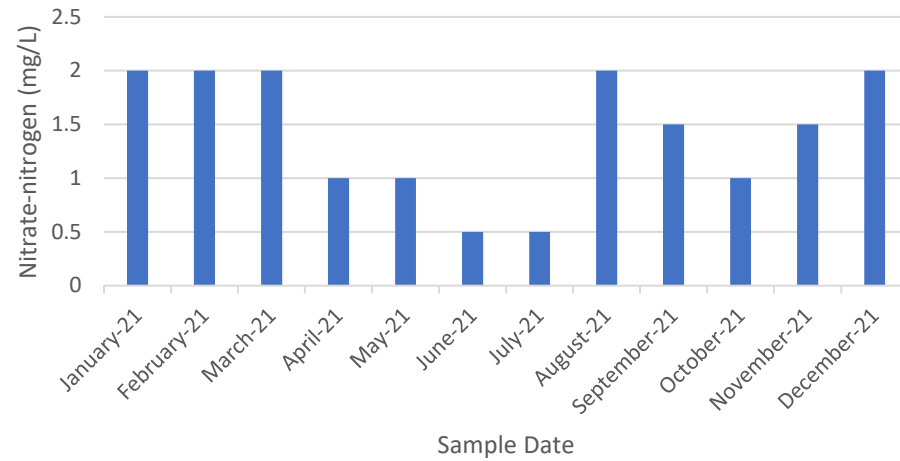
CONCRE2.81 - Conductivity



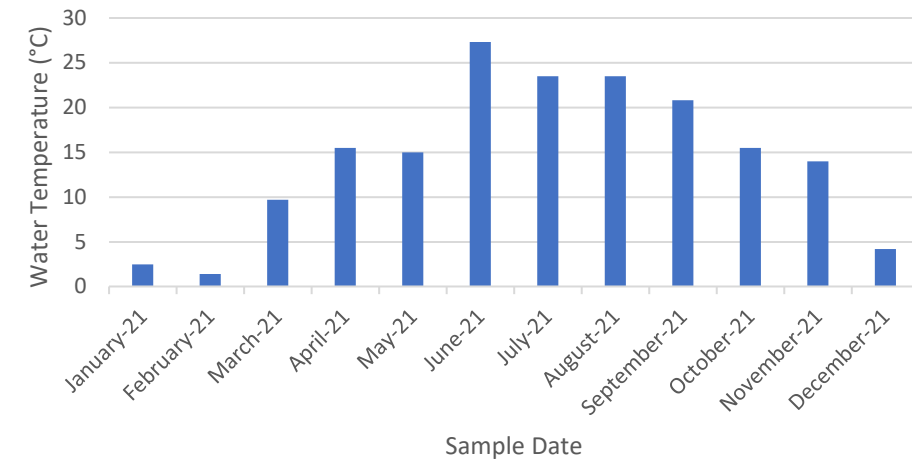
CONCRE2.81 - pH



CONCRE2.81 - Nitrate-nitrogen



CONCRE 2.81 - Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/23/2021	487	2	8	2.5
2/20/2021	588	2	8	1.4
3/22/2021	312	2	8.5	9.7
4/18/2021	288	1	8.5	15.5
5/24/2021	333	1	7.25	15
6/20/2021	346	0.5	8	27.3
7/18/2021	320	0.5	7.5	23.5
8/22/2021	313	2	7.5	23.5
9/20/2021	329	1.5	7.75	20.8
10/25/2021	331	1	7.75	15.5
11/22/2021	322	1.5	7.5	14
12/20/2021	333	2	8.25	4.2

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	288	0.5	7.25	1.4
Max	588	2	8.5	27.3
Median	330	1.5	7.88	15.3

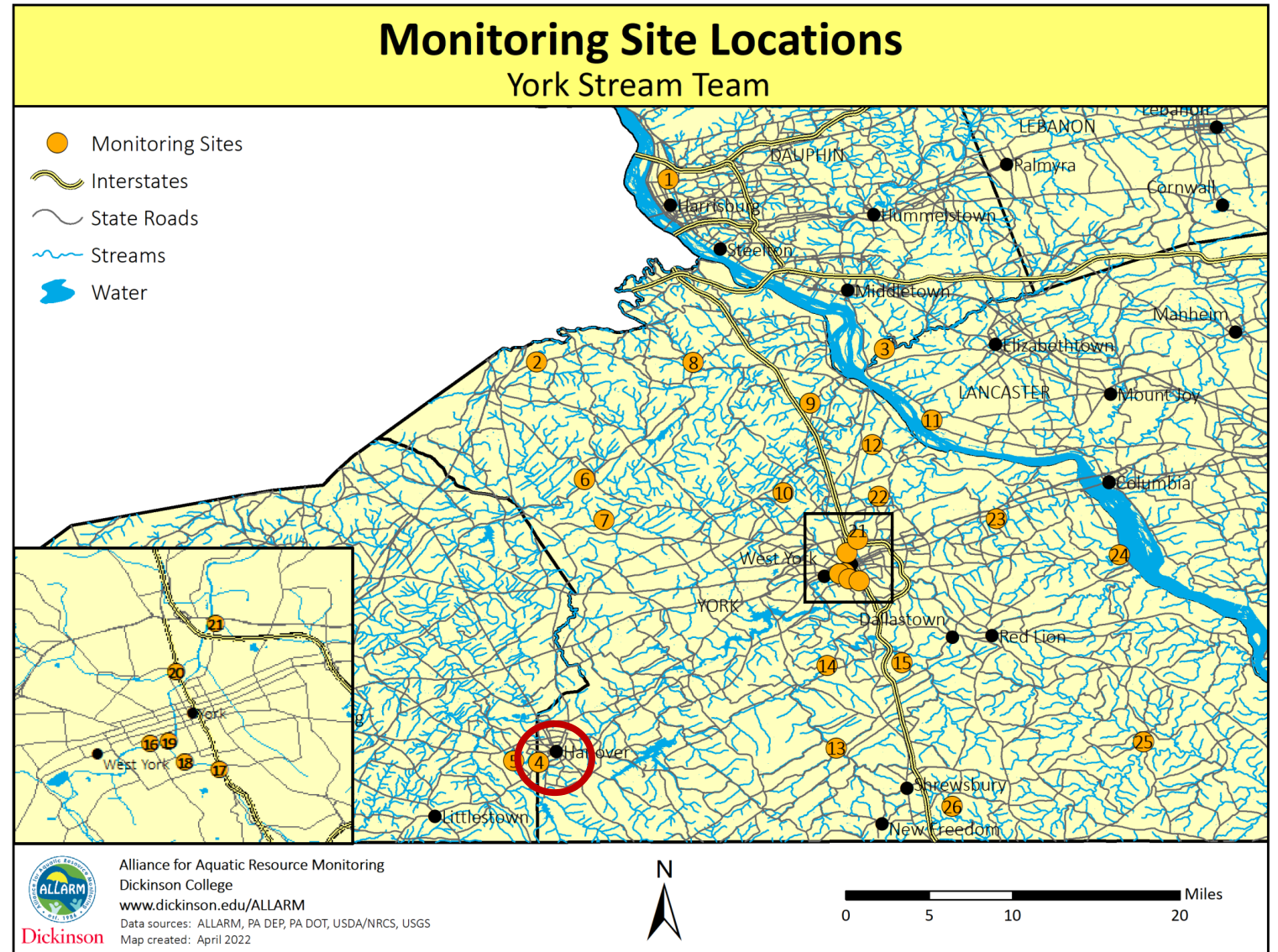
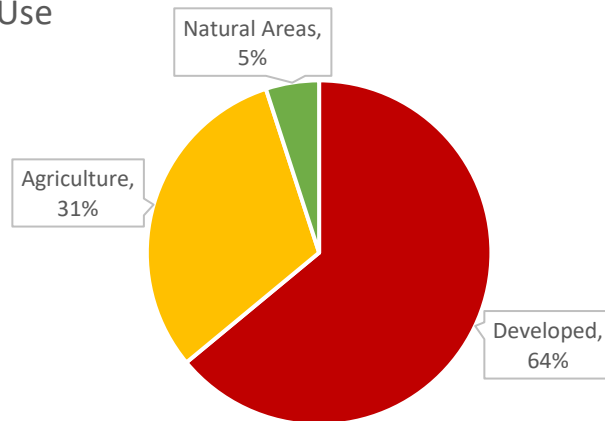
Plum Creek 1 (PLUCRE 4.26)

Monitor(s): Inactive

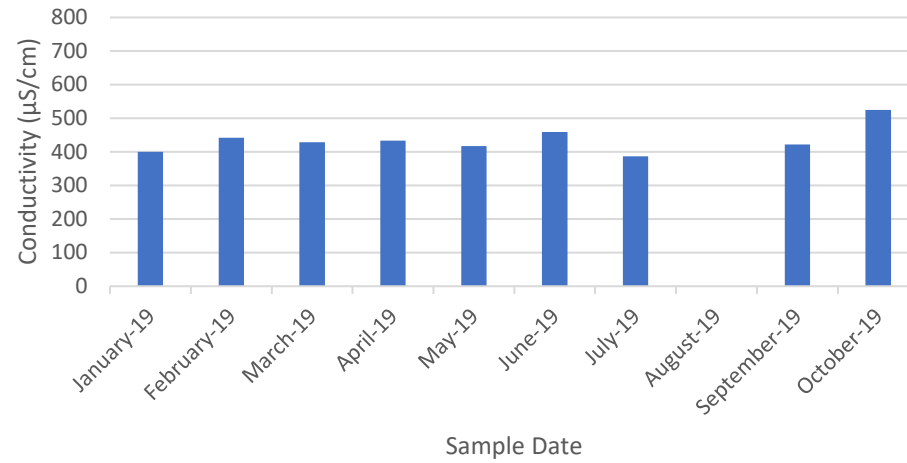
Site information:

- Drains 3 mi²
- Impaired: yes (aquatic life), urban runoff and agriculture (siltation)
- Designation: Warm Water Fishes
- Geology: non-carbonate (64%), carbonate (36%)

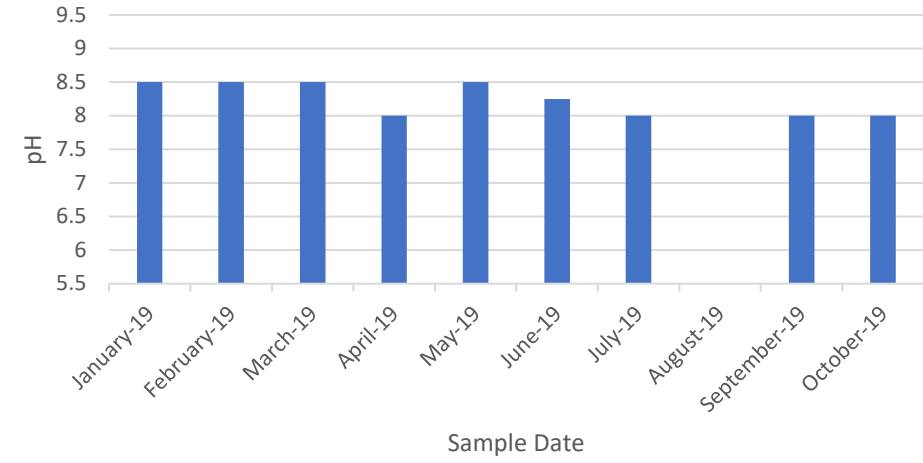
PLUCRE 4.26 Land Use



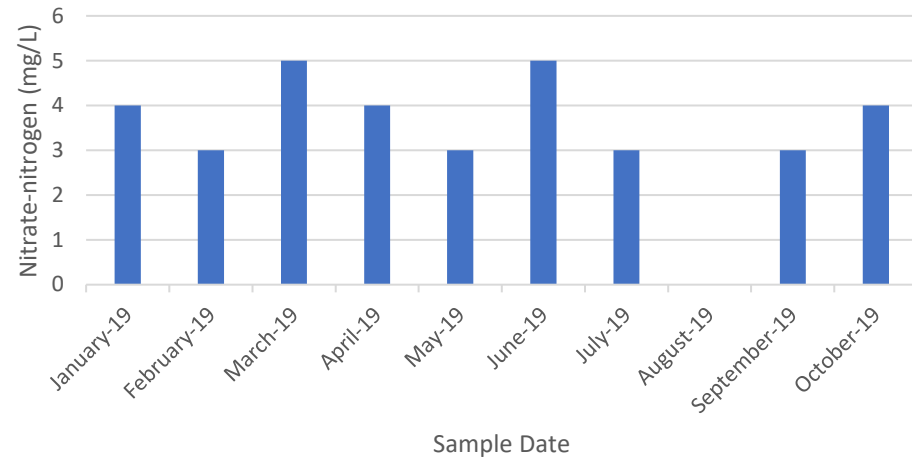
PLUCRE 4.26 - Conductivity



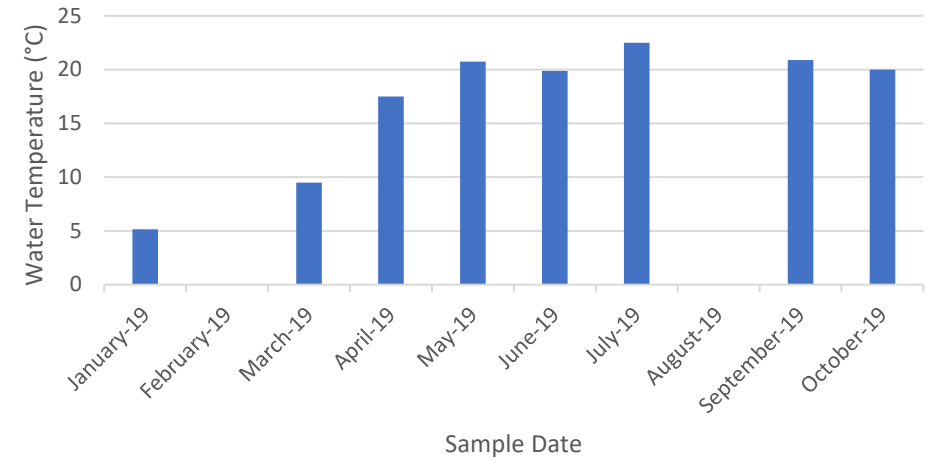
PLUCRE 4.26- pH



PLUCRE 4.26- Nitrate-Nitrogen



PLUCRE 4.26- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/28/2019	400	4	8.5	5.2
2/28/2019	442	3	8.5	
3/20/2019	429	5	8.5	9.5
4/30/2019	433	4	8	17.5
5/31/2019	417	3	8.5	20.7
6/17/2019	459	5	8.25	19.9
7/31/2019	387	3	8	22.5
9/2/2019	422	3	8	20.9
10/3/2019	525	4	8	20

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	387	3	8	5.2
Max	525	5	8.5	22.5
Median	429	4	8.25	20.0

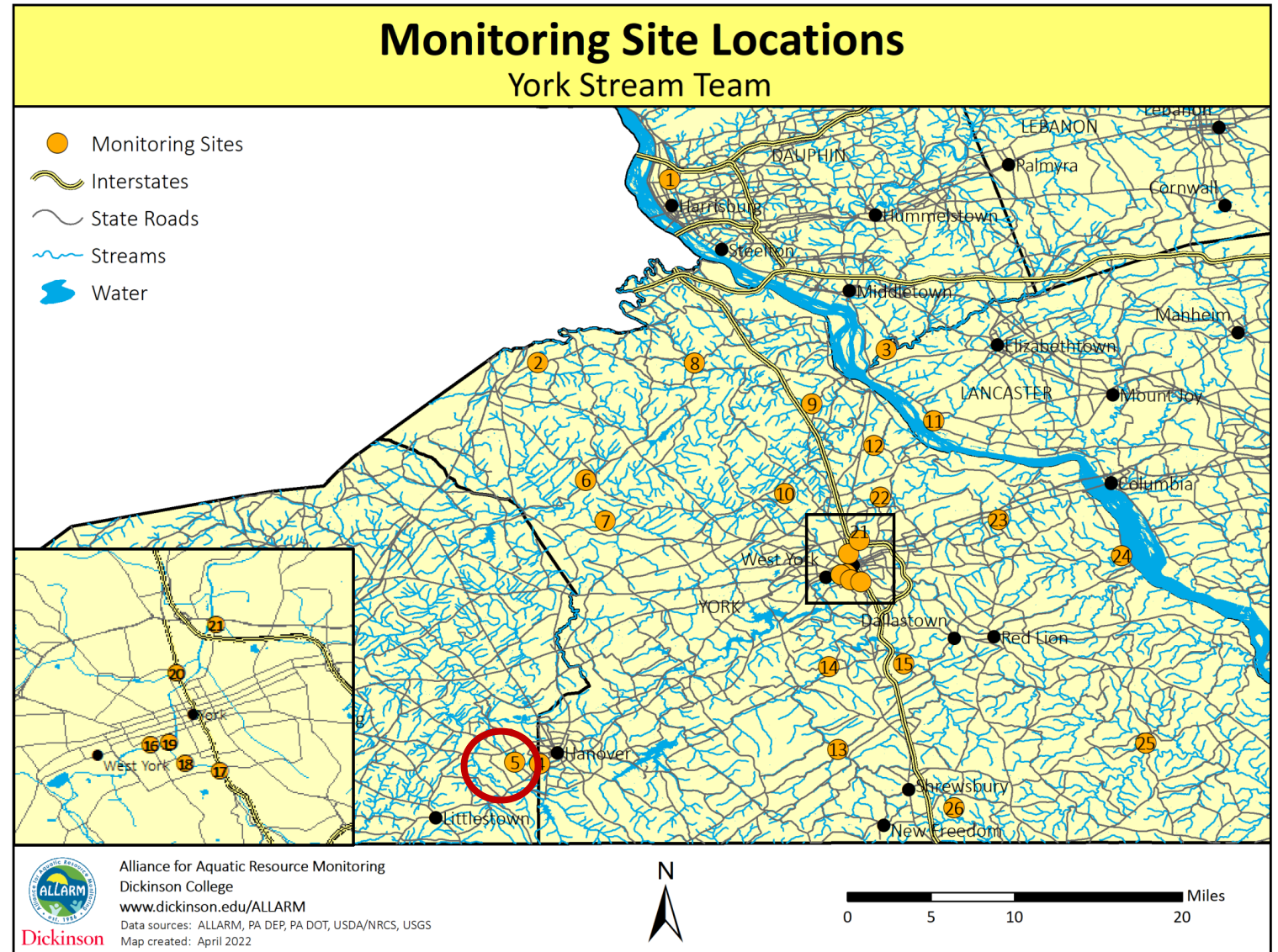
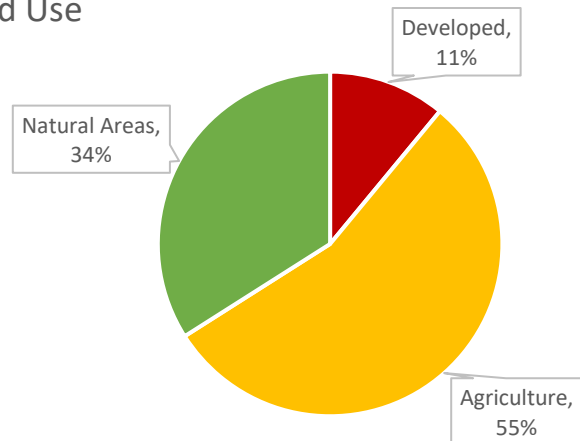
Plum Creek 2 (PLUCRE 2.44)

Monitor(s): Inactive

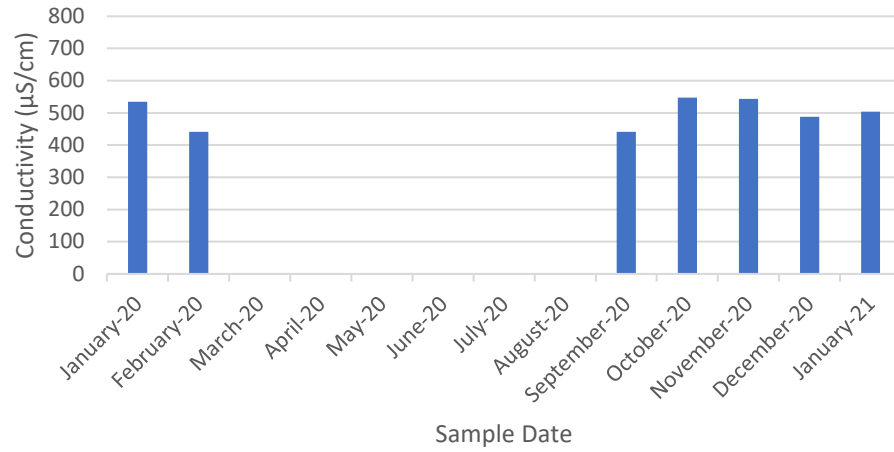
Site information:

- Drains 15 mi²
- Impaired: no
- Designation: Warm Water Fishes
- Geology: non-carbonate (91%), carbonate (9%)

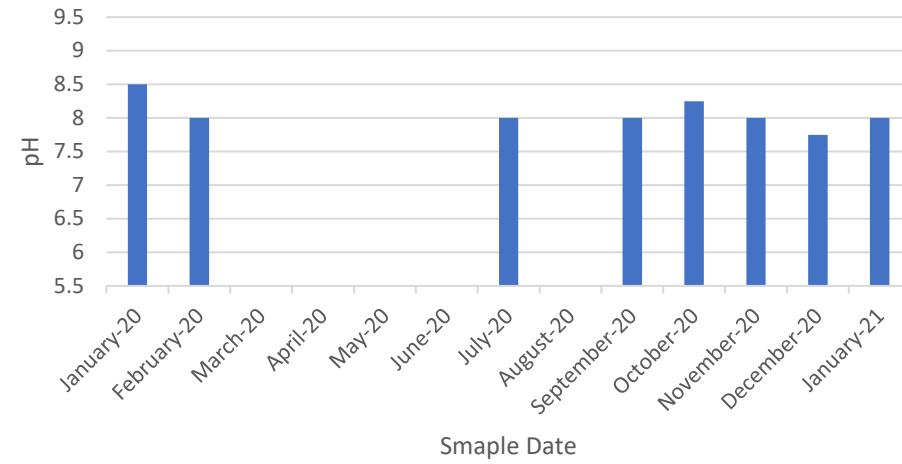
PLUCRE 2.44 Land Use



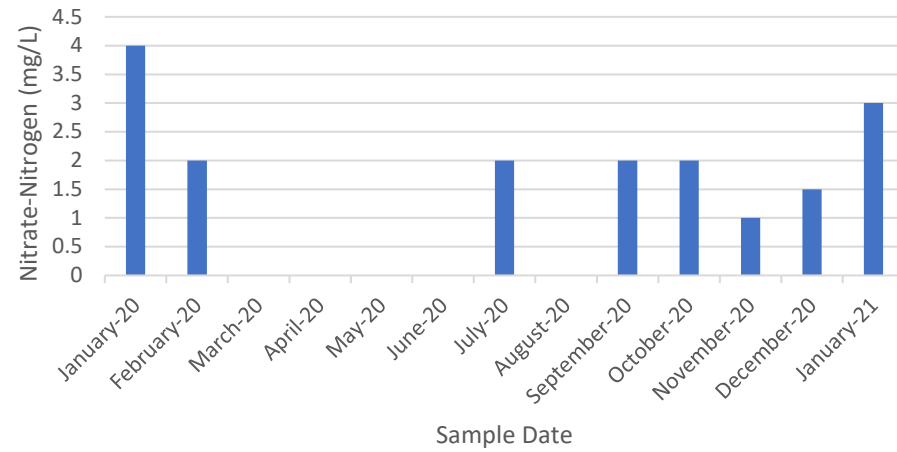
PLUCRE 2.44 - Conductivity



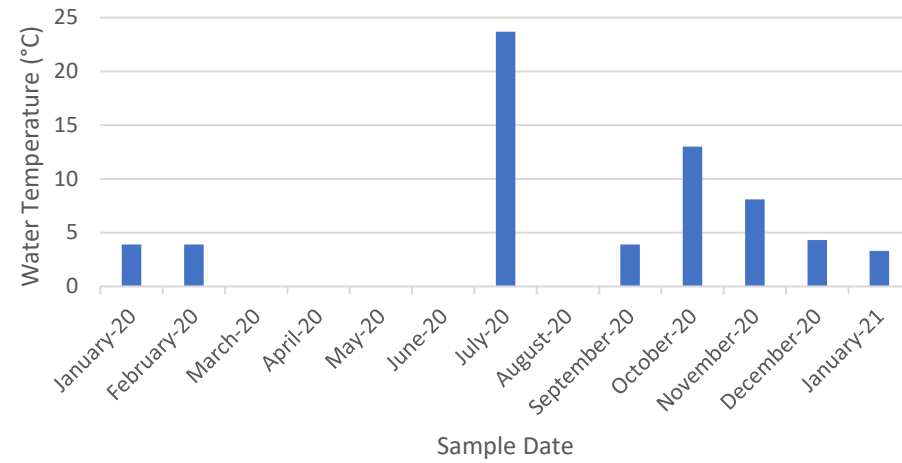
PLUCRE 2.44 - pH



PLUCRE 2.44 - Nitrate-Nitrogen



PLUCRE 2.44 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/20/2020	535	4	8.5	3.9
2/15/2020	441	2	8	3.9
7/17/2020		2	8	23.7
9/19/2020	441	2	8	3.9
10/17/2020	547	2	8.25	13
11/21/2020	543	1	8	8.1
12/28/2020	488	1.5	7.75	4.3
1/25/2021	504	3	8	3.3

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	441	1	7.75	3.3
Max	547	4	8.5	23.7
Median	504	2	8	4.1

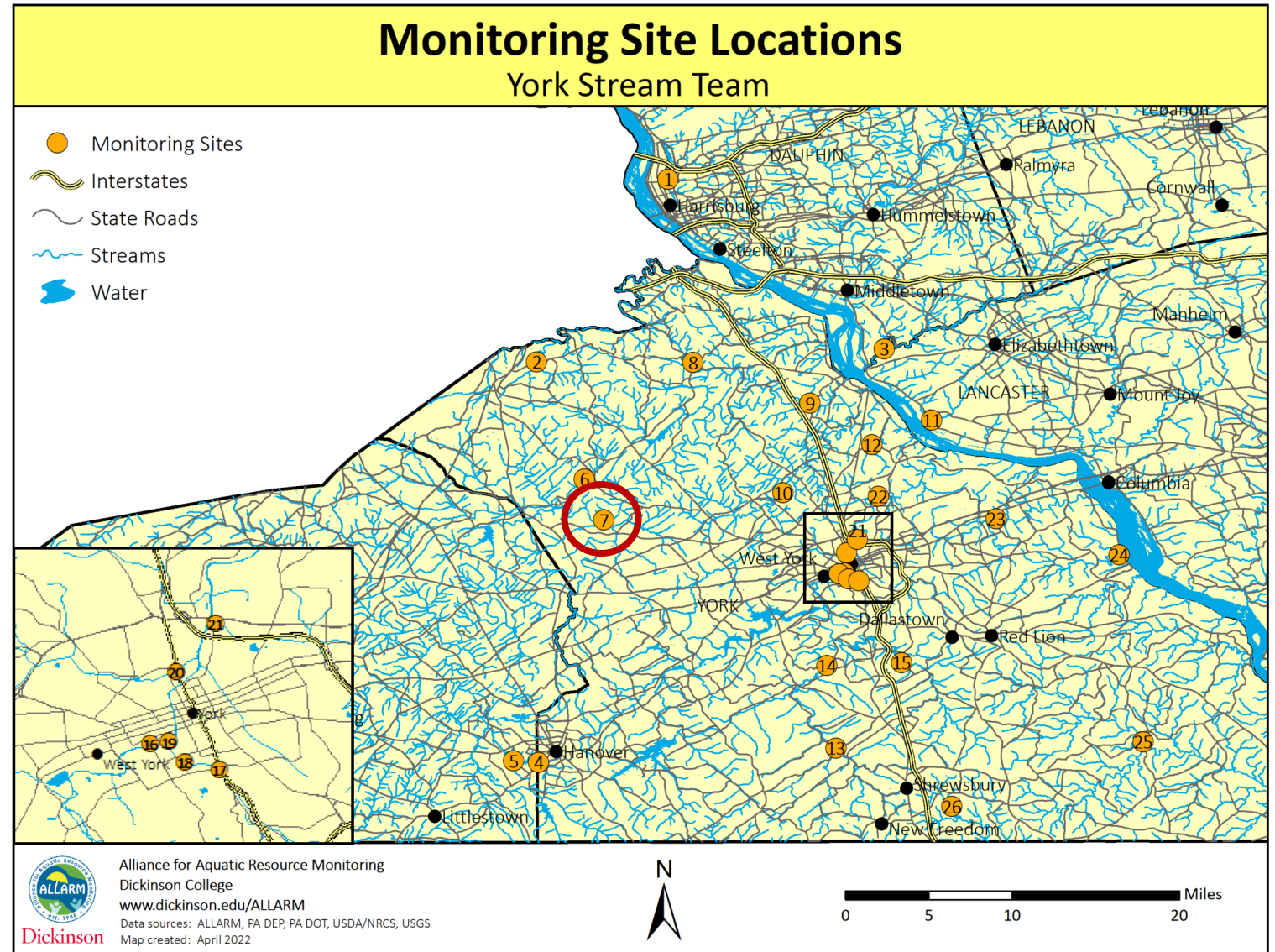
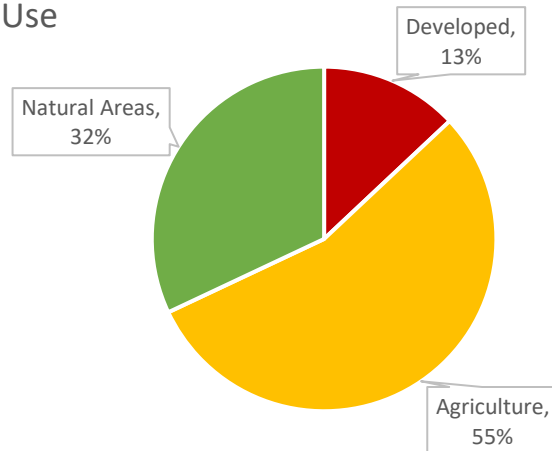
Bermudian Creek (BERCRE 1.22)

Monitor(s): Jeff & Tina Gleim

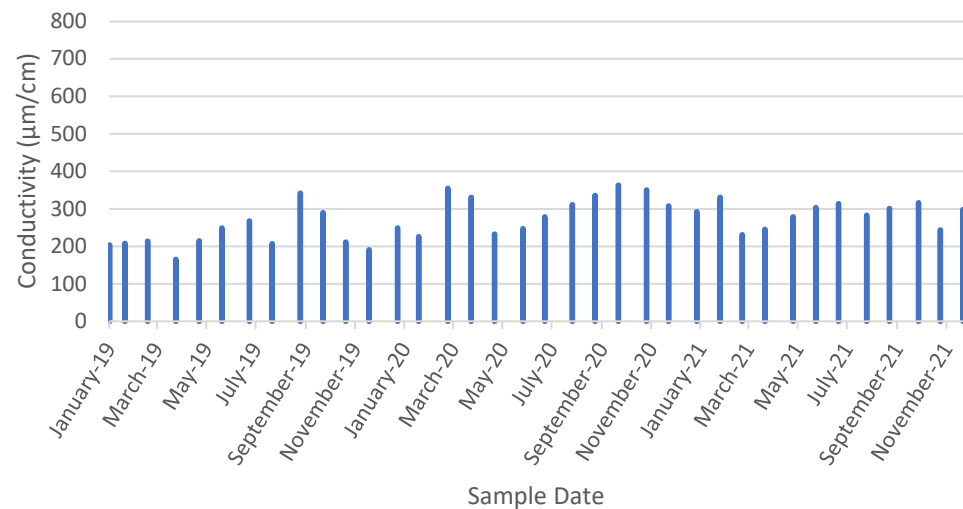
Site information:

- Drains 109 mi²
- Impaired: no
- Designation: Warm Water Fishes
- Geology: non-carbonate (99%), carbonate (1%)

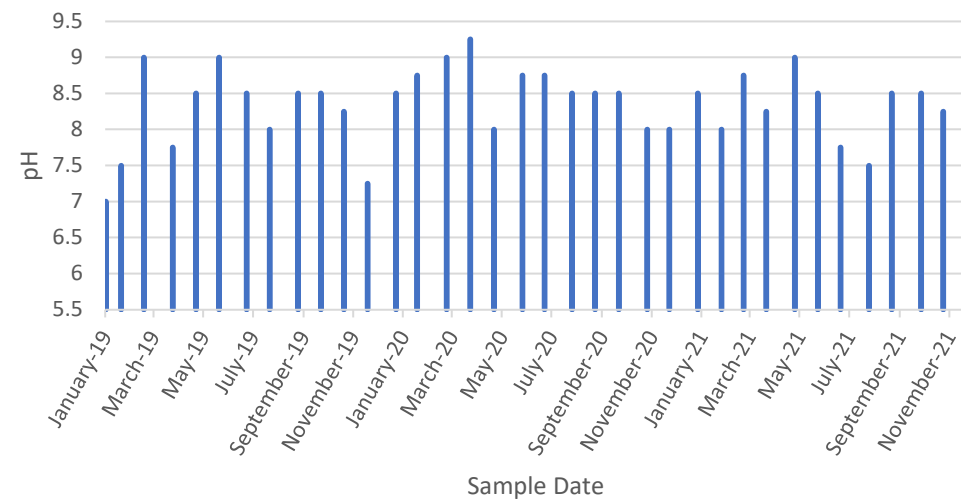
BERCRE 1.22 Land Use



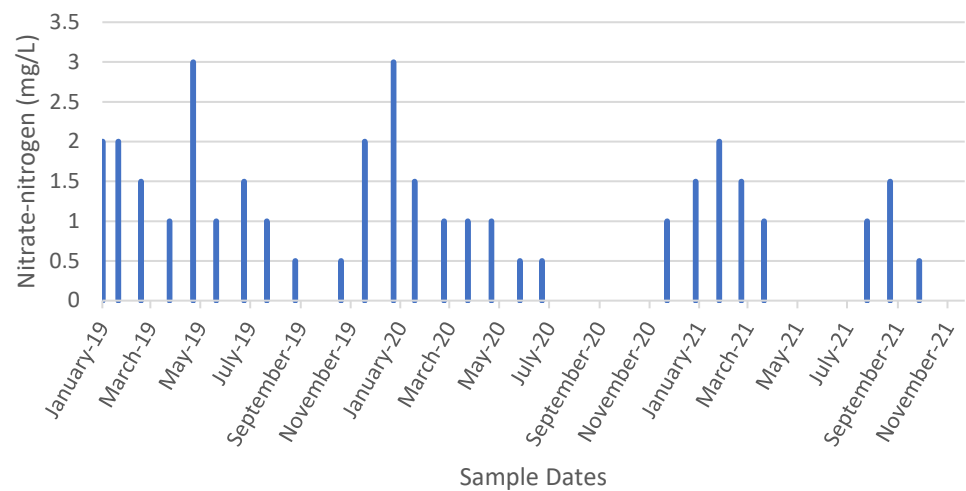
BERCRE 1.22 -- Conductivity



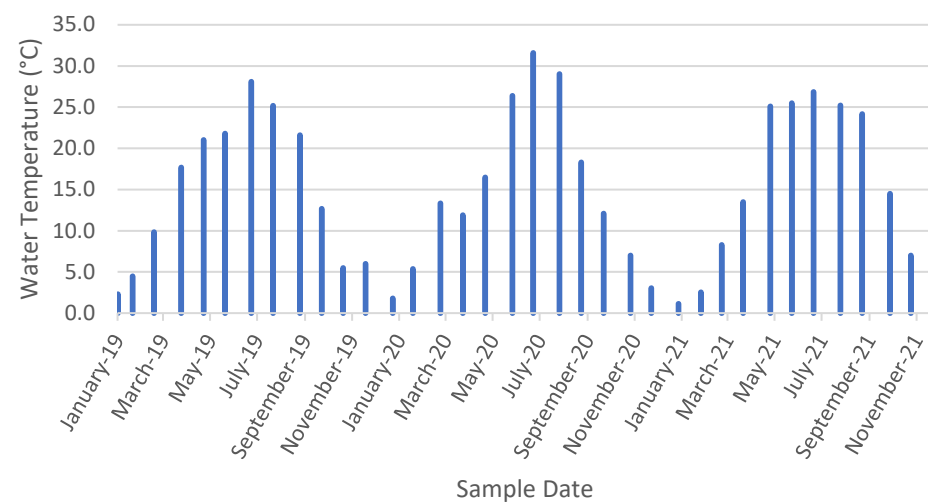
BERCRE 1.22 -- pH



BERCRE 1.22 -- Nitrate-nitrogen



BERCRE 1.22 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/28/2019	204	2	7	2.3
2/16/2019	208	2	7.5	4.5
3/16/2019	214	1.5	9	9.9
4/20/2019	165	1	7.75	17.7
5/19/2019	215	3	8.5	21.1
6/16/2019	249	1	9	21.8
7/20/2019	268	1.5	8.5	28.1
8/17/2019	207	1	8	25.2
9/21/2019	342	0.5	8.5	21.6
10/19/2019	290	0	8.5	12.7
11/16/2019	211	0.5	8.25	5.5
12/15/2019	191	2	7.25	6.0
1/19/2020	249	3	8.5	1.8
2/14/2020	226	1.5	8.75	5.4
3/21/2020	355	1	9	13.4
4/19/2020	331	1	9.25	11.9
5/18/2020	233	1	8	16.5
6/22/2020	247	0.5	8.75	26.4
7/19/2020	279	0.5	8.75	31.6
8/22/2020	311	0	8.5	29.1
9/19/2020	336	0	8.5	18.3
10/18/2020	363	0	8.5	12.1
11/22/2020	350	0	8	7.0
12/19/2020	308	1	8	3.1
1/23/2021	292	1.5	8.5	1.2
2/21/2021	331	2	8	2.6
3/20/2021	231	1.5	8.75	8.3
4/17/2021	245	1	8.25	13.5
5/22/2021	279	0	9	25.1
6/19/2021	303	0	8.5	25.5
7/17/2021	314	0	7.75	26.9
8/21/2021	283	1	7.5	25.3
9/18/2021	301	1.5	8.5	24.2
10/24/2021	316	0.5	8.5	14.5
11/20/2021	244	0	8.25	7.0
12/18/2021	298	0	8.5	7.1

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	165	0	7	1.2
Max	363	3	9.25	31.6
Median	279	1	8.5	13.4

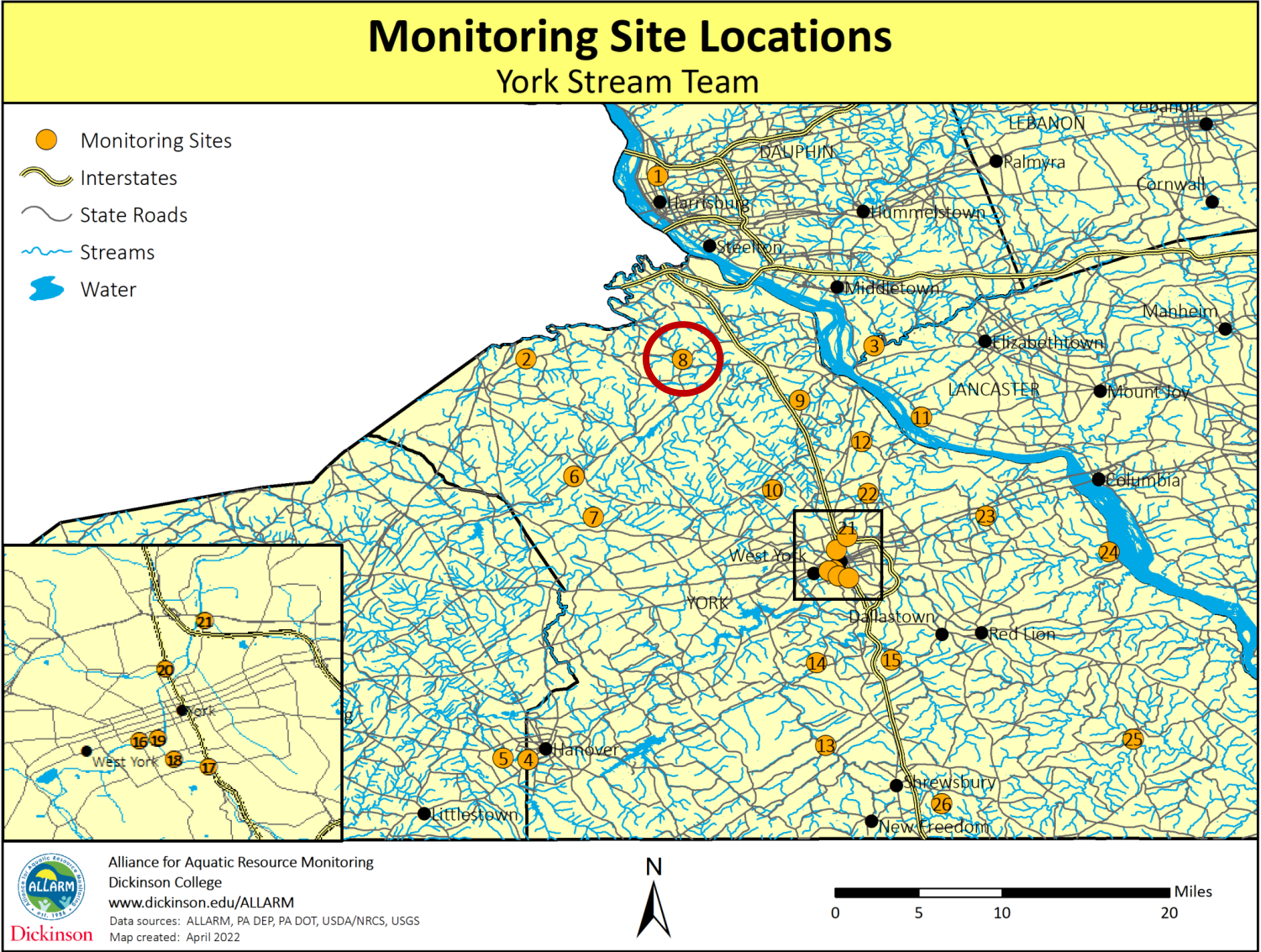
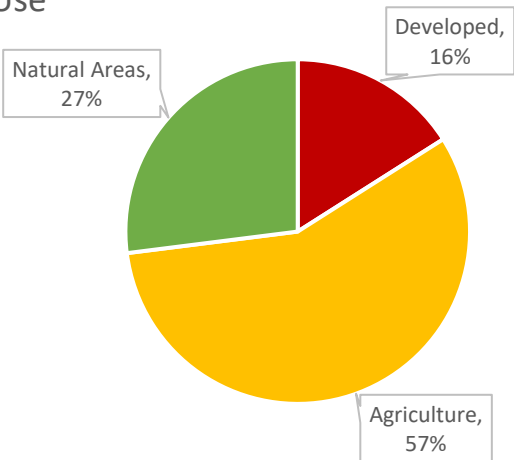
Bennetts Run (BENRUN 5.65)

Monitor(s): Inactive

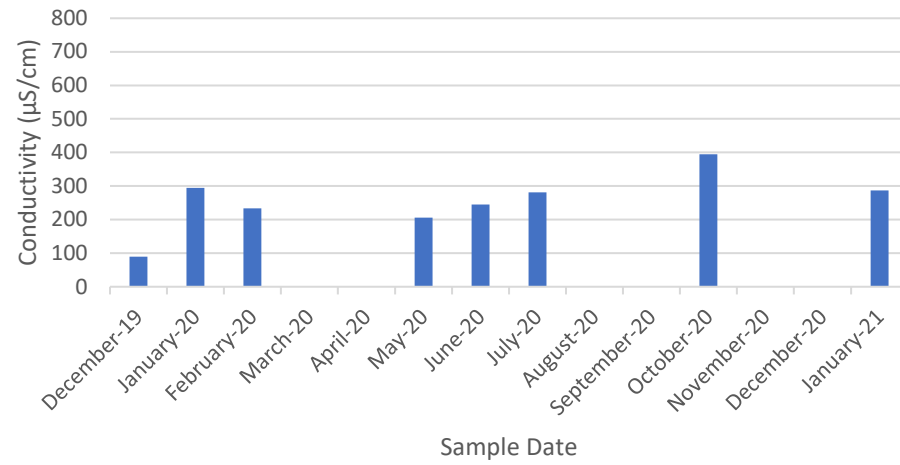
Site information:

- Drains 4 mi²
- Impaired: yes (recreational), Pathogens
- Designation: Warm Water Fishes
- Geology: non-carbonate (100%)

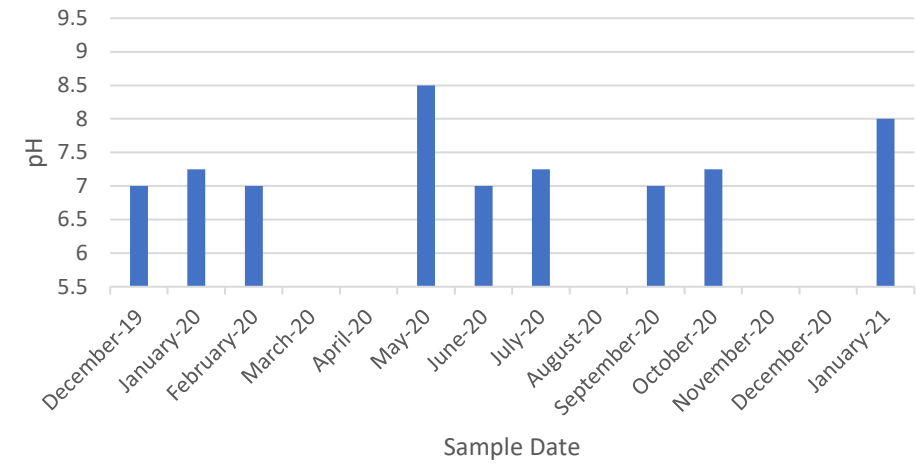
BENRUN 5.65
Land Use



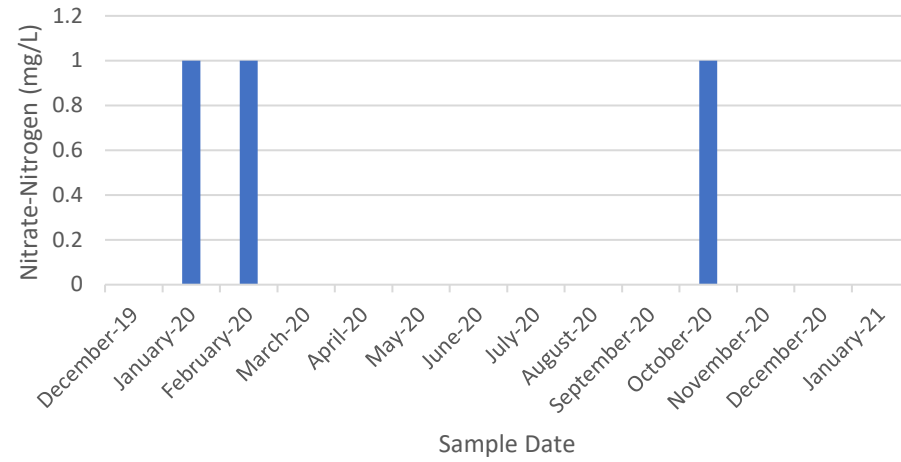
BENRUN5.65 - Conductivity



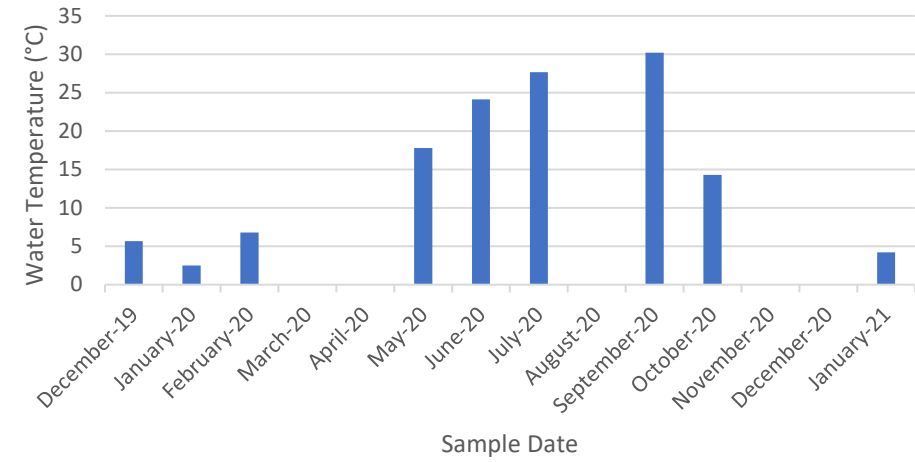
BENRUNE 5.65 - pH



BENRUN5.65 - Nitrate-Nitrogen



BENRUN 5.65 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/15/2019	90	0	7	5.7
1/21/2020	295	1	7.25	2.5
2/17/2020	234	1	7	6.8
5/17/2020	206	0	8.5	17.8
6/23/2020	245	0	7	24.1
7/14/2020	281	0	7.25	27.7
9/21/2020		0	7	30.2
10/19/2020	395	1	7.25	14.3
1/24/2021	287	0	8	4.2

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	90	0	7	2.5
Max	395	1	8.5	30.2
Median	263	0	7.25	14.3

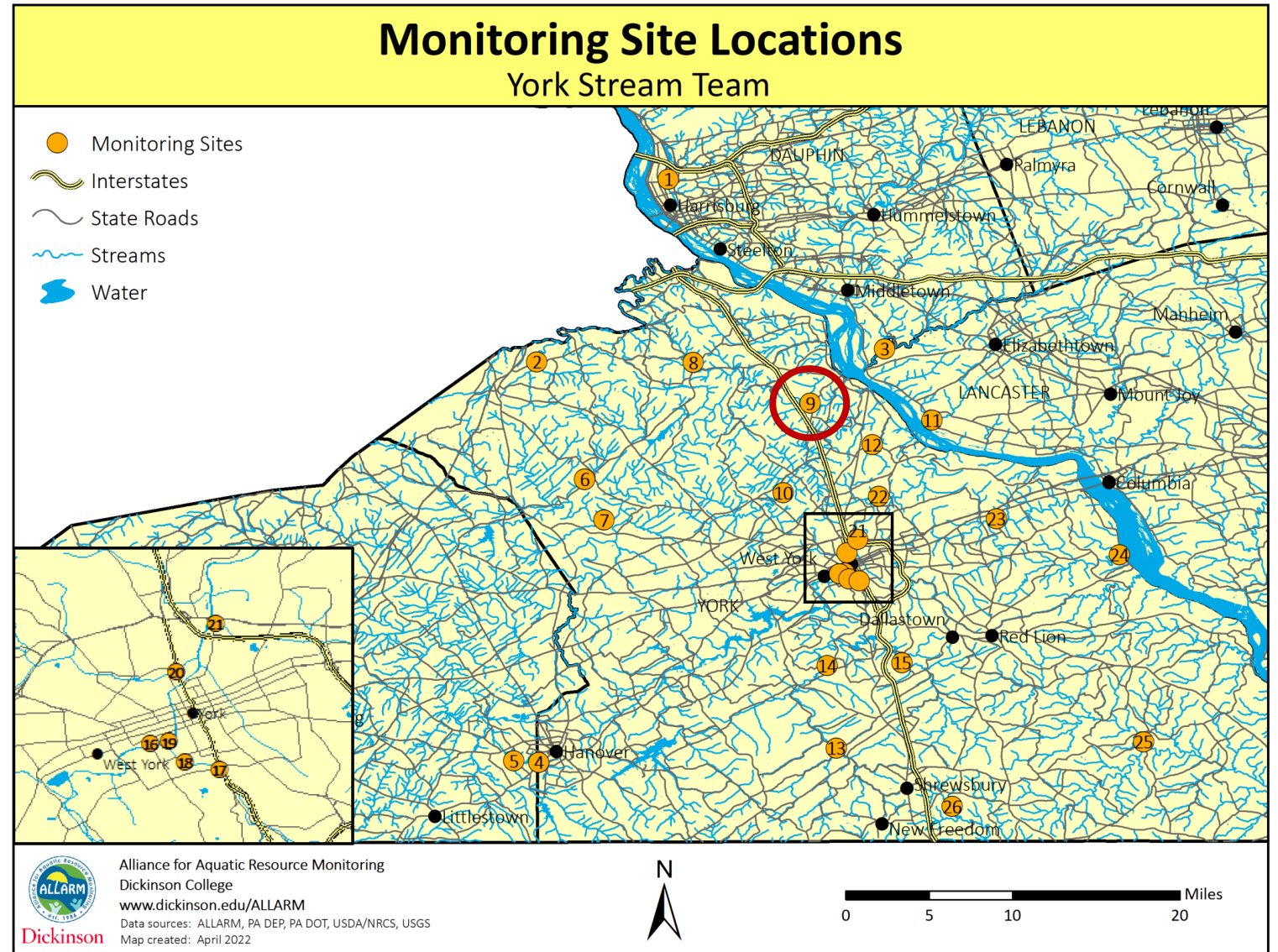
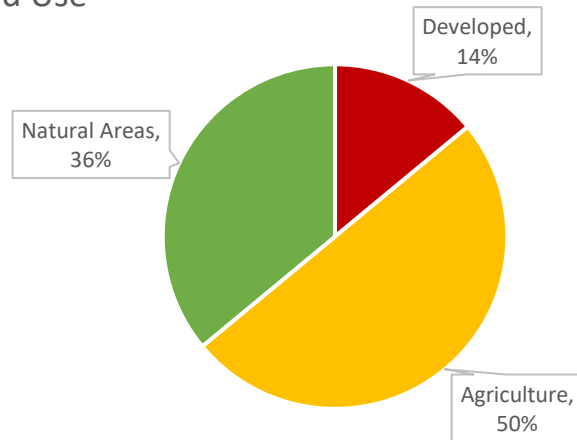
Conewago Creek W (CONCRE 7.04)

Monitor(s): Tim Stambaugh, Matt Pyle, Renee Reb

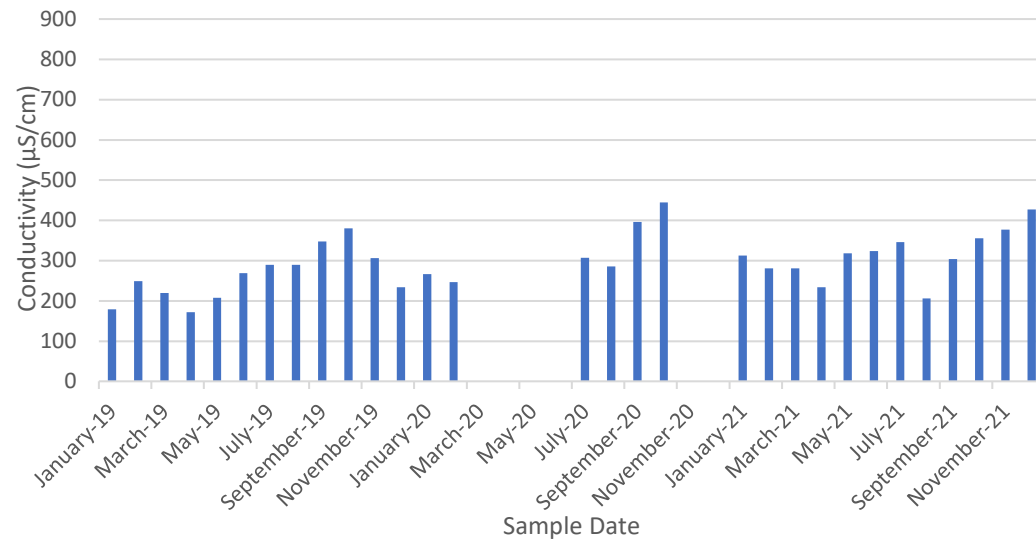
Site information:

- Drains 422 mi²
- Impaired: no
- Designation: Warm Water Fishes
- Geology: non-carbonate (93%), carbonate (7%)

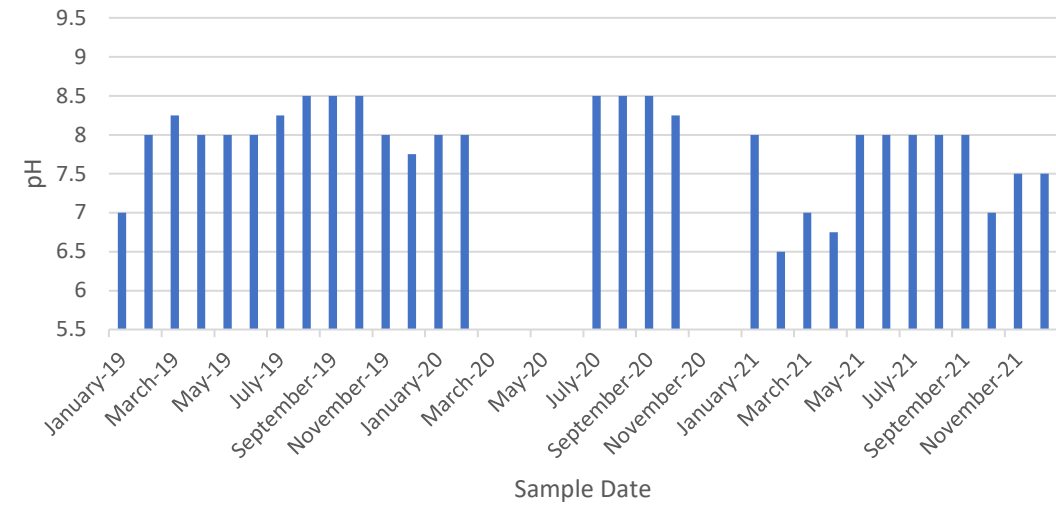
CONCRE 7.04 Land Use



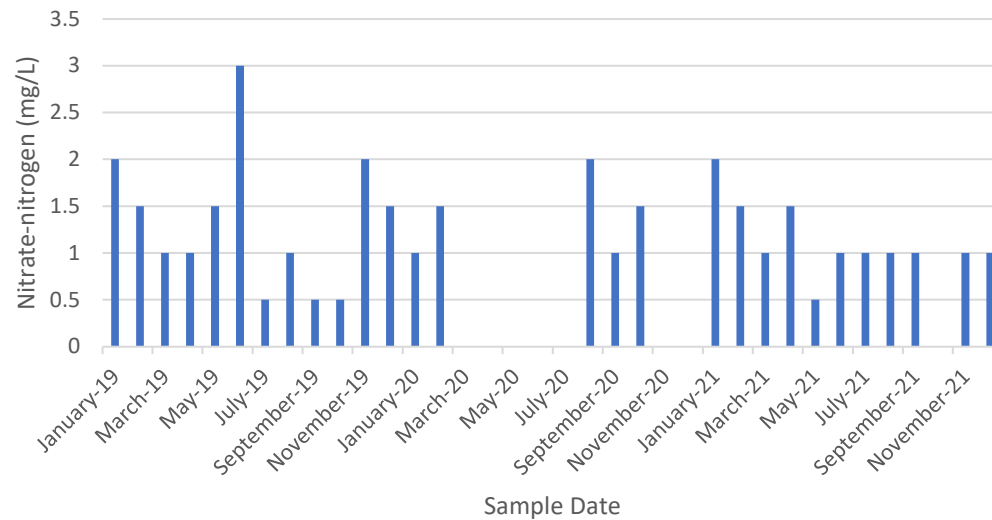
CONCRE 7.04 - Conductivity



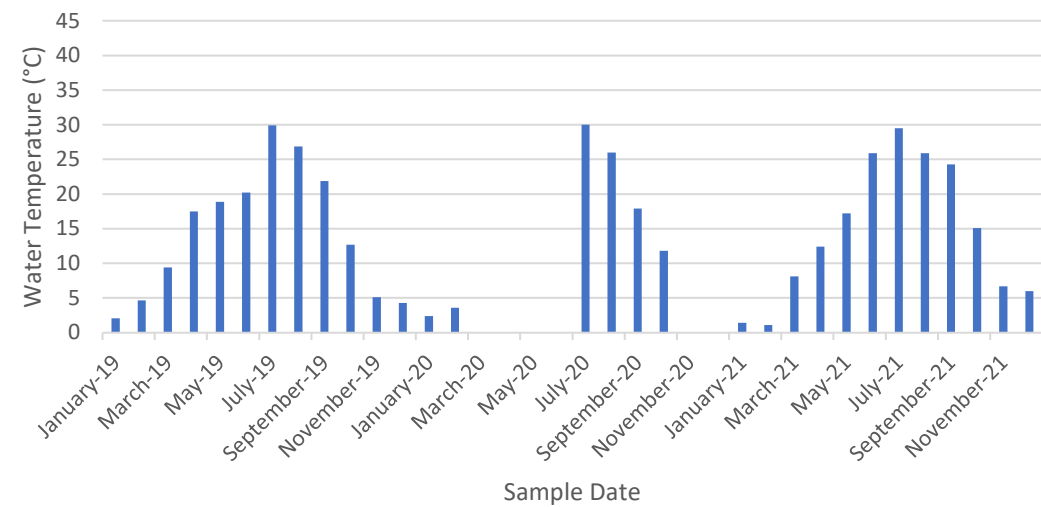
CONCRE 7.04 - pH



CONCRE 7.04 - Nitrate-nitrogen



CONCRE 7.04 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/26/2019	179.5	2	7	2.1
2/16/2019	249	1.5	8	4.7
3/16/2019	220	1	8.25	9.4
4/20/2019	172.2	1	8	17.5
5/18/2019	208	1.5	8	18.9
6/15/2019	269	3	8	20.2
7/20/2019	290	0.5	8.25	29.9
8/17/2019	290	1	8.5	26.9
9/22/2019	348	0.5	8.5	21.9
10/19/2019	380	0.5	8.5	12.7
11/16/2019	306	2	8	5.1
12/15/2019	234	1.5	7.75	4.3
1/18/2020	267	1	8	2.4
2/22/2020	247	1.5	8	3.6
7/19/2020	307	0	8.5	30
8/15/2020	286	2	8.5	26
9/19/2020	396	1	8.5	17.9
10/18/2020	445	1.5	8.25	11.8
1/23/2021	313	2	8	1.4
2/20/2021	281	1.5	6.5	1.1
3/20/2021	281	1	7	8.1
4/17/2021	234	1.5	6.75	12.4
5/15/2021	318	0.5	8	17.2
6/20/2021	324	1	8	25.9
7/7/2021	346	1	8	29.5
8/21/2021	206	1	8	25.9
9/18/2021	304	1	8	24.3
10/23/2021	356	0	7	15.1
11/21/2021	377	1	7.5	6.7
12/26/2021	427	1	7.5	6

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	172.2	0	6.5	1.1
Max	445	3	8.5	30
Median	290	1	8	13.9

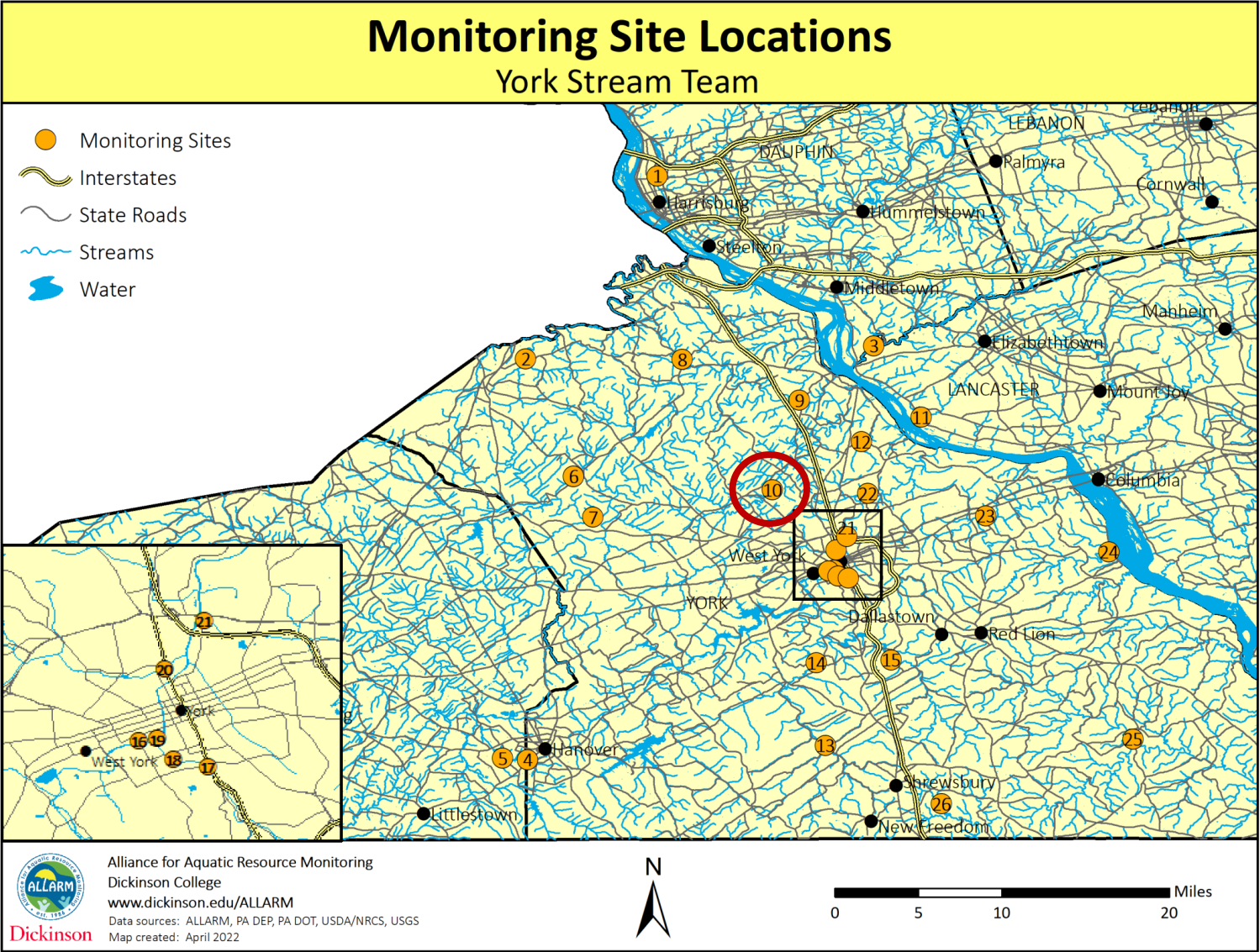
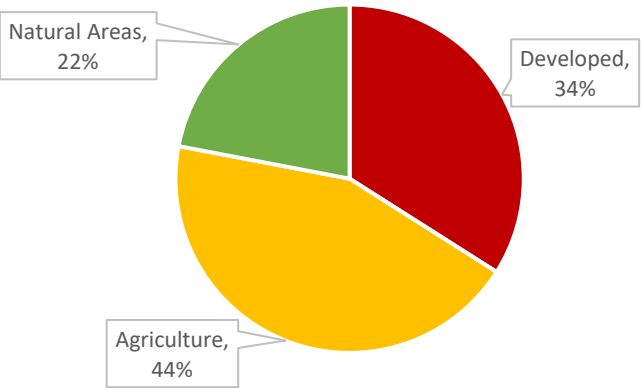
Little Conewago Creek (LITCONCRE 12.56)

Monitor(s): Brian & Emma Guzzone

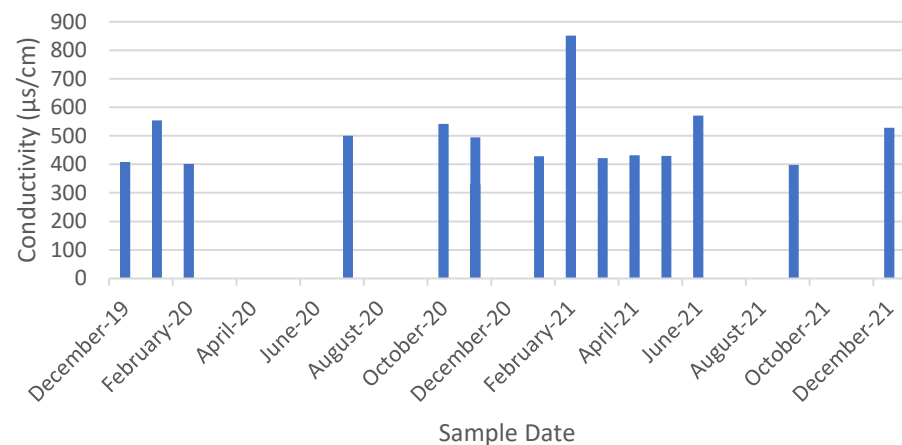
Site information:

- Drains 42 mi²
- Impaired: Yes (recreational), pathogens
- Designation: Trout Stocking
- Geology: non-carbonate (88%), carbonate (12%)

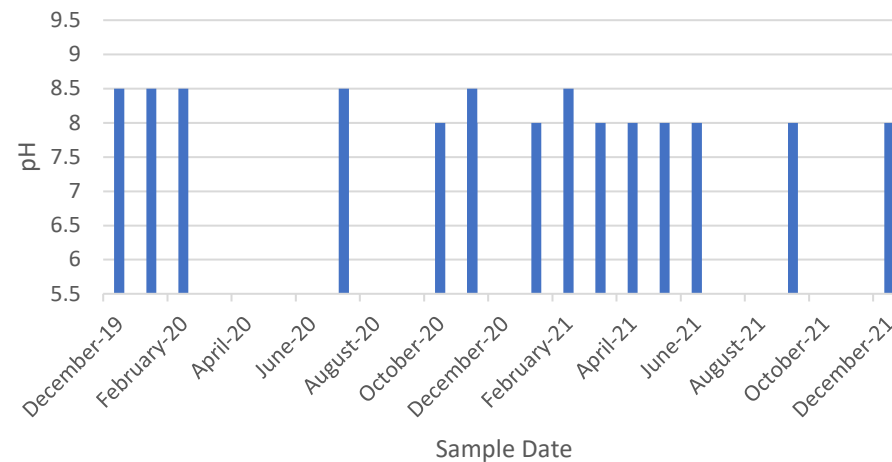
LITCONCRE 12.56 Land Use



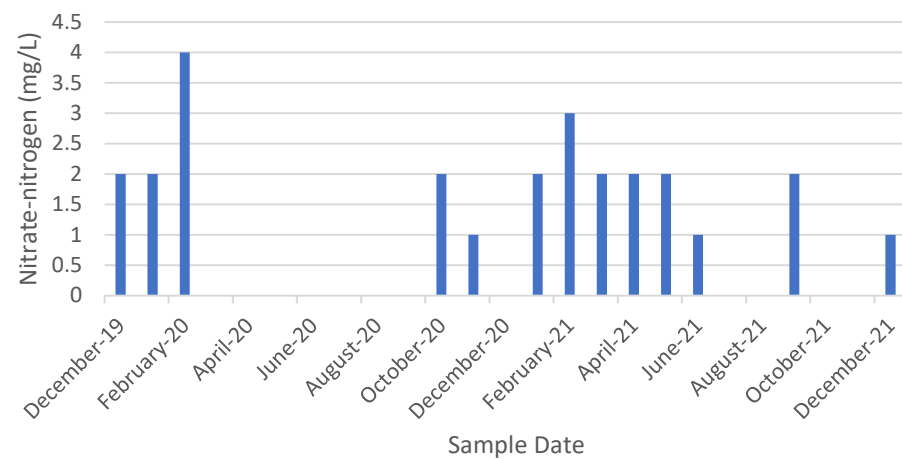
LITCONCRE 12.56 - Conductivity



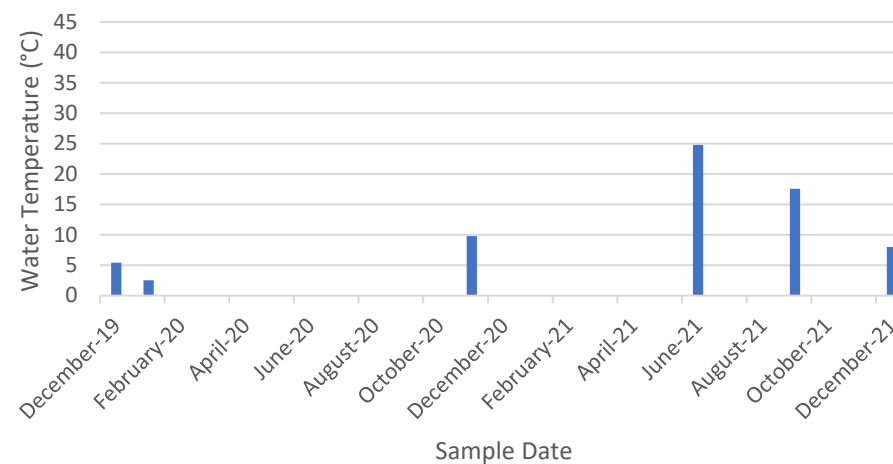
LITCONCRE 12.56 - pH



LITCONCRE 12.56 - Nitrate-nitrogen



LITCONCRE 12.56 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/1/2019	408	2	8.5	5.4
1/1/2020	554	2	8.5	2.5
2/1/2020	401	4	8.5	
7/1/2020	500	0	8.5	
10/1/2020	542	2	8	
11/1/2020	330	1	8.5	7.1
11/1/2020	495	1	8	9.8
1/1/2021	429	2	8	
2/1/2021	852	3	8.5	
3/1/2021	422	2	8	
4/1/2021	432	2	8	
5/1/2021	430	2	8	
6/1/2021	571	1	8	24.8
9/1/2021	398	2	8	17.6
12/1/2021	528	1	8	8

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Max	852	4	8.5	24.8
Min	330	0	8	2.5
Median	432	2	8	8

Conoy Creek (CONCRE 0.41)

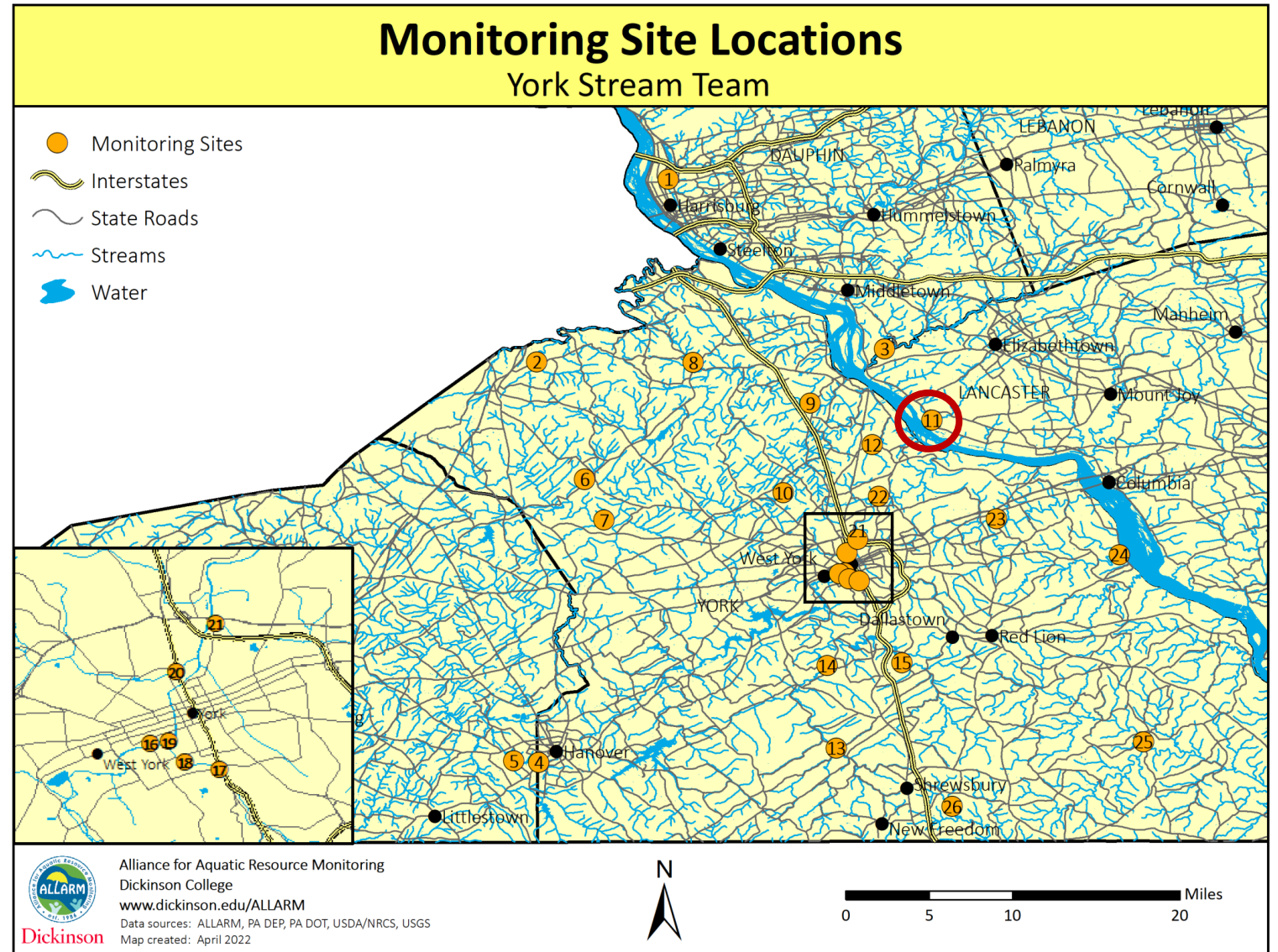
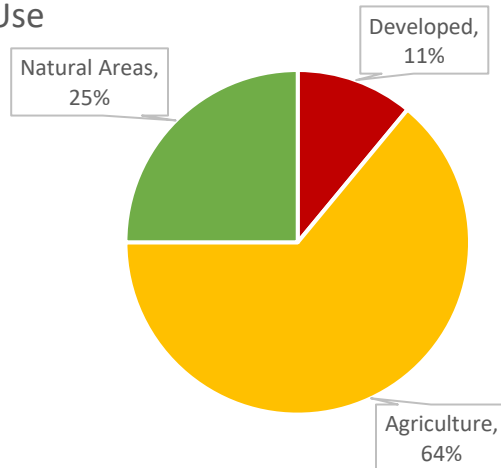
Monitor(s): Chris & Liz Glaston

Site information:

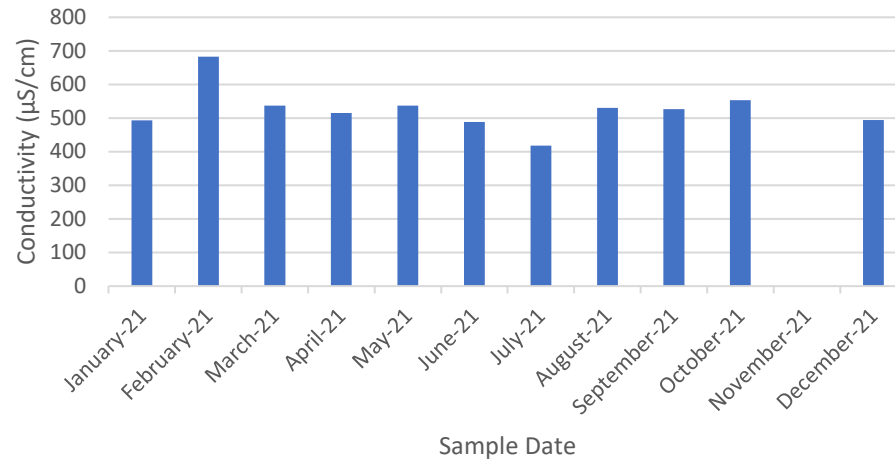
- Drains 28 mi²
- Impaired: no
- Designation: Trout Stocking
- Geology: non-carbonate (100%),

CONCRE 0.41

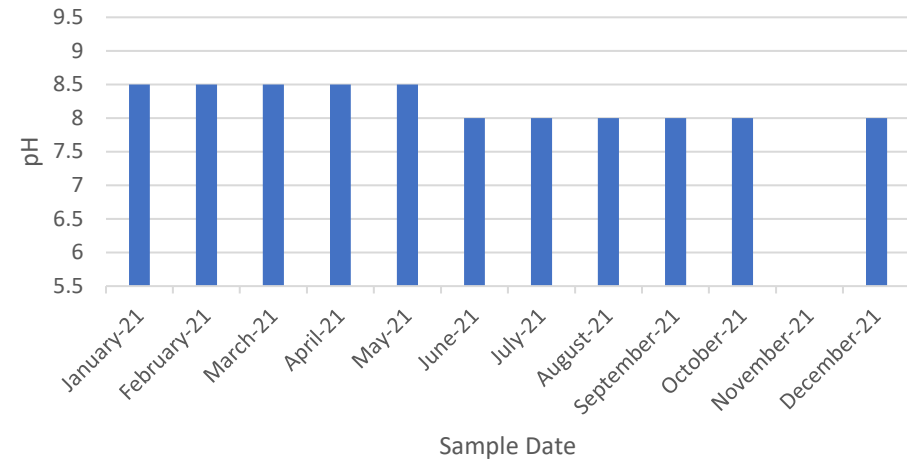
Land Use



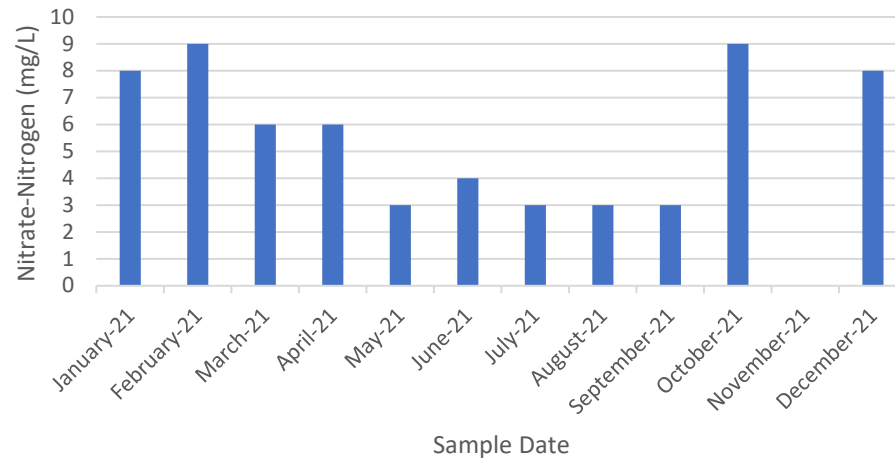
CONCRE0.41 - Conductivity



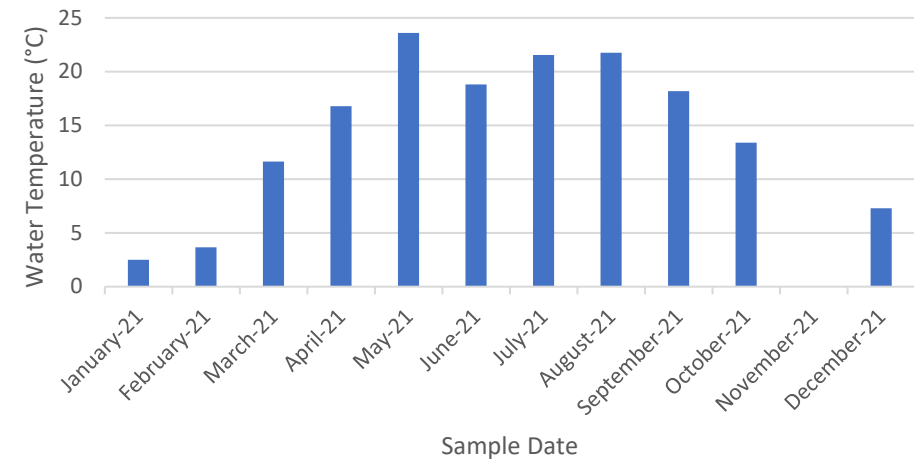
CONCRE0.41 - pH



CONCRE0.41 - Nitrate-Nitrogen



CONCRE0.41 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/24/2021	493	8	8.5	2.5
2/22/2021	683	9	8.5	3.7
3/21/2021	537	6	8.5	11.7
4/20/2021	515	6	8.5	16.8
5/23/2021	537	3	8.5	23.6
6/22/2021	488	4	8	18.8
7/18/2021	418	3	8	21.6
8/22/2021	530	3	8	21.8
9/19/2021	526	3	8	18.2
10/19/2021	553	9	8	13.4
12/26/2021	494	8	8	7.3

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	418	3	8	2.5
Max	683	9	8.5	23.6
Median	526	6	8	16.8

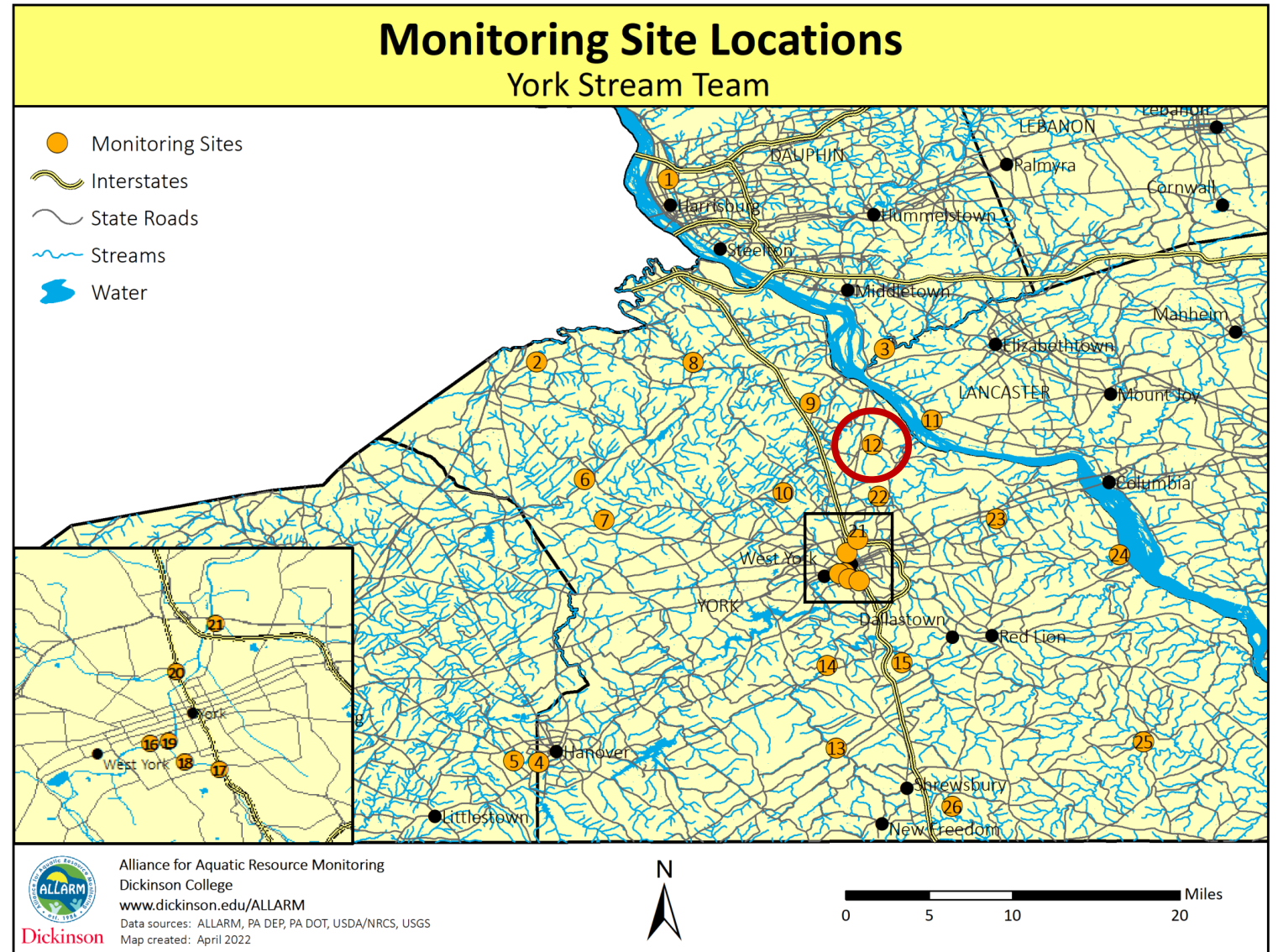
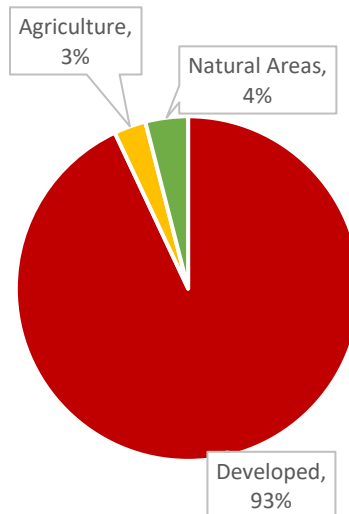
Hartman Run (HARRUN 8.92)

Monitor(s): Scott Seifert

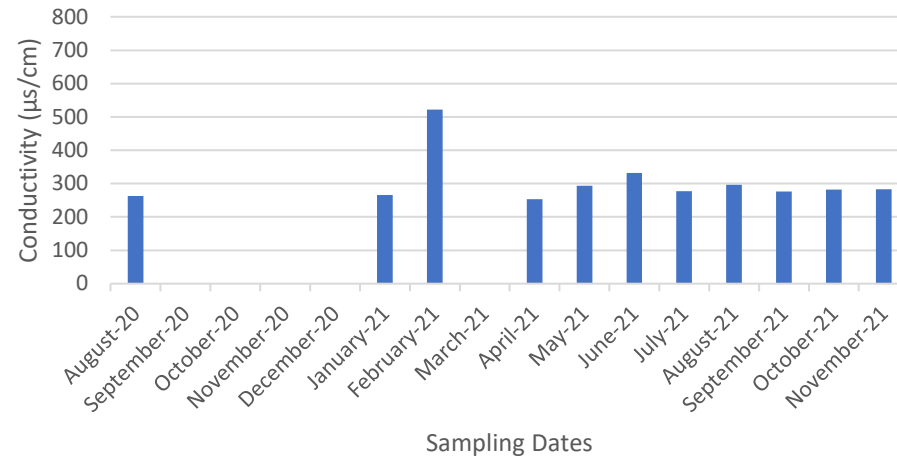
Site information:

- Drains 3 mi²
- Impaired: yes (aquatic life), urban runoff, habitat modification
- Designation: Warm Water Fishes
- Geology: non-carbonate (20%), carbonate (80%)

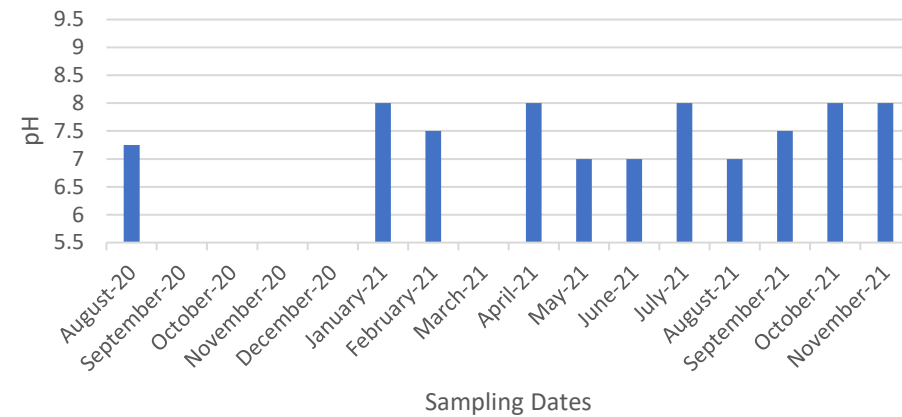
HARRUN 8.92
Land Use



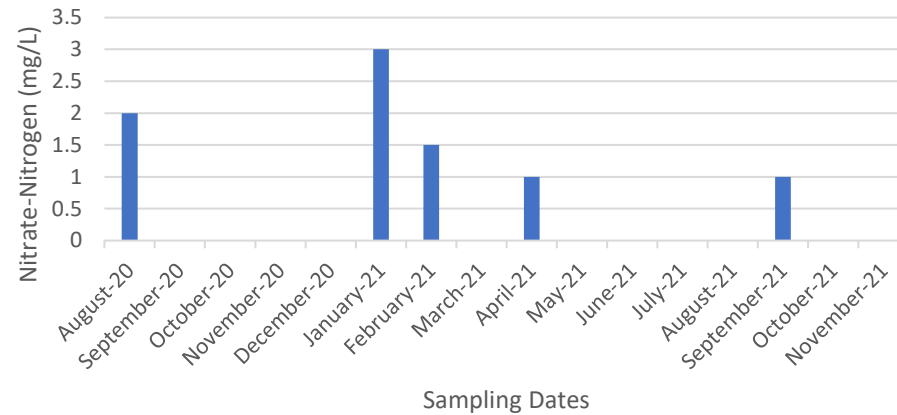
HARRUN8.92 - Conductivity



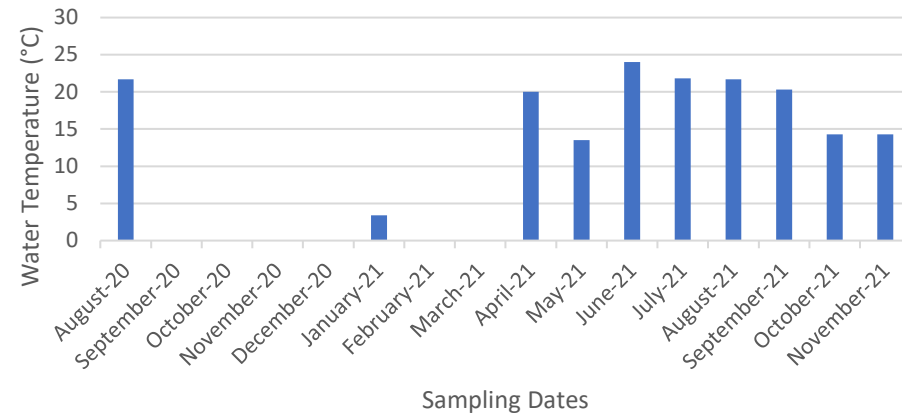
HARRUN8.92 -pH



HARRUN8.92- Nitrate Nitrogen



HARRUN8.92- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
8/20/2020	263	2	7.25	21.7
1/24/2021	266	3	8	3.4
2/21/2021	522	1.5	7.5	0
4/18/2021	253	1	8	20
5/16/2021	294	0	7	13.5
6/27/2021	332	0	7	24
7/18/2021	277	0	8	21.8
8/22/2021	296	0	7	21.7
9/20/2021	276	1	7.5	20.3
10/24/2021	282	0	8	14.3
11/21/2021	283	0	8	14.3

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	253	0	7	0
Max	522	3	8	24
Median	282	0	7.5	20

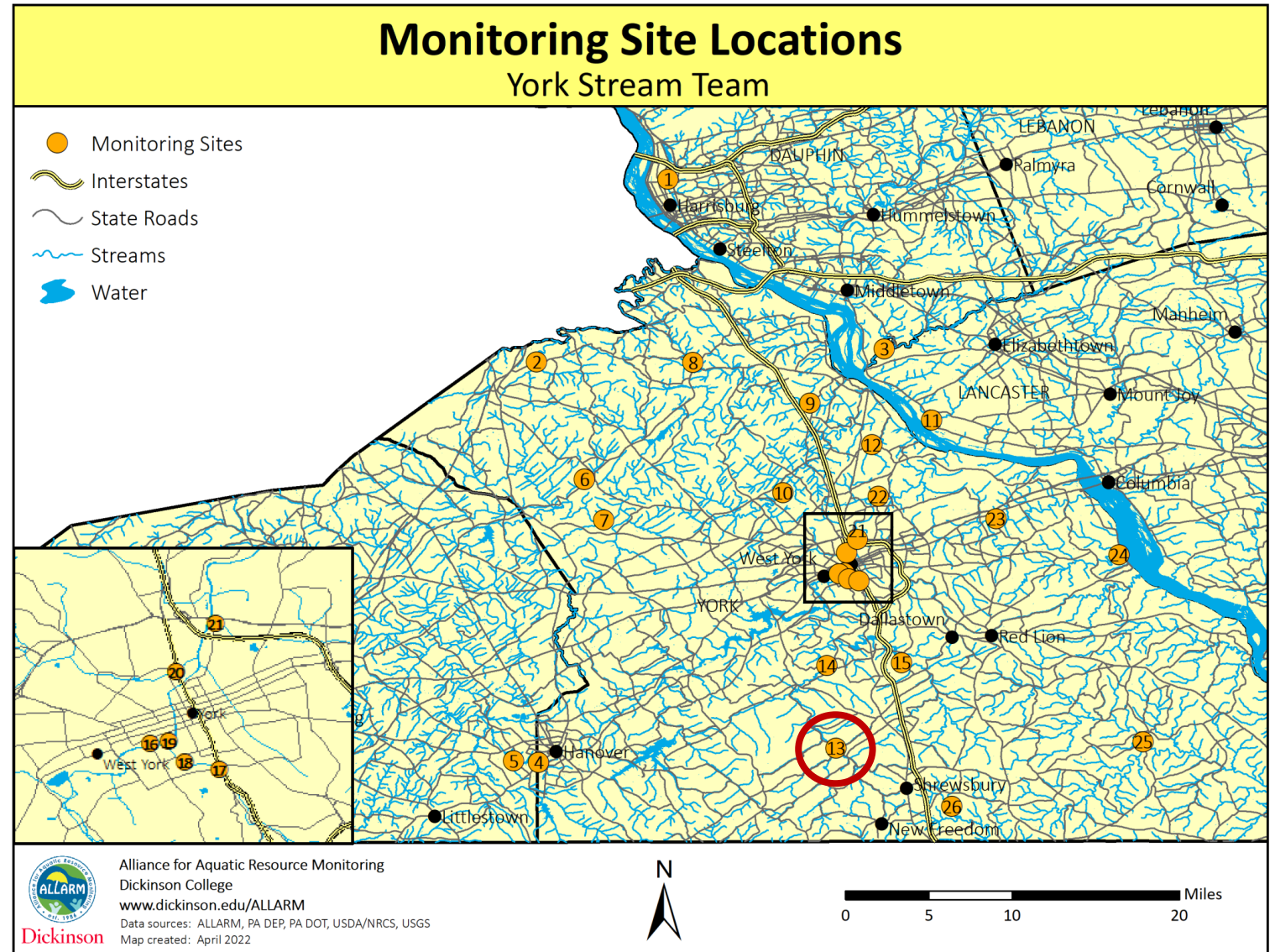
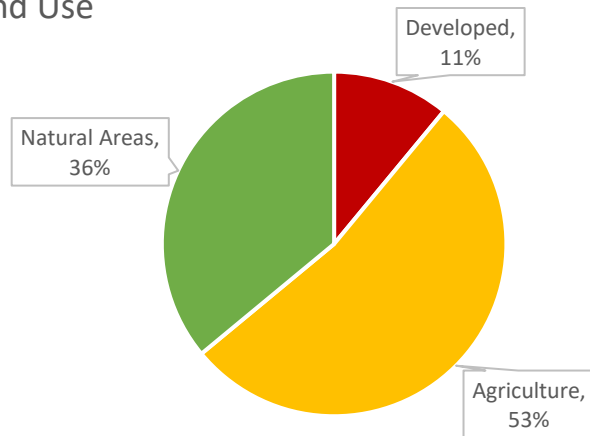
Centerville Creek (CENCRE 0.07)

Monitor(s): Mark Noll

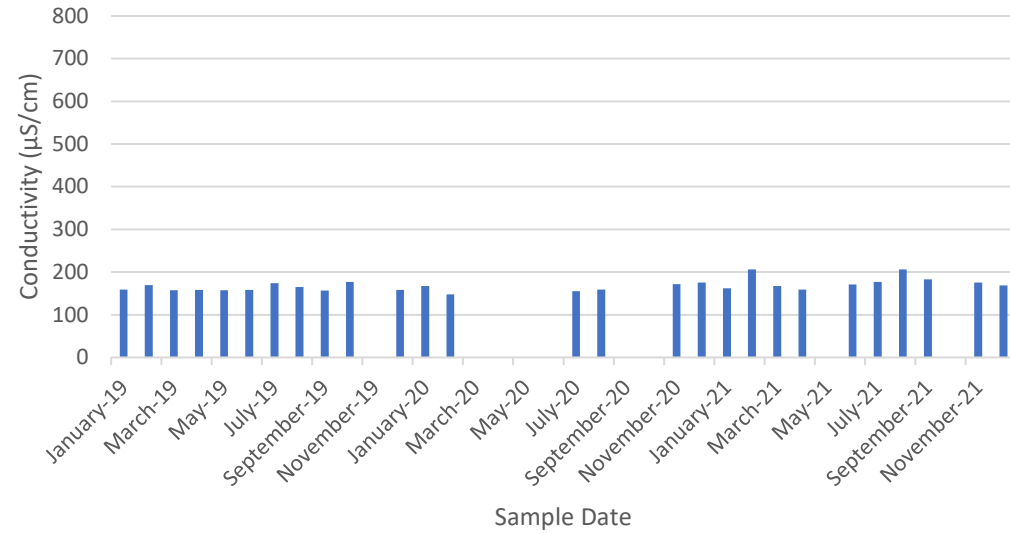
Site information:

- Drains 15 mi²
- Impaired: yes (recreational), pathogens
- Designation: Warm Water Fishes
- Geology: non-carbonate (100%)

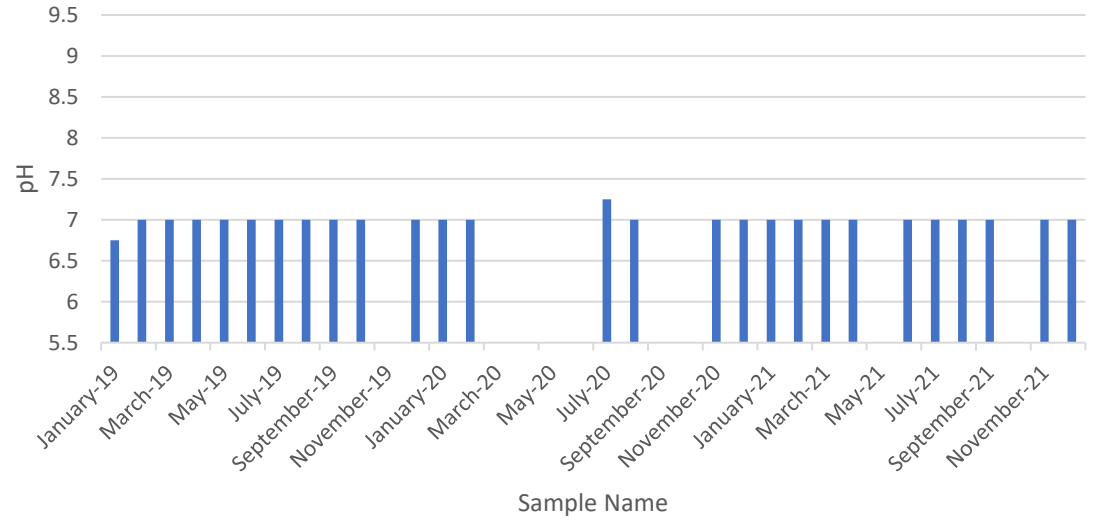
CENCRE 0.07 Land Use



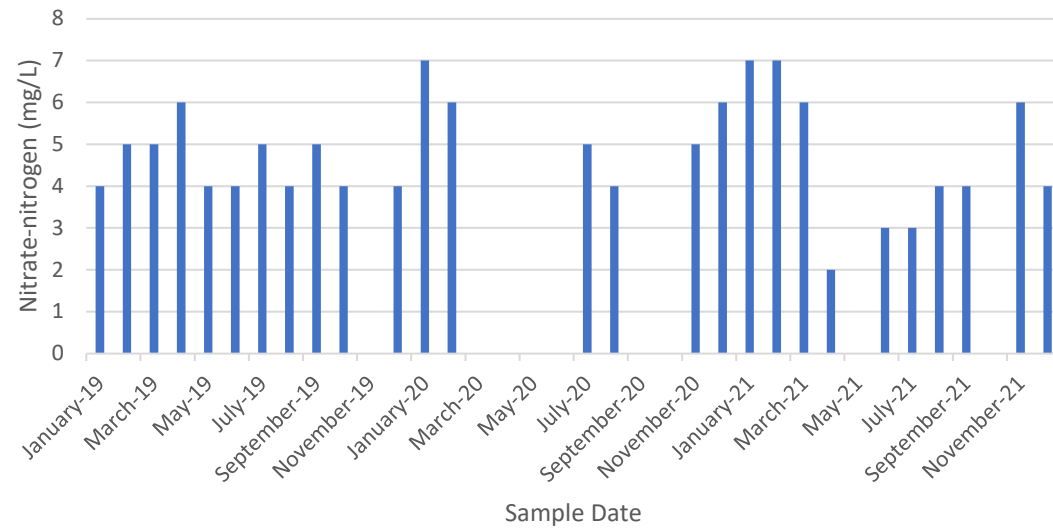
CENCRE 0.07 - Conductivity



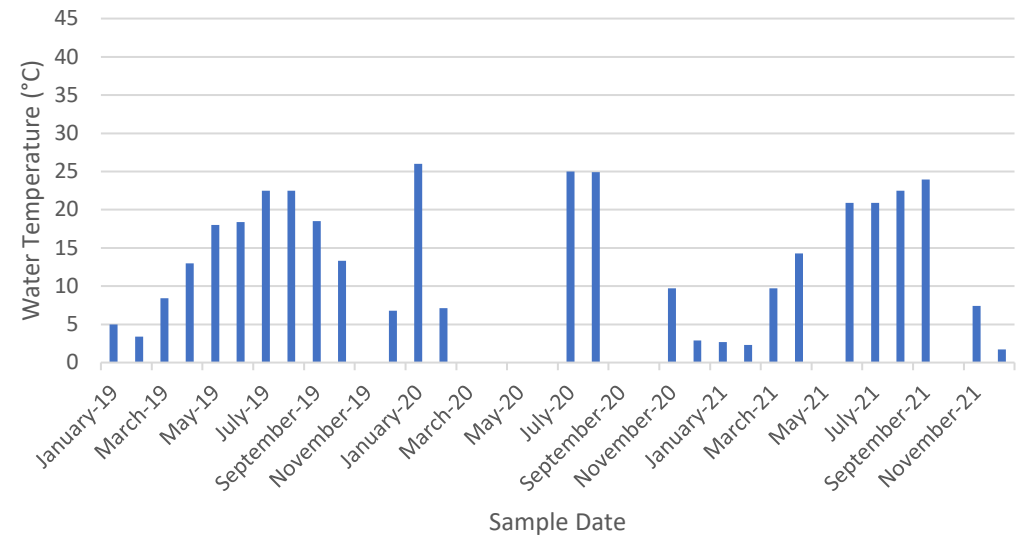
CENCRE 0.07 - pH



CENCRE 0.07 - Nitrate-Nitrogen



CENCRE 0.07 - Water Temperature



Raw Data

Date	Date	Conductivity	Nitrate-nitrogen	pH
1/27/2019	159.2	4	6.75	5
2/18/2019	169.4	5	7	3.4
3/18/2019	157.4	5	7	8.4
4/22/2019	158.6	6	7	13
5/21/2019	157.2	4	7	18
6/17/2019	158.4	4	7	18.4
7/21/2019	174	5	7	22.5
8/19/2019	165.2	4	7	22.5
9/22/2019	156.5	5	7	18.5
10/20/2019	177.3	4	7	13.3
12/15/2019	158.6	4	7	6.8
1/20/2020	167.1	7	7	26
2/17/2020	148.1	6	7	7.1
7/21/2020	155.65	5	7.25	25
8/24/2020	158.9	4	7	24.9
11/22/2020	172	5	7	9.7
12/20/2020	175.6	6	7	2.9
1/25/2021	162.25	7	7	2.7
2/20/2021	206	7	7	2.3
3/22/2021	167.5	6	7	9.7
4/26/2021	159	2	7	14.3
6/19/2021	171.4	3	7	20.9
7/19/2021	177.2	3	7	20.9
8/23/2021	206	4	7	22.5
9/19/2021	183.05	4	7	24.0
11/22/2021	175.35	6	7	7.4
12/20/2021	168.5	4	7	1.7

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	148.1	2	6.75	1.7
Max	206	7	7.25	26
Median	167.1	5	7	13.3

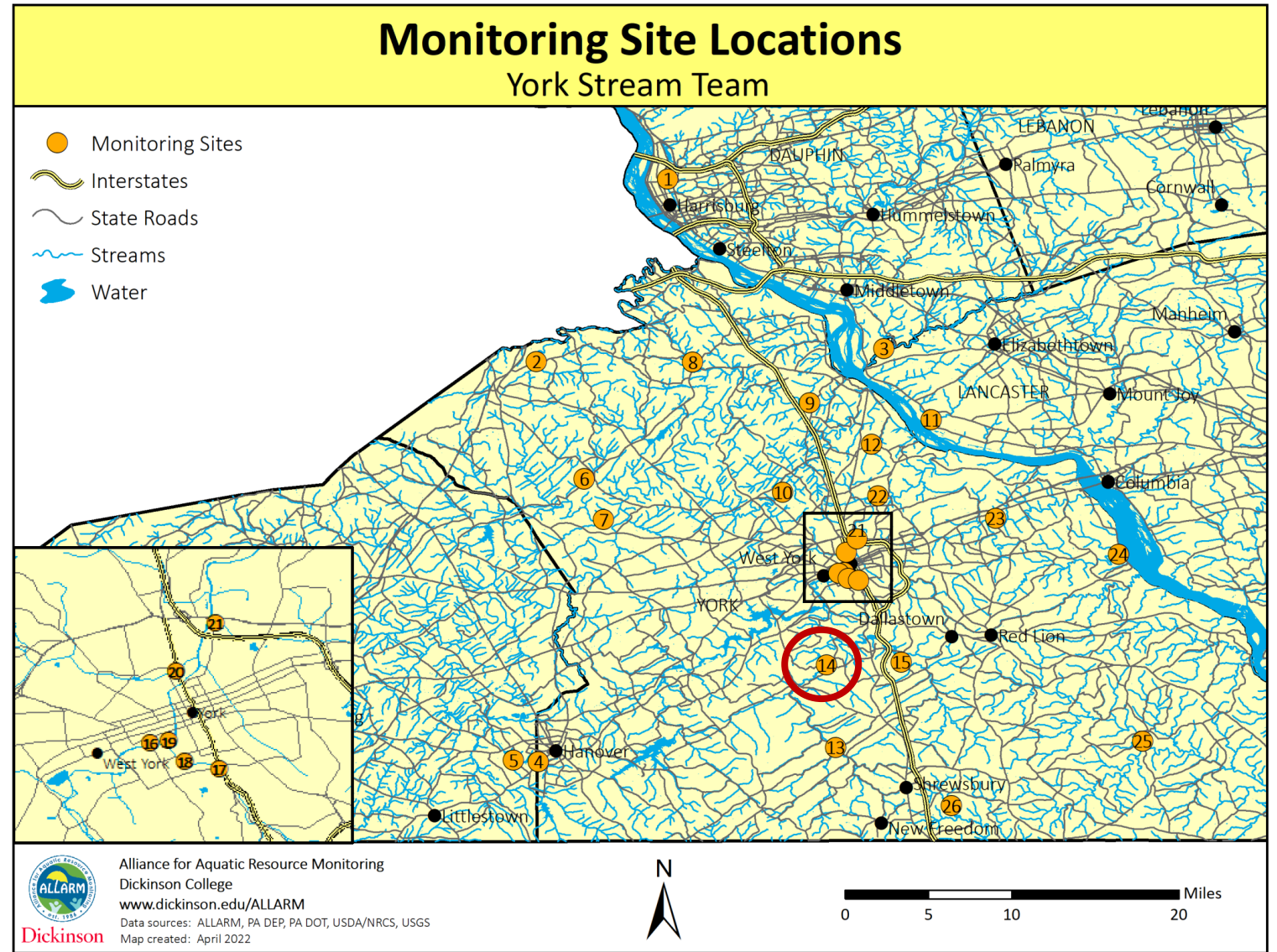
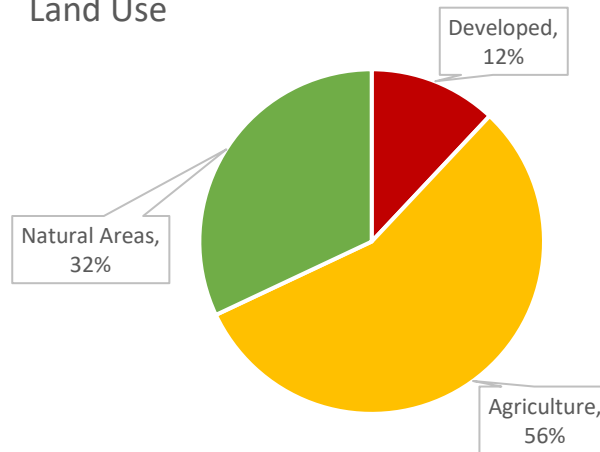
South Branch Codorus Creek (SOUBRACODCRE 23.11)

Monitor(s): Sue & Rob Rothermel

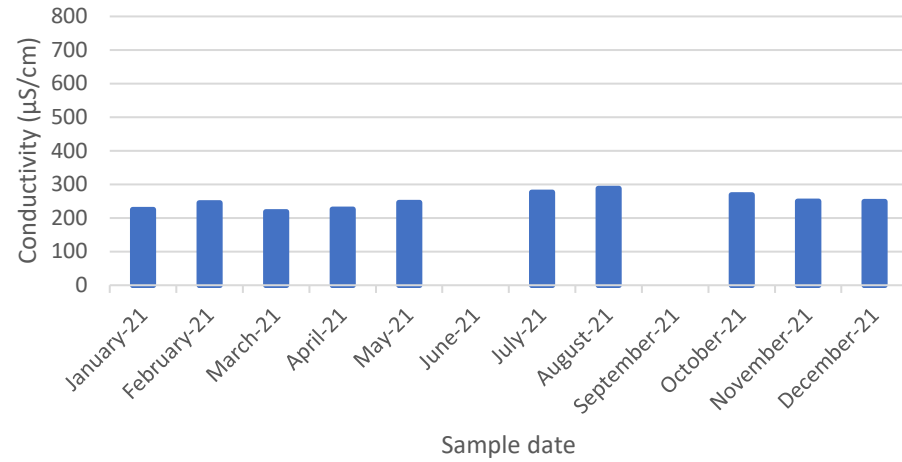
Site information:

- Drains 25 mi²
- Impaired: yes (recreational), Pathogens
- Designation: Warm Water Fishes
- Geology: non-carbonate (100%)

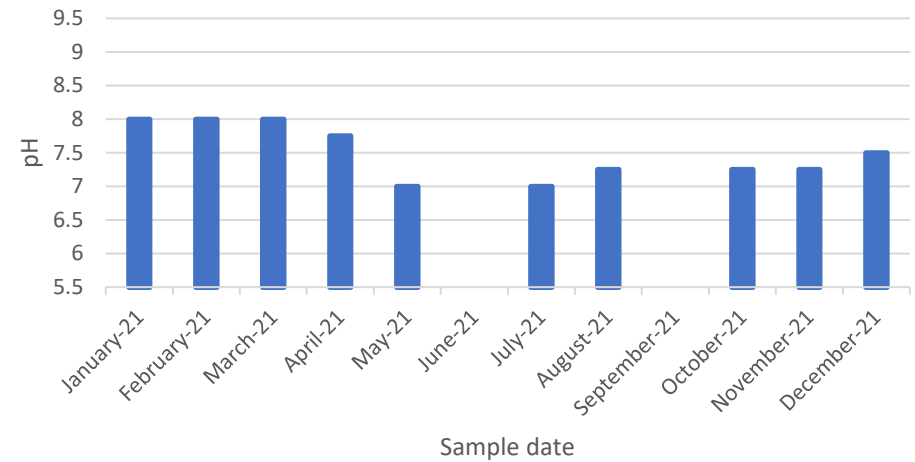
SOUBRACODCRE 23.11 Land Use



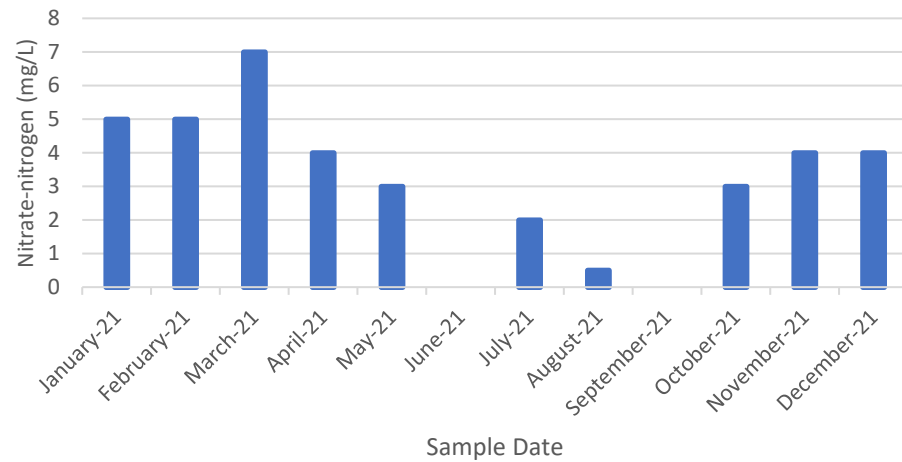
SOUBRACODCRE23.11 - Conductivity



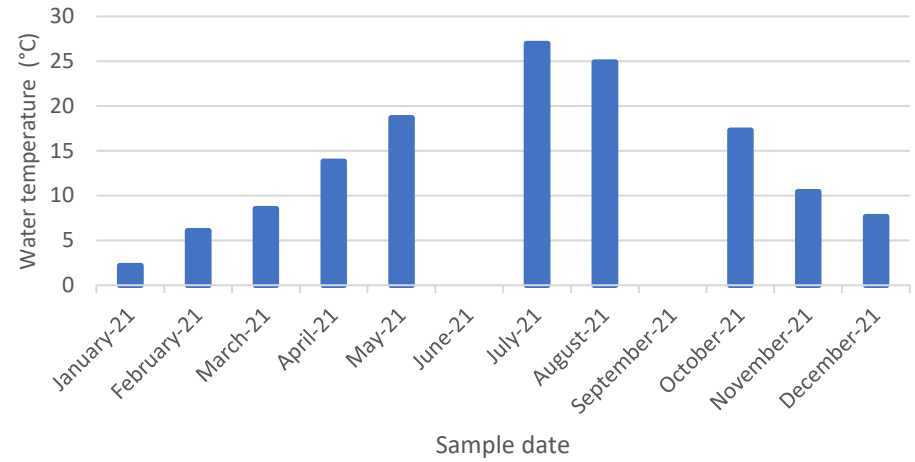
SOUBRACODCRE23.11 - pH



YELBRECRE17.65 - Nitrate-nitrogen



SOUBRACODCRE23.11 - Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/24/2021	225	5	8	2.2
2/26/2021	245	5	8	6.1
3/18/2021	219	7	8	8.55
4/25/2021	226	4	7.75	13.85
5/31/2021	246	3	7	18.7
7/17/2021	277	2	7	27
8/25/2021	288	0.5	7.25	24.9
10/22/2021	269	3	7.25	17.3
11/21/2021	250	4	7.25	10.45
12/19/2021	249	4	7.5	7.65

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	219	0.5	7	2.2
Max	288	7	8	27
Median	248	4	7.5	12.2

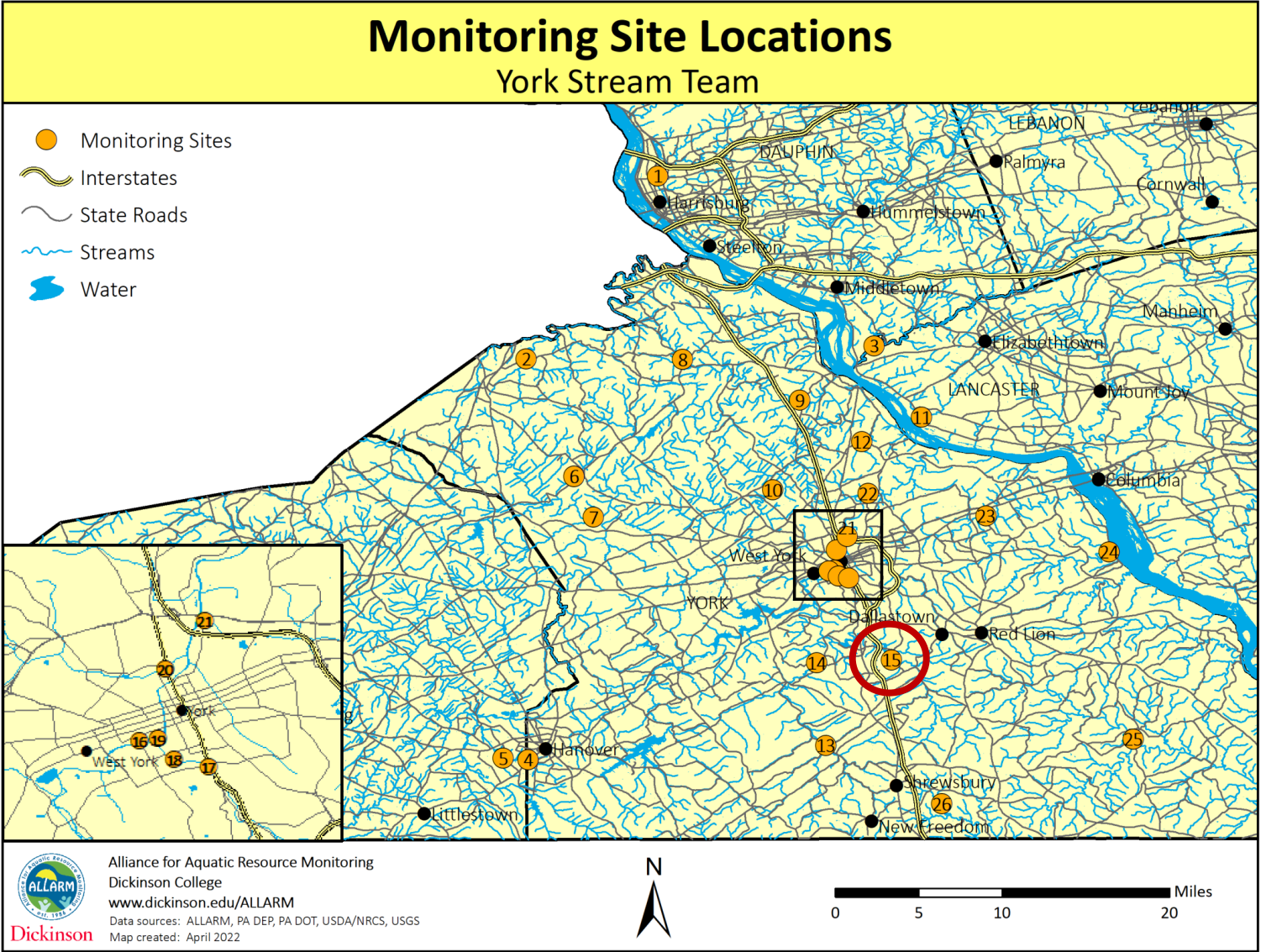
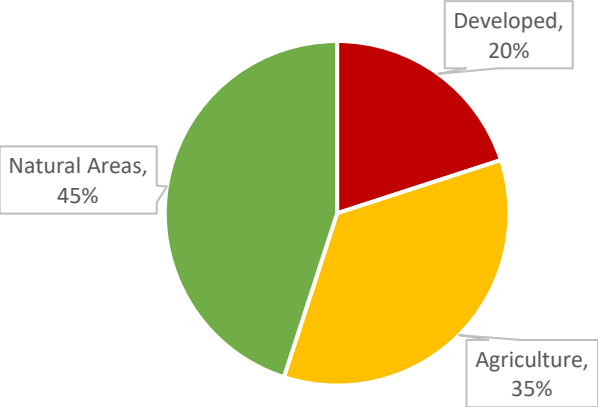
East Branch Codorus Creek (EASBRACODCRE 24.60)

Monitor(s): Jyme Schafer

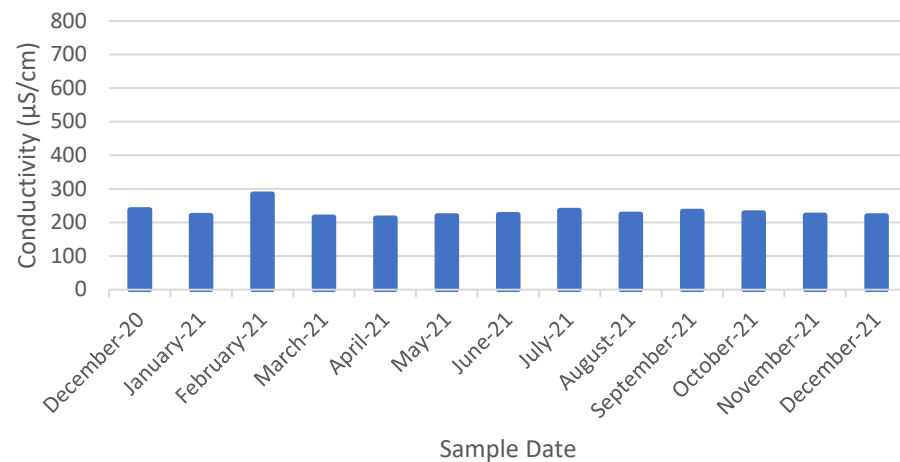
Site information:

- Drains 11 mi²
- Impaired: yes (aquatic life), siltation, flow regime modification
- Designation: Cold Water Fishes
- Geology: non-carbonate (100%)

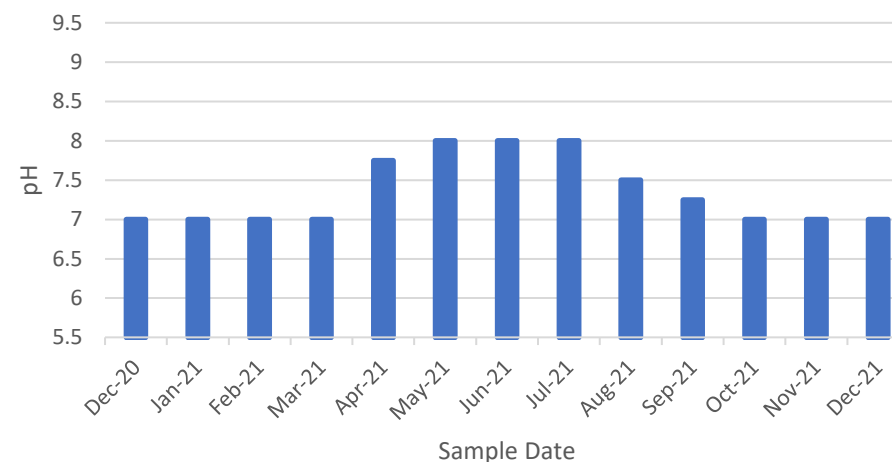
EASBRACODCRE 24.60
Land Use



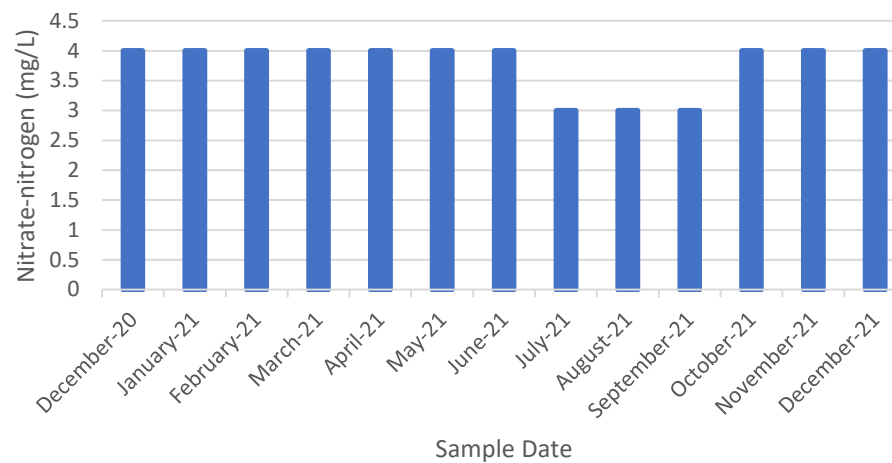
EASBRACODCRE24.60 -- Conductivity



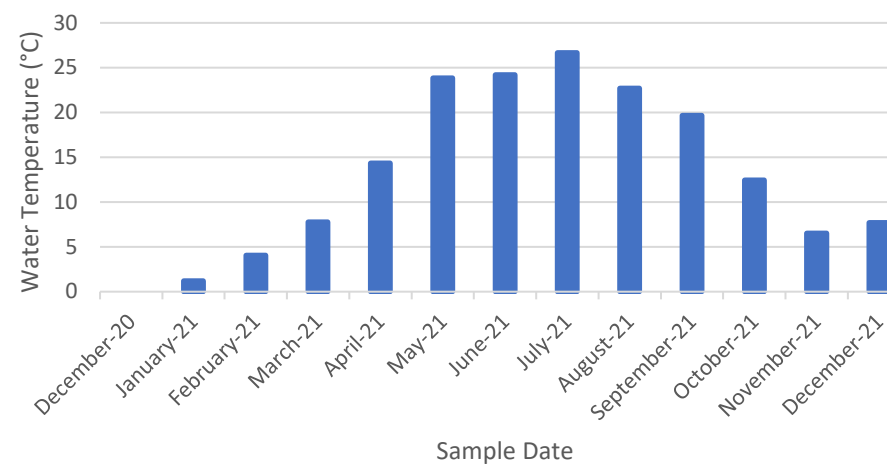
EASBRACODCRE24.60 -- pH



EASBRACODCRE24.60 --Nitrate-nitrogen



EASBRACODCRE24.60 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/19/2020	238	4	7	
1/24/2021	220	4	7	1.2
2/20/2021	284	4	7	4.1
3/21/2021	216	4	7	7.8
4/18/2021	213	4	7.75	14.4
5/23/2021	219	4	8	23.9
6/20/2021	223	4	8	24.2
7/17/2021	236	3	8	26.7
8/22/2021	224	3	7.5	22.7
9/19/2021	233	3	7.25	19.7
10/24/2021	228	4	7	12.5
11/20/2021	221	4	7	6.5
12/19/2021	219	4	7	7.7

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	213	3	7	1.2
Max	284	4	8	26.7
Median	223	4	7	13.4

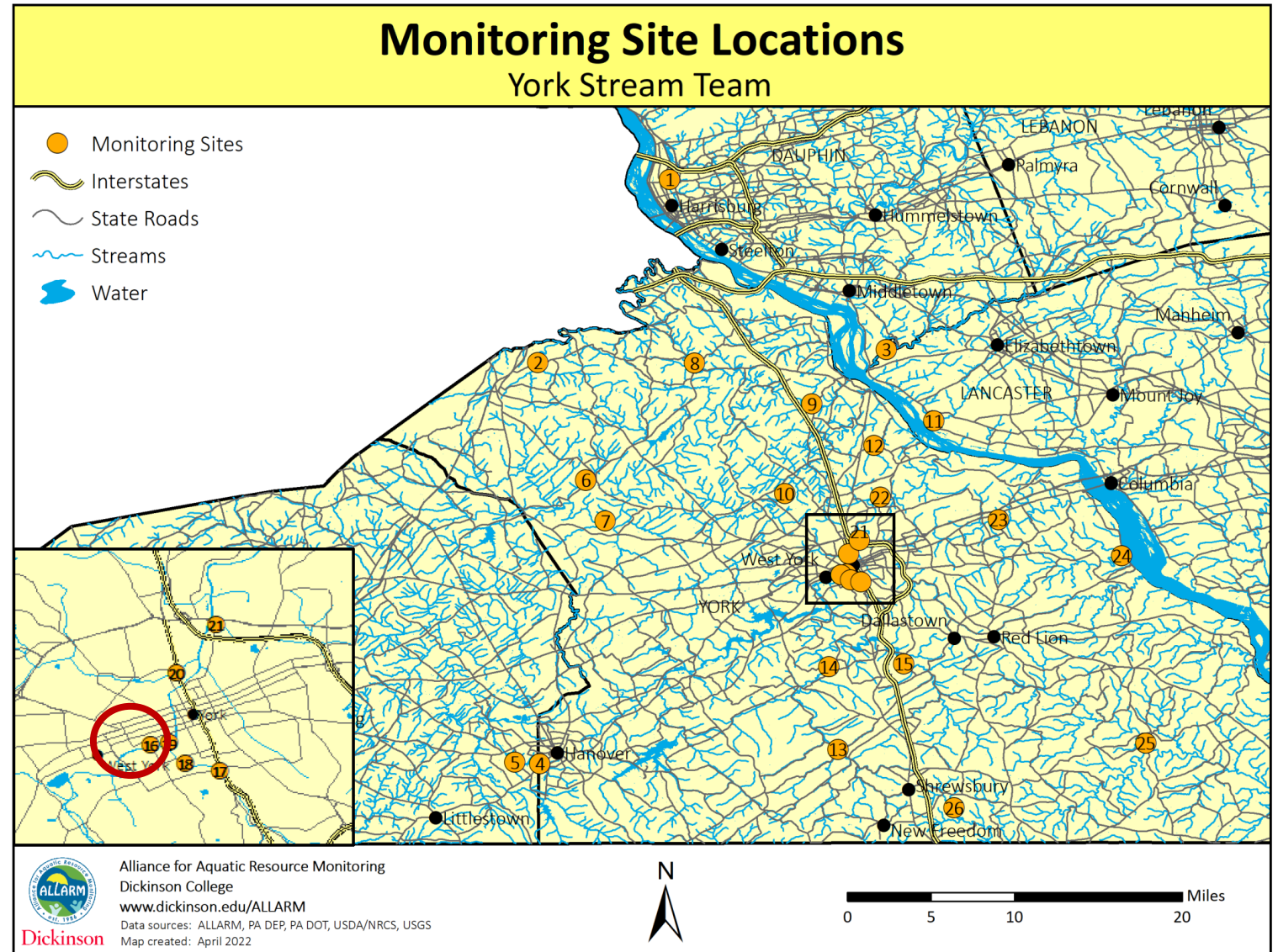
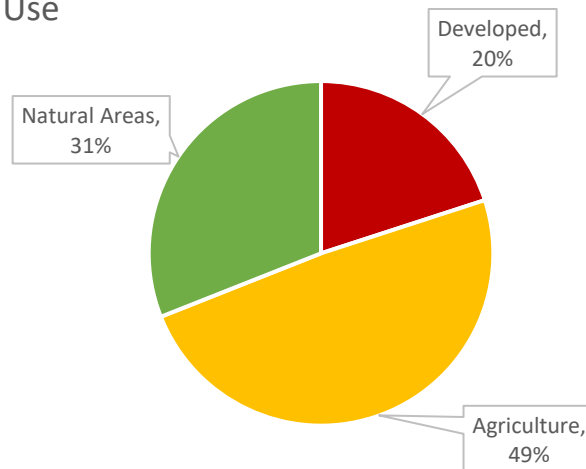
Codorus Creek 1 (CODCRE 12.39)

Monitor(s): Josh Wyrick, Alison Kennicutt (YCP)

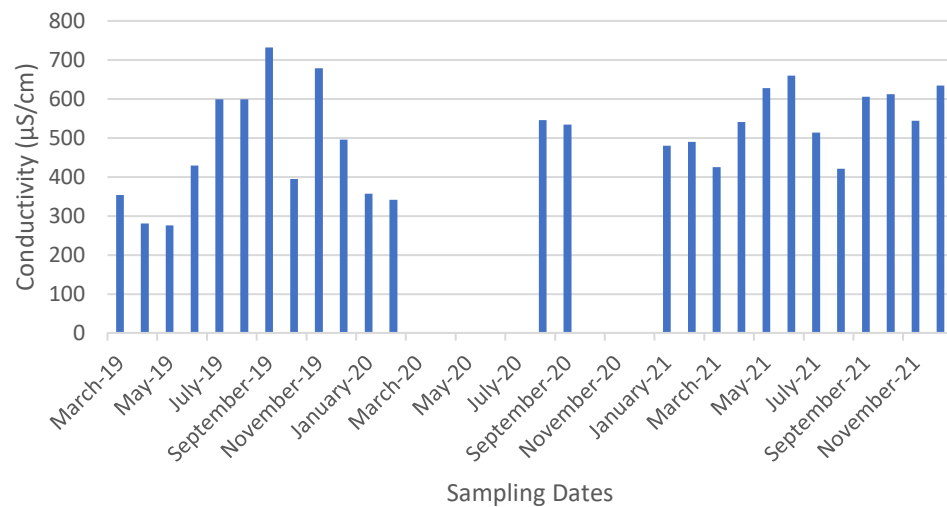
Site information:

- Drains 223 mi²
- Impaired: yes (aquatic life), urban runoff (Flow regime change, siltation) and channelization
- Designation: Warm Water Fishes
- Geology: non-carbonate (87%), carbonate (13%)

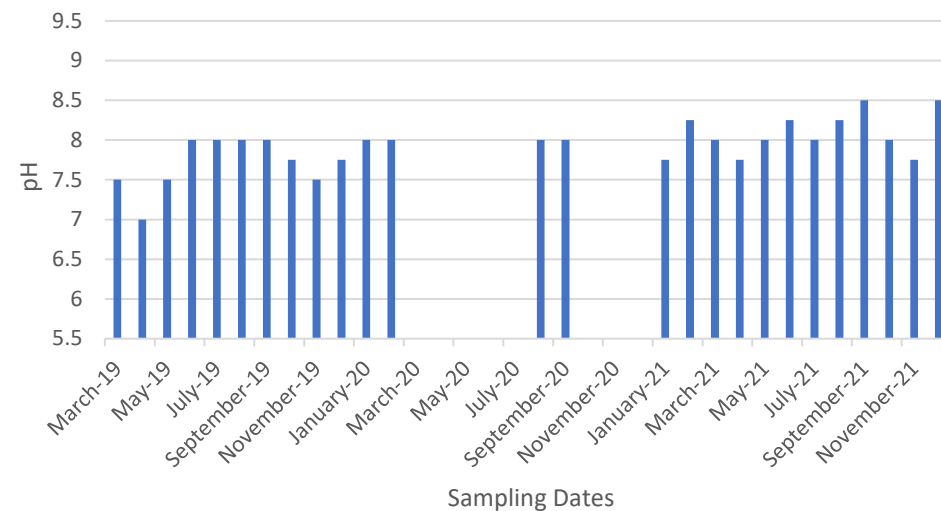
CODCRE 12.39 Land Use



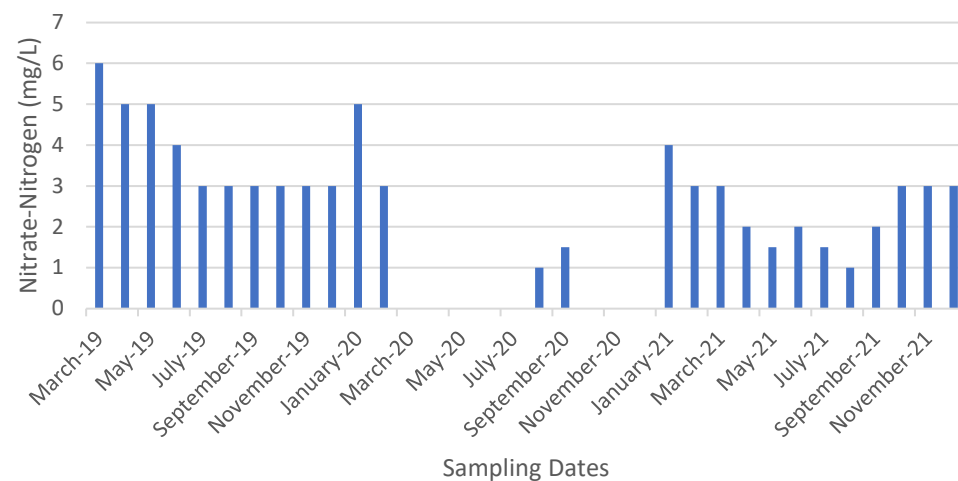
CODCRE 12.39 -- Conductivity



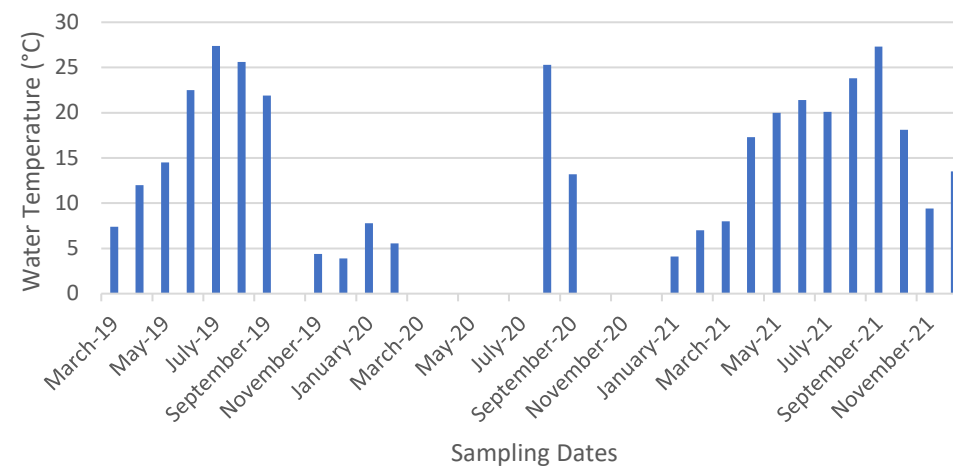
CODCRE 12.39 -- pH



CODCRE 12.39 -- Nitrate-Nitrogen



CODCRE 12.39 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
3/18/2019	354	6	7.5	7.4
4/16/2019	281	5	7	12
5/15/2019	276	5	7.5	14.5
6/17/2019	429	4	8	22.5
7/15/2019	599	3	8	27.4
8/14/2019	599	3	8	25.6
9/16/2019	732	3	8	21.9
10/15/2019	395	3	7.75	
11/14/2019	679	3	7.5	4.4
12/16/2019	496	3	7.75	3.9
1/15/2020	357	5	8	7.8
2/14/2020	342	3	8	5.6
8/24/2020	546	1	8	25.3
9/21/2020	534	1.5	8	13.2
1/15/2021	480	4	7.75	4.1
2/25/2021	490	3	8.25	7
3/19/2021	425	3	8	8
4/20/2021	541	2	7.75	17.3
5/21/2021	628	1.5	8	20
6/18/2021	660	2	8.25	21.4
7/19/2021	514	1.5	8	20.1
8/23/2021	422	1	8.25	23.8
9/17/2021	606	2	8.5	27.3
10/25/2021	612	3	8	18.1
11/19/2021	544	3	7.75	9.4
12/16/2021	634	3	8.5	13.5

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	276	1	7	3.9
Max	732	6	8.5	27.4
Median	524	3	8	14.5

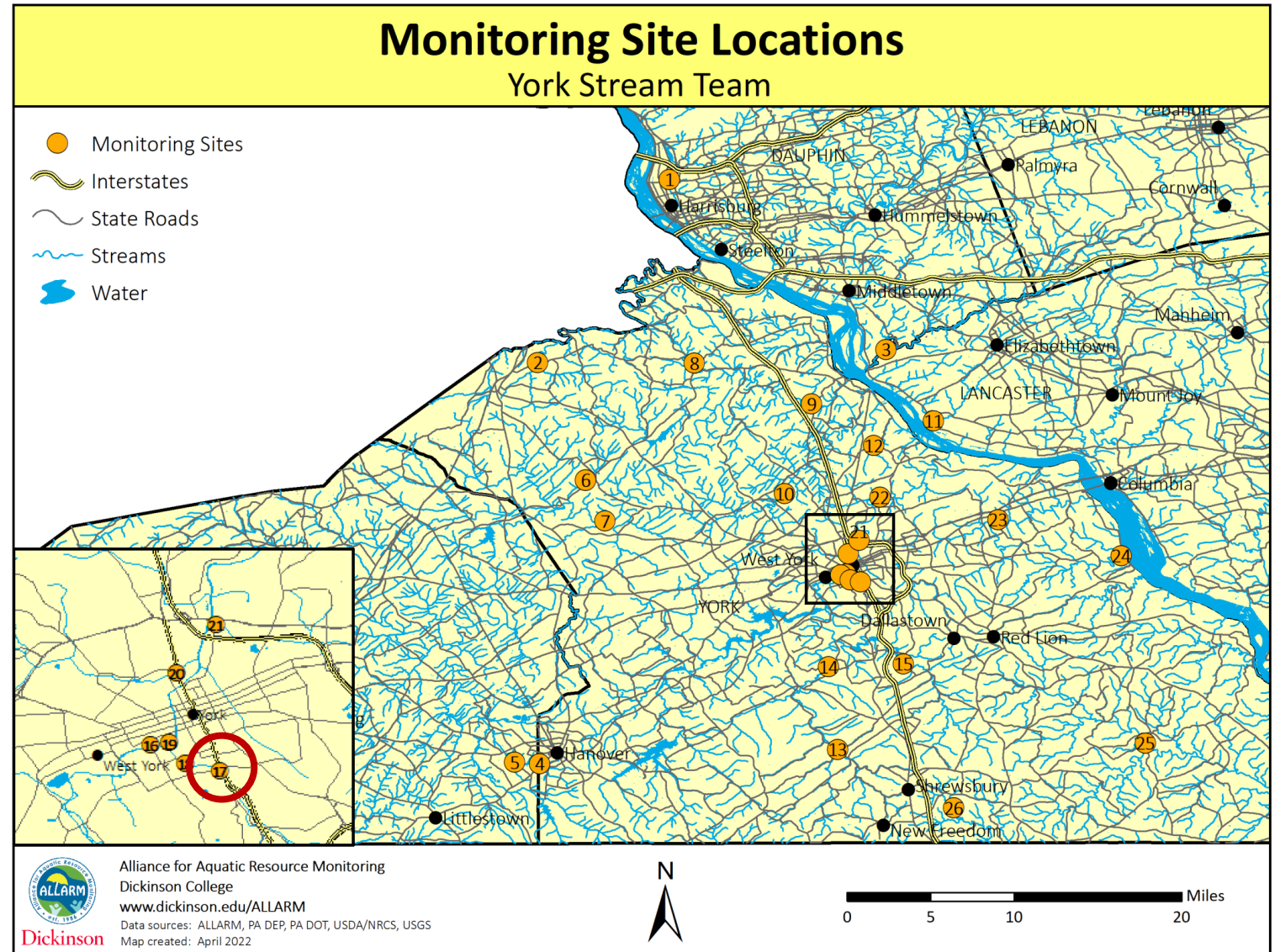
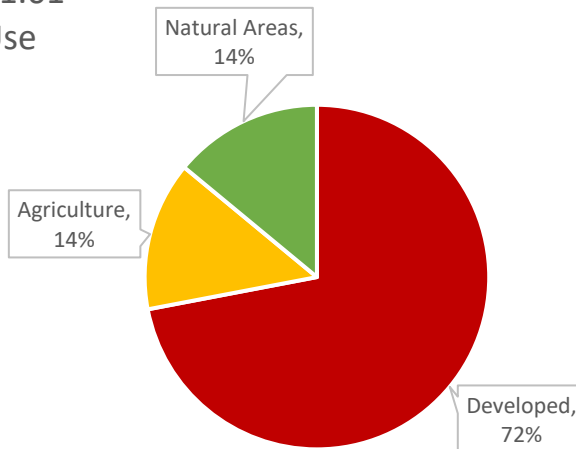
Tyler Run 1 (TYLRUN 1.01)

Monitor(s): Retired (was Bridgette Hagerty, Jessica Nolan (YCP))

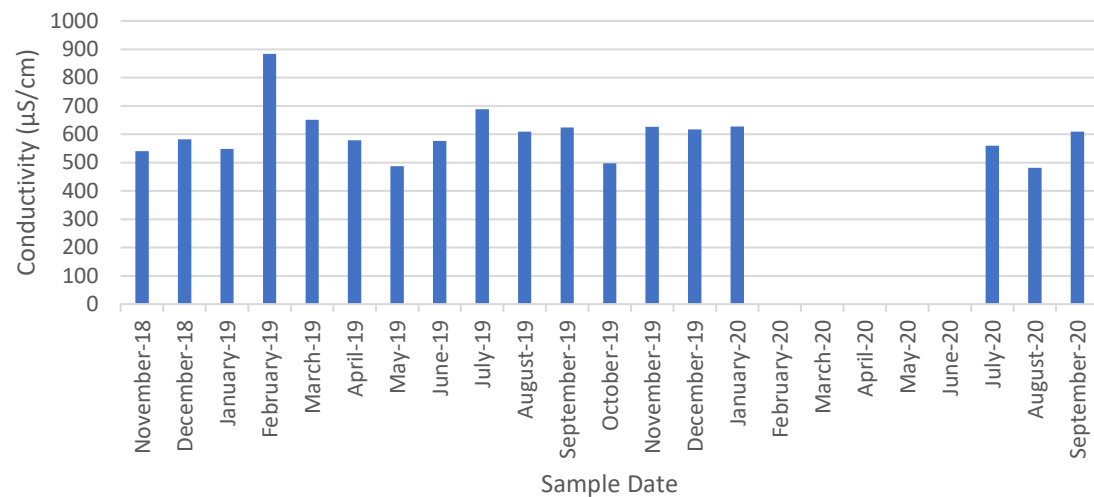
Site information:

- Drains 4 mi²
- Impaired: yes (aquatic life), urban runoff (flow regime modification)
- Designation: Warm Water Fishes
- Geology: non-carbonate (100%)

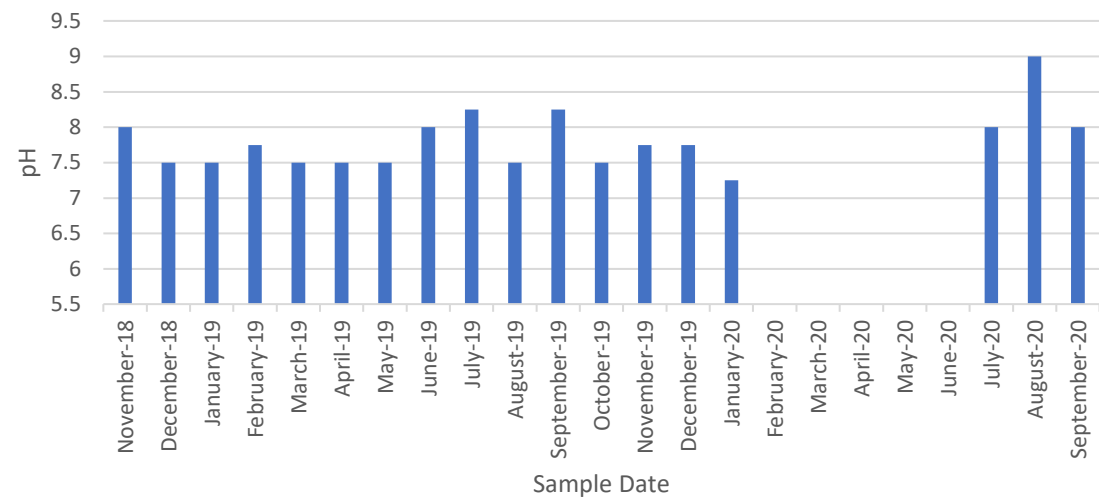
TYLRUN 1.01
Land Use



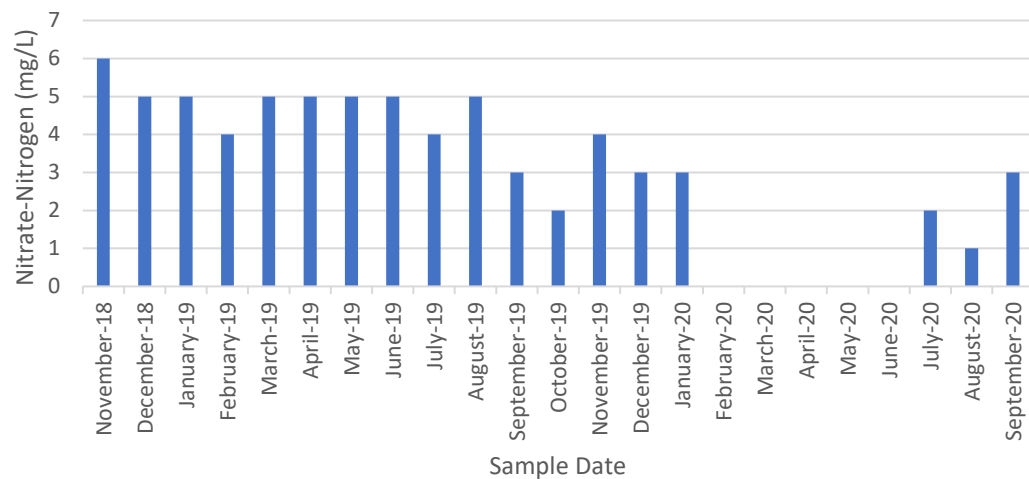
TYLRUN1.01 - Conductivity



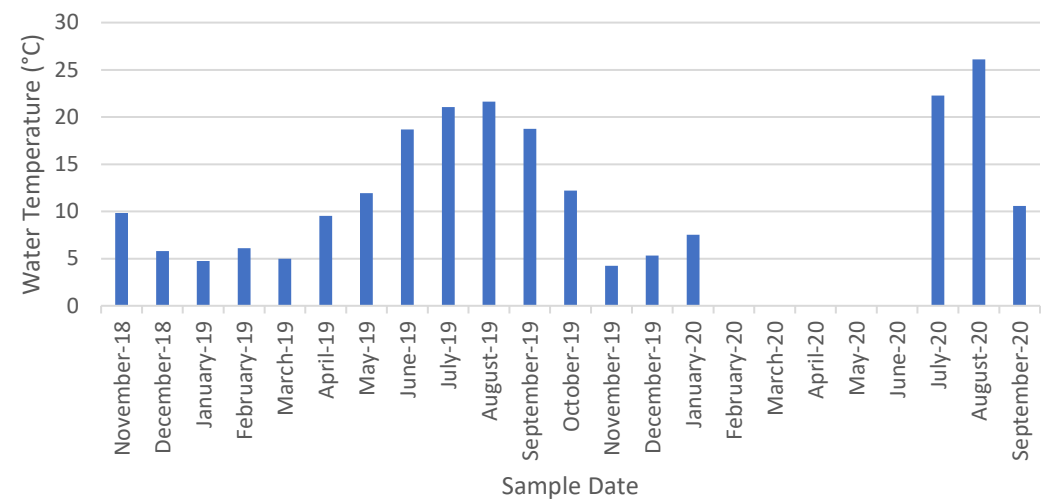
TYLRUN1.01 - pH



TYLRUN1.01 - Nitrate-Nitrogen



TYLRUN1.01 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
11/20/2018	541	6	8	9.8
12/13/2018	582	5	7.5	5.8
1/17/2019	549	5	7.5	4.8
2/15/2019	884	4	7.75	6.1
3/19/2019	651	5	7.5	5
4/16/2019	579	5	7.5	9.6
5/15/2019	487	5	7.5	12.0
6/17/2019	577	5	8	18.7
7/15/2019	689	4	8.25	21.1
8/16/2019	610	5	7.5	21.7
9/17/2019	624	3	8.25	18.8
10/17/2019	498	2	7.5	12.2
11/14/2019	627	4	7.75	4.3
12/16/2019	618	3	7.75	5.4
1/16/2020	628	3	7.25	7.6
7/17/2020	560	2	8	22.3
8/24/2020	482	1	9	26.1
9/21/2020	609	3	8	10.6

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	482	1	7.25	4.3
Max	884	6	9	26.1
Median	596	4	7.75	10.2

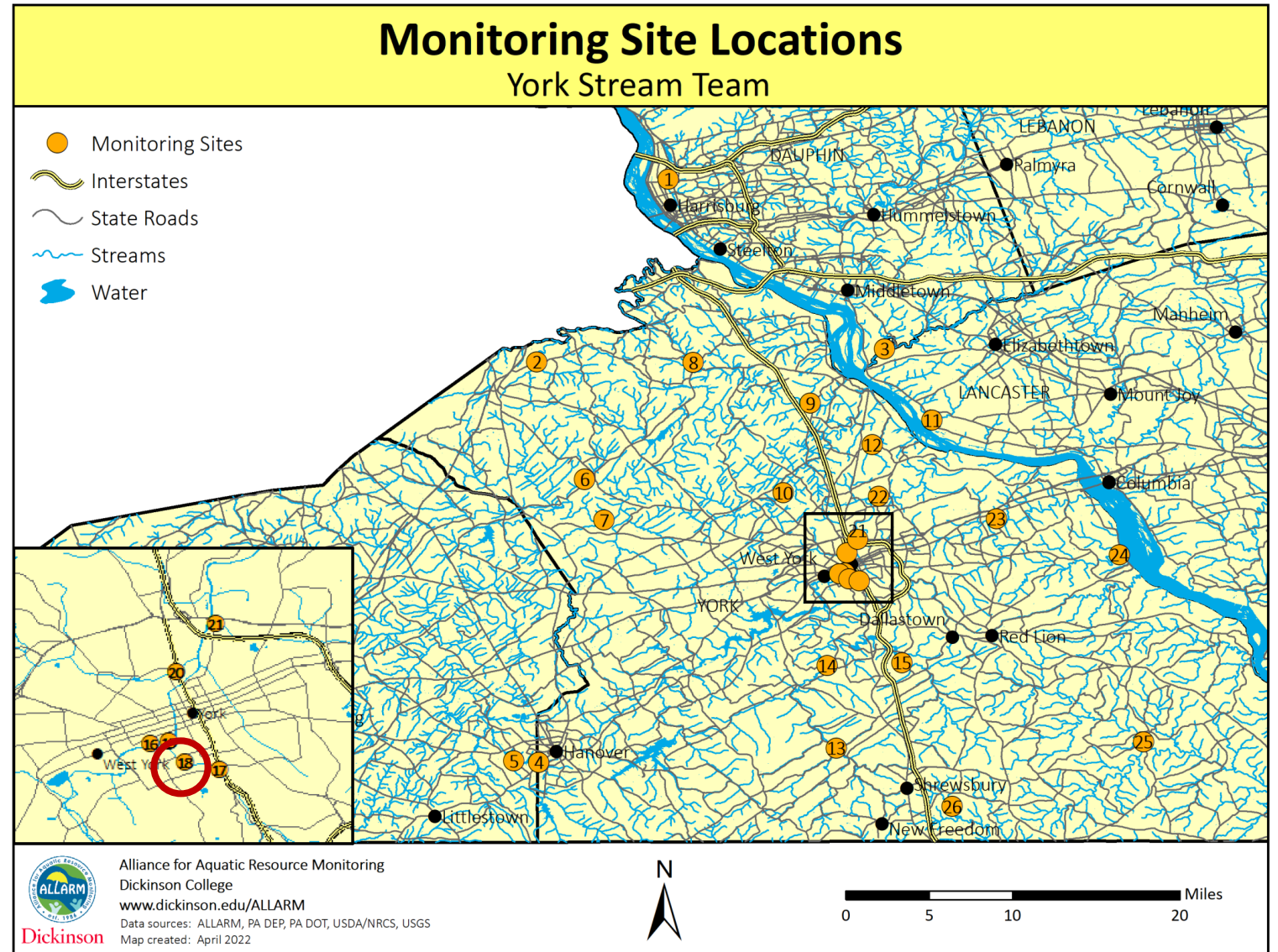
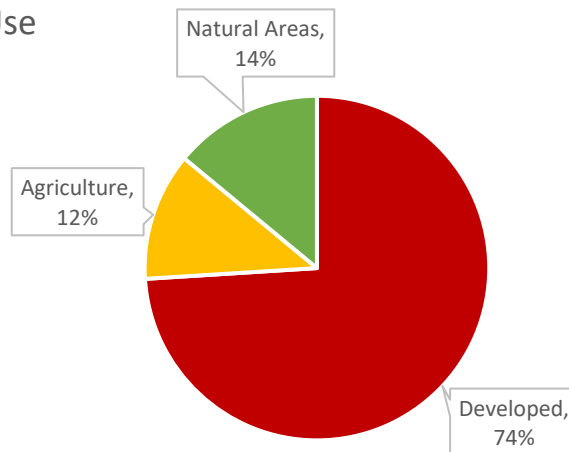
Tyler Run 2 (TYLRUN 0.50)

Monitor(s): Bridgette Hagerty, Jessica Nolan (YCP)

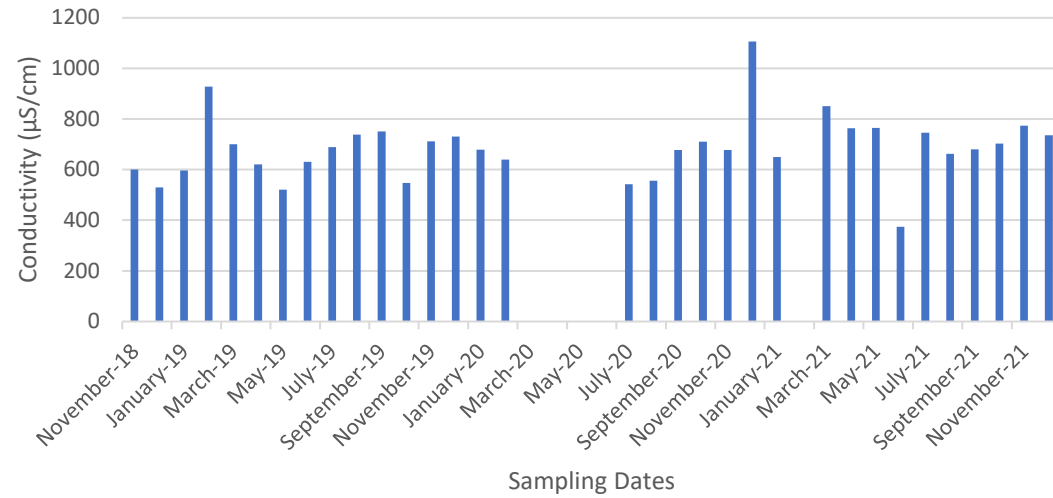
Site information:

- Drains 5 mi²
- Impaired: yes (aquatic life), urban runoff (flow regime modification)
- Designation: Warm Water Fishes
- Geology: non-carbonate (47%), carbonate (53%)

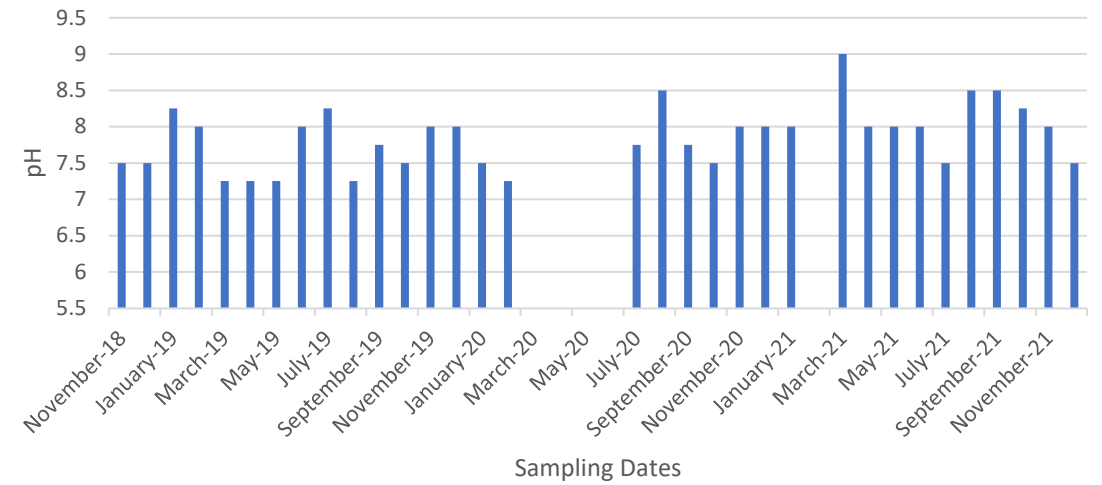
TYLRUN 0.50 Land Use



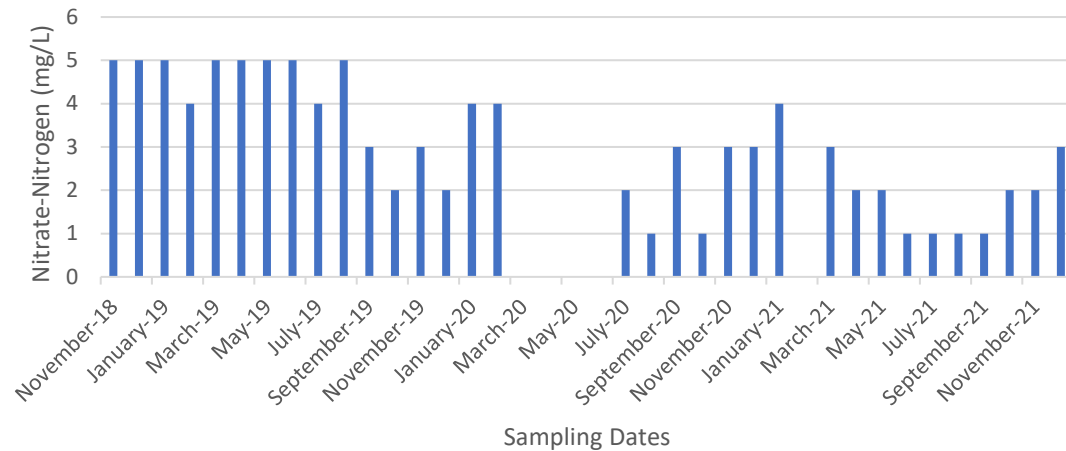
TYLRUN 0.50 - Conductivity



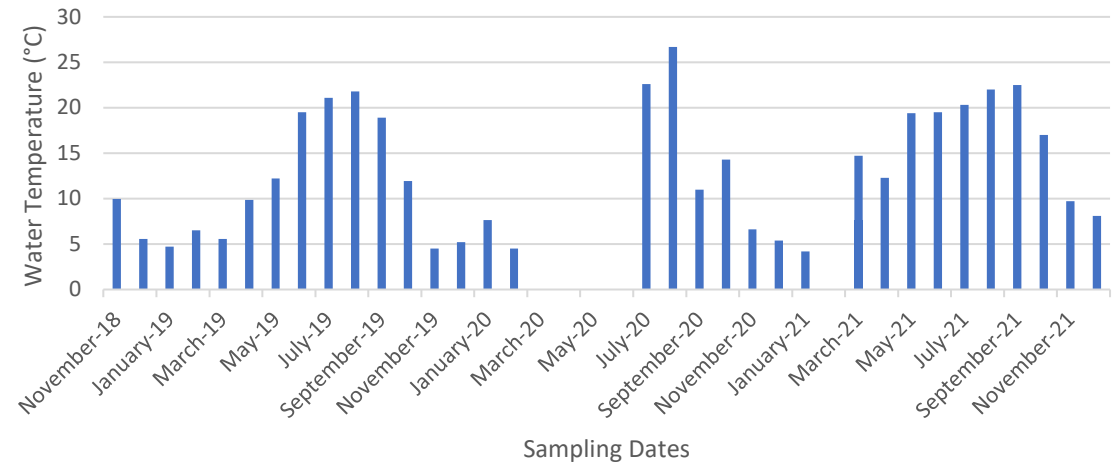
TYLRUN 0.50 - pH



TYLRUN 0.50 - Nitrate-Nitrogen



TYLERUN 0.50 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
11/20/2018	600	5	7.5	10.0
12/13/2018	529	5	7.5	5.6
1/17/2019	597	5	8.25	4.7
2/15/2019	928	4	8	6.5
3/19/2019	700	5	7.25	5.6
4/16/2019	621	5	7.25	9.9
5/15/2019	520	5	7.25	12.2
6/17/2019	630	5	8	19.5
7/15/2019	689	4	8.25	21.1
8/20/2019	738	5	7.25	21.8
9/17/2019	751	3	7.75	18.9
10/17/2019	547	2	7.5	12.0
11/14/2019	711	3	8	4.5
12/16/2019	731	2	8	5.2
1/16/2020	678	4	7.5	7.7
2/17/2020	640	4	7.25	4.5
7/17/2020	542	2	7.75	22.6
8/24/2020	556	1	8.5	26.7
9/21/2020	677	3	7.75	11
10/20/2020	710	1	7.5	14.3
11/20/2020	677	3	8	6.6
12/21/2020	1106	3	8	5.4
1/22/2021	649	4	8	4.2
3/1/2021	850	2	8	7.6
3/22/2021	780	3	9	14.7
4/16/2021	763	2	8	12.3
5/20/2021	765	2	8	19.4
6/22/2021	374	1	8	19.5
7/19/2021	745	1	7.5	20.3
8/20/2021	662	1	8.5	22
9/17/2021	680	1	8.5	22.5
10/22/2021	703	2	8.25	17
11/19/2021	773	2	8	9.7
12/16/2021	735	3	7.5	8.1

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	374	1	7.25	4.2
Max	1106	5	9	26.7
Median	685	3	8	11.5

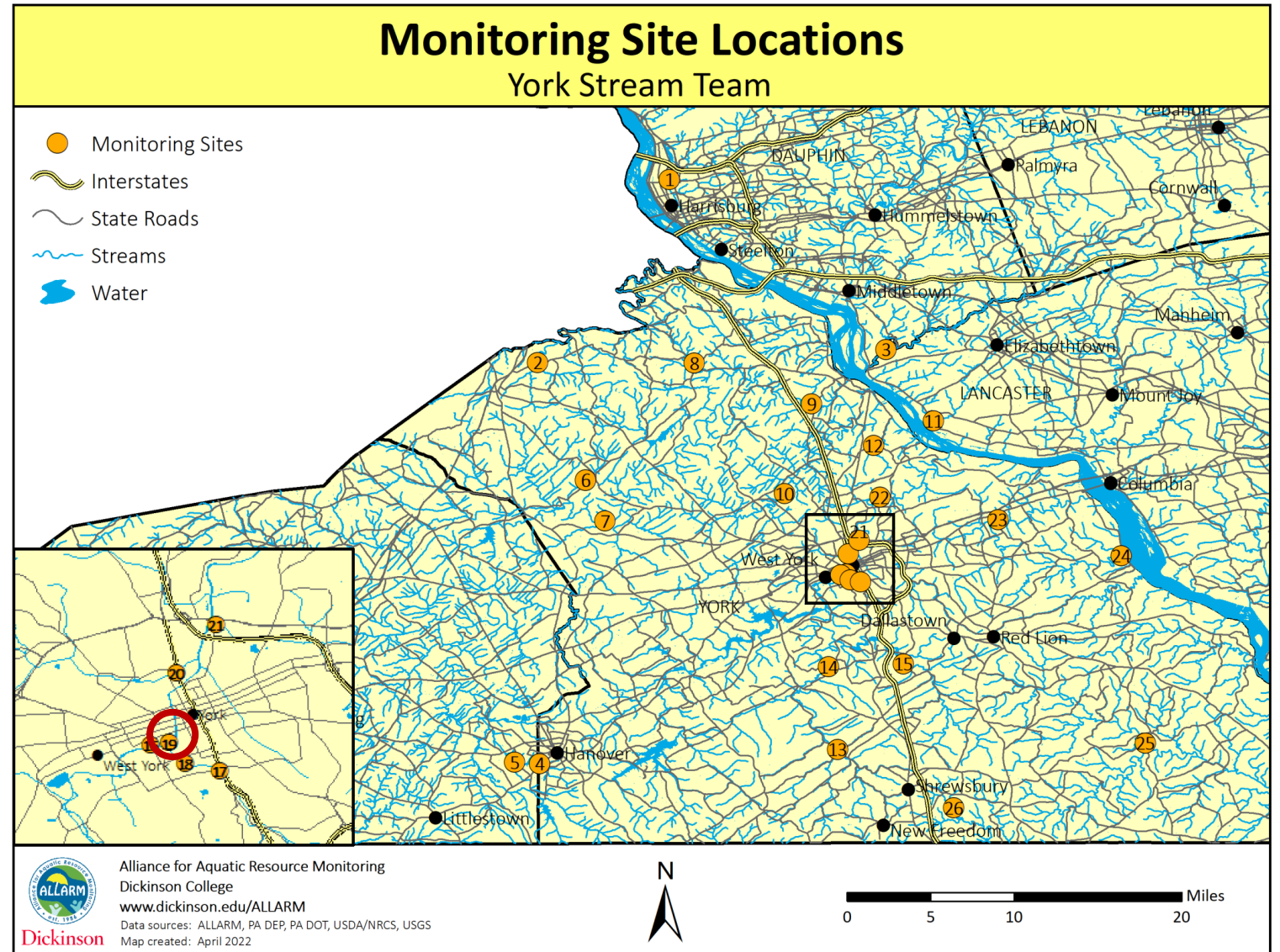
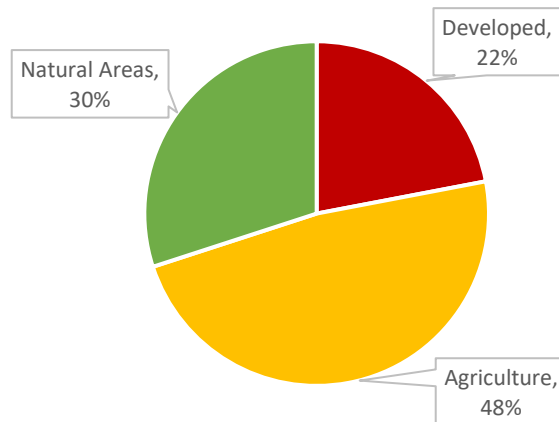
Codorus Creek 2 (CODCRE 12.16)

Monitor(s): Inactive (was YCP)

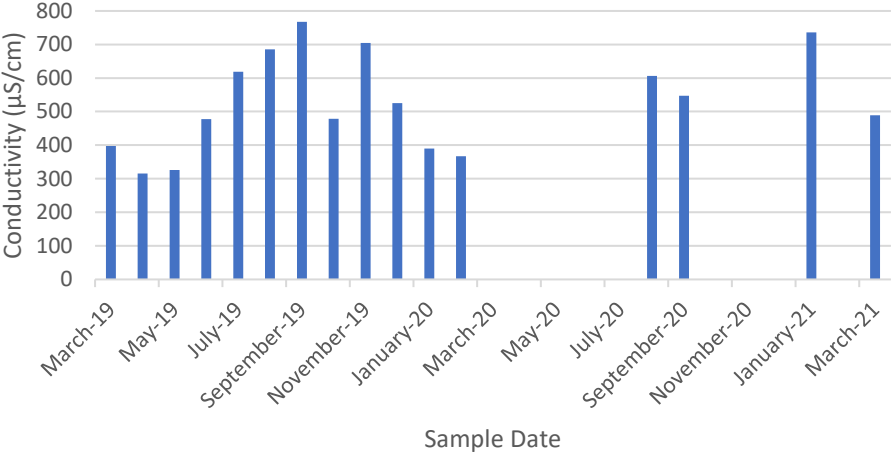
Site information:

- Drains 228 mi²
- Impaired: yes (aquatic life), urban runoff (Flow regime change, siltation) and channelization
- Designation: Warm Water Fishes
- Geology: non-carbonate (87%), carbonate (13%)

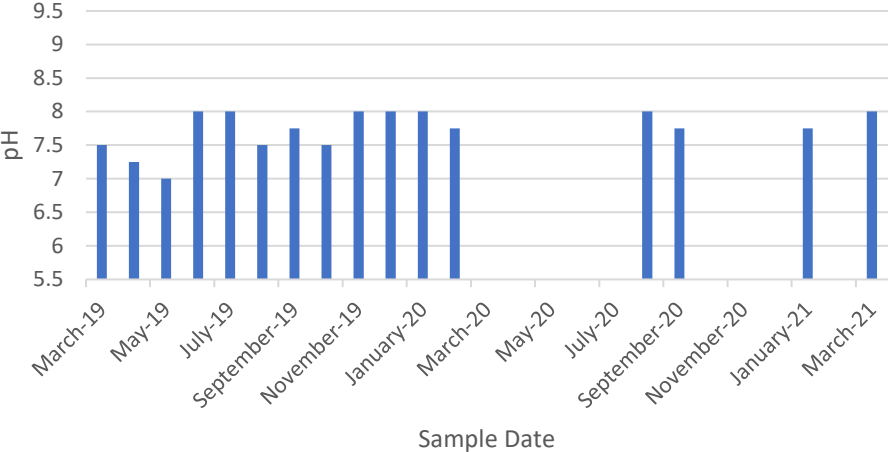
CODCRE 12.16 Land Use



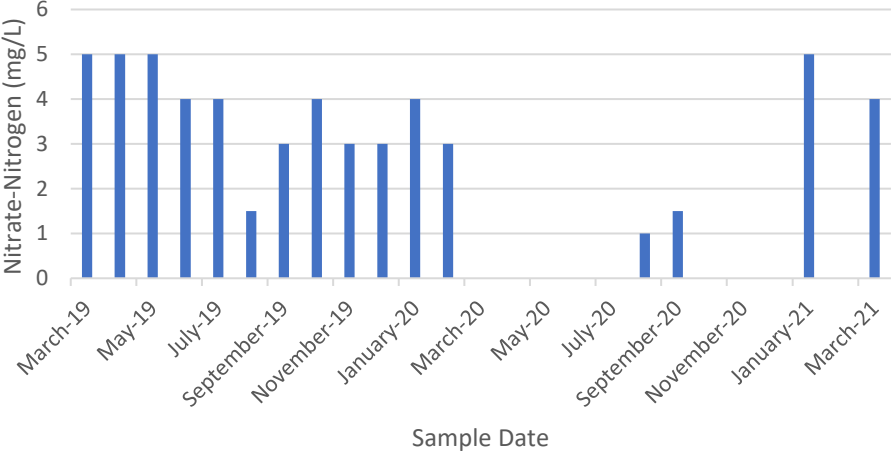
CODCRE 12.16 - Conductivity



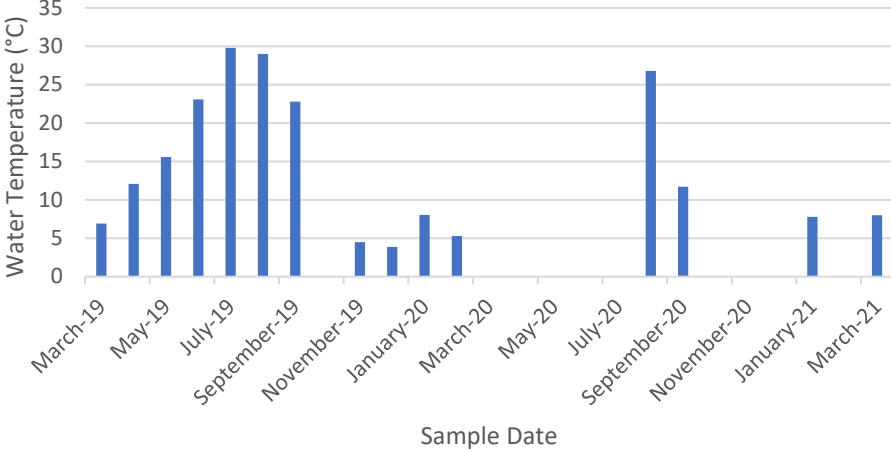
CODCRE 12.16 - pH



CODCRE 12.16 - Nitrate-Nitrogen



CODCRE 12.16 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
3/18/2019	398	5	7.5	6.9
4/16/2019	316	5	7.25	12.1
5/15/2019	326	5	7	15.6
6/17/2019	478	4	8	23.1
7/15/2019	619	4	8	29.8
8/14/2019	685	1.5	7.5	29
9/16/2019	767	3	7.75	22.8
10/15/2019	479	4	7.5	
11/14/2019	704	3	8	4.5
12/16/2019	525	3	8	3.9
1/15/2020	390	4	8	8.1
2/14/2020	367	3	7.75	5.3
8/24/2020	606	1	8	26.8
9/21/2020	547	1.5	7.75	11.7
1/15/2021	736	5	7.75	7.8
3/19/2021	489	4	8	8

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	316	1	7	3.9
Max	767	5	8	29.8
Median	507	4	7.75	11.7

Willis Run (WILRUN 0.37)

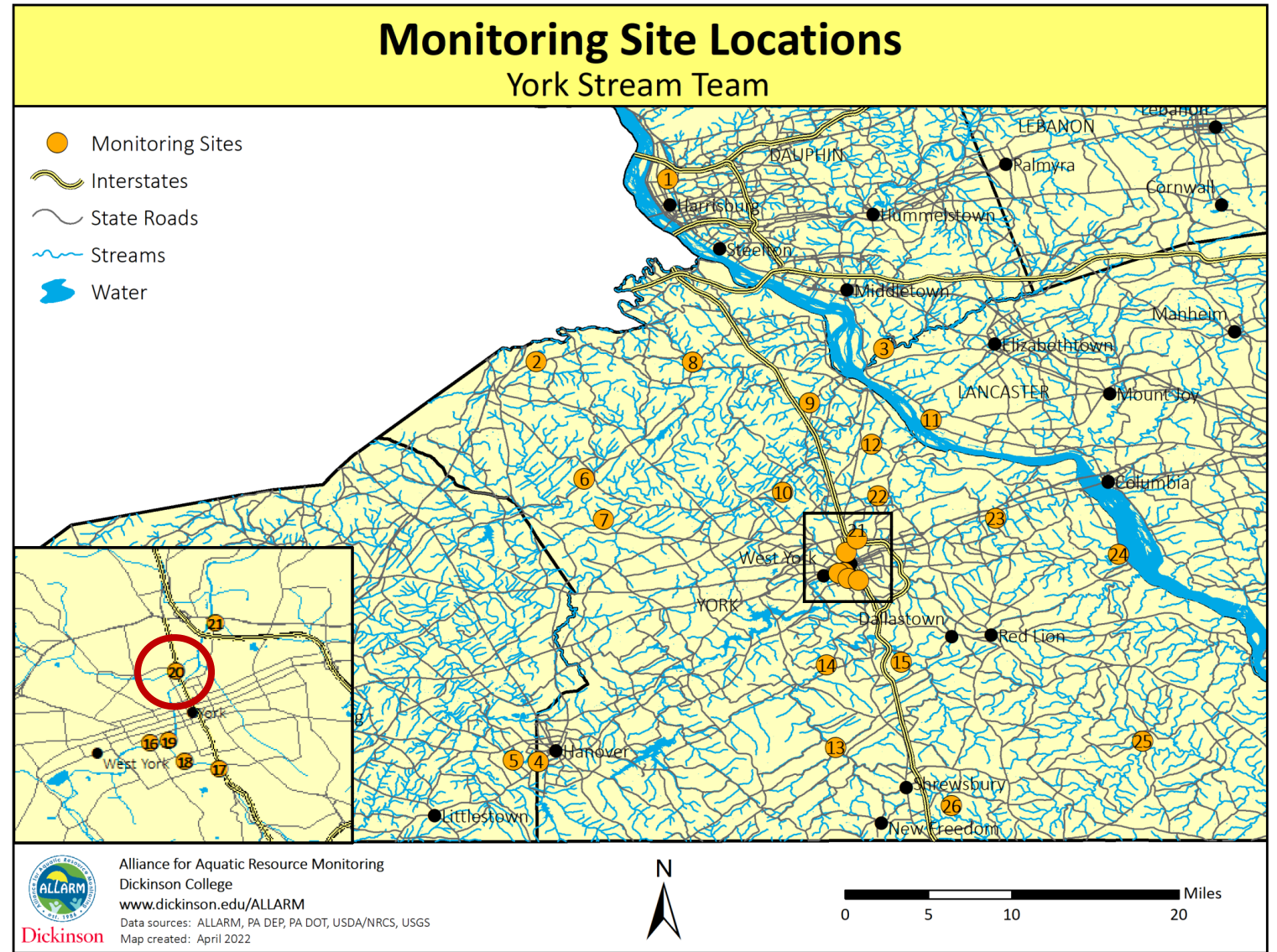
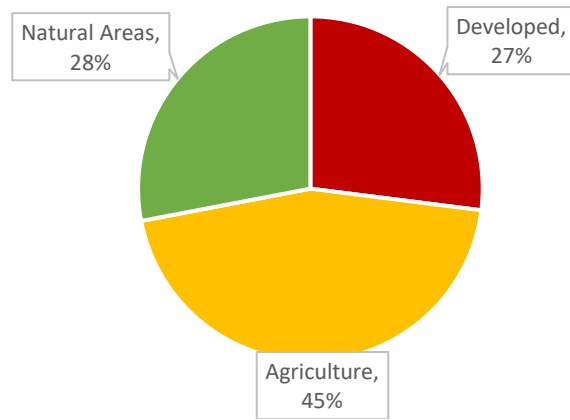
Monitor(s): Stephanie Myers, Tyler Snelbaker

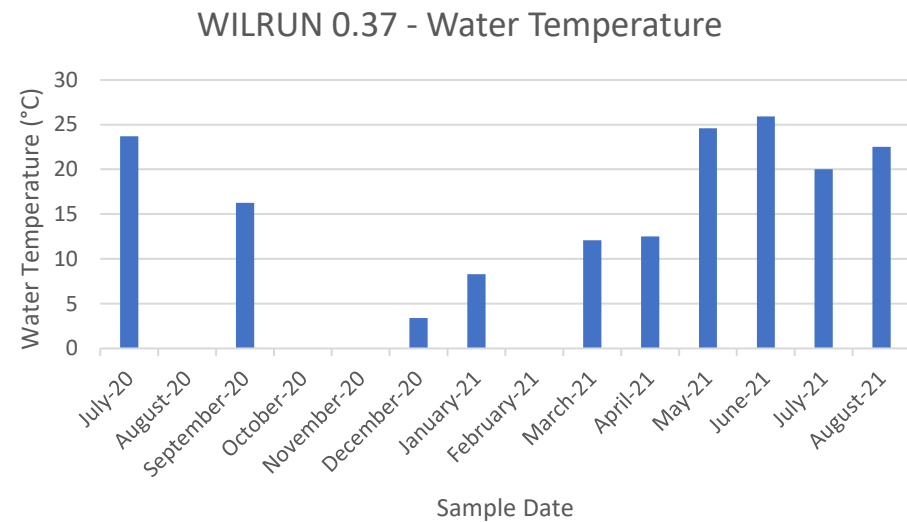
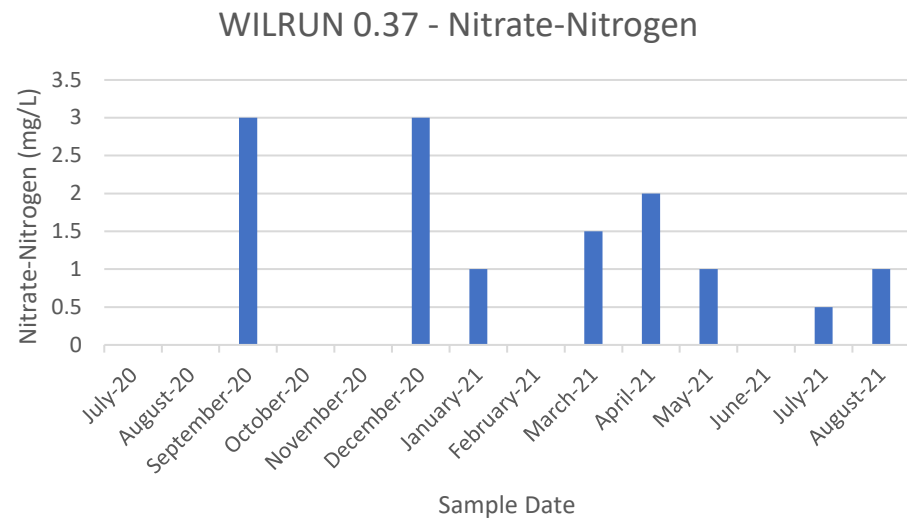
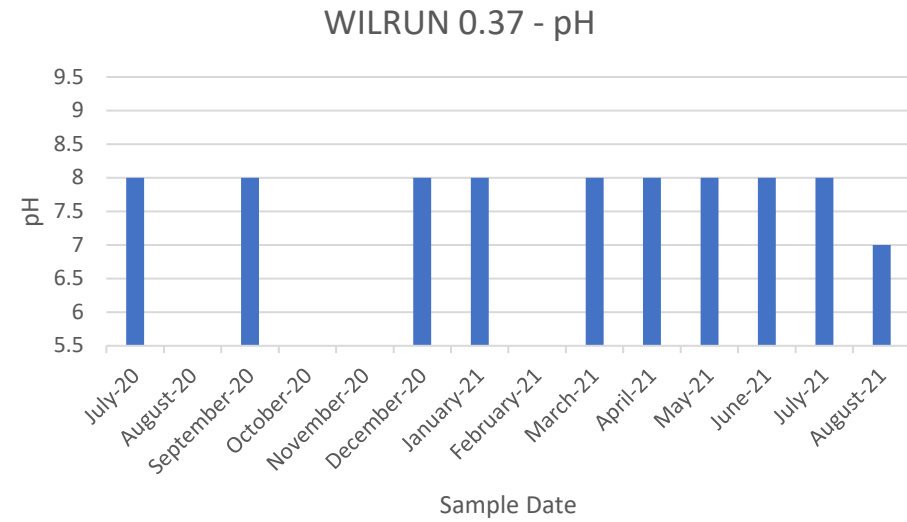
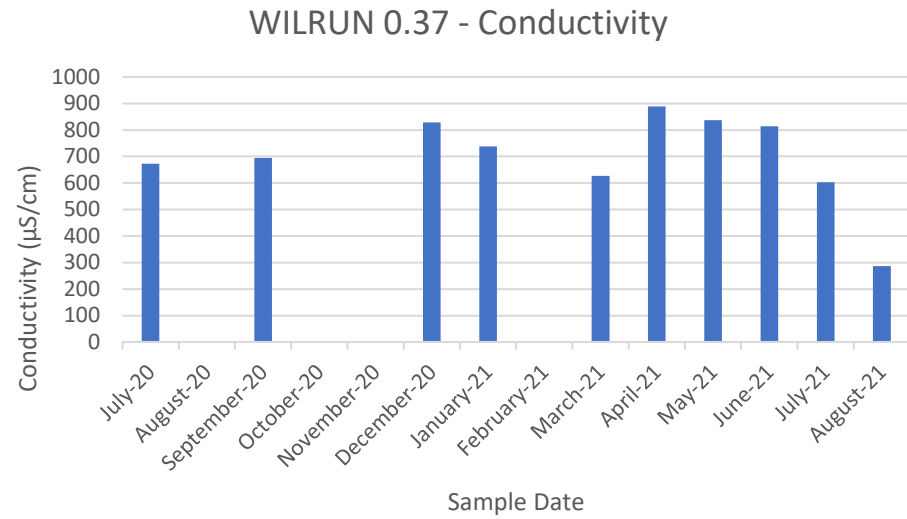
Site information:

- Drains 249 mi²
- Impaired: yes (aquatic life), urban runoff
- Designation: Warm Water Fishes
- Geology: non-carbonate (82%), carbonate (18%)

WILRUN 0.37

Land Use





Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
7/21/2020	673	0	8	23.7
9/19/2020	694	3	8	16.3
12/19/2020	829	3	8	3.4
1/24/2021	738	1	8	8.3
3/29/2021	627	1.5	8	12.1
4/22/2021	889	2	8	12.5
5/23/2021	837	1	8	24.6
6/27/2021	814	0	8	25.9
7/18/2021	603	0.5	8	20
8/22/2021	287	1	7	22.5

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	287	0	7	3.4
Max	889	3	8	25.9
Median	716	1	8	18.1

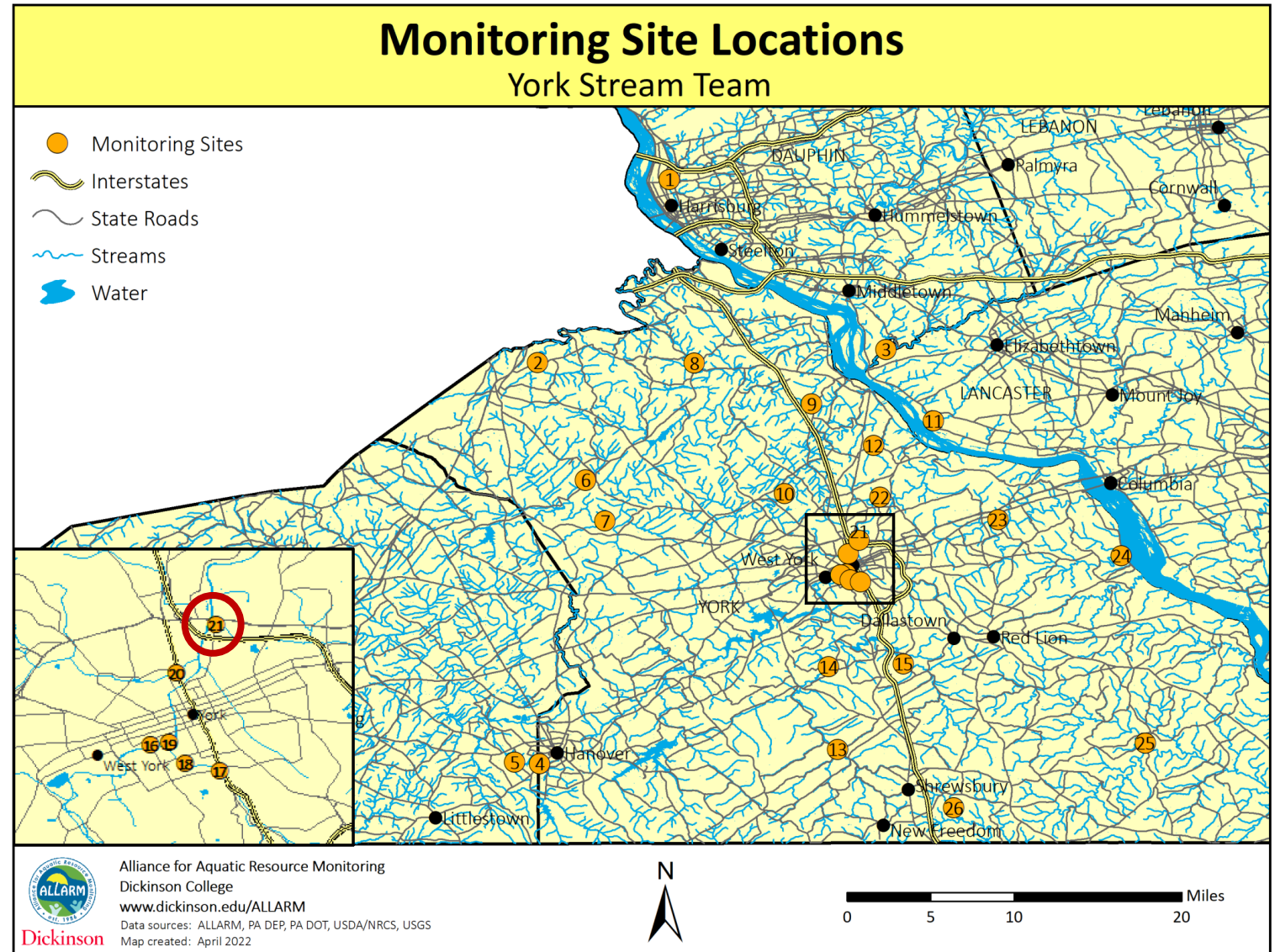
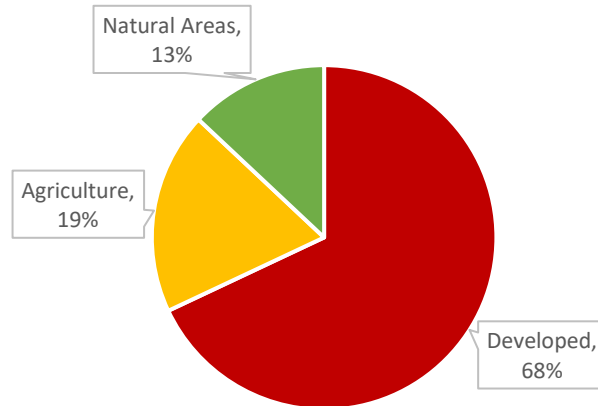
Mill Creek (MILCRE 0.09)

Monitor(s): Lettice Brown, Mark Lentz

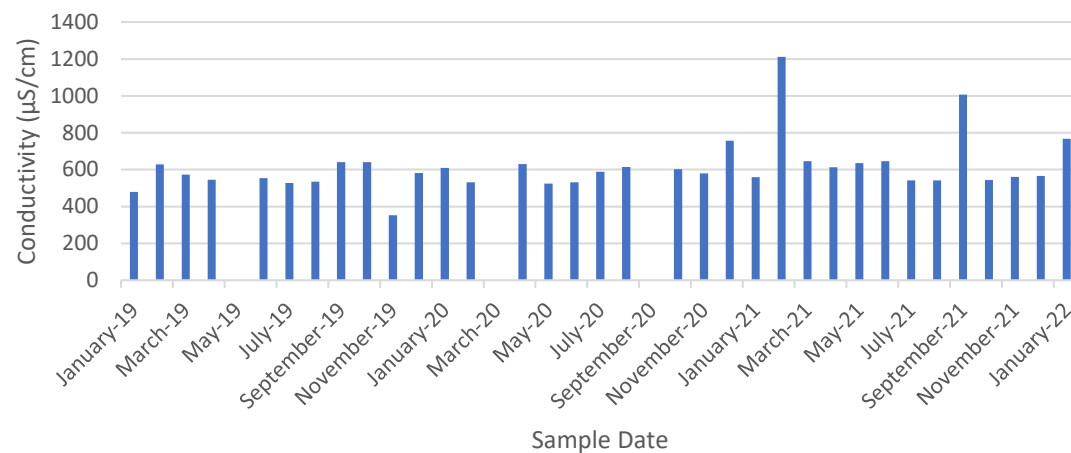
Site information:

- Drains 18 mi²
- Impaired: yes (aquatic life), urban runoff (siltation and flow regime changes)
- Designation: Warm Water Fishes
- Geology: non-carbonate (72%), carbonate (28%)

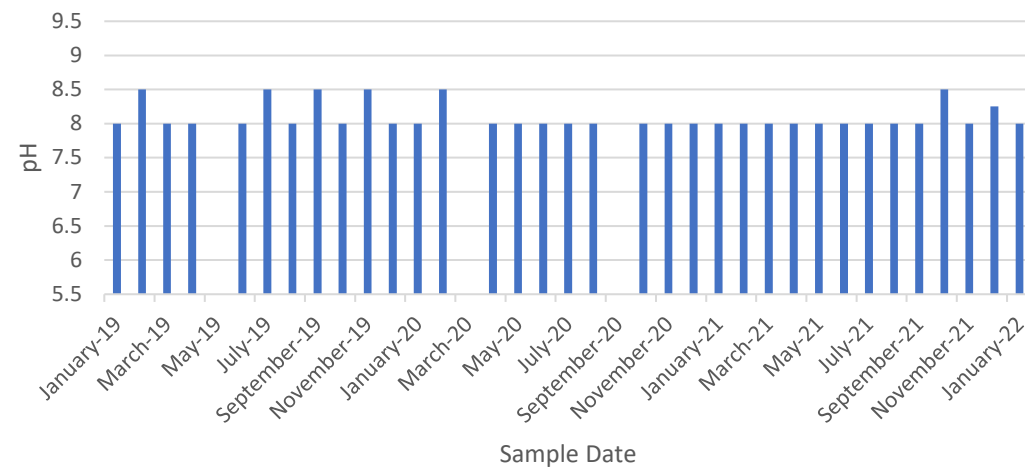
MILCRE 0.09 Land Use



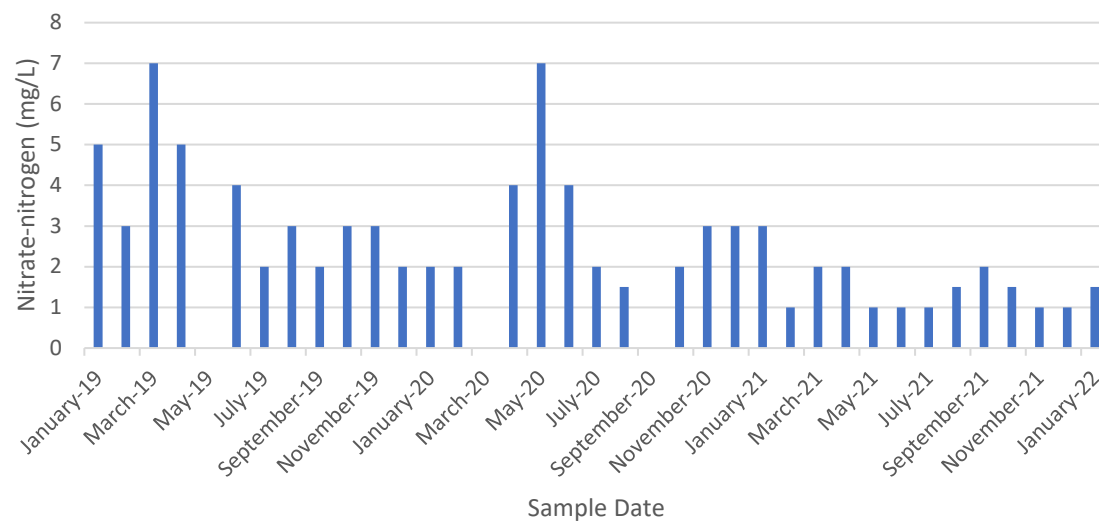
MILCRE 0.09 - Conductivity



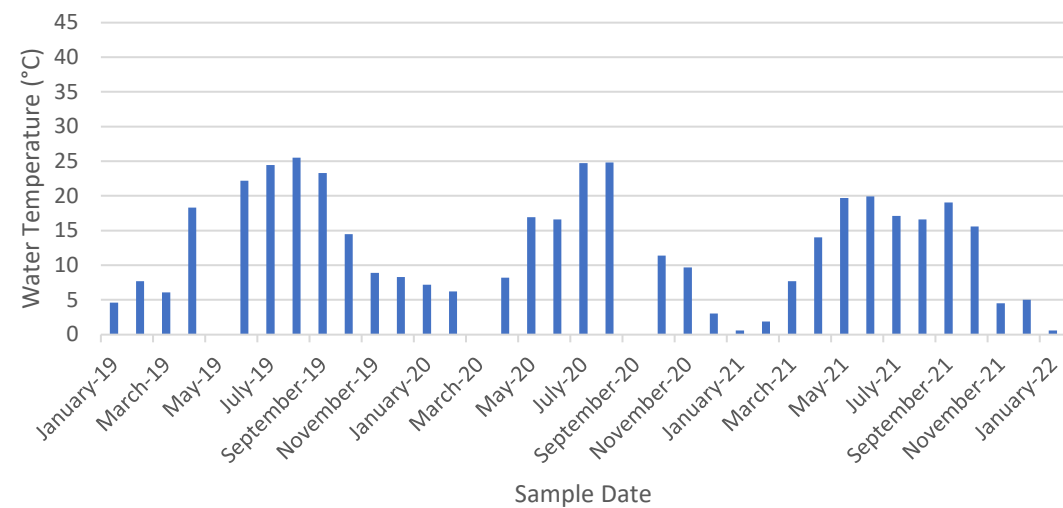
MILCRE 0.09 - pH



MILCRE 0.09 - Nitrate-nitrogen



MILCRE 0.09 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/26/2019	479	5	8	4.6
2/16/2019	627.5	3	8.5	7.7
3/17/2019	572	7	8	6.1
4/22/2019	545	5	8	18.3
6/17/2019	554	4	8	22.2
7/20/2019	528	2	8.5	24.5
8/18/2019	535	3	8	25.5
9/22/2019	640	2	8.5	23.3
10/20/2019	641	3	8	14.5
11/17/2019	352	3	8.5	8.9
12/15/2019	581	2	8	8.3
1/19/2020	610	2	8	7.2
2/16/2020	531	2	8.5	6.2
4/18/2020	630	4	8	8.2
5/20/2020	524	7	8	16.9
6/14/2020	531	4	8	16.6
7/19/2020	588	2	8	24.7
8/23/2020	615	1.5	8	24.8
10/18/2020	602	2	8	11.4
11/22/2020	579	3	8	9.7
12/20/2020	757	3	8	3.05
1/24/2021	559	3	8	0.6
2/21/2021	1211	1	8	1.9
3/21/2021	645	2	8	7.7
4/17/2021	612	2	8	14
5/23/2021	636	1	8	19.7
6/20/2021	645	1	8	19.9
7/19/2021	541	1	8	17.1
8/22/2021	542	1.5	8	16.6
9/22/2021	1007	2	8	19.1
10/17/2021	543	1.5	8.5	15.6
11/21/2021	561	1	8	4.5
12/20/2021	566	1	8.25	5
1/16/2022	767	1.5	8	0.6

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Max	1211	7	8.5	25.5
Min	352	1	8	0.6
Median	580	2	8	12.7

Codorus Creek (CODCRE 5.77)

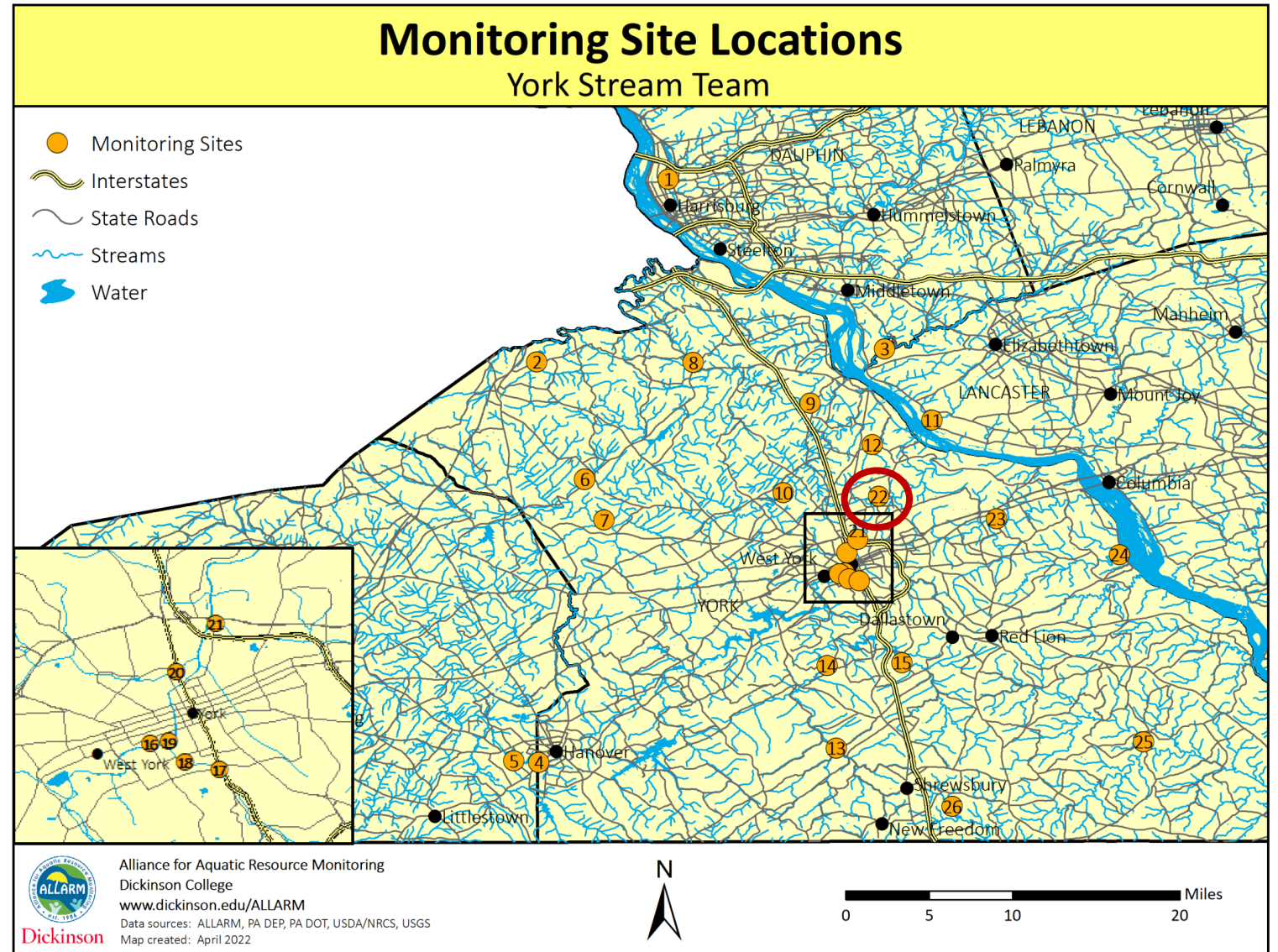
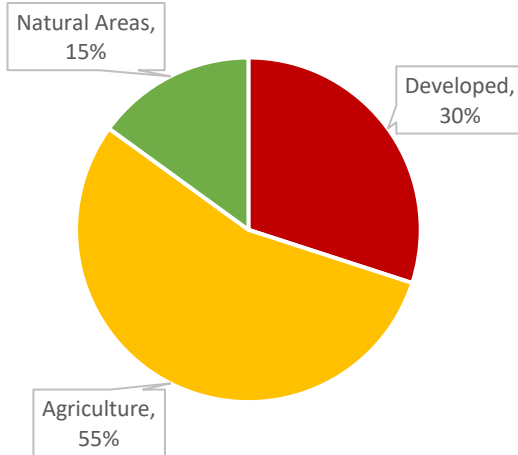
Monitor(s): Deana Albright & Tammy Klunk

Site information:

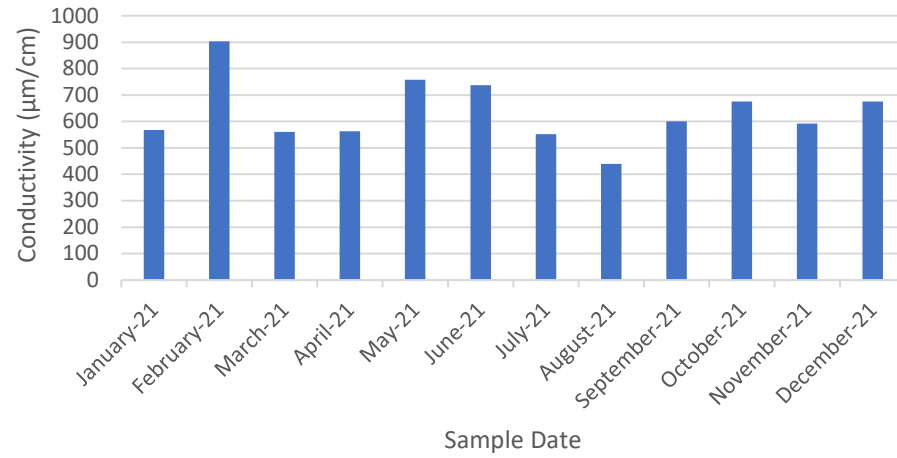
- Drains 17 mi²
- Impaired: yes (recreational), pathogens
- Designation: Trout Stocking
- Geology: non-carbonate (72%), carbonate (28%)

CODCRE 5.77

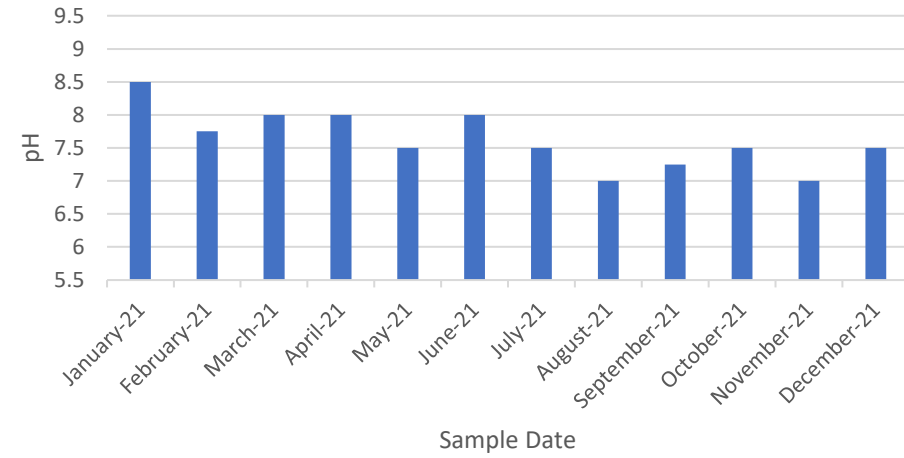
Land Use



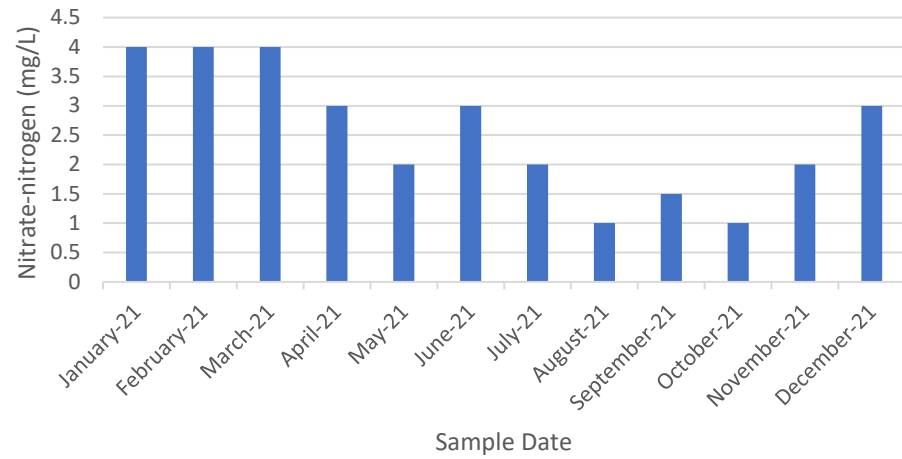
CODCRE 5.77-Conductivity



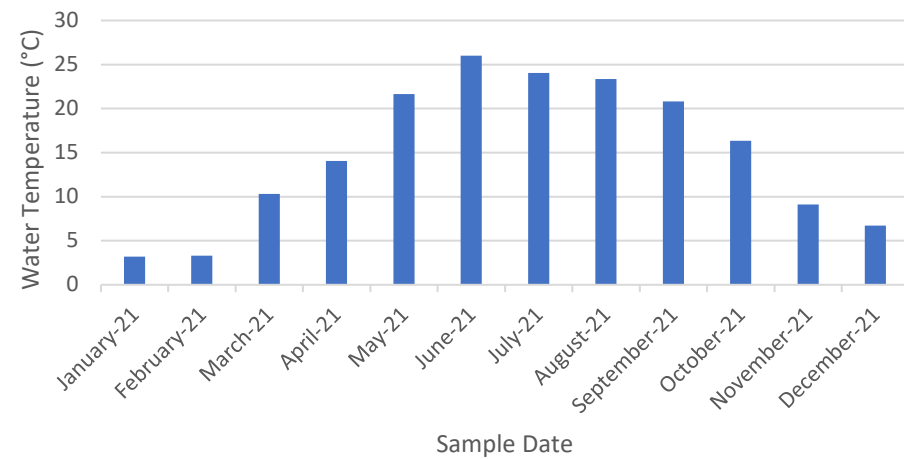
CODCRE 5.77-pH



CODCRE 5.77-Nitrate-nitrogen



CODCRE 5.77-Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/24/2021	568	4	8.5	3.2
2/23/2021	903	4	7.75	3.3
3/22/2021	561	4	8	10.3
4/19/2021	563	3	8	14.1
5/24/2021	758	2	7.5	21.7
6/21/2021	737	3	8	26
7/19/2021	552	2	7.5	24.1
8/23/2021	439	1	7	23.4
9/20/2021	600	1.5	7.25	20.8
10/25/2021	676	1	7.5	16.4
11/22/2021	592	2	7	9.1
12/20/2021	676	3	7.5	6.7

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	439	1	7	3.2
Max	903	4	8.5	26
Median	596	2.5	7.5	15.2

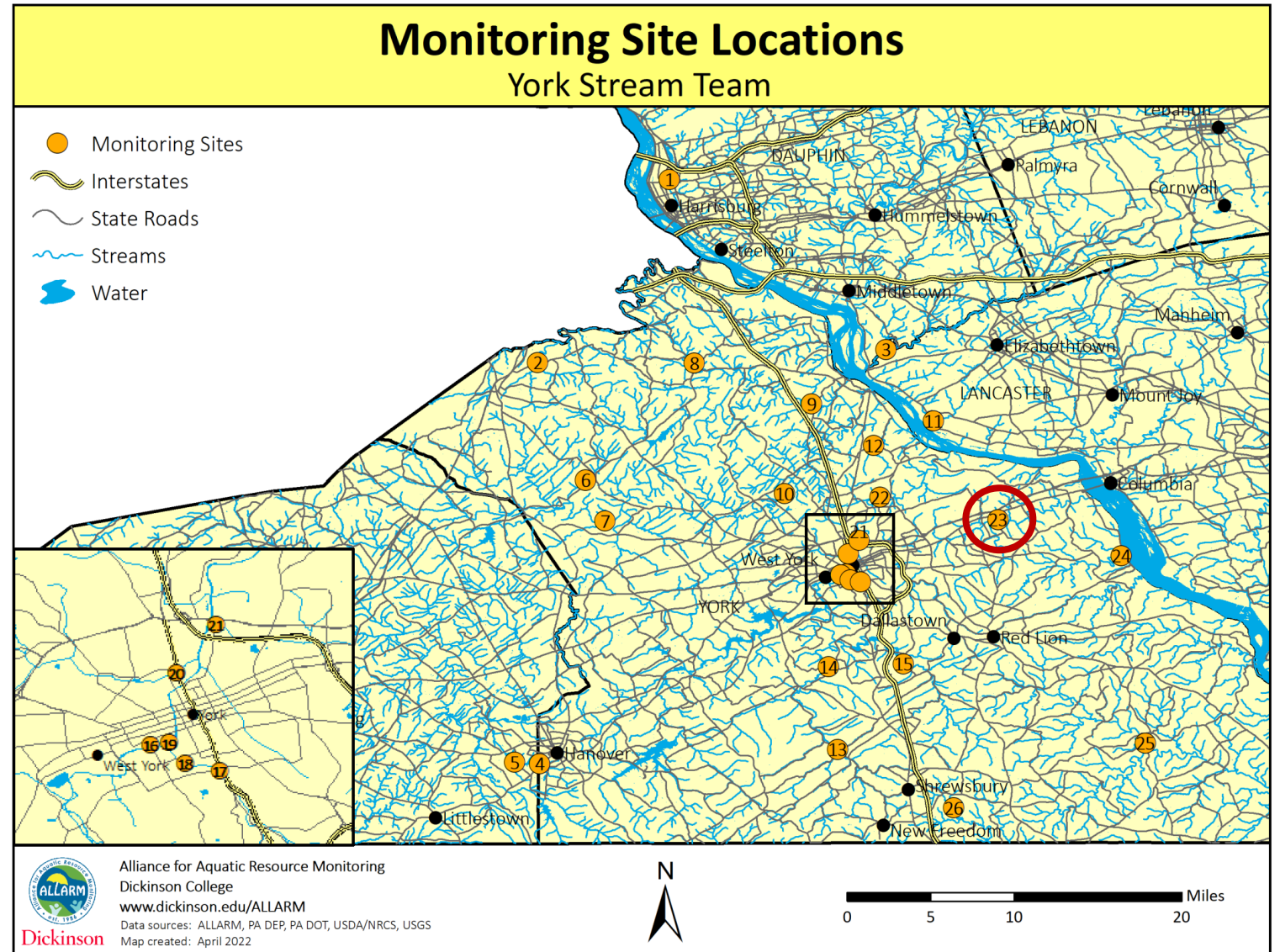
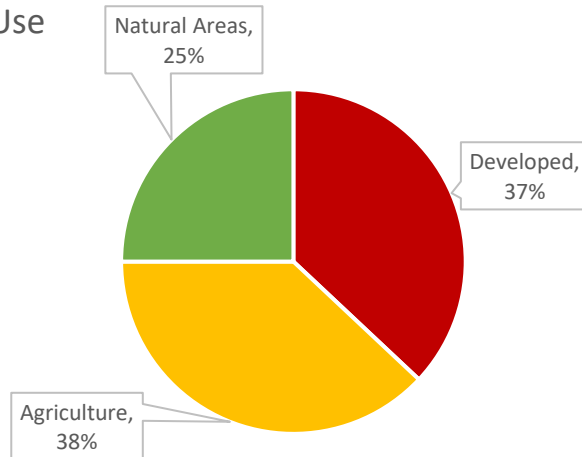
Kreutz Creek (KRECRE 8.67)

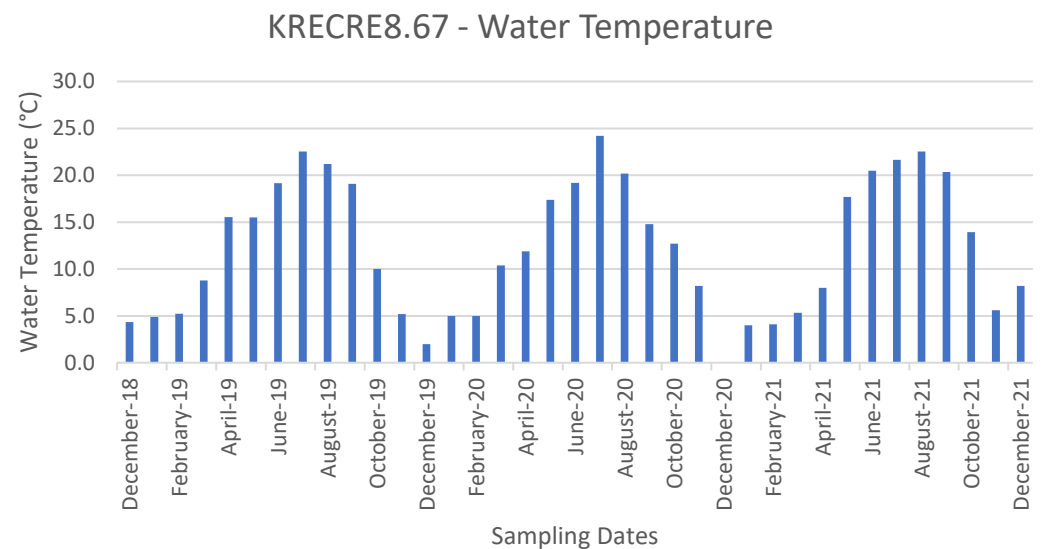
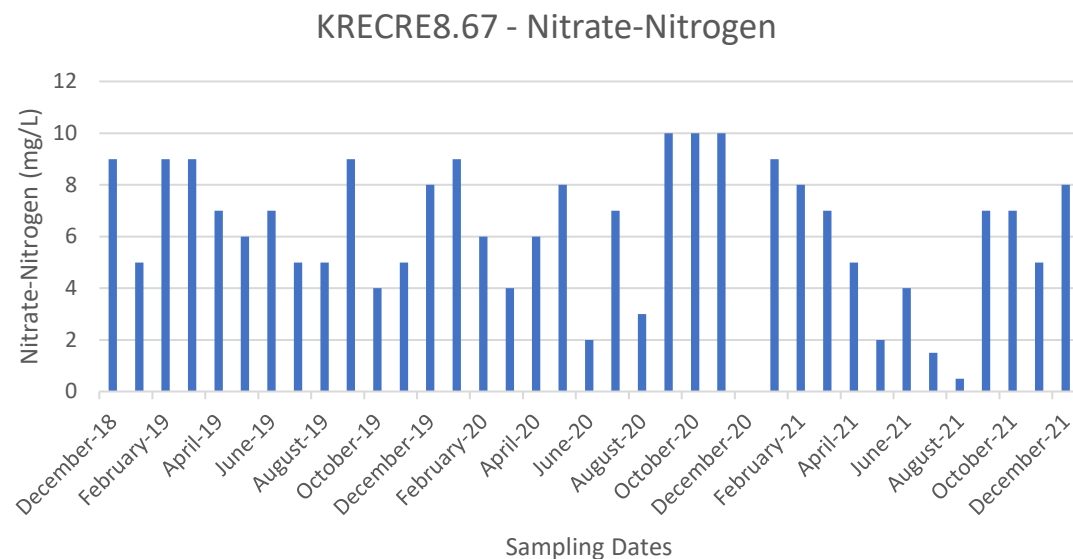
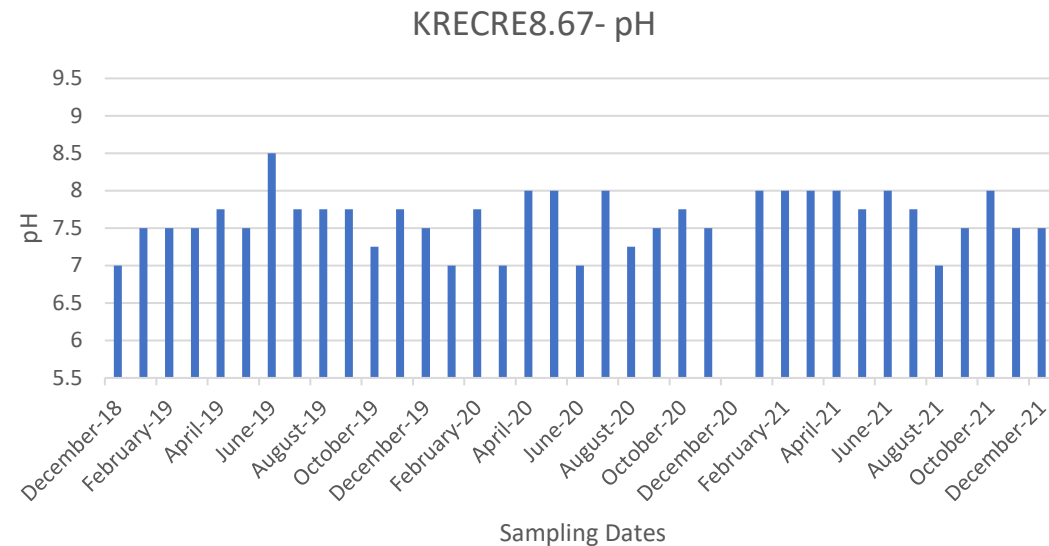
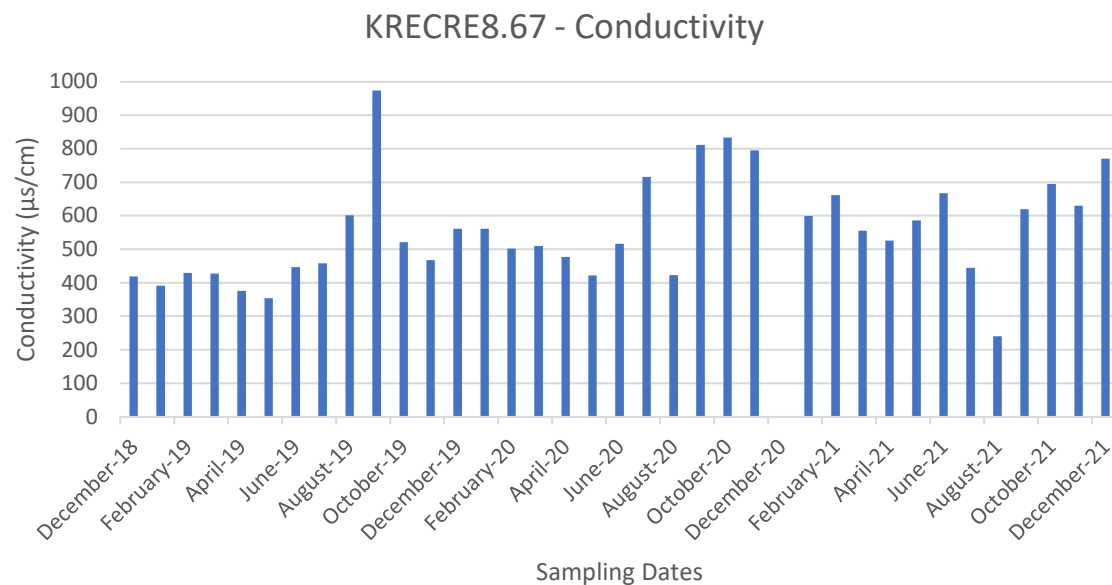
Monitor(s): Cindy Pizziketti, Sean Lavery

Site information:

- Drains 23 mi²
- Impaired: yes (aquatic life), habitat modification and agriculture (siltation)
- Designation: Warm Water Fishes
- Geology: non-carbonate (72%), carbonate (28%)

KRECRE 8.67 Land Use





Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/8/2018	419	9	7	4.4
1/26/2019	391	5	7.5	4.9
2/9/2019	429	9	7.5	5.3
3/16/2019	427	9	7.5	8.8
4/20/2019	376	7	7.75	15.6
5/18/2019	354	6	7.5	15.5
6/16/2019	447	7	8.5	19.2
7/20/2019	458	5	7.75	22.6
8/17/2019	601	5	7.75	21.2
9/21/2019	974	9	7.75	19.1
10/19/2019	521	4	7.25	10
11/16/2019	468	5	7.75	5.2
12/21/2019	561	8	7.5	2
1/17/2020	561	9	7	5
2/15/2020	502	6	7.75	5
3/21/2020	510	4	7	10.4
4/20/2020	477	6	8	11.9
5/18/2020	422	8	8	17.4
6/22/2020	516	2	7	19.2
7/17/2020	716	7	8	24.2
8/22/2020	423	3	7.25	20.2
9/20/2020	811	10	7.5	14.8
10/18/2020	833	10	7.75	12.7
11/29/2020	795	10	7.5	8.2
1/23/2021	599	9	8	4
2/20/2021	661	8	8	4.1
3/20/2021	555	7	8	5.4
4/17/2021	526	5	8	8
5/22/2021	586	2	7.75	17.7
6/19/2021	667	4	8	20.5
7/18/2021	445	1.5	7.75	21.7
8/22/2021	240	0.5	7	22.6
9/19/2021	619	7	7.5	20.4
10/23/2021	695	7	8	14.0
11/20/2021	630	5	7.5	5.6
12/18/2021	770	8	7.5	8.2

Summary Statistics

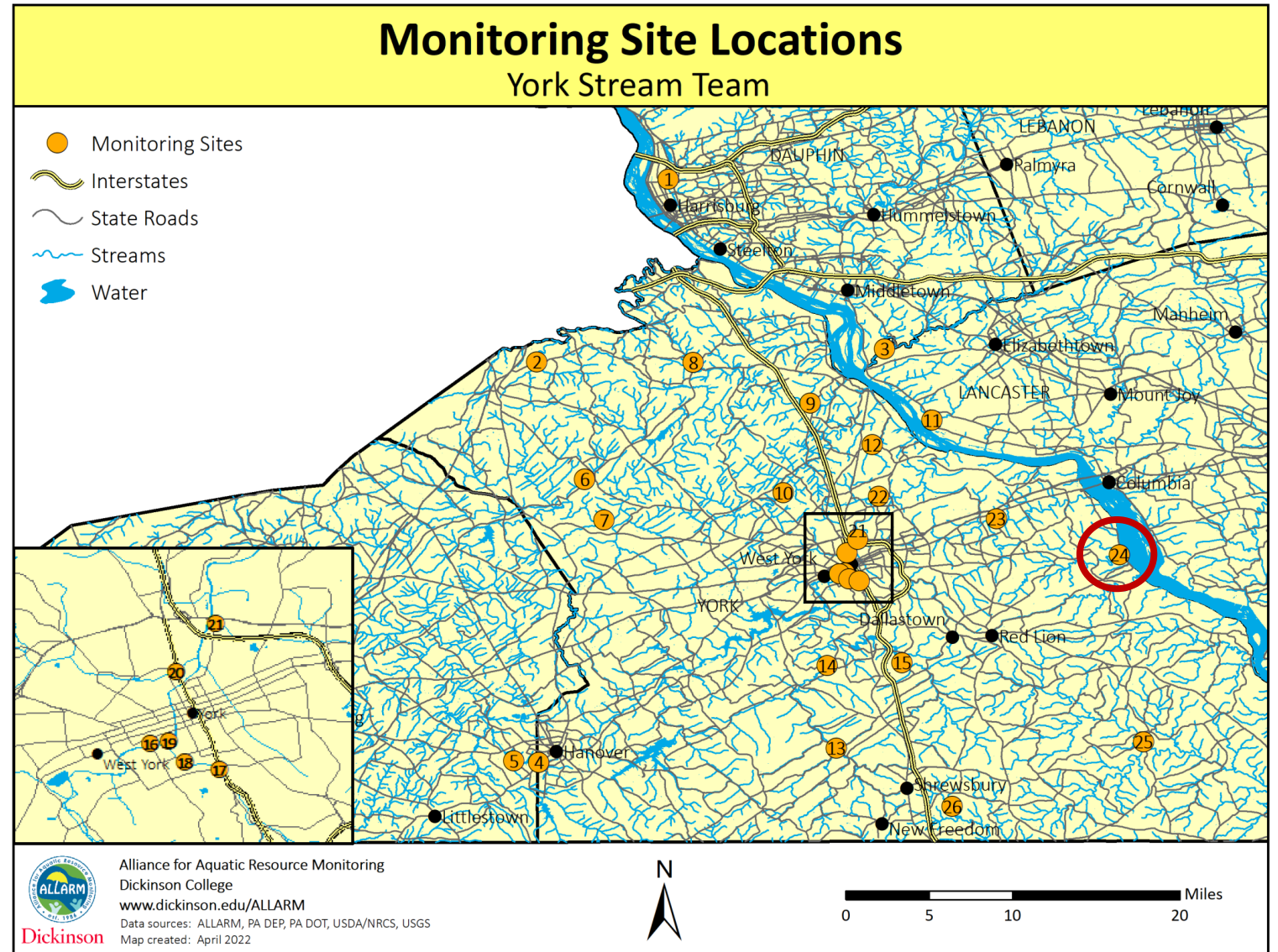
	Conductivity	Nitrate	pH	Water Temperature
Min	240	0.5	7	2
Max	974	10	8.5	24.2
Median	524	7	7.75	12.3

Monitor(s): Inactive

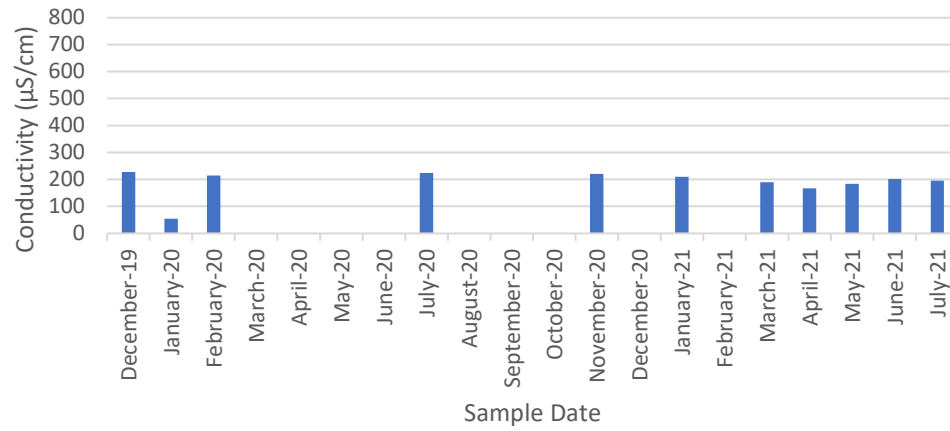
- Drains 4 mi²
- Impaired: yes (aquatic life), siltation
- Designation: Warm Water Fishes
- Geology: non-carbonate (100%)

A pie chart illustrating the distribution of land use. The chart is divided into three segments: a large yellow segment representing Agriculture at 45%, a large green segment representing Natural Areas at 42%, and a smaller red segment representing Developed land at 13%. Each segment is labeled with its category and percentage in a white box with a pointer to the corresponding slice.

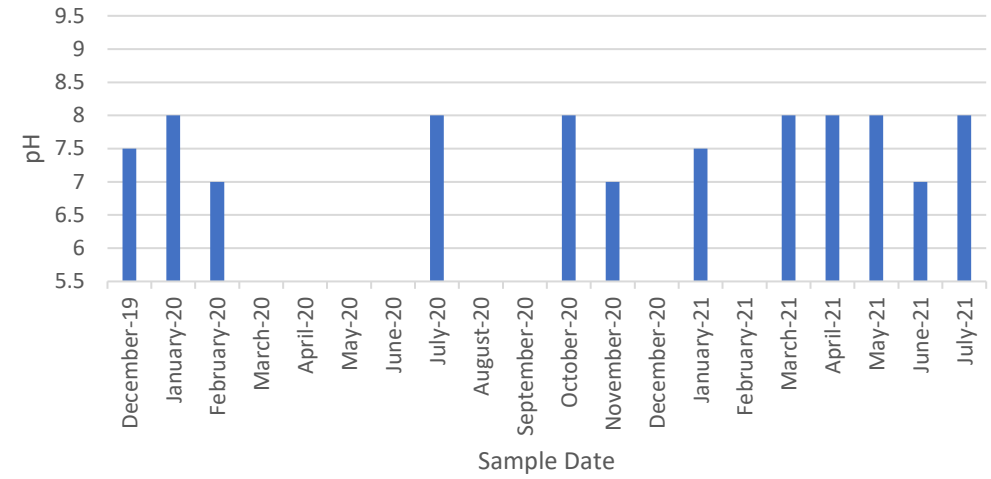
Land Use Category	Percentage
Agriculture	45%
Natural Areas	42%
Developed	13%



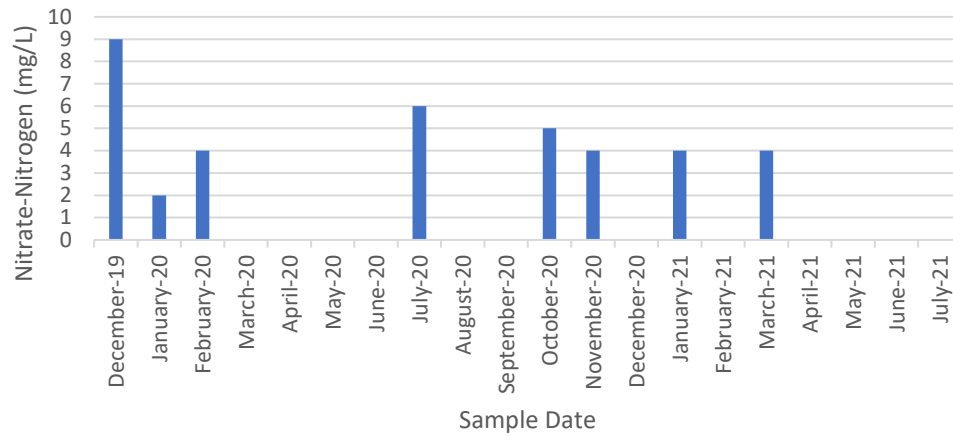
CABCRE 2.67 - Conductivity



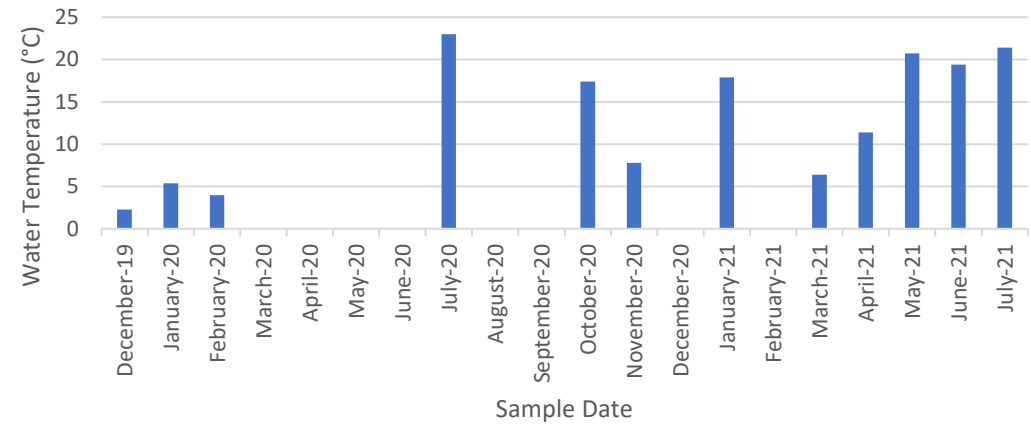
CABCRE 2.67 - pH



CABCRE 2.67 - Nitrate-Nitrogen



CABCRE 2.67 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/13/2019	227	9	7.5	2.3
1/18/2020	54.5	2	8	5.4
2/16/2020	214	4	7	4
7/19/2020	224	6	8	23
10/17/2020		5	8	17.4
11/21/2020	220	4	7	7.8
1/24/2021	210	4	7.5	17.9
3/21/2021	189	4	8	6.4
4/17/2021	167.3		8	11.4
5/23/2021	184		8	20.75
6/20/2021	201		7	19.4
7/19/2021	195.4		8	21.4

Summary Statistics

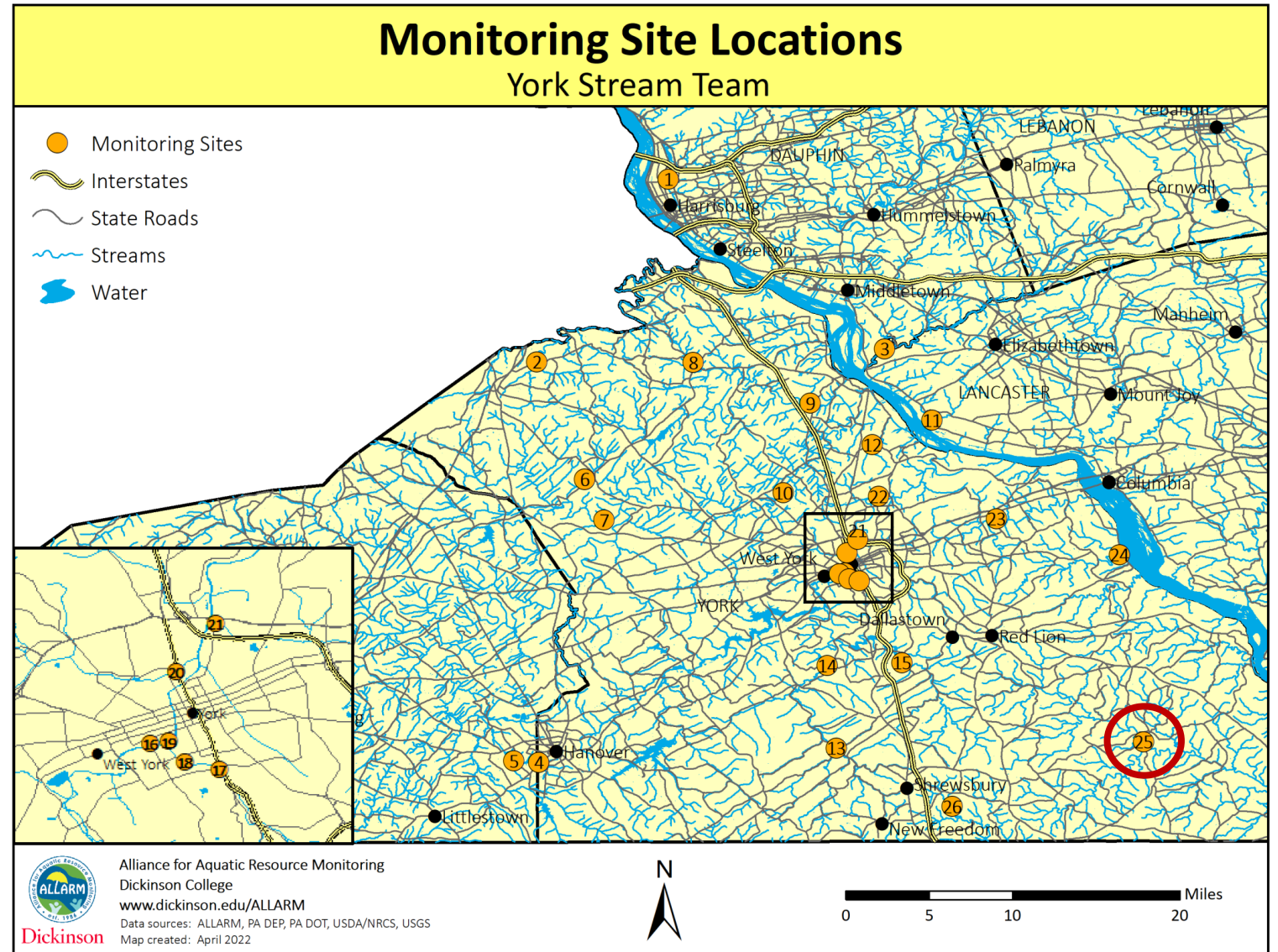
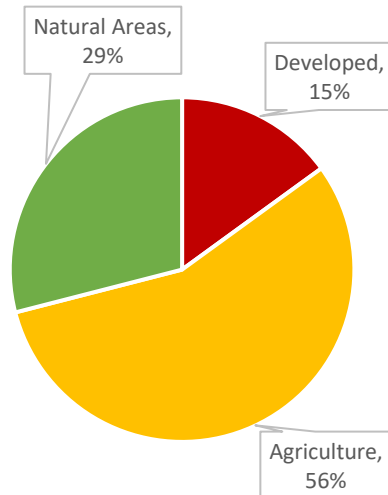
	Conductivity	Nitrate	pH	Water Temperature
Min	54.5	2	7	2.3
Max	227	9	8	23
Median	201	4	8	14.4

Monitor(s): David Moyar

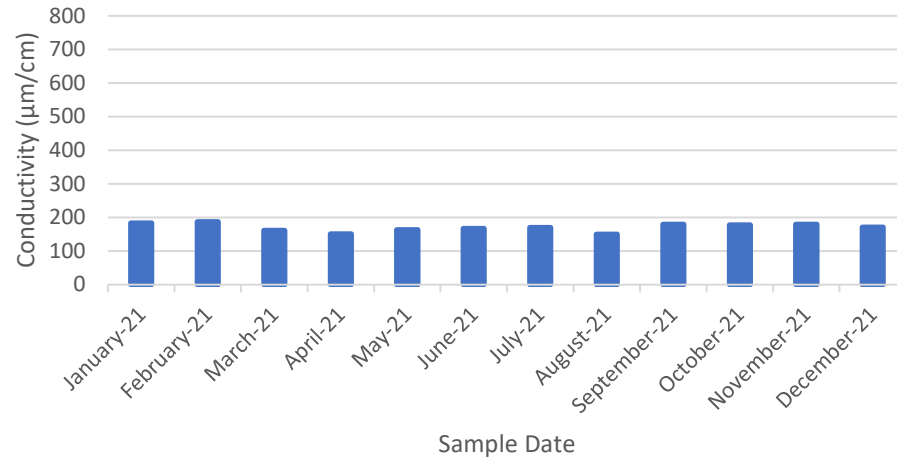
Site information:

- Drains 50 mi²
- Impaired: yes (aquatic life), agriculture (nutrients and TSS)
- Designation: Warm Water Fishes
- Geology: non-carbonate (96%), carbonate (4%)

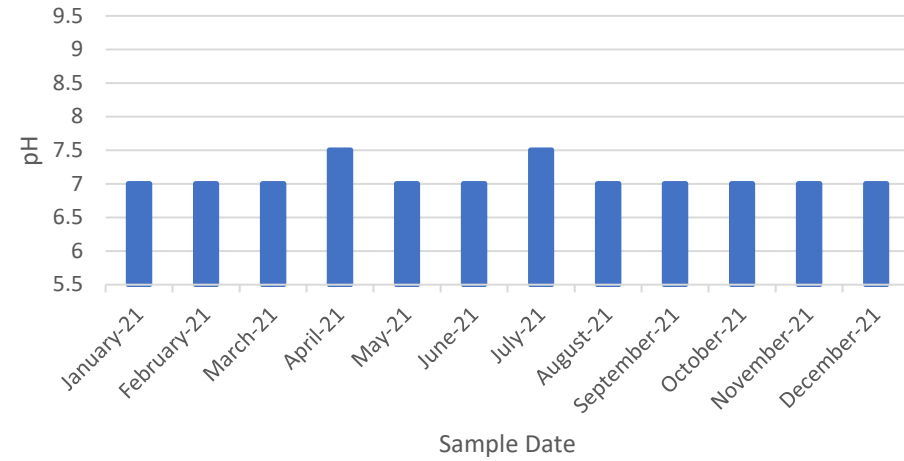
MUDCRE 17.55
Land Use



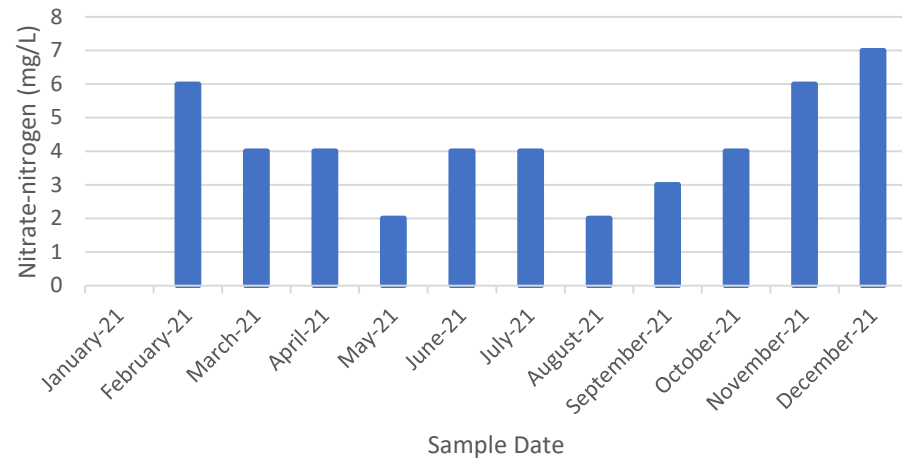
MUDCRE17.55 -- Conductivity



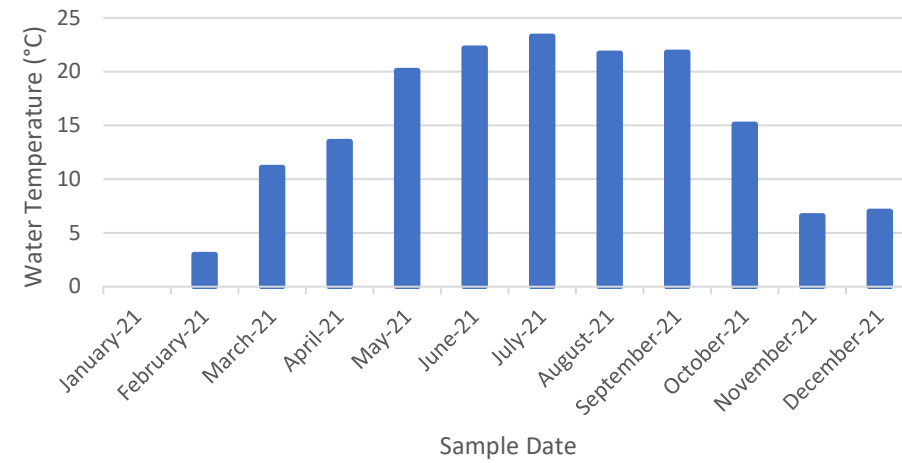
MUDCRE17.55 -- pH



MUDCRE17.55 -- Nitrate-nitrogen



MUDCRE17.55 -- Water temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
1/24/2021	183.4		7	
2/21/2021	186.6	6	7	3
3/21/2021	161.7	4	7	11.1
4/18/2021	151.3	4	7.5	13.5
5/21/2021	162.9	2	7	20.1
6/17/2021	167.1	4	7	22.2
7/18/2021	169.6	4	7.5	23.3
8/22/2021	149.8	2	7	21.7
9/19/2021	179.7	3	7	21.8
10/22/2021	177.5	4	7	15.1
11/20/2021	179.9	6	7	6.6
12/19/2021	171.1	7	7	7

Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	149.8	2	7	3
Max	186.6	7	7.5	23.3
Median	170.4	4	7	15.1

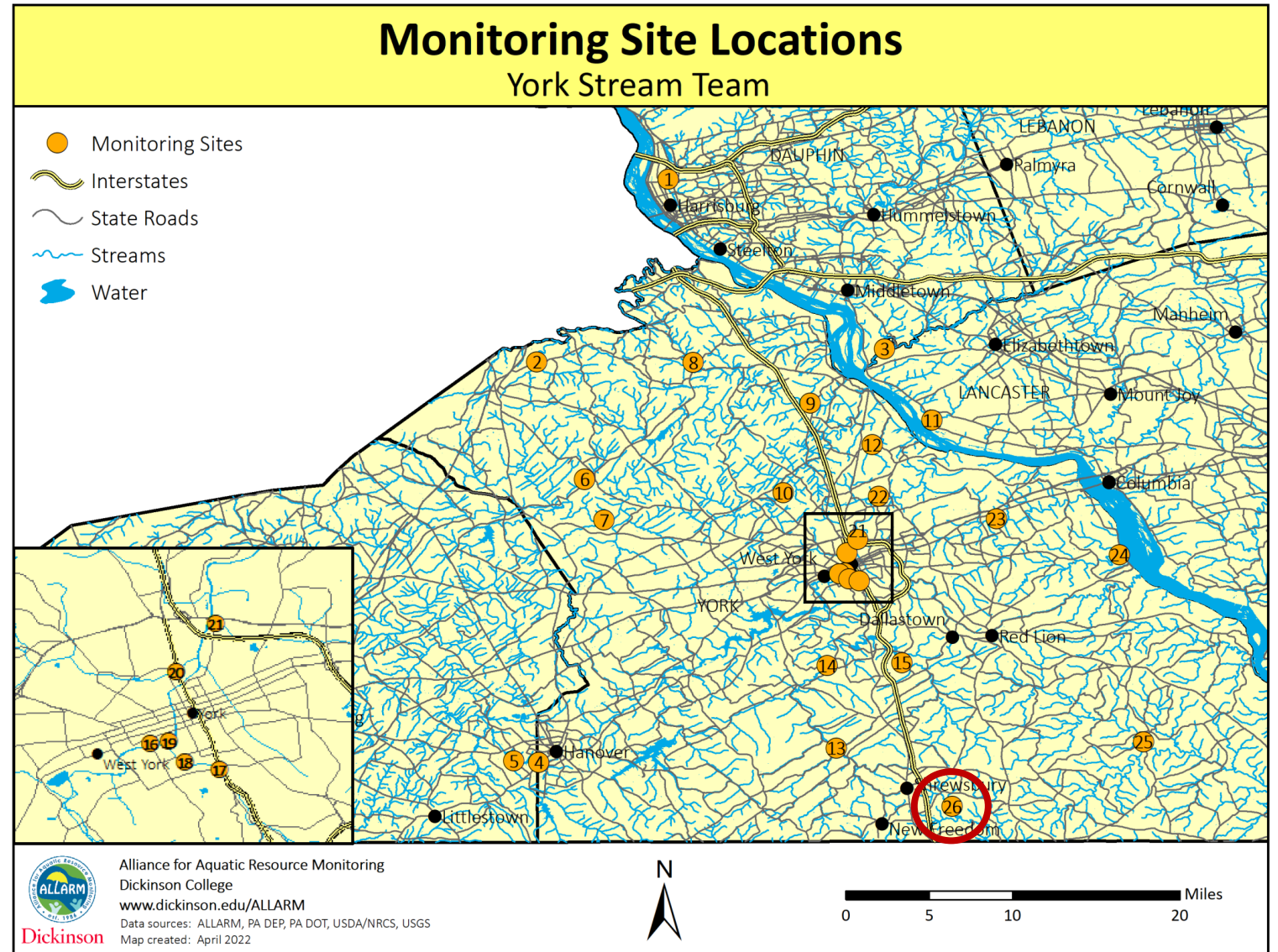
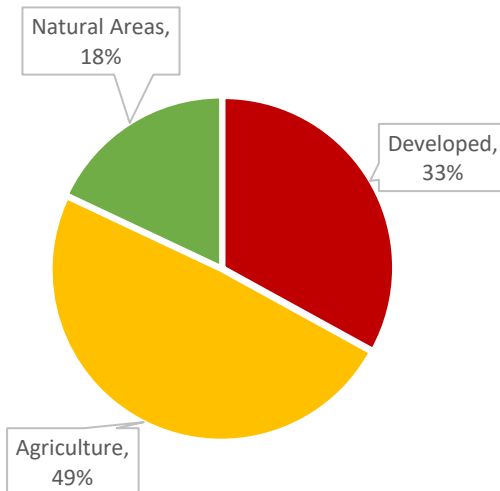
Deer Creek (DEECRE 38.64)

Monitor(s): Lynda Hartzell

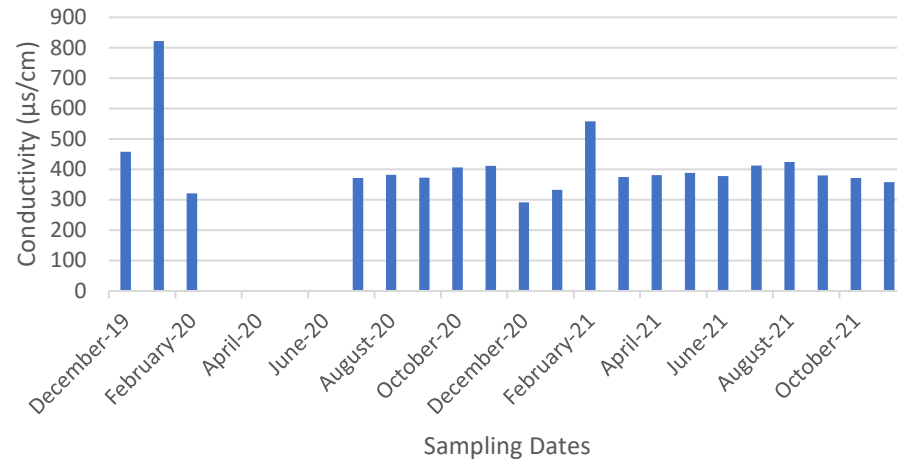
Site information:

- Drains 5 mi²
- Impaired: yes (aquatic life), siltation
- Designation: Cold water fishes
- Geology: non-carbonate (100%)

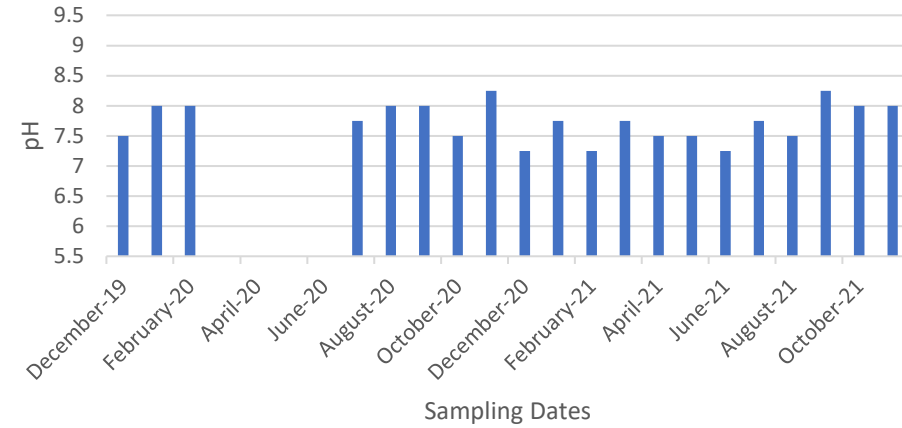
DEECRE 38.64 Land Use



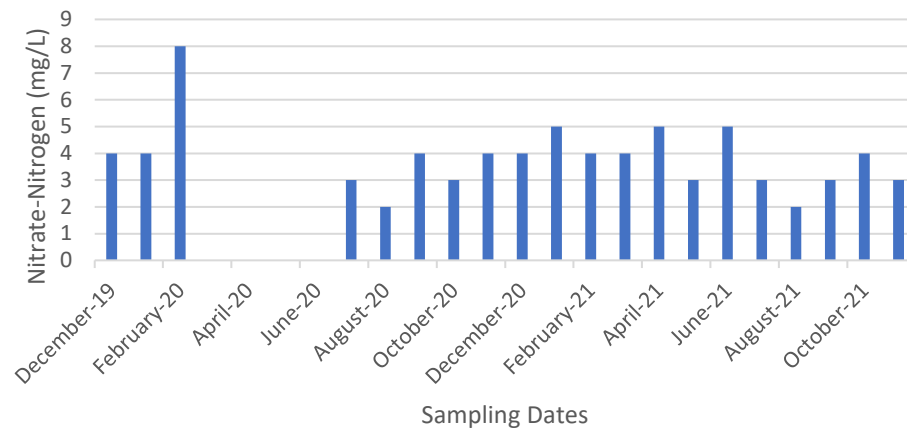
DEECRE 38.64 - Conductivity



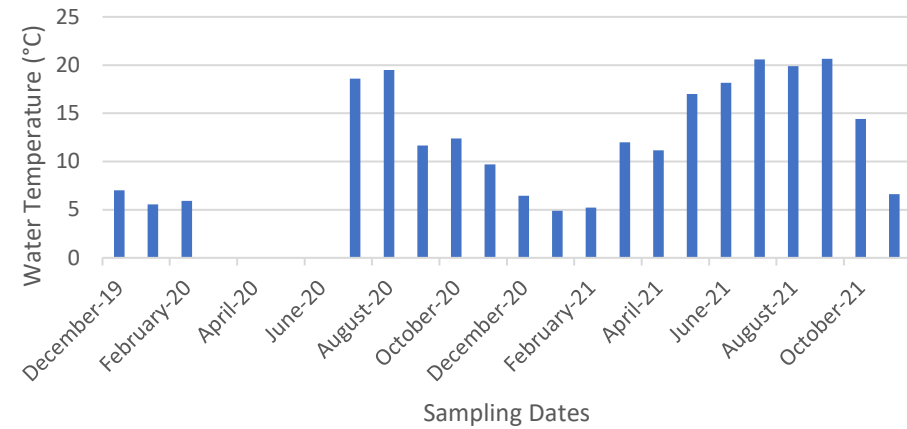
DEECRE 38.64 - pH



DEECRE 38.64 - Nitrate-Nitrogen



DEECRE 38.64 - Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/14/2019	458	4	7.5	7
1/19/2020	822	4	8	5.6
2/16/2020	321	8	8	5.9
7/19/2020	371	3	7.75	18.6
8/23/2020	382	2	8	19.5
9/19/2020	372	4	8	11.7
10/17/2020	406	3	7.5	12.4
11/22/2020	411	4	8.25	9.7
12/26/2020	291	4	7.25	6.5
1/24/2021	332	5	7.75	4.9
2/26/2021	558	4	7.25	5.2
3/21/2021	374	4	7.75	12
4/18/2021	381	5	7.5	11.2
5/23/2021	388	3	7.5	17
6/18/2021	378	5	7.25	18.2
7/17/2021	412	3	7.75	20.6
8/27/2021	424	2	7.5	19.9
9/18/2021	380	3	8.25	20.7
10/22/2021	371	4	8	14.4
11/27/2021	358	3	8	6.6

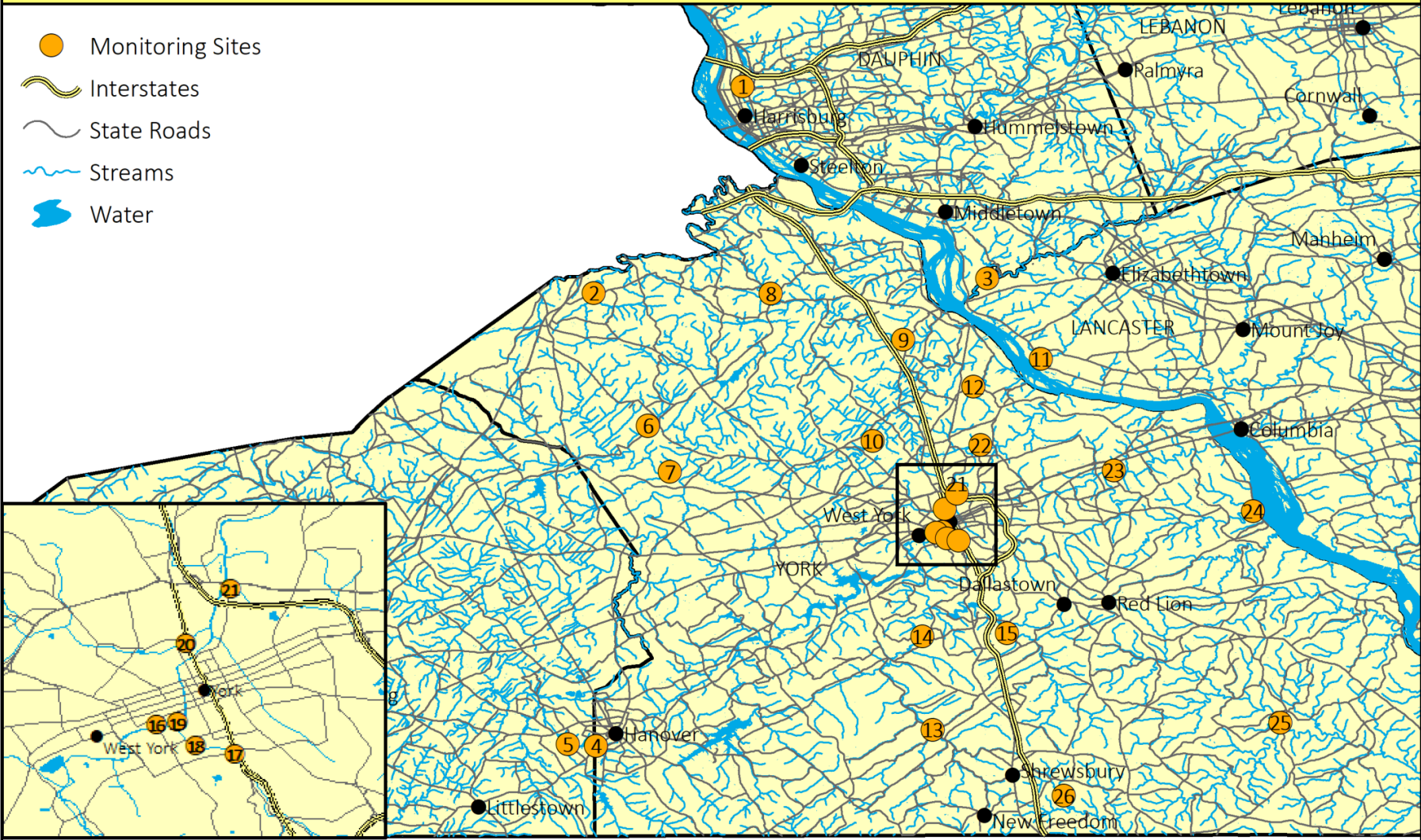
Summary Statistics

	Conductivity	Nitrate	pH	Water Temperature
Min	291	2	7.25	4.9
Max	822	8	8.25	20.7
Median	381	4	7.75	11.8

Supplemental Maps

Monitoring Site Locations

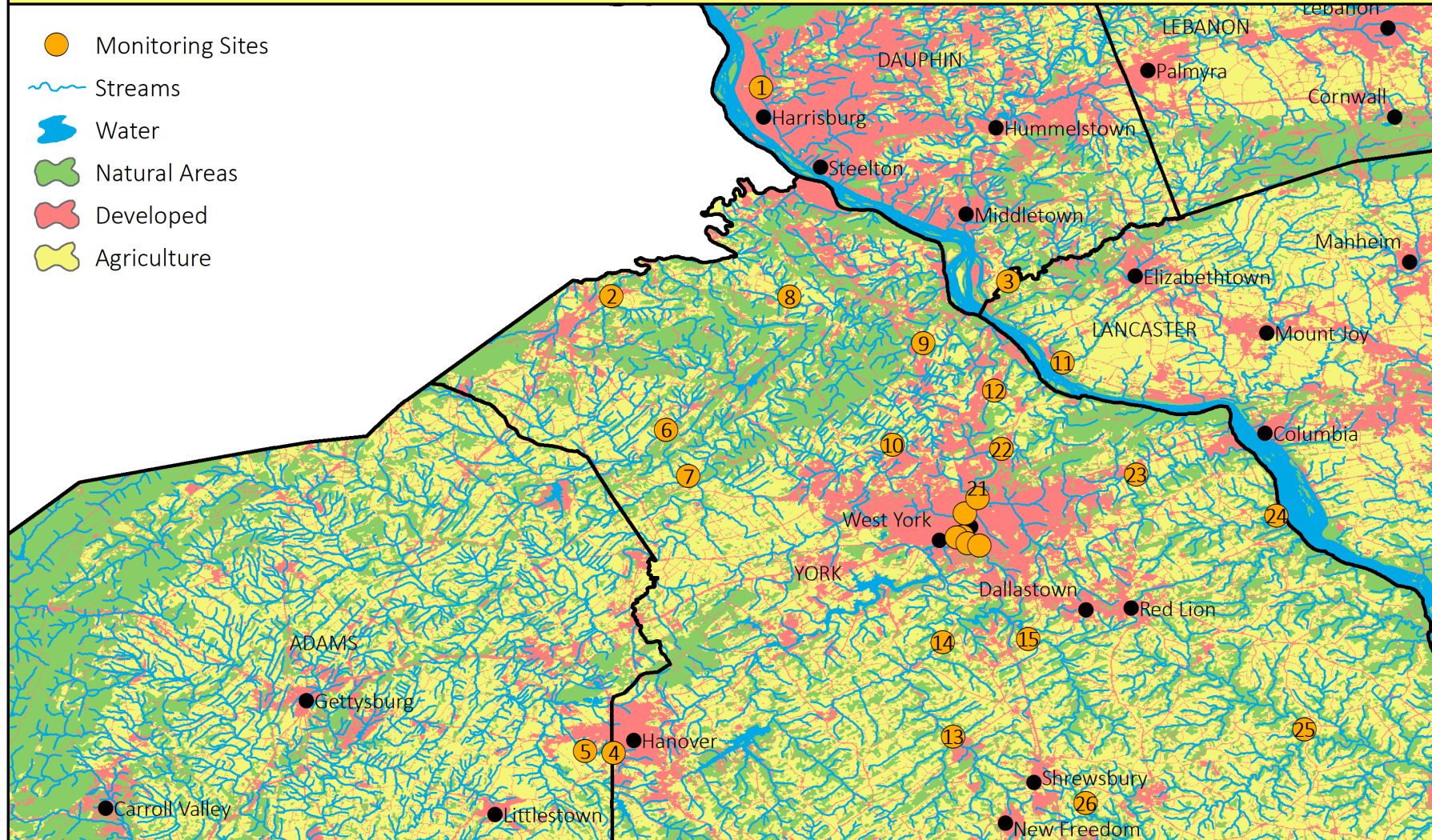
York Stream Team



Land Cover

York Stream Team

- Monitoring Sites
- Streams
- Water
- Natural Areas
- Developed
- Agriculture



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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022

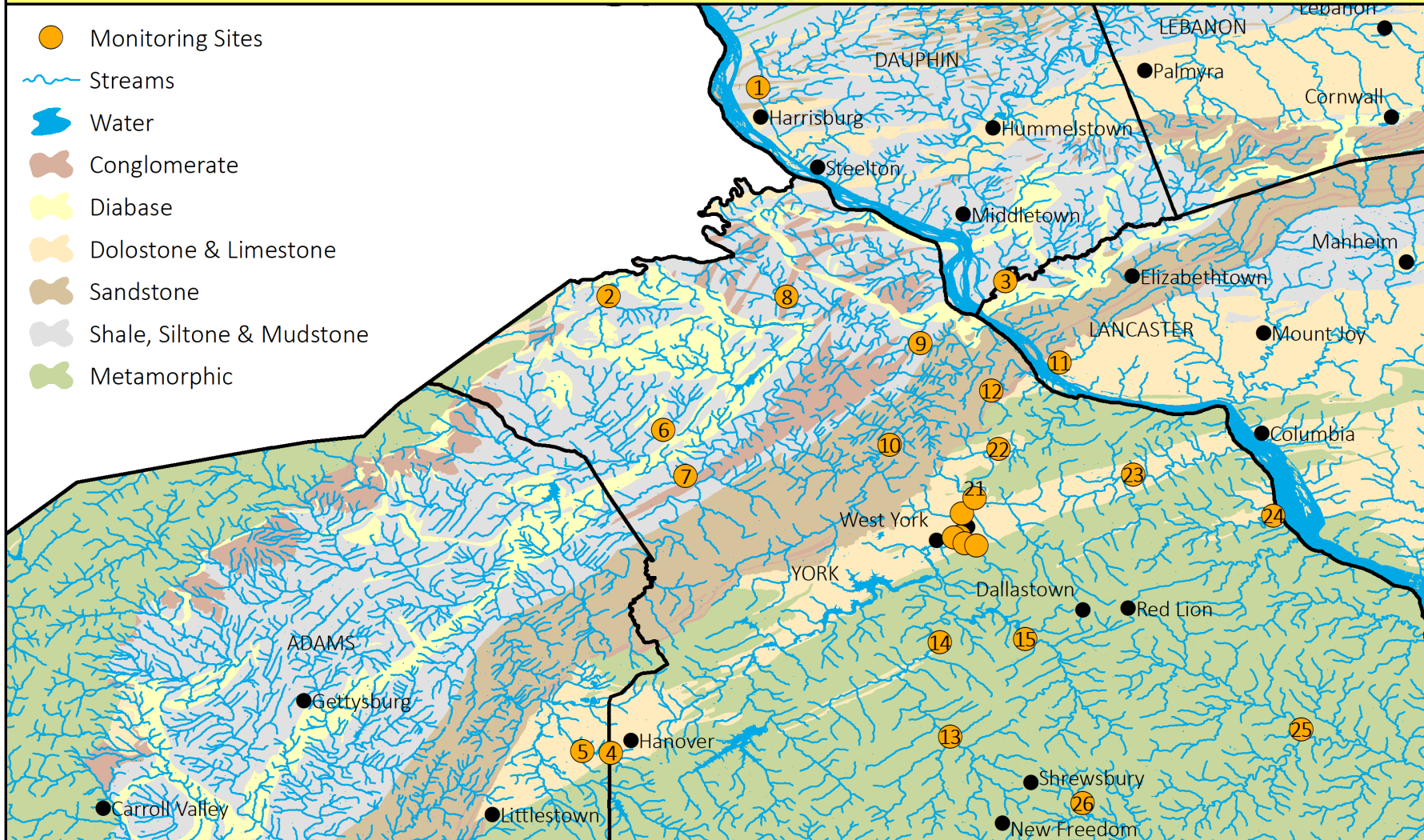


0 5 10 20 Miles

Geology

York Stream Team

-  Monitoring Sites
-  Streams
-  Water
-  Conglomerate
-  Diabase
-  Dolostone & Limestone
-  Sandstone
-  Shale, Siltone & Mudstone
-  Metamorphic



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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

Map created: April 2022

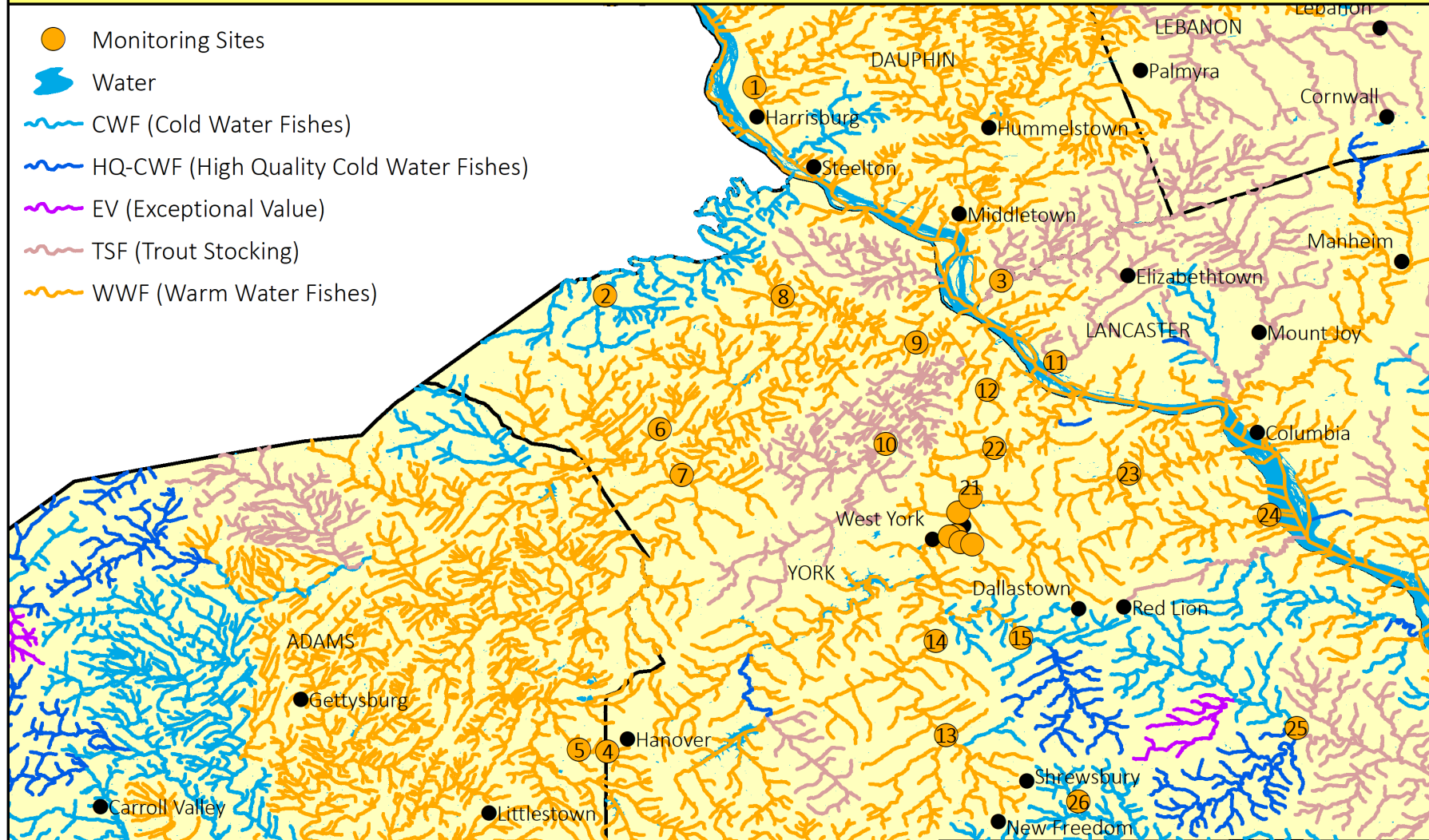


0 5 10 20 Miles

Stream Designated Uses

York Stream Team

-  Monitoring Sites
-  Water
-  CWF (Cold Water Fishes)
-  HQ-CWF (High Quality Cold Water Fishes)
-  EV (Exceptional Value)
-  TSF (Trout Stocking)
-  WWF (Warm Water Fishes)



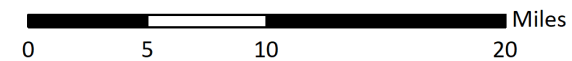
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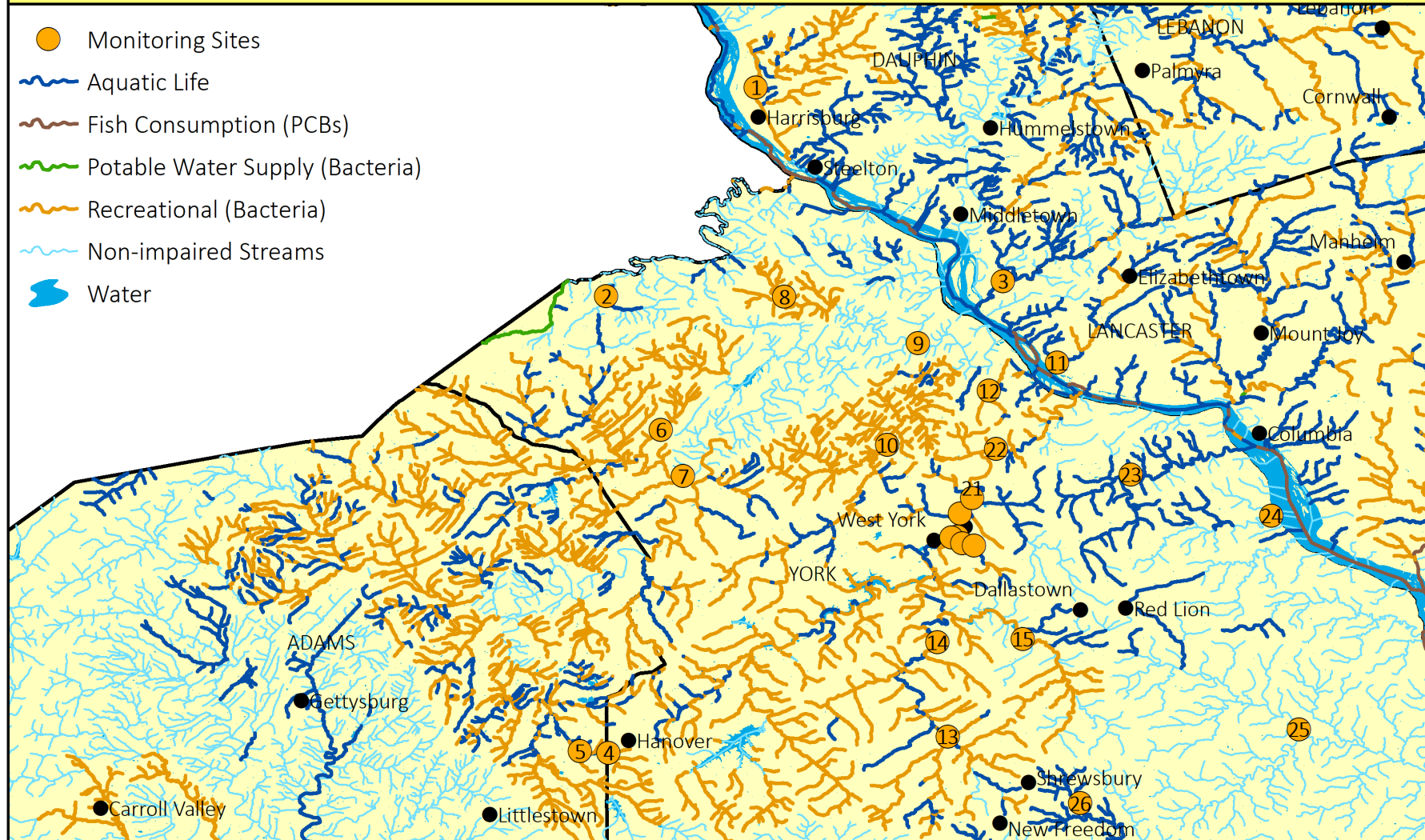
Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

Map created: April 2022



Impaired Streams

York Stream Team



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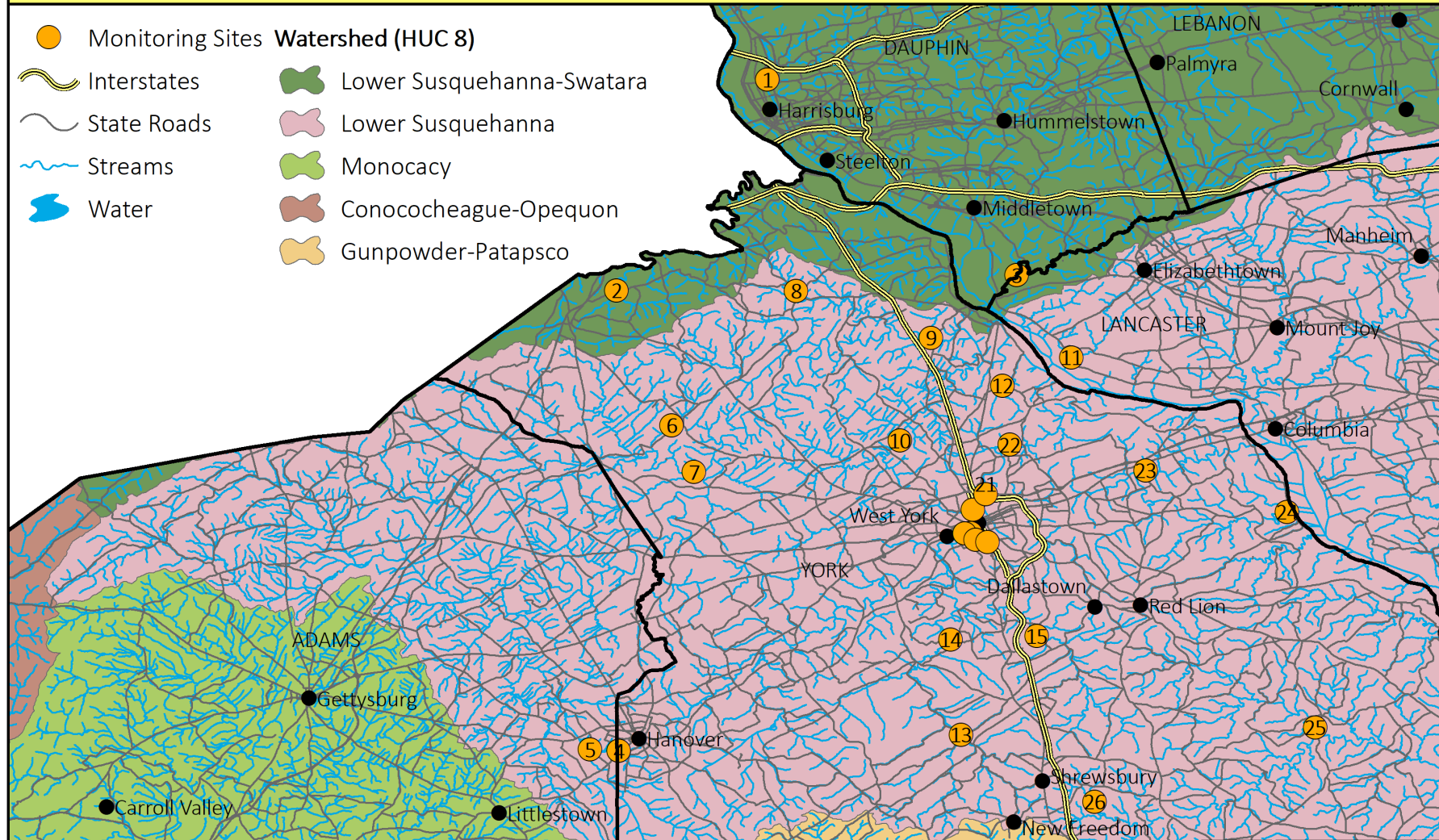
www.dickinson.edu/ALLARM

Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

Map created: April 2022

Subwatersheds

York Stream Team



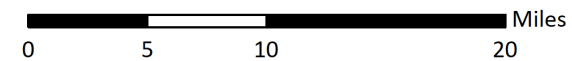
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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

Map created: April 2022



Thank you!

Stream Team | streamteam@dickinson.edu

Alliance for Aquatic Resource Monitoring (ALLARM)

dickinson.edu/ALLARM | [@ALLARMwater](https://twitter.com/ALLARMwater) |

717.245.1565



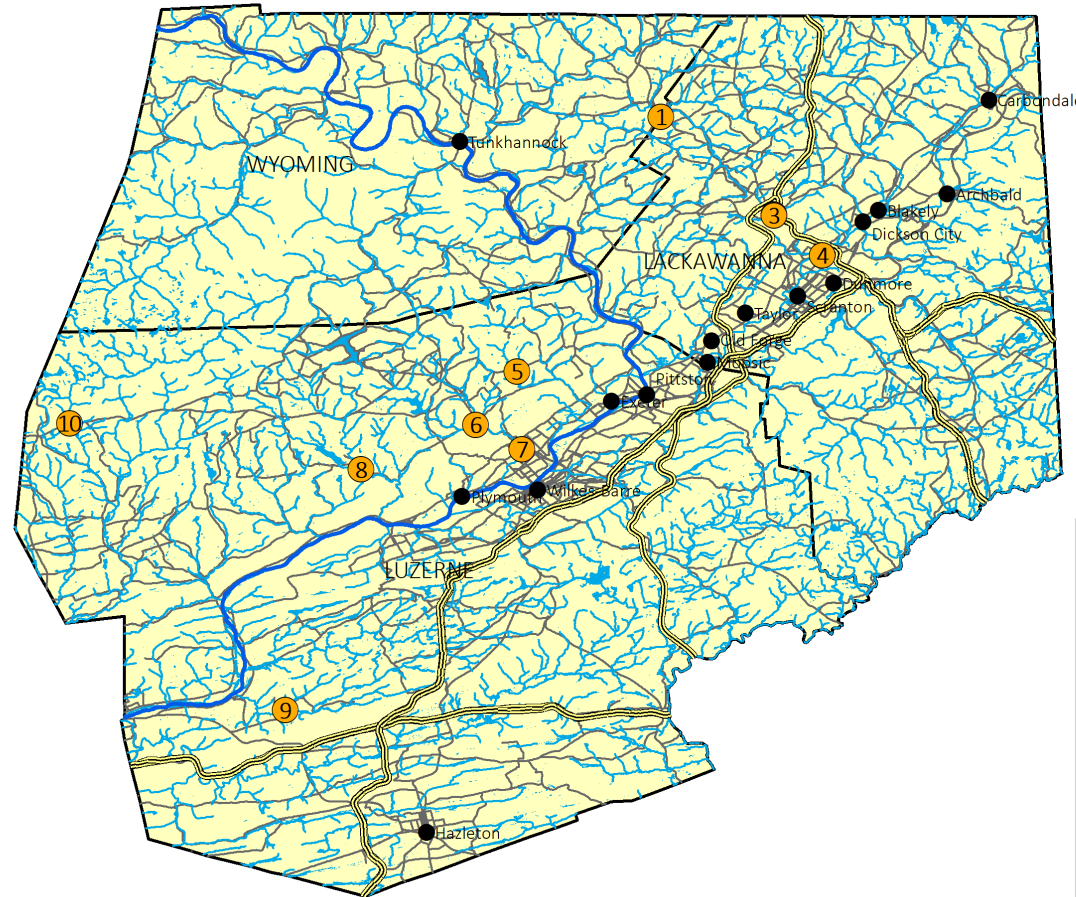
Dickinson

Lackawanna-Luzerne Stream Team Data Interpretation Workbook



Site Locations

Monitoring Site Locations Lackawanna-Luzerne Stream Team



- Monitoring Sites
- Towns
- Interstates
- State Roads
- Susquehanna River
- Streams
- Water

Site #	Site ID	Stream Name
1	TUNCRE13.8	Tunkhannock Creek
2	LEGCRE 18.30	Leggetts Creek
3	LEGCRE 12.92	Leggetts Creek
4	LACRIV 14.3	Lackawanna River
5	ABRCRE 8.79	Abrahams Creek
6	HUNCRE 5.30	Huntsville Creek
7	TOBCRE 2.39	Tobys Creek
8	HARCRE 5.42	Harveys Creek
9	WAPCRE 3.87	Wapwallopen Creek
10	KITCRE 5.67	Kitchen Creek



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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022



0 5 10 20 Miles

Lackawanna

Site Profiles

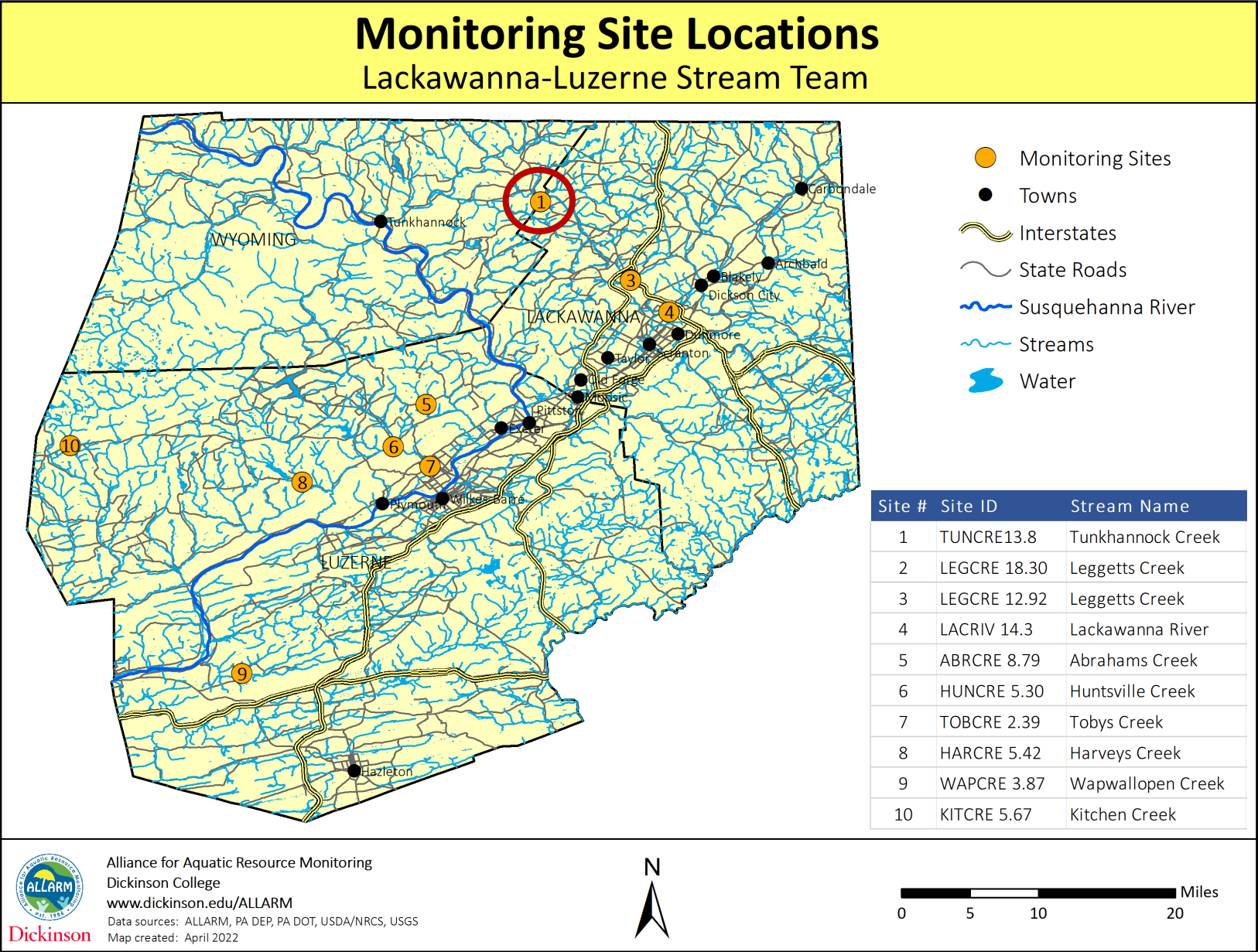
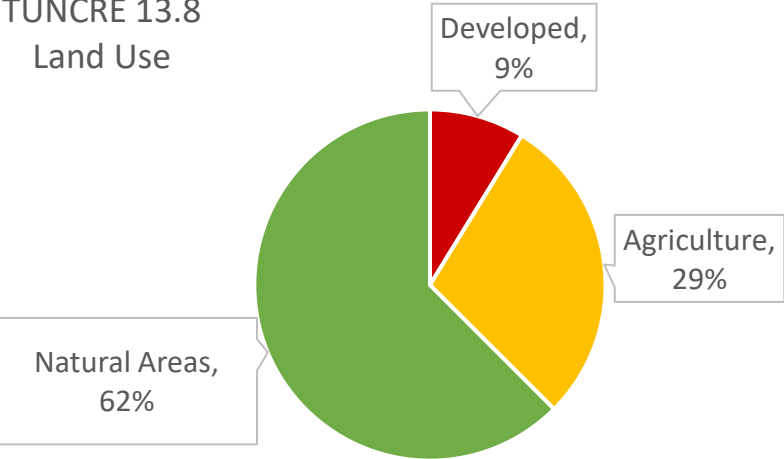
Tunkhannock Creek (TUNCRE 13.8)

Monitor(s): Janet Crowther & Lexie Kelly

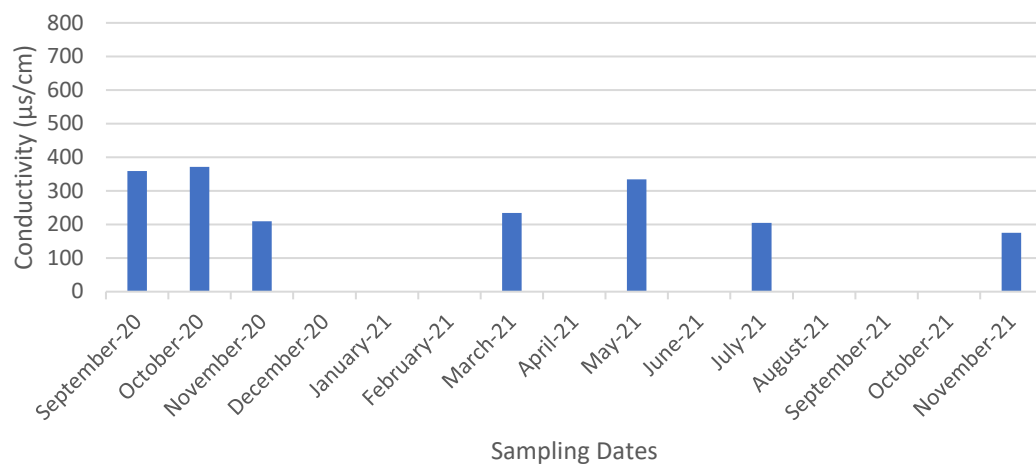
Site information:

- Drains 68 mi²
- Impaired: No
- Designation: Trout Stocking (TSF)
- Geology: Non-carbonate (100%)

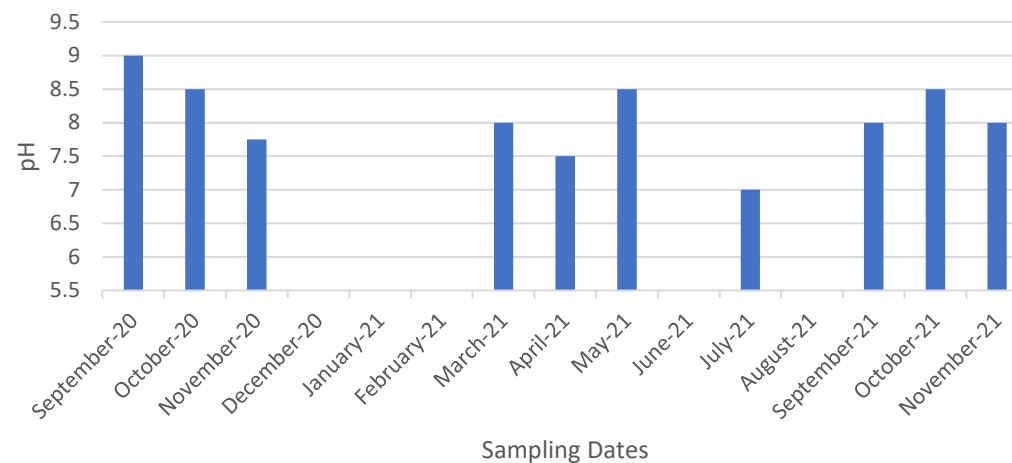
TUNCRE 13.8
Land Use



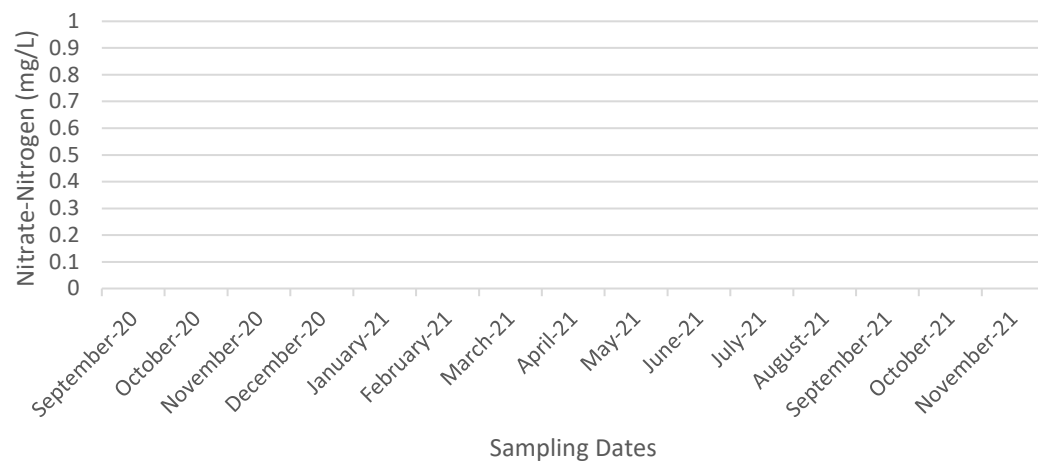
TUNCRE 13.8 -- Conductivity



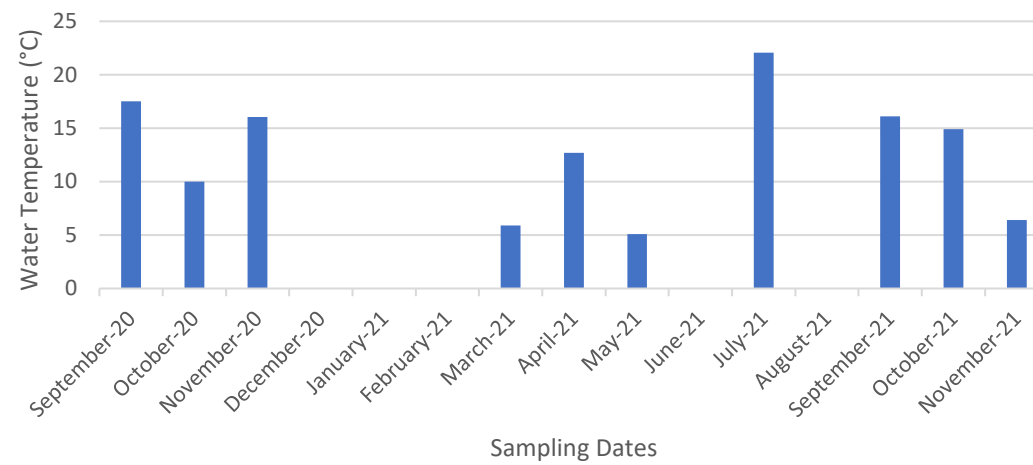
TUNCRE 13.8 -- pH



TUNCRE 13.8 -- Nitrate-Nitrogen



TUNCRE13.8 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
9/25/20	359	0	9	17.5
10/18/20	371	0	8.5	10
11/22/20	209	0	7.75	16.1
3/19/21	234	0	8	5.9
4/18/21		0	7.5	12.7
5/14/21	334	0	8.5	5.1
7/14/21	205	0	7	22.1
9/17/21		0	8	16.1
10/25/21		0	8.5	14.9

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	174.9	0	7	5.1
Max	371	0	9	22.1
Median	234	0	8	13.8

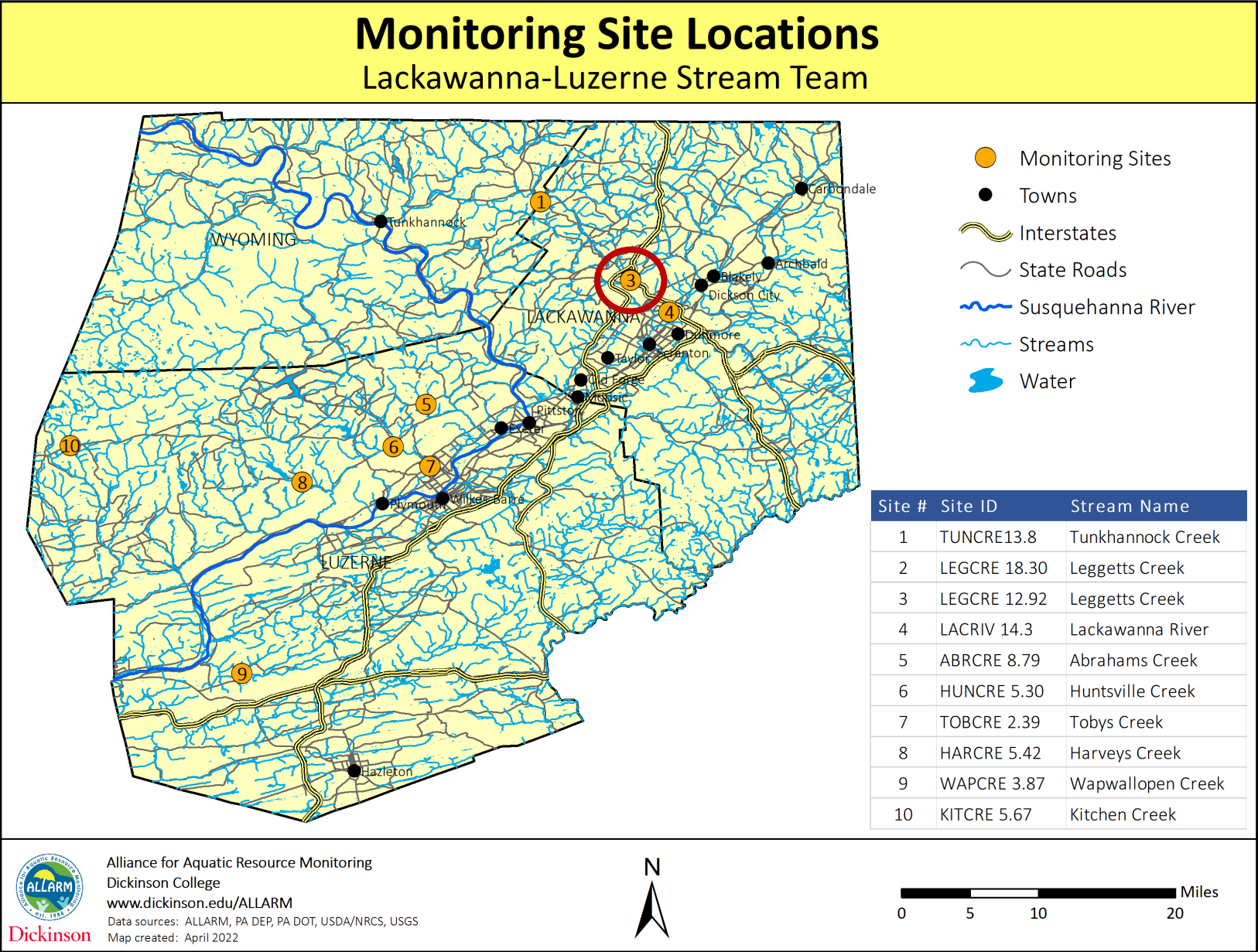
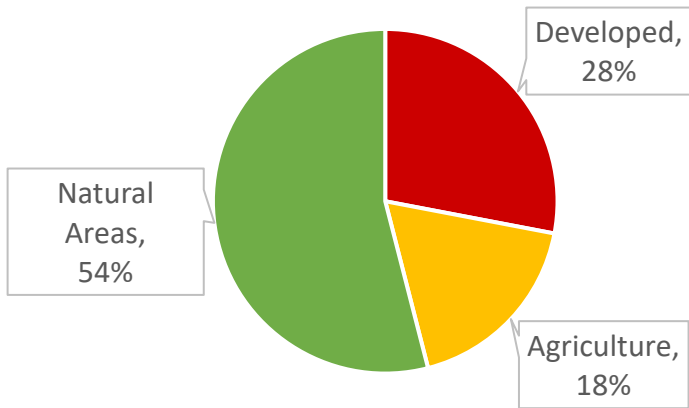
Leggetts Creek 2 (LEGCRE 18.3)

Monitor(s): Paul Bechtel & Janet Sweeney

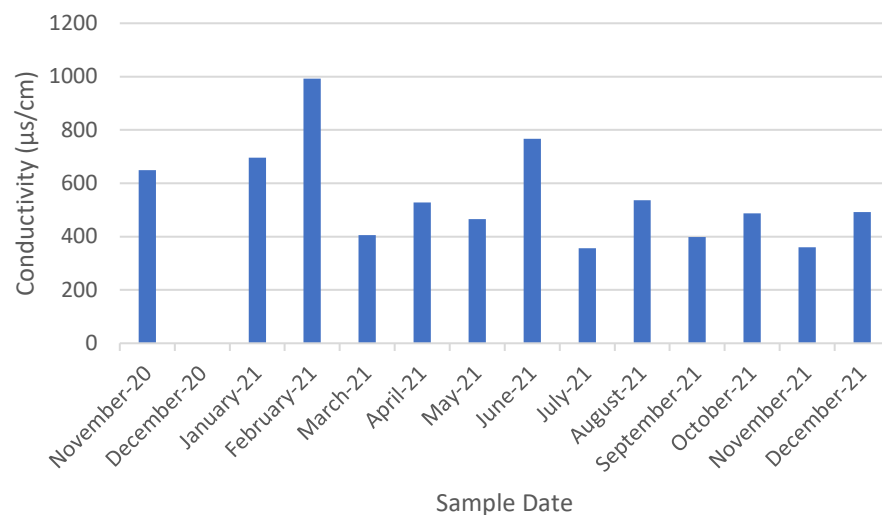
Site information:

- Drains 8 mi²
- Impaired: yes, aquatic life, urban runoff- siltation
- Designation: Cold Water Fishes (CWF)
- Geology: Non-carbonate (100%)

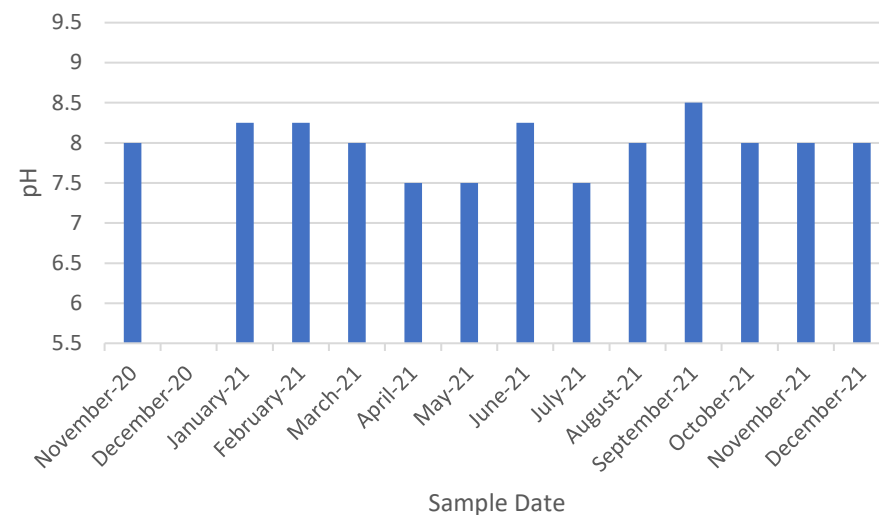
LEGCRE 18.30
Land use



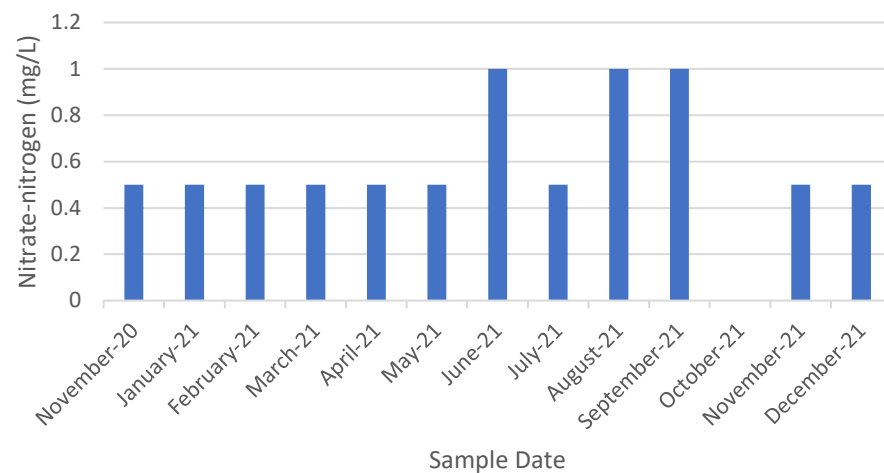
LEGCRE 18.3 -- Conductivity



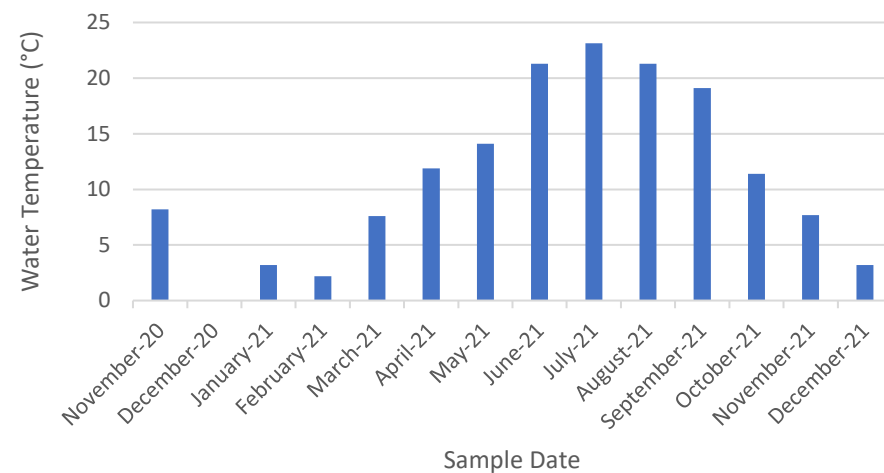
LEGCRE 18.3 -- pH



LEGCRE 18.3 -- Nitrate-Nitrogen



LEGCRE 18.3 --Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
11/21/20	649	0.5	8	8.2
1/17/21	696	0.5	8.25	3.2
2/21/21	992	0.5	8.25	2.2
3/20/21	406	0.5	8	7.6
4/19/21	528	0.5	7.5	11.9
5/16/21	466	0.5	7.5	14.1
6/20/21	767	1	8.25	21.3
7/17/21	356	0.5	7.5	23.15
8/22/21	536	1	8	21.3
9/19/21	399	1	8.5	19.1
10/24/21	487	0	8	11.4
11/21/21	360	0.5	8	7.7
12/19/21	492	0.5	8	3.2

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	356	0	7.5	2.2
Max	992	1	8.5	23.2
Median	492	0.5	8	11.4

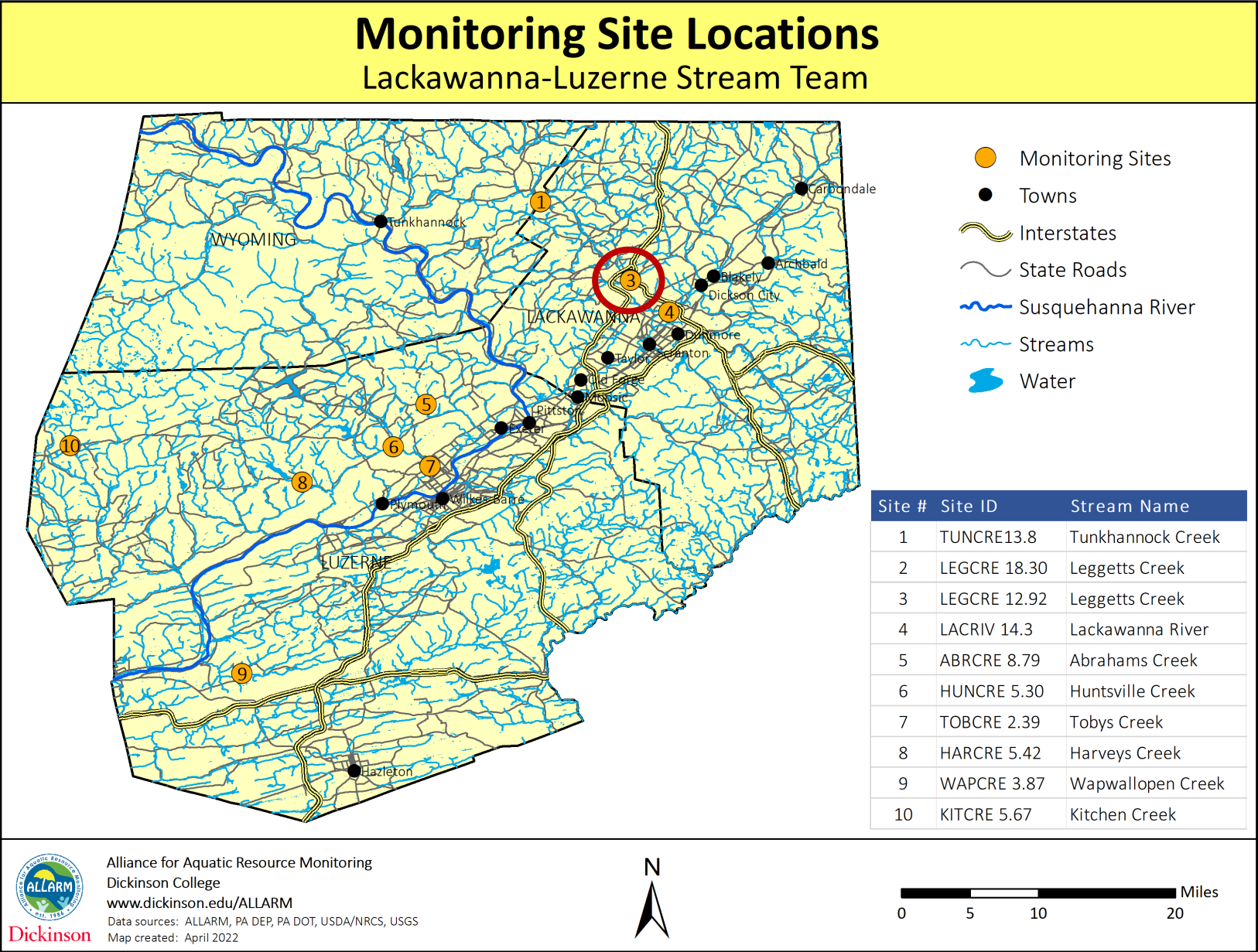
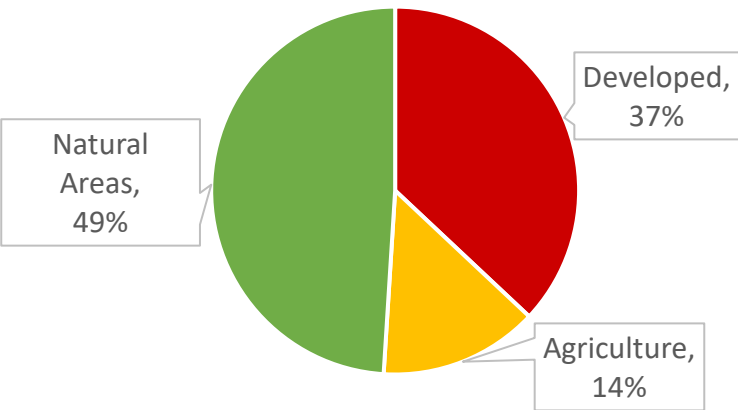
Leggetts Creek 1 (LEGCRE 12.92)

Monitor(s): Paul Bechtel & Janet Sweeney

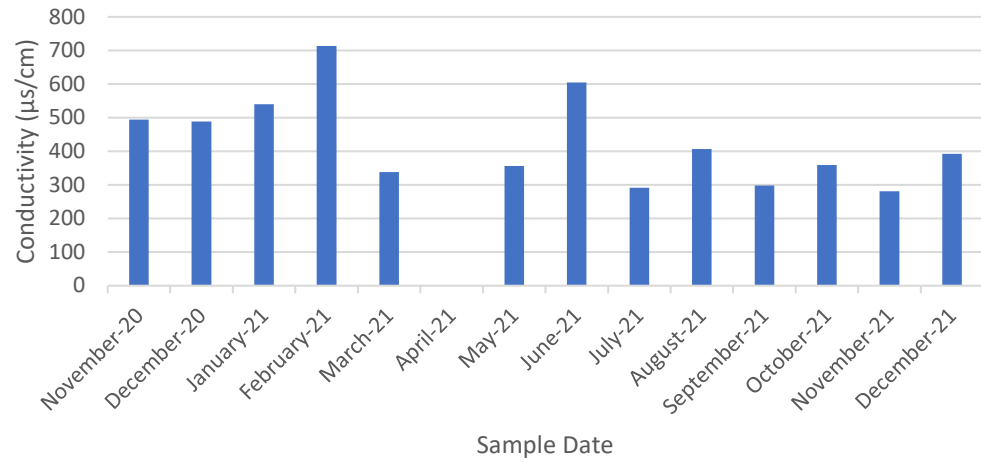
Site information:

- Drains 12 mi²
- Impaired: yes, aquatic life, urban runoff- siltation
- Designation: Trout stocking (TSF)
- Geology: Non-carbonate (100%)

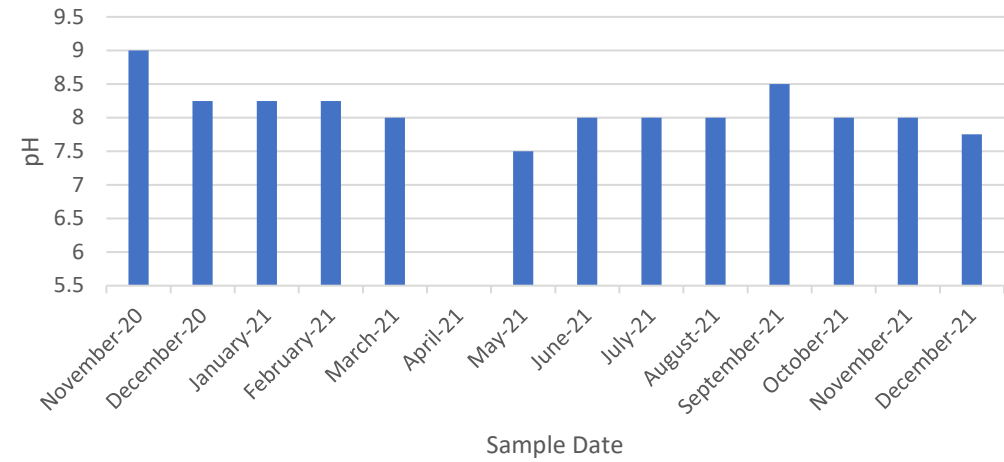
LEGCRE 12.92
Land Use



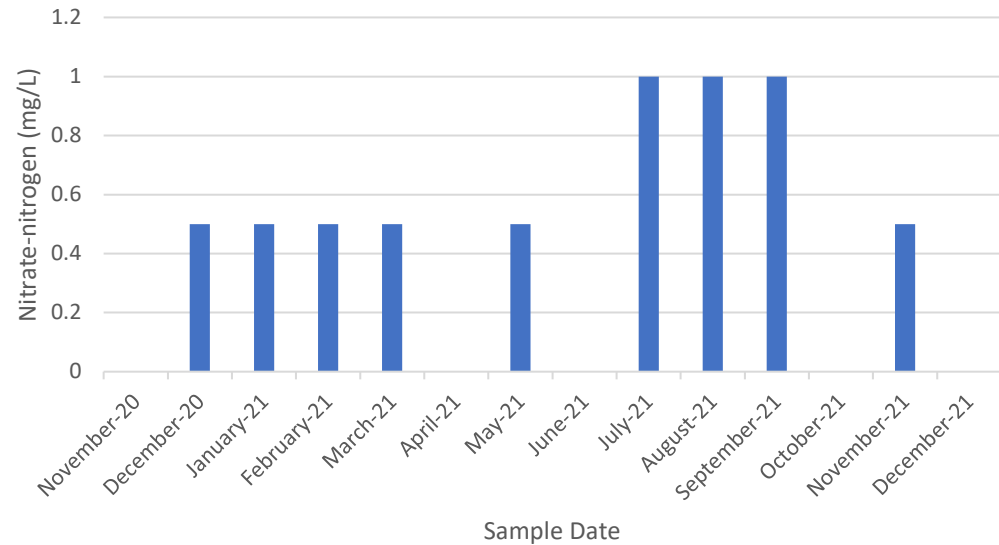
LEGCRE 12.92 -- Conductivity



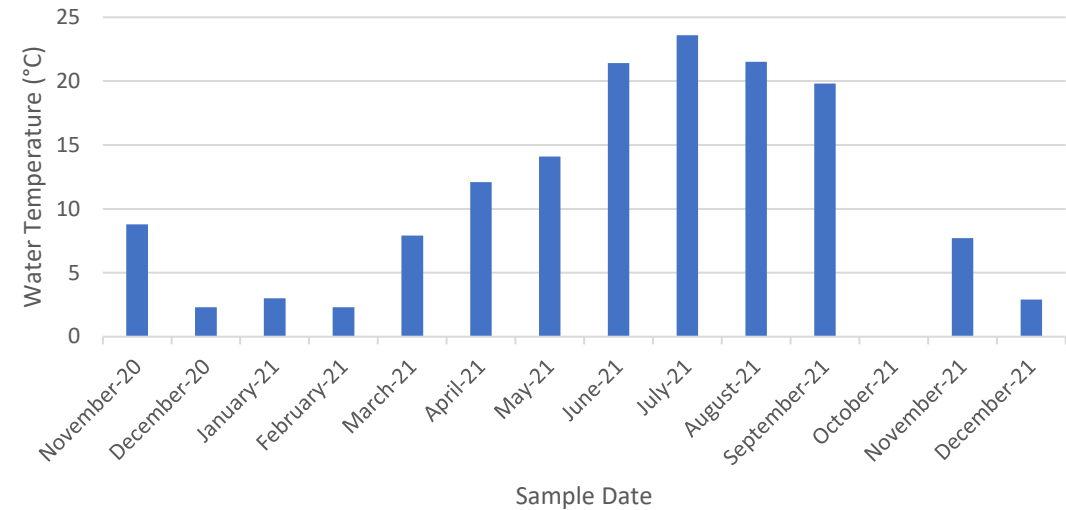
LEGCRE 12.92 -- pH



LEGCRE 12.92 -- Nitrate-Nitrogen



LEGCRE 12.92 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
11/21/20	649	0.5	8	8.2
1/17/21	696	0.5	8.25	3.2
2/21/21	992	0.5	8.25	2.2
3/20/21	406	0.5	8	7.6
4/19/21	528	0.5	7.5	11.9
5/16/21	466	0.5	7.5	14.1
6/20/21	767	1	8.25	21.3
7/17/21	356	0.5	7.5	23.15
8/22/21	536	1	8	21.3
9/19/21	399	1	8.5	19.1
10/24/21	487	0	8	11.4
11/21/21	360	0.5	8	7.7
12/19/21	492	0.5	8	3.2

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	356	0	7.5	2.2
Max	992	1	8.5	23.2
Median	492	0.5	8	11.4

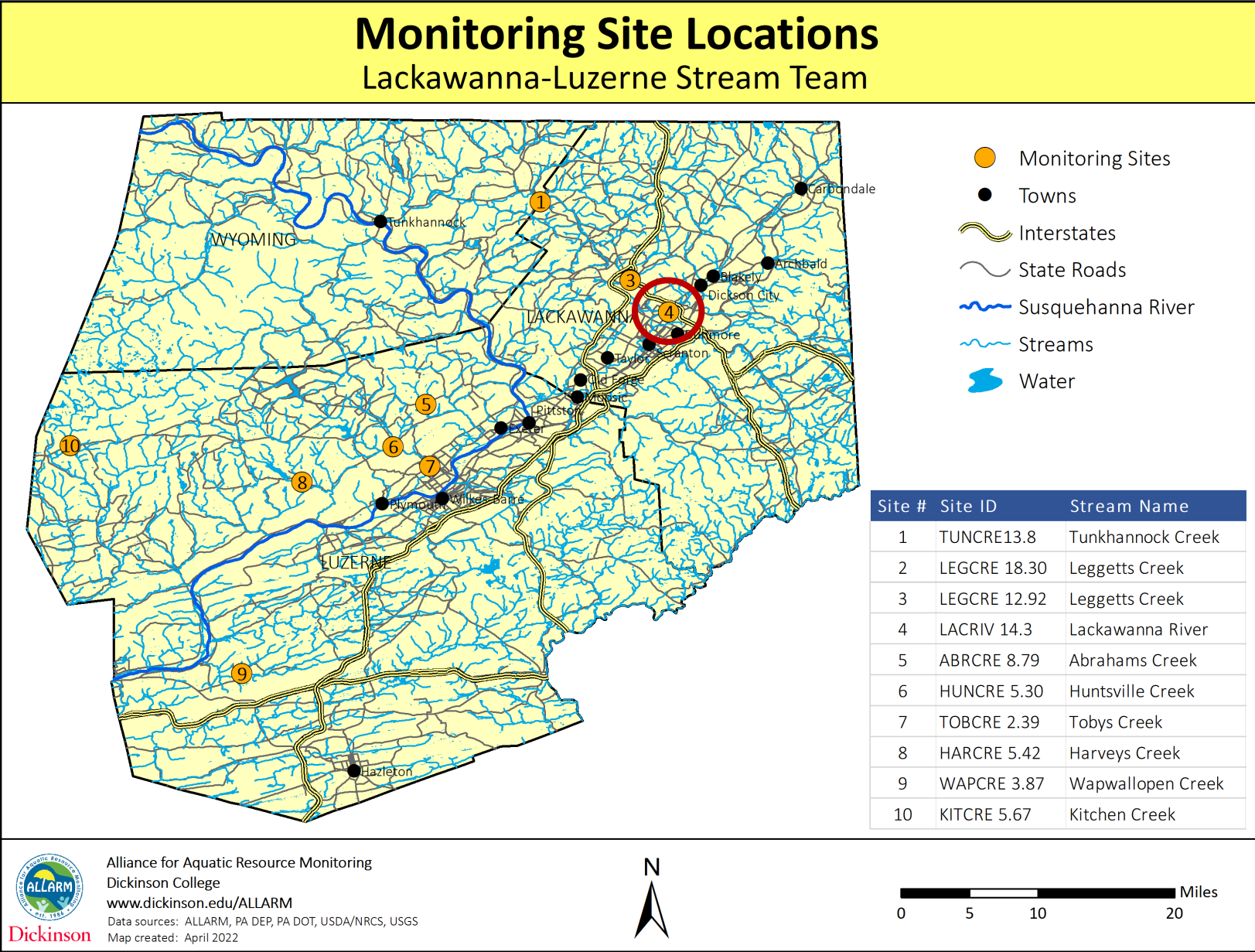
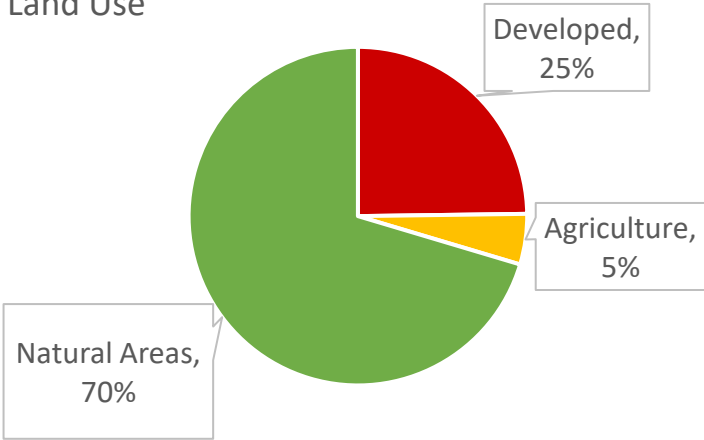
Lackawanna River (LACRIV 14.3)

Monitor(s): Barb Semian, Kathy Celli, Paul Davis

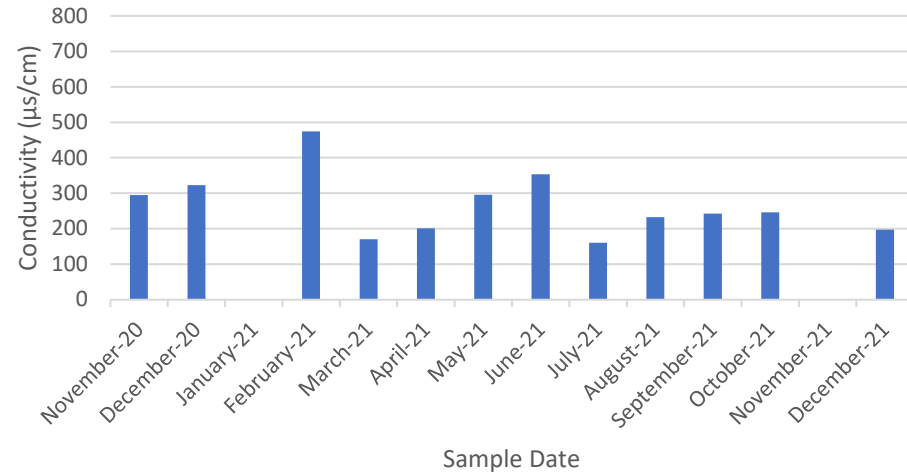
Site information:

- Drains 110 mi²
- Impaired: yes, recreational, urban runoff, sewer overflow, pathogens
- Designation: Cold Water Fishes (CWF)
- Geology: Non-carbonate (100%)

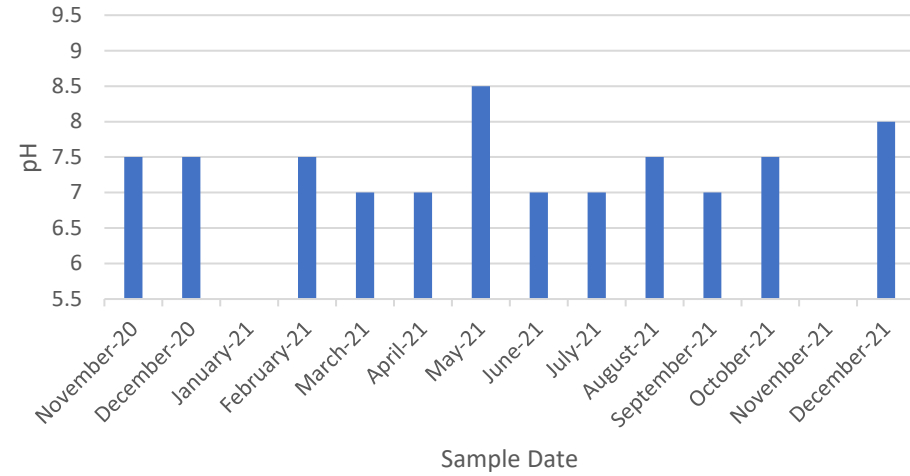
LACRIV 14.3
Land Use



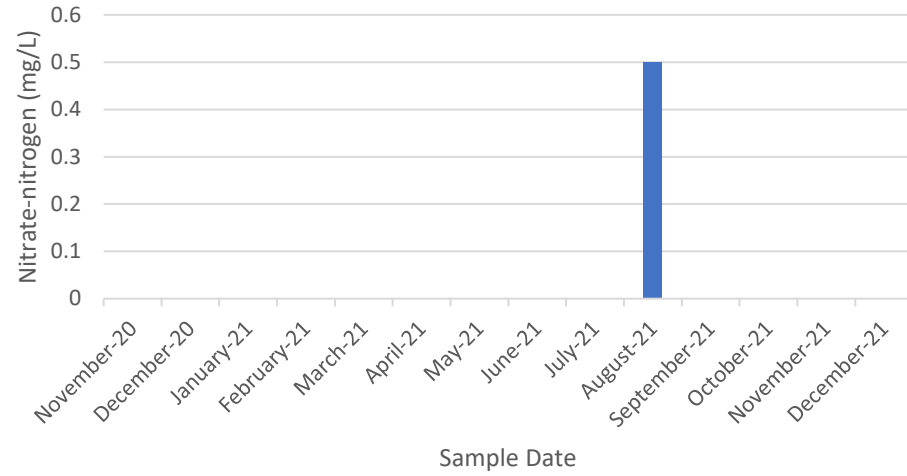
LACRIV 14.3 -- Conductivity



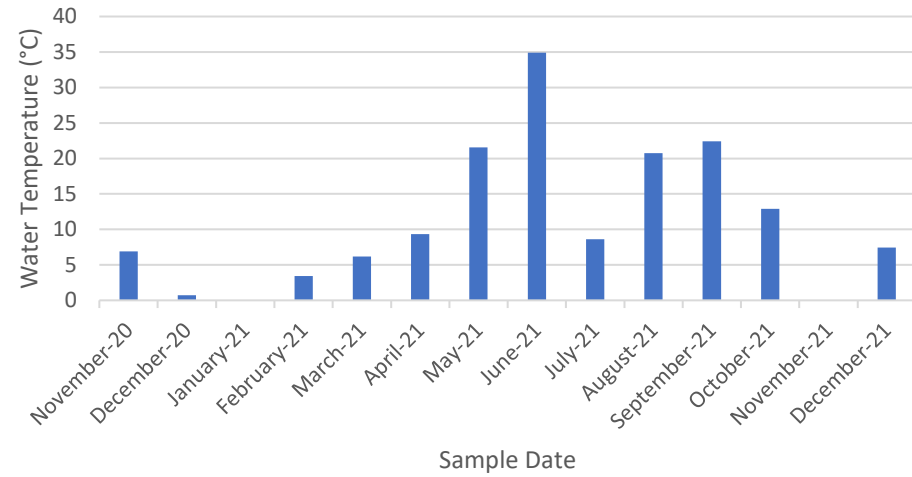
LACRIV 14.3 -- pH



LACRIV 14.3 -- Nitrate-nitrogen



LACRIV 14.3 --Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
11/22/20	295	0	7.5	6.9
12/19/20	323	0	7.5	0.7
2/20/21	474	0	7.5	3.4
3/20/21	170	0	7	6.15
4/17/21	201	0	7	9.35
5/27/21	296	0	8.5	21.55
6/20/21	353	0	7	34.9
7/18/21	160.3	0	7	8.6
8/31/21	232	0.5	7.5	20.75
9/20/21	242	0	7	22.4
10/25/21	246	0	7.5	12.9
12/17/21	197.2	0	8	7.45

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	160.3	0	7	0.7
Max	474	0.5	8.5	34.9
Median	244	0	7.5	9

Luzerne

Site Profiles

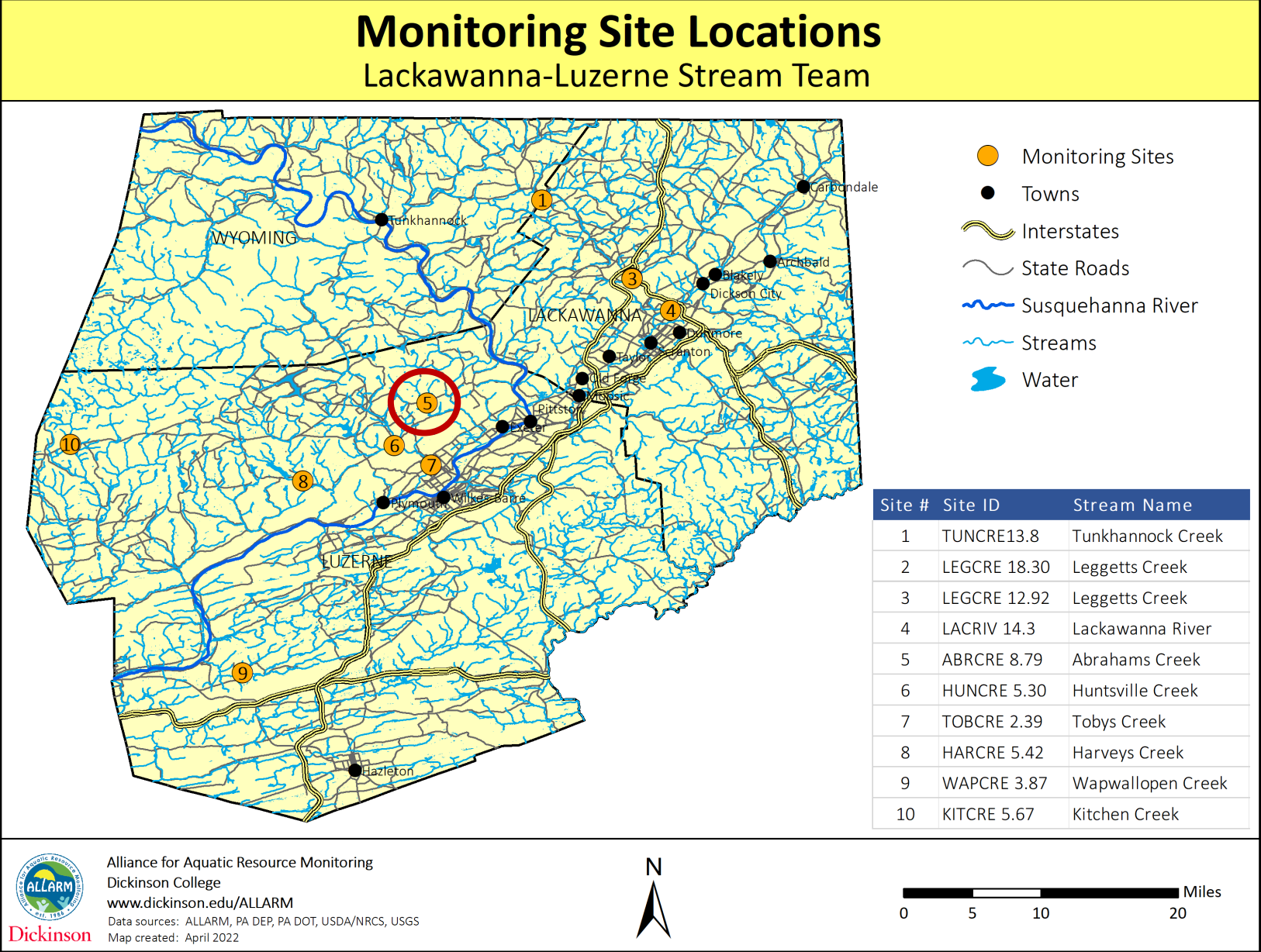
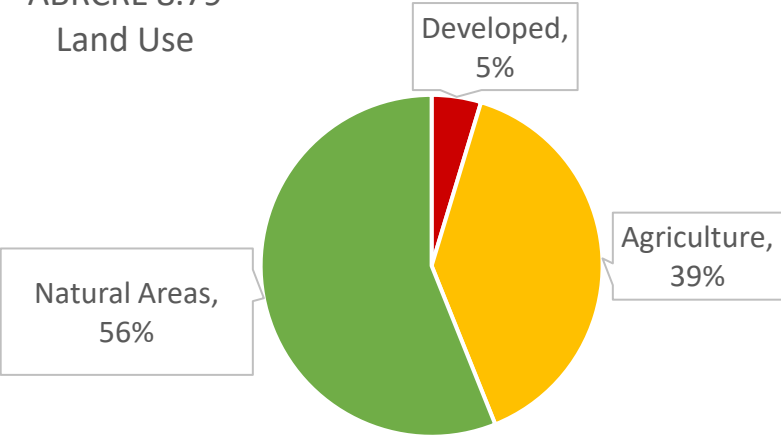
Abrahams Creek (ABRCRE 8.79)

Monitor(s): Christine & Joe Boyle

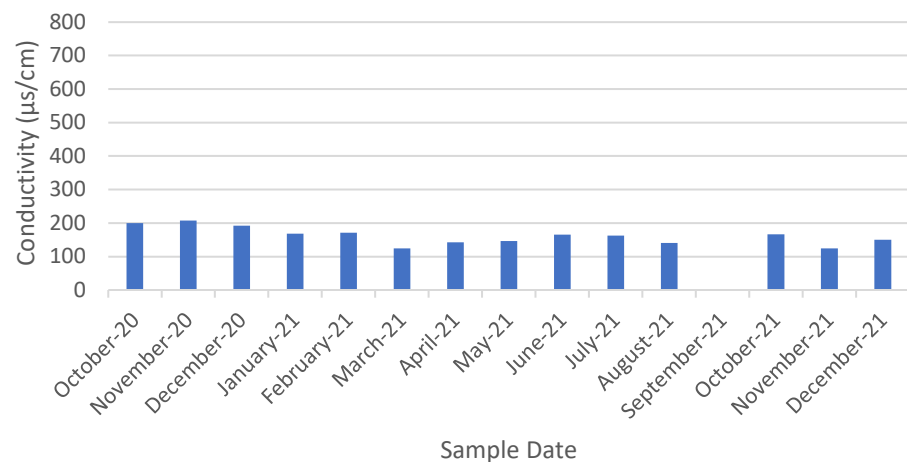
Site information:

- Drains 3 mi²
- Impaired: No
- Designation: Cold Water Fishes (CWF)
- Geology: Non-carbonate (100%)

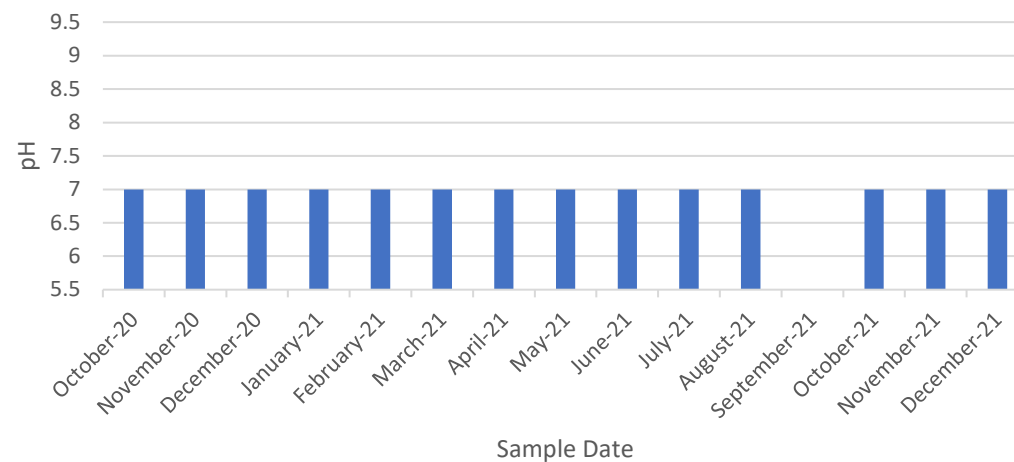
ABRCRE 8.79
Land Use



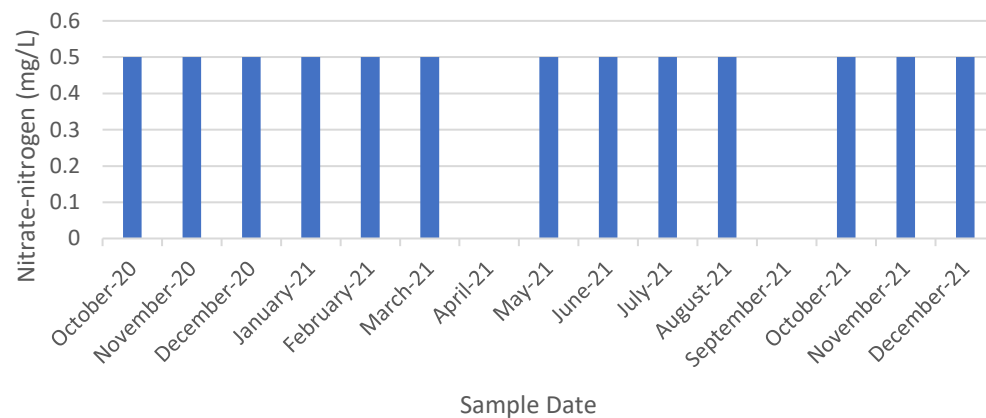
ABRCRE 8.79- Conductivity



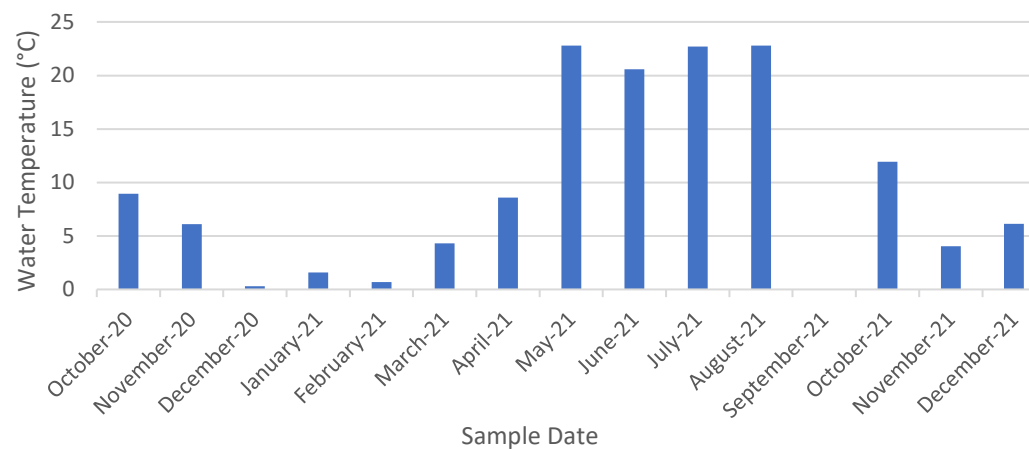
ABRCRE 8.79- pH



ABRCRE-8.79 Nitrate-Nitrogen



ABRCRE 8.79- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
10/17/2020	199.7	0.5	7	9.0
11/21/2020	208	0.5	7	6.1
12/19/2020	192.7	0.5	7	0.3
1/23/2021	168	0.5	7	1.6
2/21/2021	171.3	0.5	7	0.7
3/21/2021	124.6	0.5	7	4.3
4/17/2021	142.5	0	7	8.6
5/23/2021	146.5	0.5	7	22.8
6/20/2021	165.4	0.5	7	20.6
7/14/2021	162.7	0.5	7	22.7
8/20/2021	140.7	0.5	7	22.8
10/25/2021	166.4	0.5	7	12.0
11/20/2021	124.3	0.5	7	4.1
12/17/2021	150.15	0.5	7	6.52

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	124.3	0	7	0.3
Max	208	0.5	7	22.8
Median	164.1	0.5	7	7.4

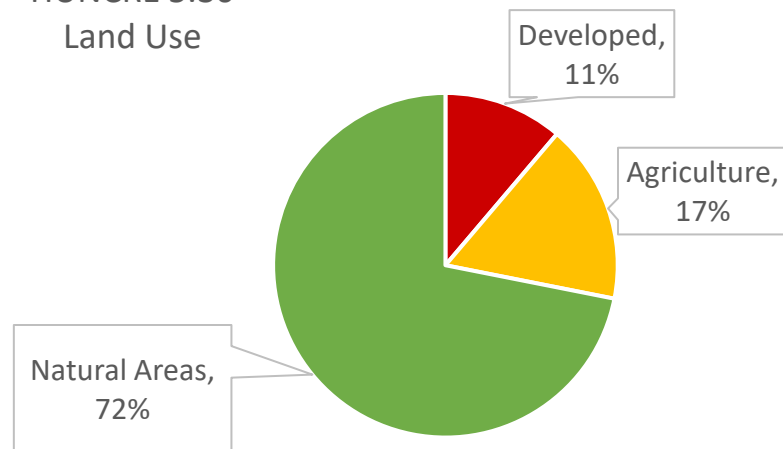
Huntsville Creek (HUNCRE 5.30)

Monitor(s): Christine McCarthy & Megan Prynn

Site information:

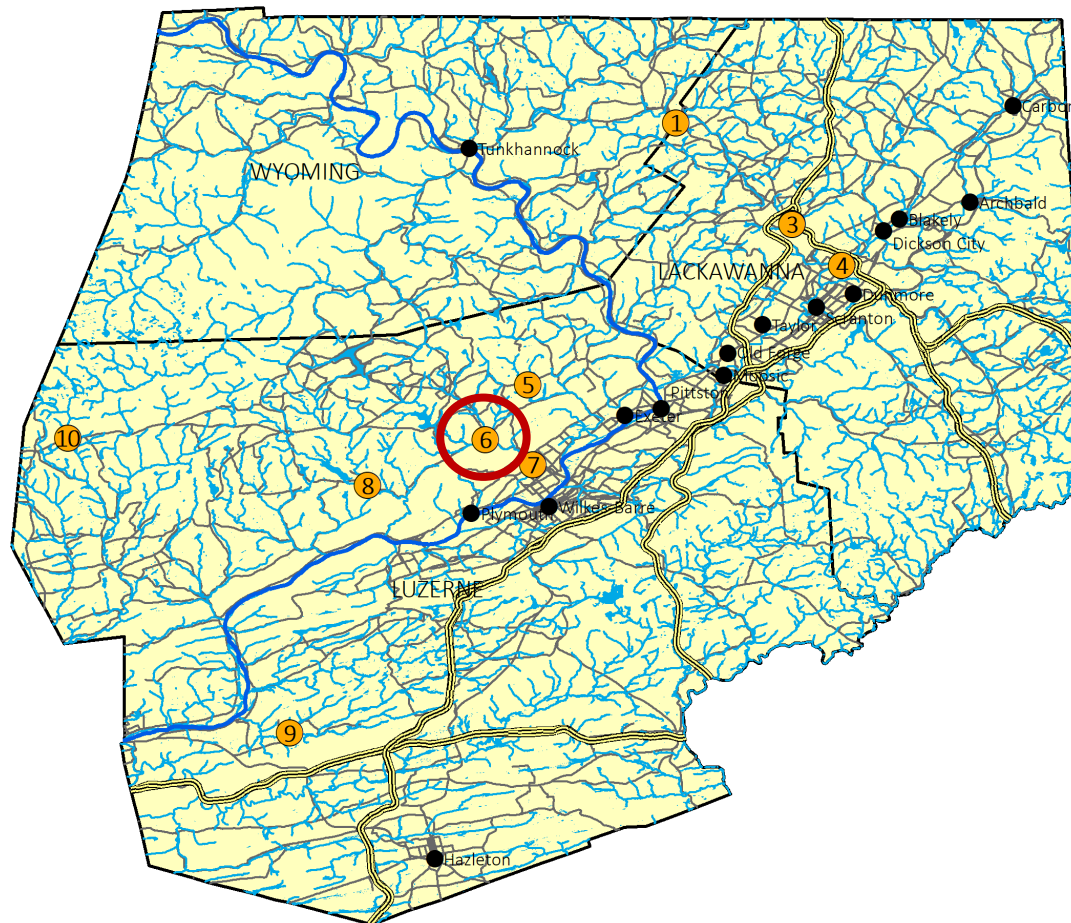
- Drains 15 mi²
- Impaired: No
- Designation: Cold Water Fishes (CWF)
- Geology: Non-carbonate (100%)

HUNCRE 5.30
Land Use



Monitoring Site Locations

Lackawanna-Luzerne Stream Team



- Monitoring Sites
- Towns
- Interstates
- State Roads
- Susquehanna River
- Streams
- Water

Site #	Site ID	Stream Name
1	TUNCRE13.8	Tunkhannock Creek
2	LEGCRC 18.30	Leggetts Creek
3	LEGCRC 12.92	Leggetts Creek
4	LACRIV 14.3	Lackawanna River
5	ABRCRC 8.79	Abrahams Creek
6	HUNCRE 5.30	Huntsville Creek
7	TOBCRC 2.39	Tobys Creek
8	HARCRC 5.42	Harveys Creek
9	WAPCRC 3.87	Wapwallopen Creek
10	KITCRC 5.67	Kitchen Creek



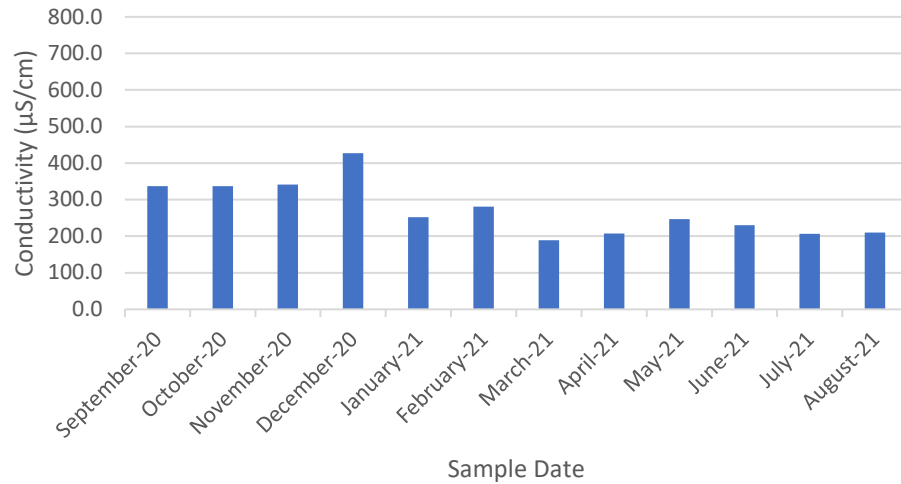
Dickinson

Alliance for Aquatic Resource Monitoring
Dickinson College
www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022

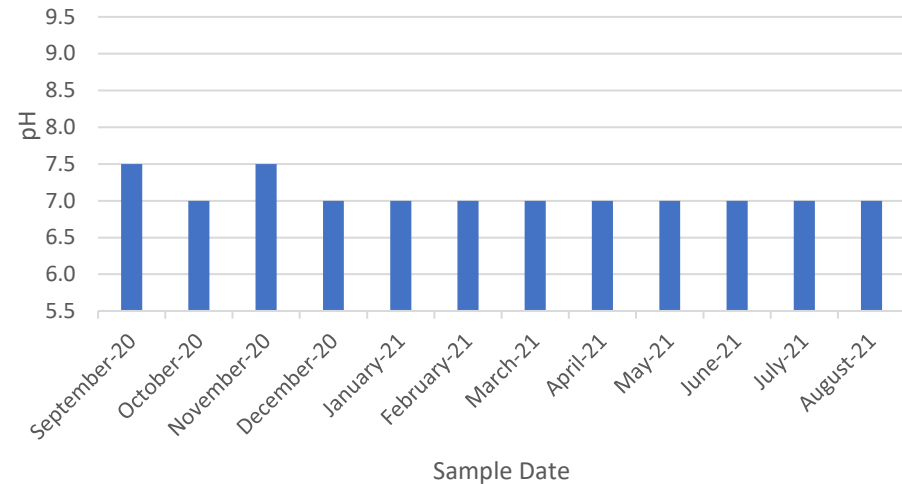


0 5 10 20 Miles

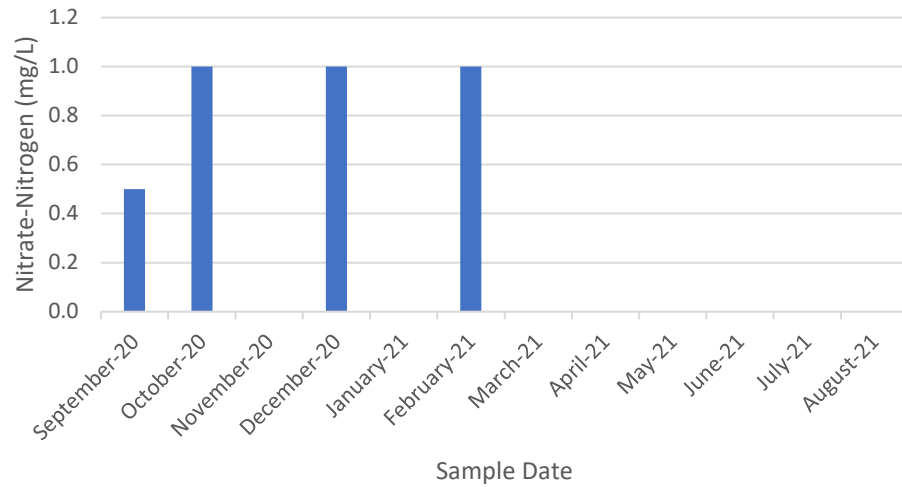
HUNCRE 5.30 -- Conductivity



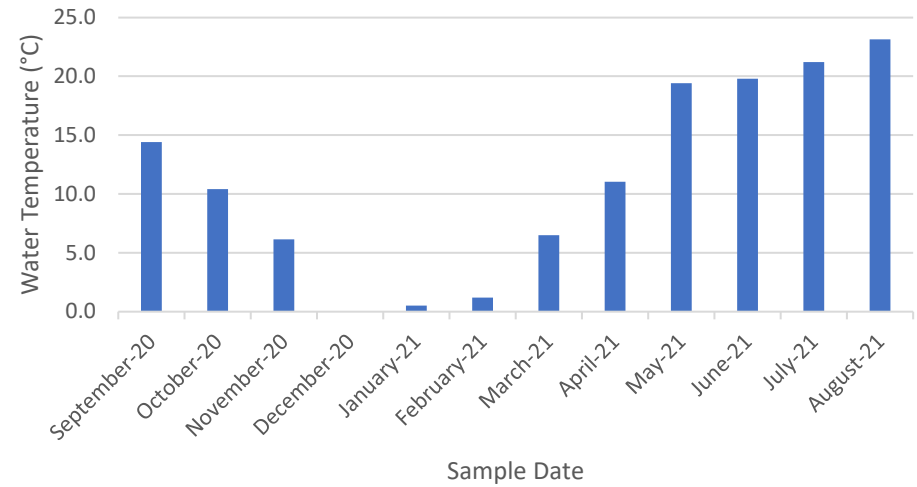
HUNCRE 5.30 -- pH



HUNCRE 5.30 -- Nitrate-Nitrogen



HUNCRE 5.30 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
9/19/20	337	0.5	7.5	14.4
10/18/20	337	1.0	7	10.4
11/22/20	341	0.0	7.5	6.2
12/19/20	427	1.0	7	
1/24/21	252	0.0	7	0.5
2/21/21	281	1.0	7	1.2
3/21/21	189.3	0.0	7	6.5
4/18/21	207	0.0	7	11.1
5/23/21	247	0.0	7	19.4
6/20/21	230	0.0	7	19.8
7/18/21	206	0.0	7	21.2
8/21/21	210	0.0	7	23.2

Summary Statistics

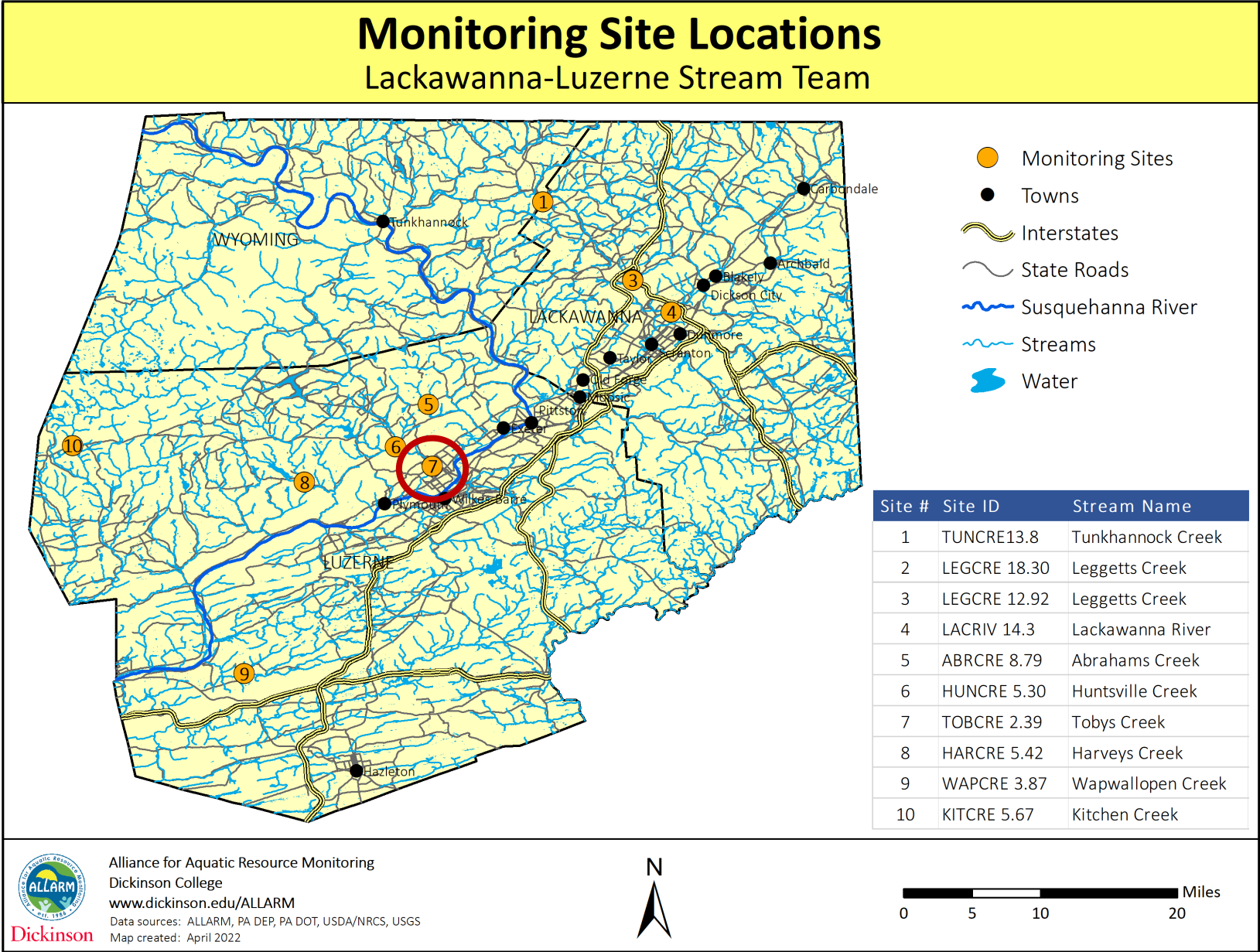
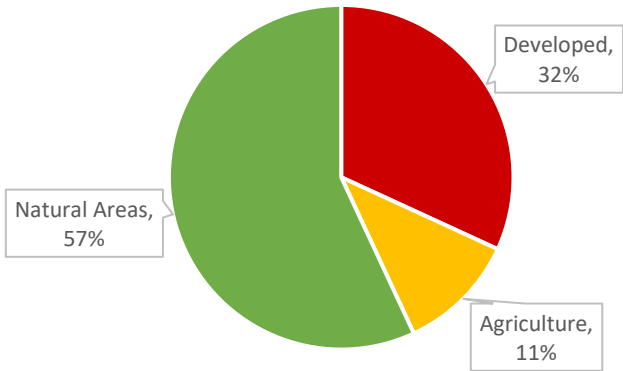
	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	189.3	0.0	7	0.5
Max	427	1.0	7.5	23.2
Median	249	0.0	7	11.1

Tobys Creek (TOBCRE 2.39)
Monitor(s): Cosima Wiese & Michele Shasberger

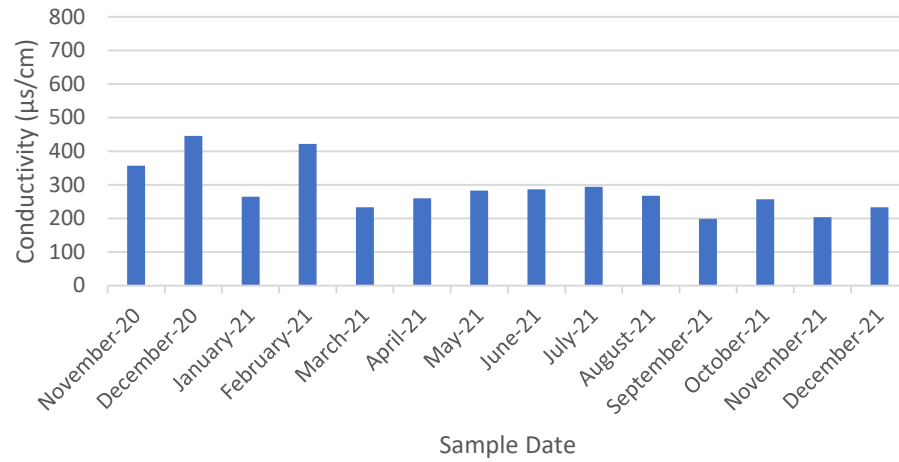
Site information:

- Drains 18 mi²
- Impaired: No
- Designation: Trout Stocking (TSF)
- Geology: Non-carbonate (100%)

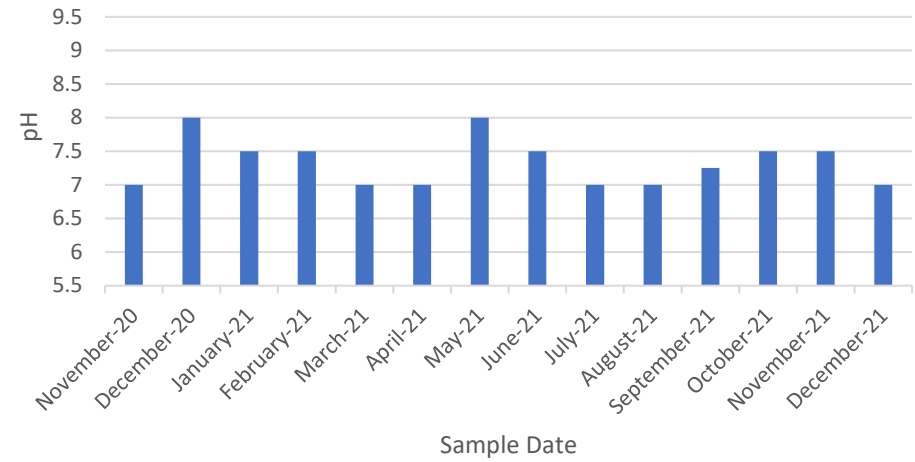
TOBCRE 2.39
Land Use



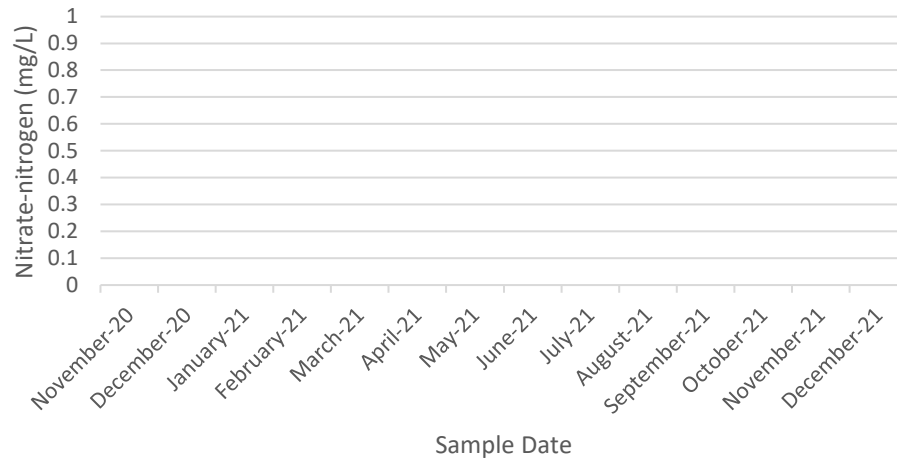
TOBCRE 2.39 -- Conductivity



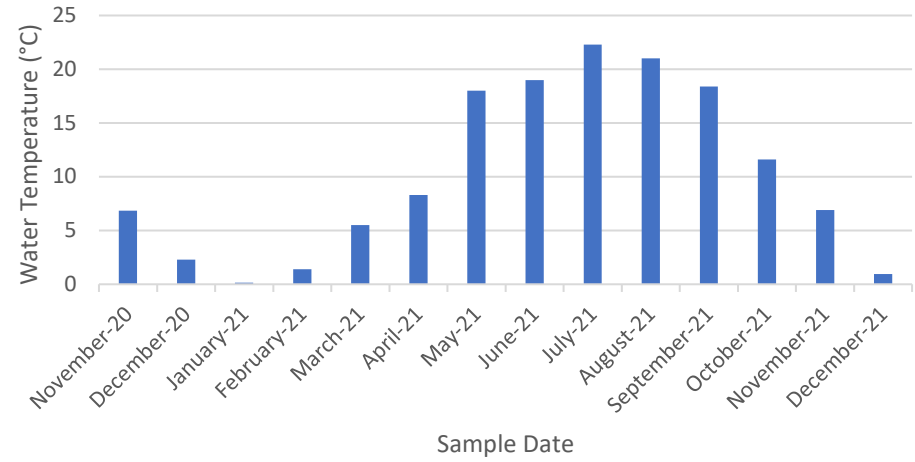
TOBCRE 2.39 -- pH



TOBCRE 2.39 -- Nitrate-Nitrogen



TOBCRE 2.39 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
11/21/20	357	0	7	6.9
12/22/20	446	0	8	2.3
1/24/21	265	0	7.5	0.2
2/21/21	422	0	7.5	1.4
3/20/21	233	0	7	5.5
4/17/21	260	0	7	8.3
5/25/21	283	0	8	18
6/19/21	287	0	7.5	19
7/17/21	294	0	7	22.3
8/21/21	268		7	21
9/19/21	199	0	7.25	18.4
10/24/21	257	0	7.5	11.6
11/21/21	204	0	7.5	6.9
12/20/21	233	0	7	1.0

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	199	0	7	0.2
Max	446	0	8	22.3
Median	267	0	7.5	7.6

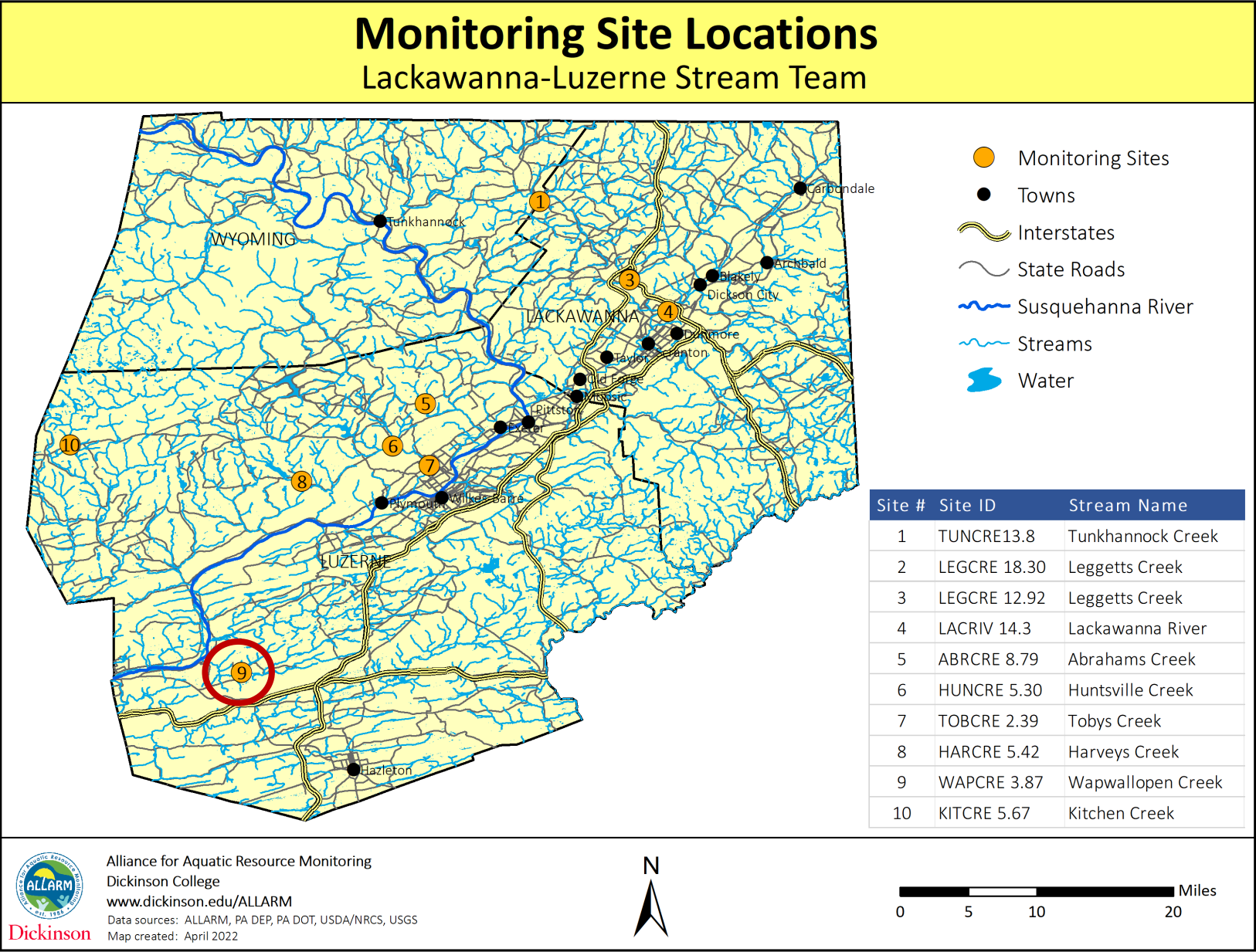
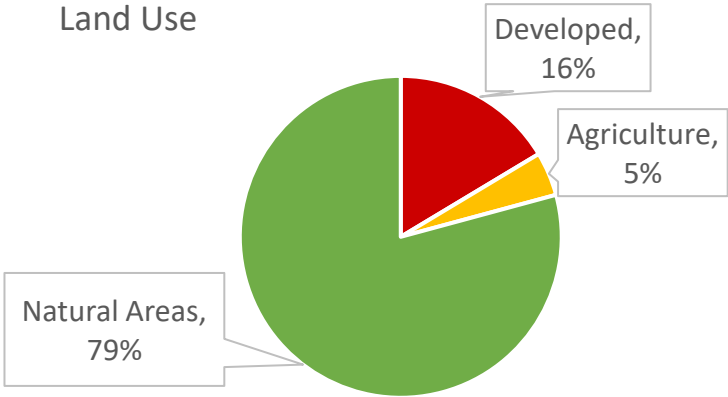
Wapwallopen Creek (WAPCRE 3.87)

Monitor(s): Gary Leader & Judith Samler

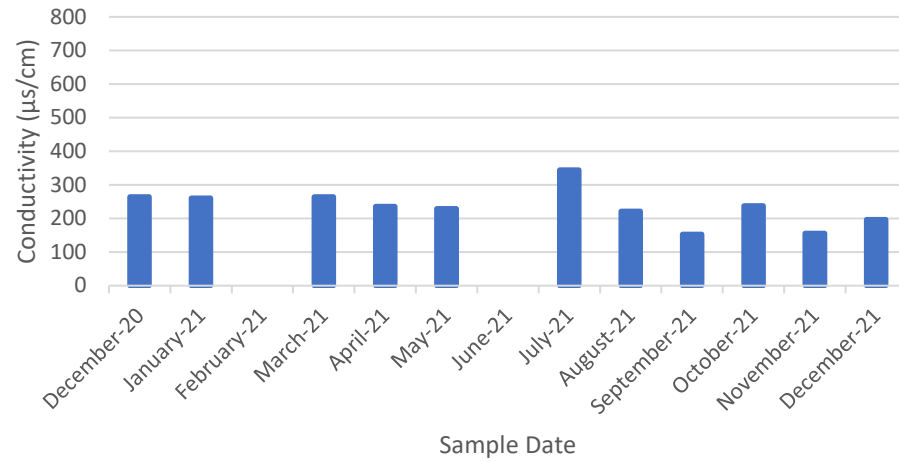
Site information:

- Drains 42 mi²
- Impaired: No
- Designation: Cold Water Fishes (CWF)
- Geology: Non-carbonate (100%)

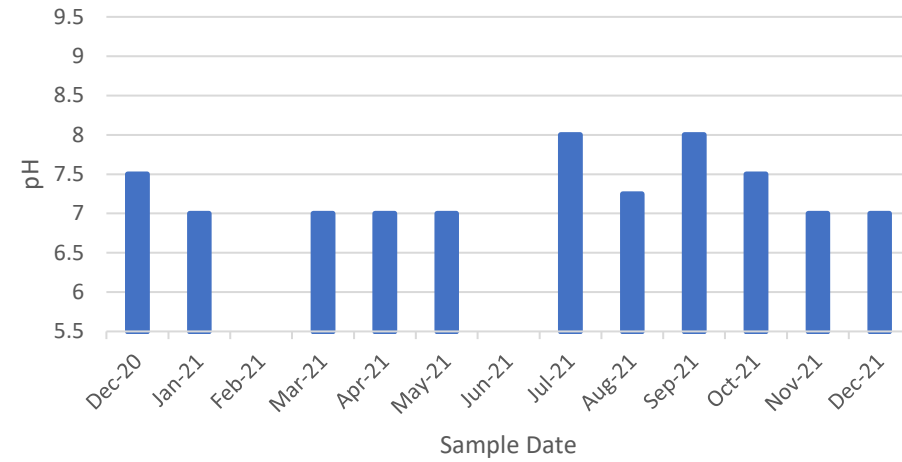
WAPCRE 3.87
Land Use



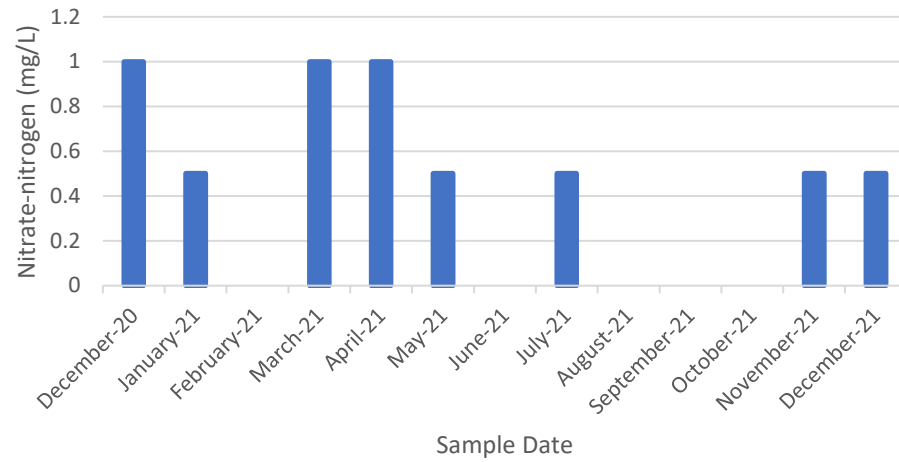
WAPCRE 3.87 -- Conductivity



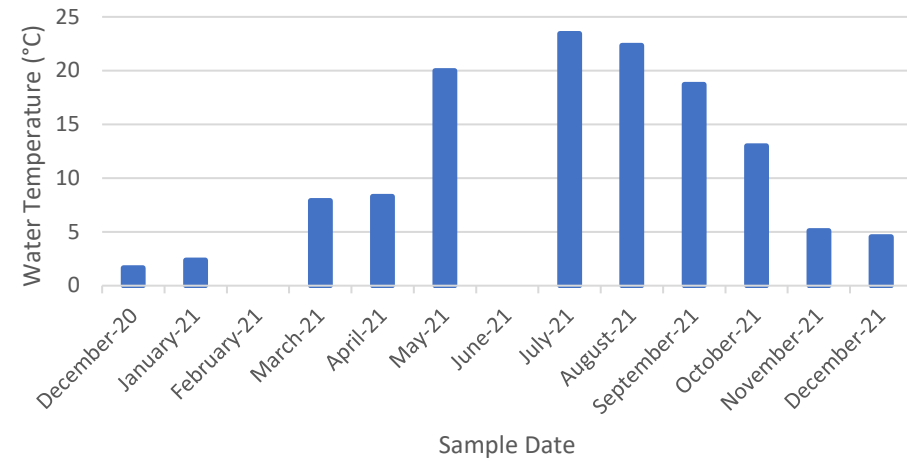
WAPCRE 3.87 -- pH



WAPCRE 3.87 -- Nitrate-nitrogen



WAPCRE3.87 -- Water Temperature



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature
12/19/20	264	1	7.5	1.7
1/21/21	260	0.5	7	2.4
3/22/21	264	1	7	7.9
4/17/21	236	1	7	8.3
5/22/21	229	0.5	7	20
7/17/21	344	0.5	8	23.5
8/28/21	221	0	7.25	22.4
9/19/21	152.8	0	8	18.7
10/23/21	238	0	7.5	13
11/20/21	155.5	0.5	7	5.1
12/18/21	196.6	0.5	7	4.6

Summary Statistics

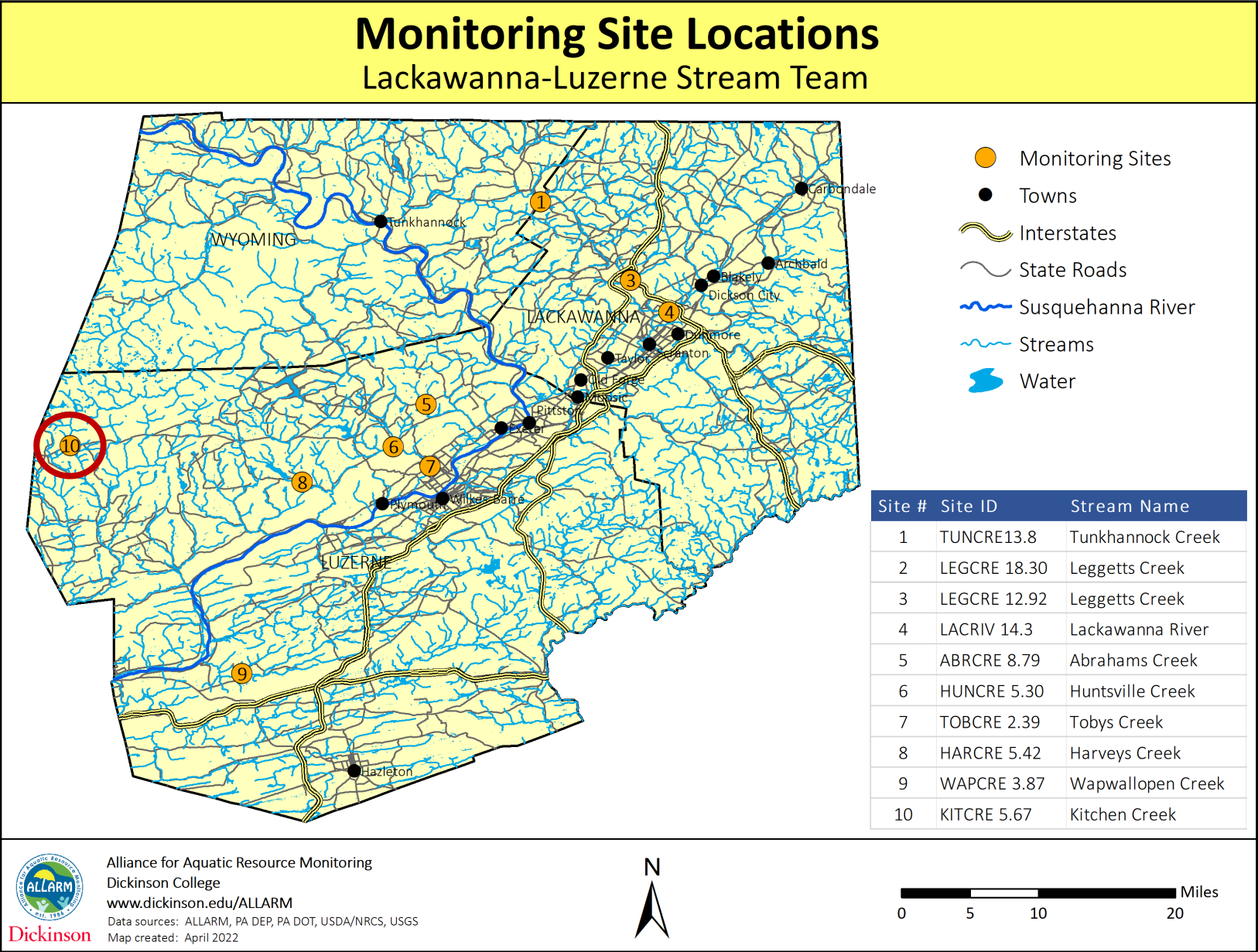
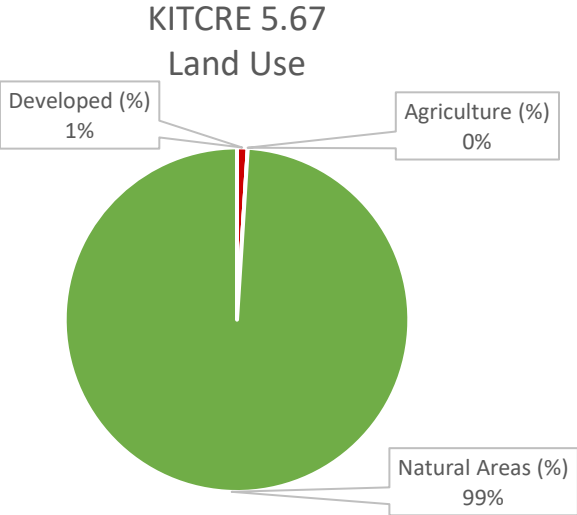
	Conductivity	Nitrate-nitrogen	pH	Water temperature
Min	152.8	0	7	1.7
Max	344	1	8	23.5
Median	236	0.5	7	8.3

Kitchen Creek (KITCRE 5.67)

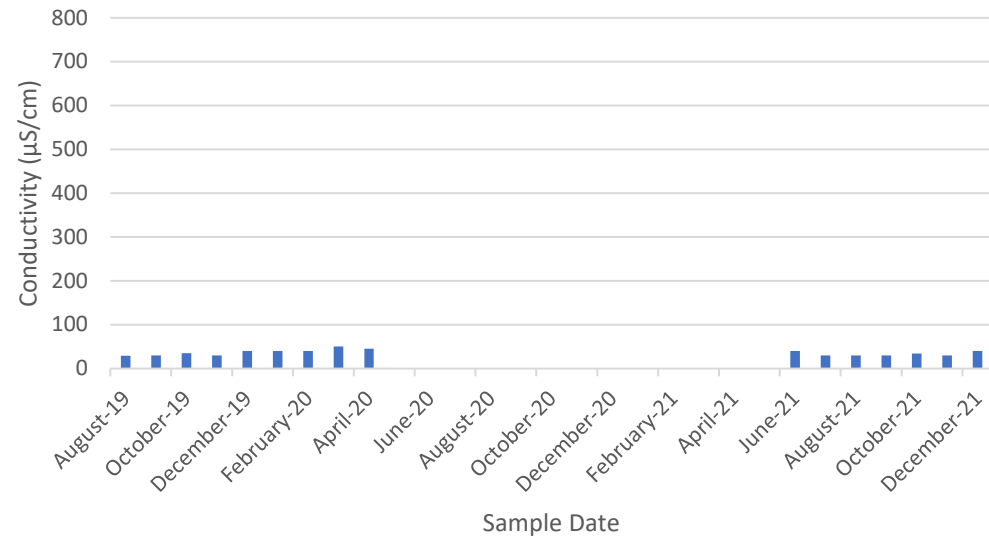
Monitor(s): Kevin Hess

Site information:

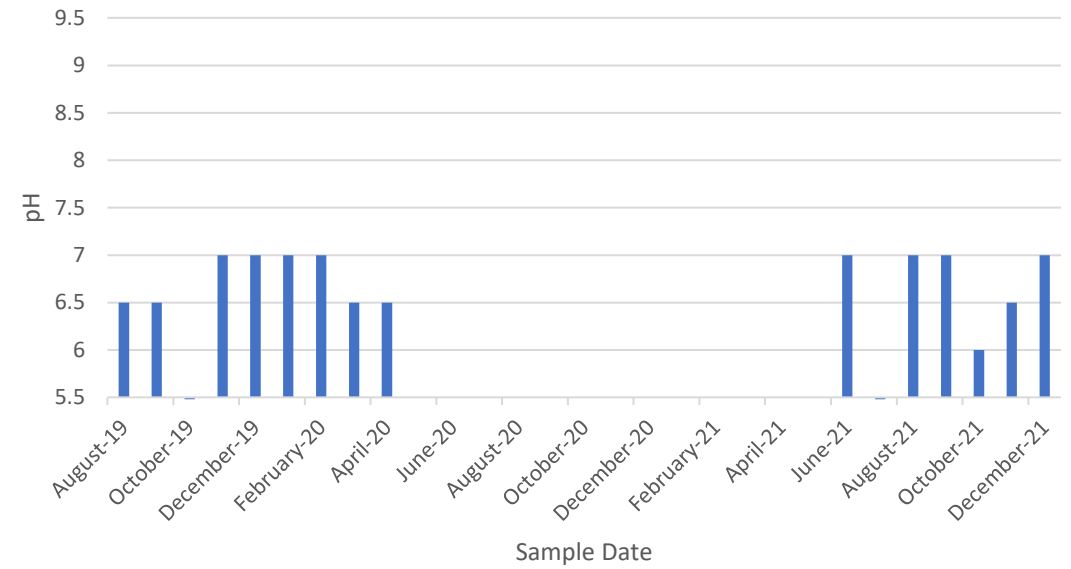
- Drains 6 mi²
- Impaired: No
- Designation: High Quality Cold Water Fishes
- Geology: 100% Non-Carbonate



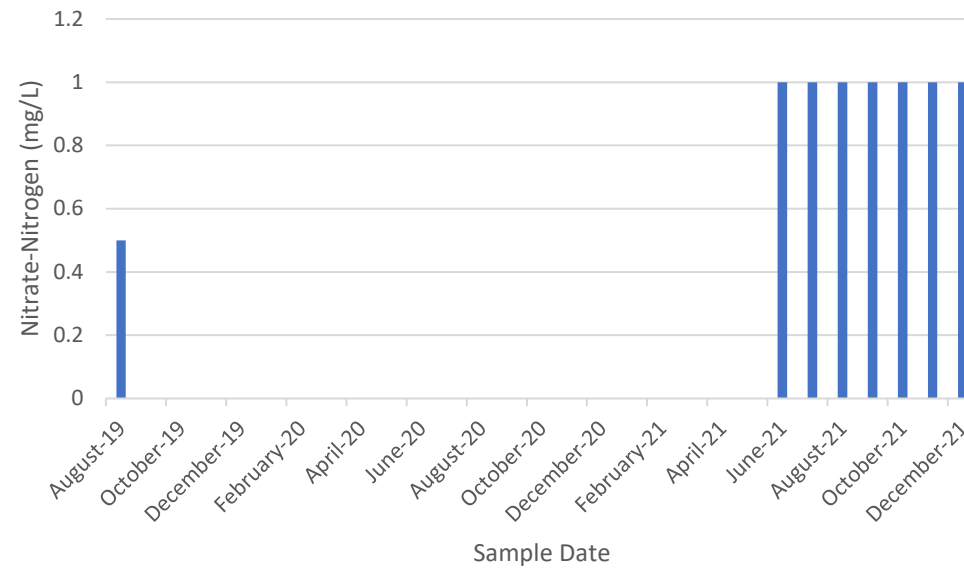
KITCRE5.67 -- Conductivity



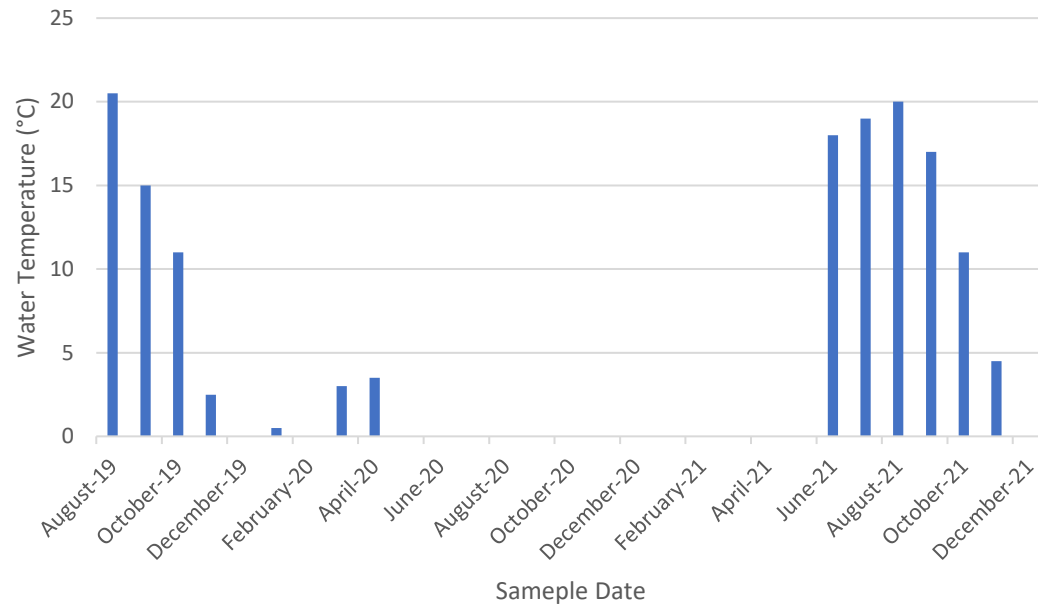
KITCRE5.67 -- pH



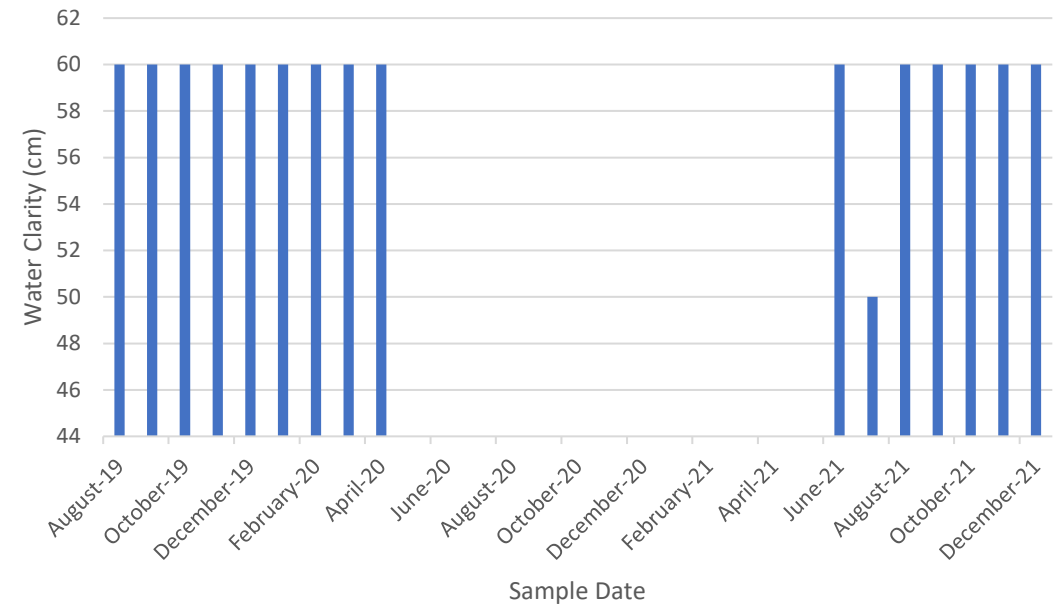
KITCRE5.67 -- Nitrate-Nitrogen



KITCRE5.67 - Water Temperature



KITCRE5.67 - Water Clarity



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
8/18/2019	29.3	0.5	6.5	20.5	60
9/21/2019	30	0	6.5	15	60
10/20/2019	35	0	5	11	60
11/25/2019	30	0	7	2.5	60
12/21/2019	40	0	7	0	60
1/20/2020	40	0	7	0.5	60
2/16/2020	40	0	7	0	60
3/15/2020	50	0	6.5	3	60
4/17/2020	45	0	6.5	3.5	60
6/20/2021	40	1	7	18	60
7/18/2021	30	1	5	19	50
8/22/2021	30	1	7	20	60
9/19/2021	30	1	7	17	60
10/17/2021	34	1	6	11	60
11/21/2021	30	1	6.5	4.5	60
12/19/2021	40	1	7	0	60

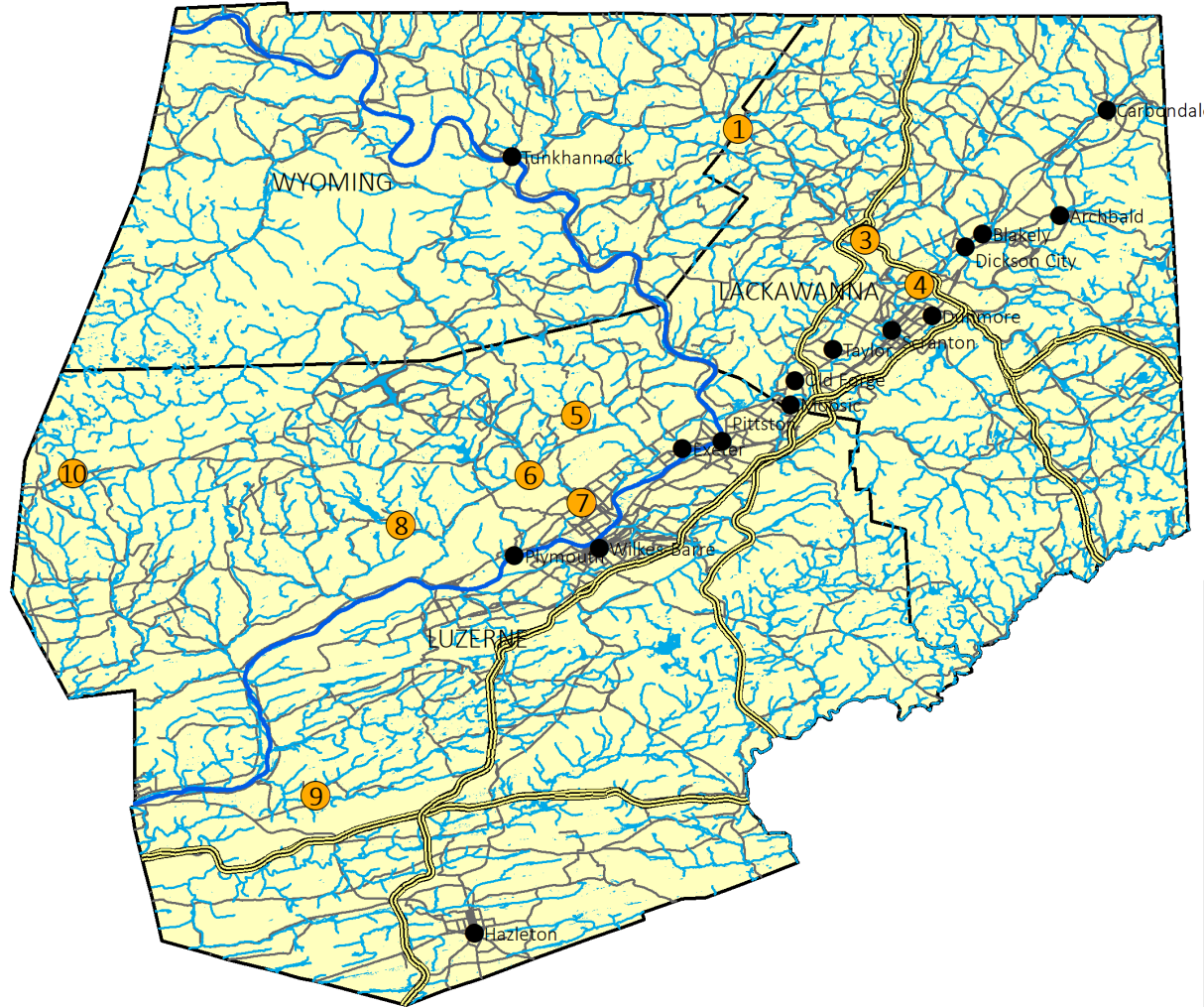
Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
Min	29.3	0	5	0	50
Max	50	1	7	20.5	60
Median	34.5	0.25	6.75	7.8	60

Supplemental Maps

Monitoring Site Locations

Lackawanna-Luzerne Stream Team

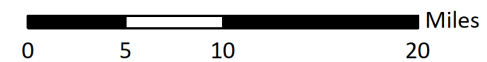


- Monitoring Sites
- Towns
- Interstates
- State Roads
- Susquehanna River
- Streams
- Water

Site #	Site ID	Stream Name
1	TUNCRE13.8	Tunkhannock Creek
2	LEGCRE 18.30	Leggetts Creek
3	LEGCRE 12.92	Leggetts Creek
4	LACRIV 14.3	Lackawanna River
5	ABRCRE 8.79	Abrahams Creek
6	HUNCRE 5.30	Huntsville Creek
7	TOBCRE 2.39	Tobys Creek
8	HARCRE 5.42	Harveys Creek
9	WAPCRE 3.87	Wapwallopen Creek
10	KITCRE 5.67	Kitchen Creek

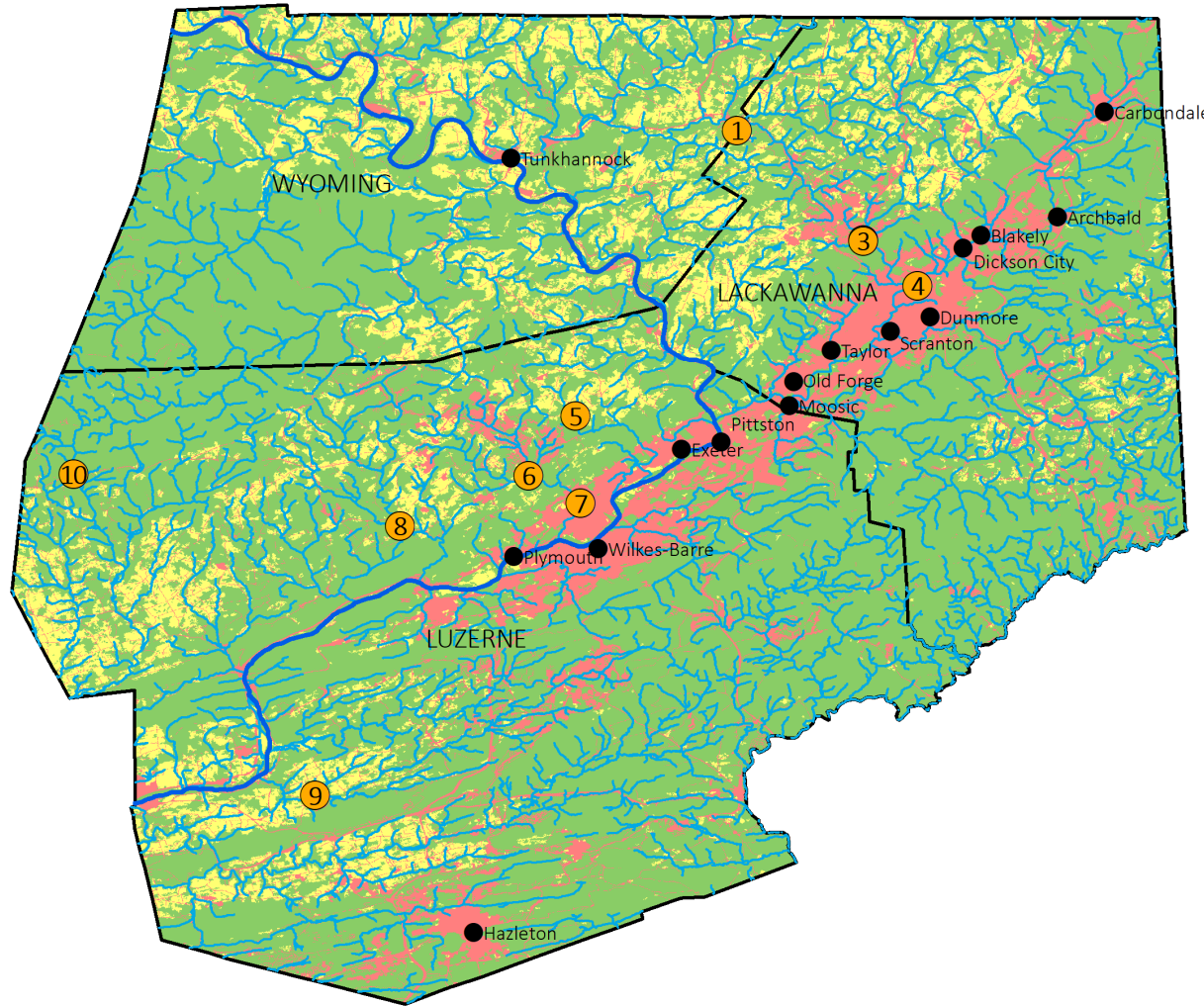


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www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022



Land Cover

Lackawanna-Luzerne Stream Team



- Monitoring Sites
- Towns
- ~ Susquehanna River
- ~ Streams
- Natural Areas
- Developed
- Agriculture

Site #	Site ID	Stream Name
1	TUNCRE13.8	Tunkhannock Creek
2	LEGCRES 18.30	Leggetts Creek
3	LEGCRES 12.92	Leggetts Creek
4	LACRIV 14.3	Lackawanna River
5	ABRCRES 8.79	Abrahams Creek
6	HUNCRE 5.30	Huntsville Creek
7	TOBCRES 2.39	Tobys Creek
8	HARCRES 5.42	Harveys Creek
9	WAPCRE 3.87	Wapwallopen Creek
10	KITCRE 5.67	Kitchen Creek



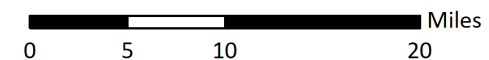
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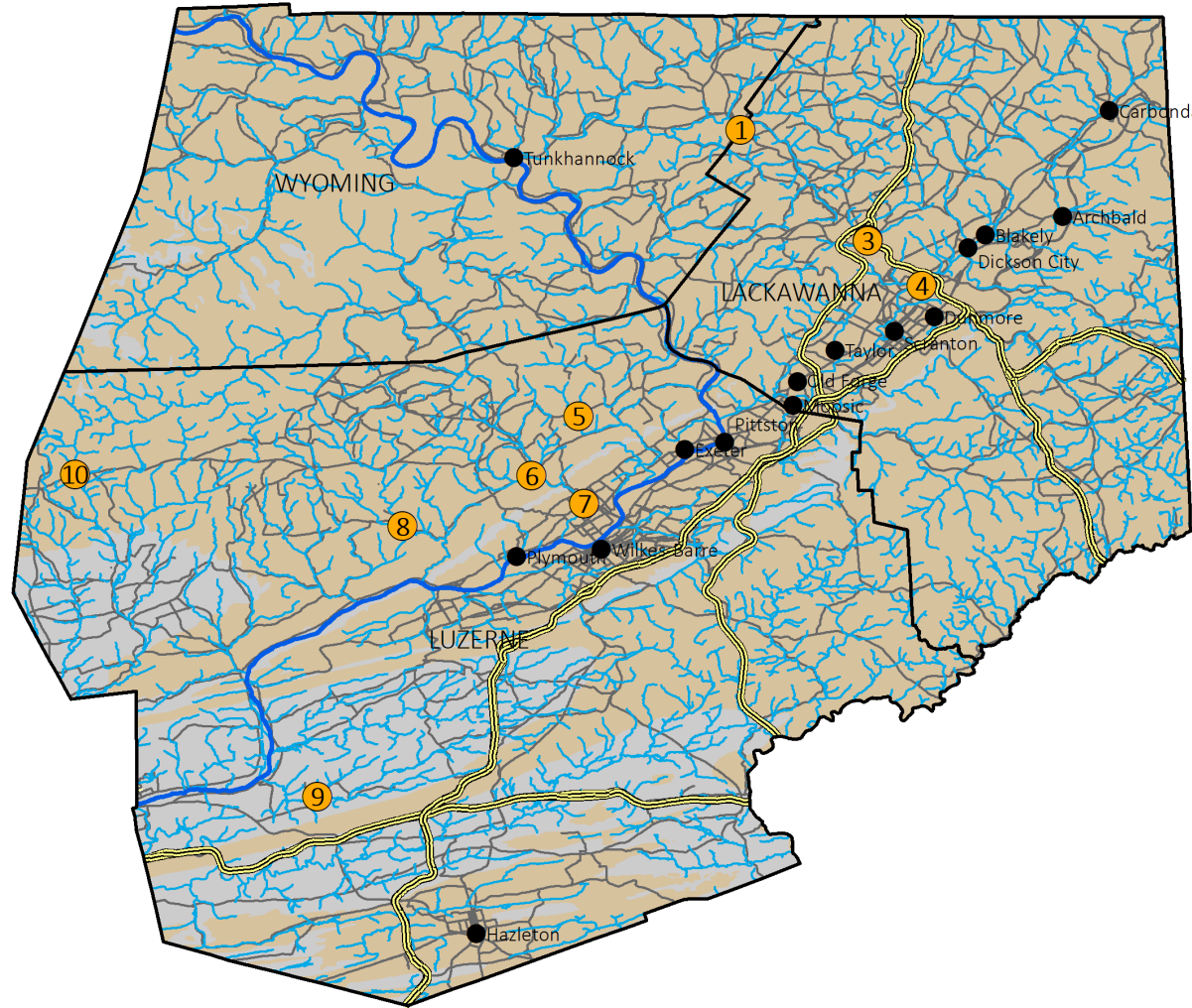
Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

Map created: April 2022



Geology

Lackawanna-Luzerne Stream Team



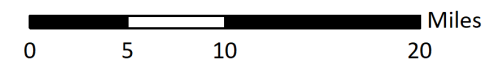
- Monitoring Sites
- Towns
- Interstates
- State Roads
- Susquehanna River
- Streams
- Sandstone
- Shale, Siltstone & Mudstone
- Limestone
- Water

Site #	Site ID	Stream Name
1	TUNCRE13.8	Tunkhannock Creek
2	LEGCRE 18.30	Leggetts Creek
3	LEGCRE 12.92	Leggetts Creek
4	LACRIV 14.3	Lackawanna River
5	ABRCRE 8.79	Abrahams Creek
6	HUNCRE 5.30	Huntsville Creek
7	TOBCRE 2.39	Tobys Creek
8	HARCRE 5.42	Harveys Creek
9	WAPCRE 3.87	Wapwallopen Creek
10	KITCRE 5.67	Kitchen Creek



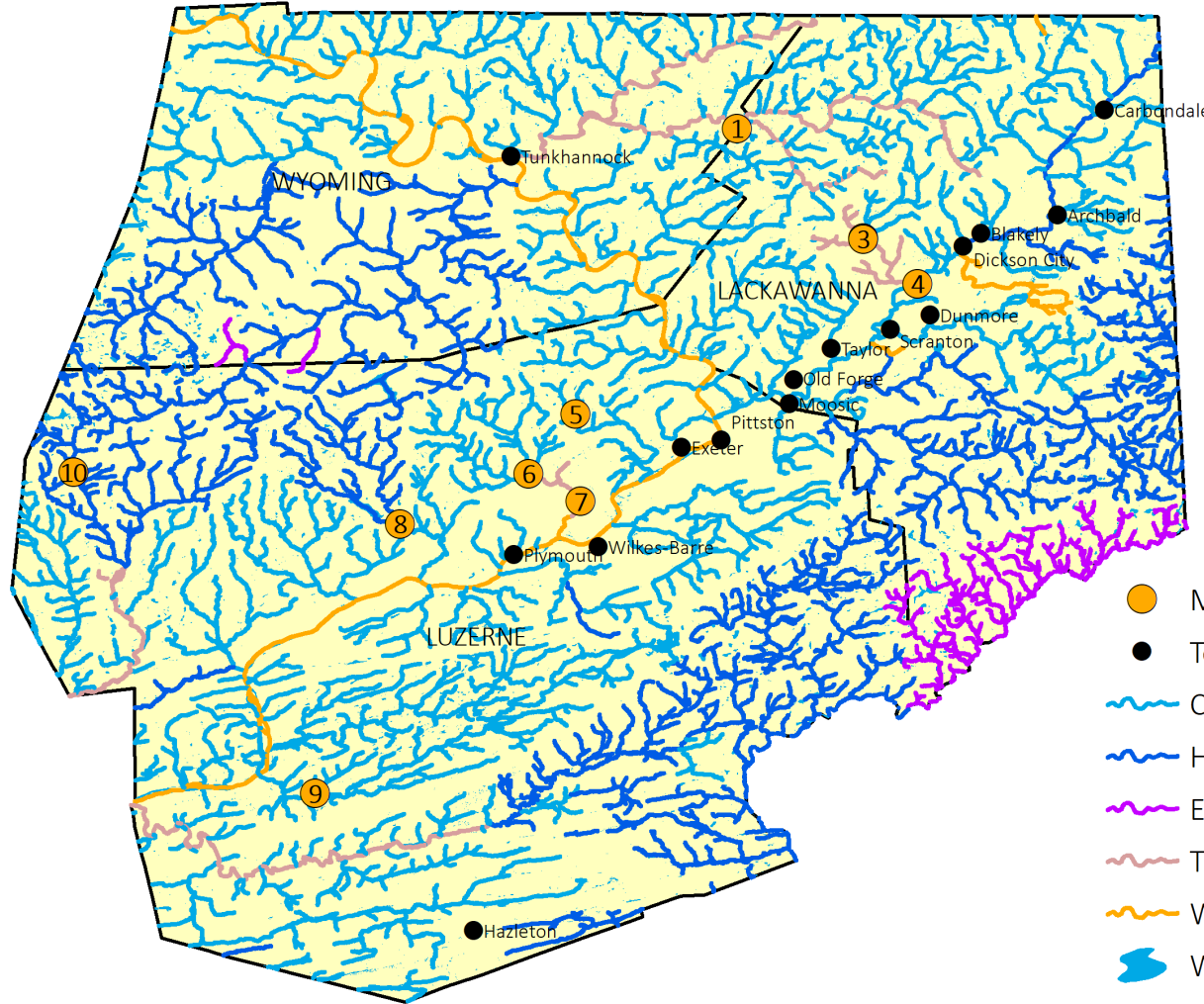
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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022

Dickinson



Stream Designated Uses

Lackawanna-Luzerne Stream Team



Site #	Site ID	Stream Name
1	TUNCRE13.8	Tunkhannock Creek
2	LEGCRC 18.30	Leggetts Creek
3	LEGCRC 12.92	Leggetts Creek
4	LACRIV 14.3	Lackawanna River
5	ABRCRC 8.79	Abrahams Creek
6	HUNCRE 5.30	Huntsville Creek
7	TOBCRC 2.39	Tobys Creek
8	HARCRC 5.42	Harveys Creek
9	WAPCRC 3.87	Wapwallopen Creek
10	KITCRC 5.67	Kitchen Creek

- Monitoring Sites
- Towns
- CWF (Cold Water Fishes)
- HQ-CWF (High Quality Cold Water Fishes)
- EV (Exceptional Value)
- TSF (Trout Stocking)
- WWF (Warm Water Fishes)
- Water



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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022

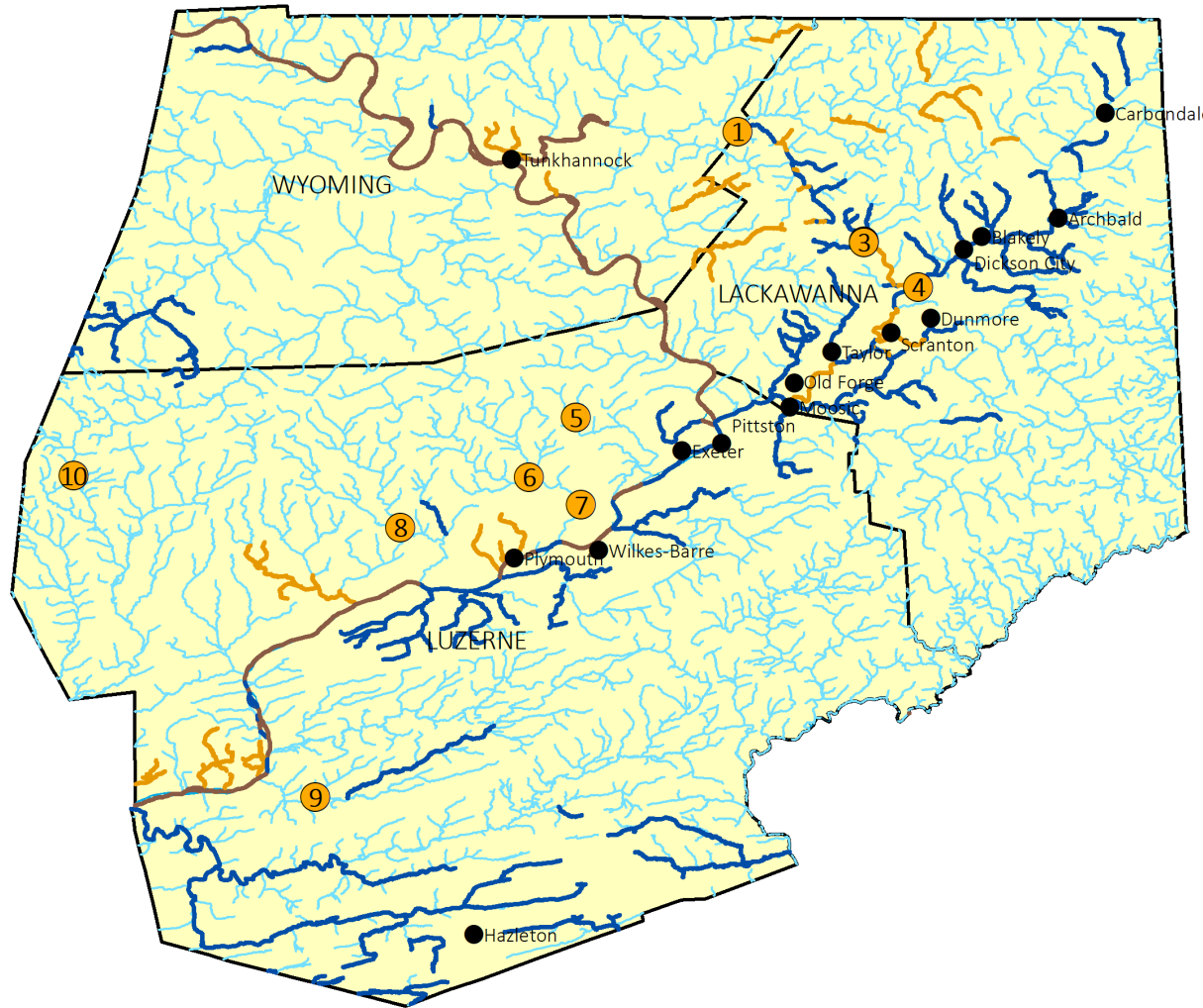
Dickinson



0 5 10 20 Miles

Impaired Streams

Lackawanna-Luzerne Stream Team



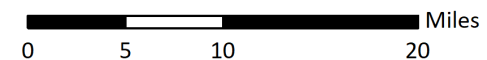
- Monitoring Sites
- Towns
- ~ Aquatic Life
- ~ Fish Consumption (PCBs)
- ~ Recreational (Bacteria)
- ~ Non-impaired Streams
- Water

Site #	Site ID	Stream Name
1	TUNCRE13.8	Tunkhannock Creek
2	LEGCRC 18.30	Leggetts Creek
3	LEGCRC 12.92	Leggetts Creek
4	LACRIV 14.3	Lackawanna River
5	ABRCRC 8.79	Abrahams Creek
6	HUNCRE 5.30	Huntsville Creek
7	TOBCRC 2.39	Tobys Creek
8	HARCRE 5.42	Harveys Creek
9	WAPCRC 3.87	Wapwallopen Creek
10	KITCRC 5.67	Kitchen Creek



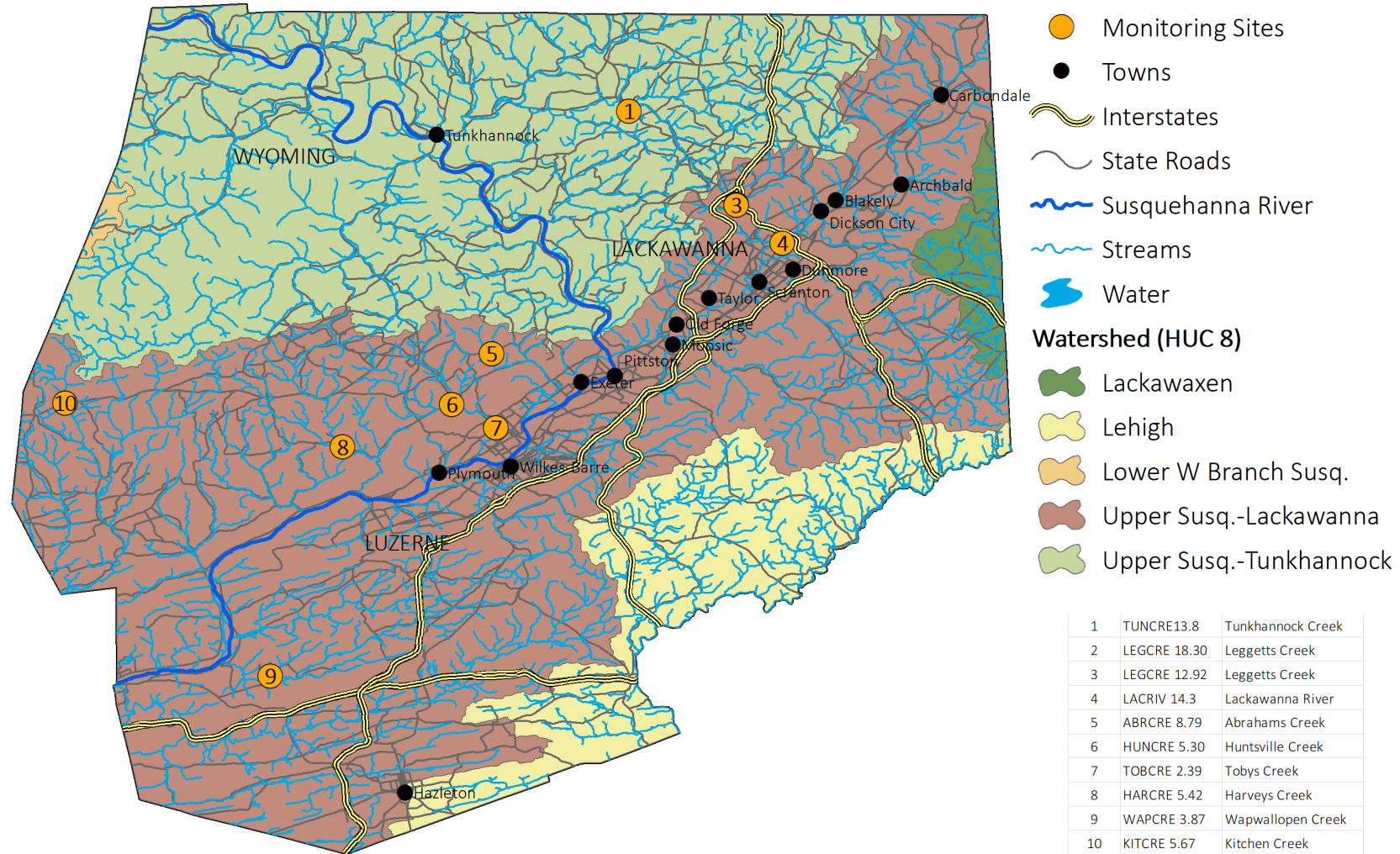
Alliance for Aquatic Resource Monitoring
Dickinson College
www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022

Dickinson



Subwatersheds

Lackawanna-Luzerne Stream Team



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Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022

Dickinson



0 5 10 20 Miles

Thank you!

Stream Team | streamteam@dickinson.edu

Alliance for Aquatic Resource Monitoring (ALLARM)

dickinson.edu/ALLARM | [@ALLARMwater](https://twitter.com/ALLARMwater) |

717.245.1565



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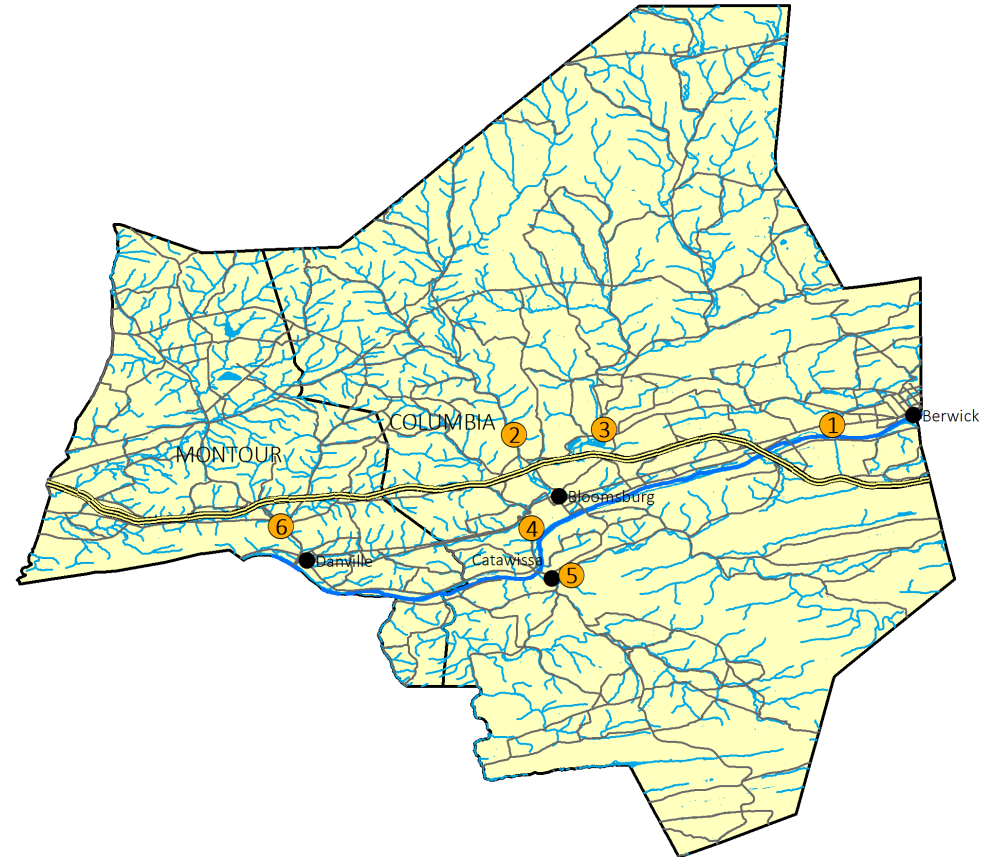
Columbia County Stream Team Data Interpretation Workbook



Site Locations

Monitoring Site Locations Columbia Stream Team

- Monitoring Sites
- Towns
- Interstate
- State Roads
- Susquehanna River
- Streams
- Water



Site #	Site ID	Stream Name
1	BRICRE 0.55	Briar Creek
2	LITFISCRE 1.82	Little Fishing Creek
3	FISCRE 7.58	Fishing Creek 1
4	FISCRE 0.49	Fishing Creek 2
5	CATCRE 1.52	Catawissa Creek
6	MAHCRE 3.03	Mahoning Creek



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Alliance for Aquatic Resource Monitoring

Dickinson College

www.dickinson.edu/ALLARM

Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS

Map created: April 2022



0 2.5 5 10 Miles

Columbia

Site Profiles

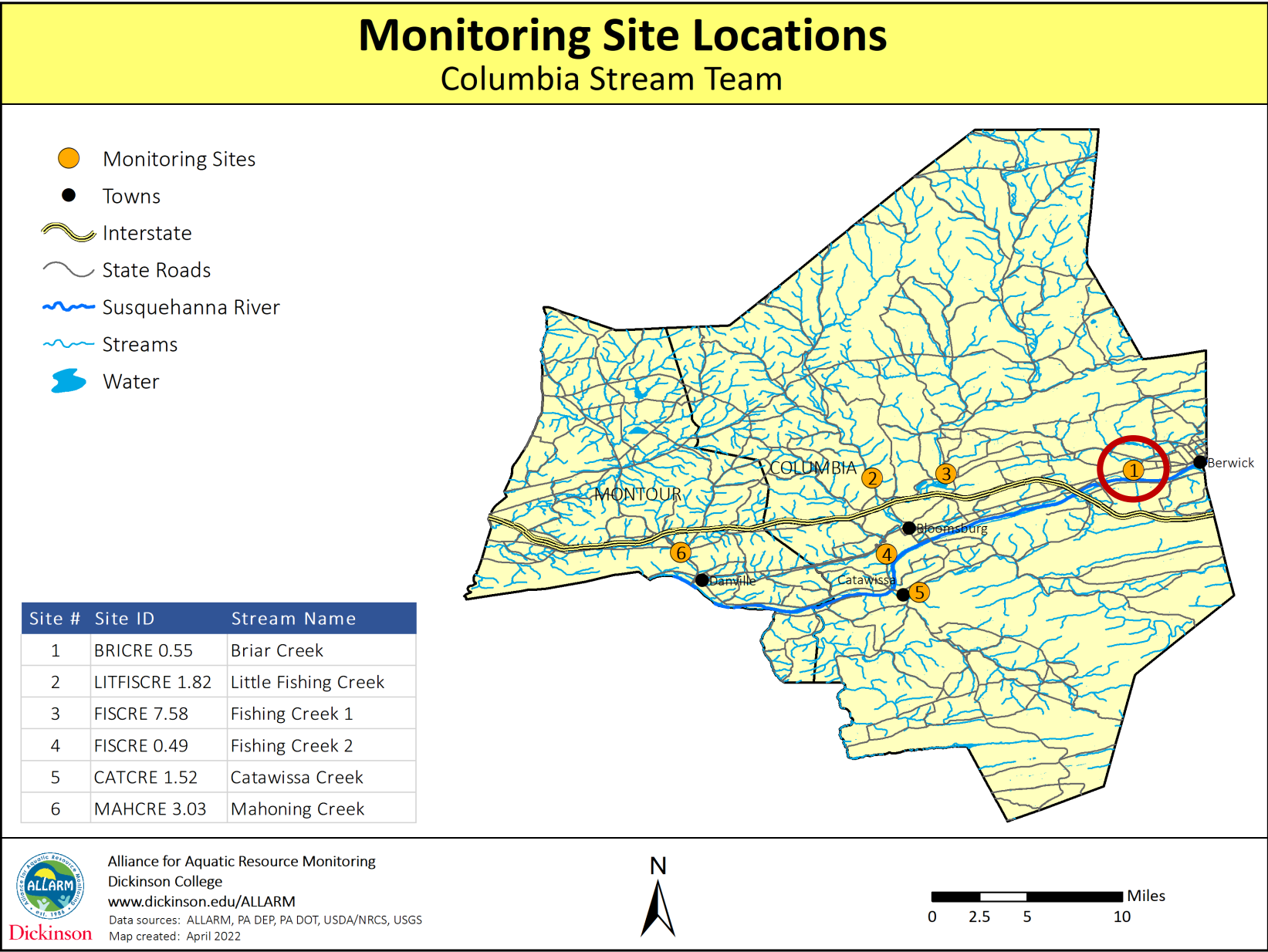
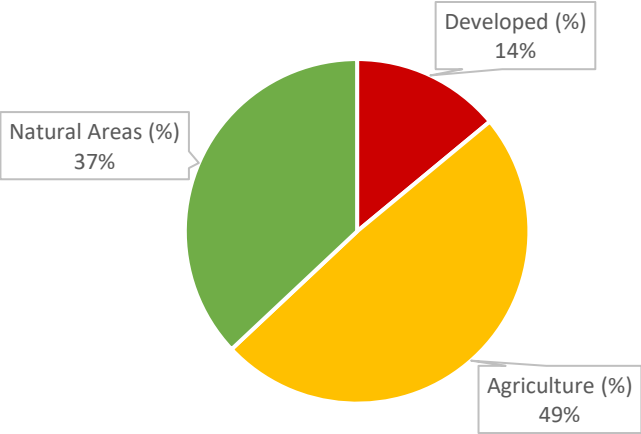
Briar Creek (BRICRE0.55)

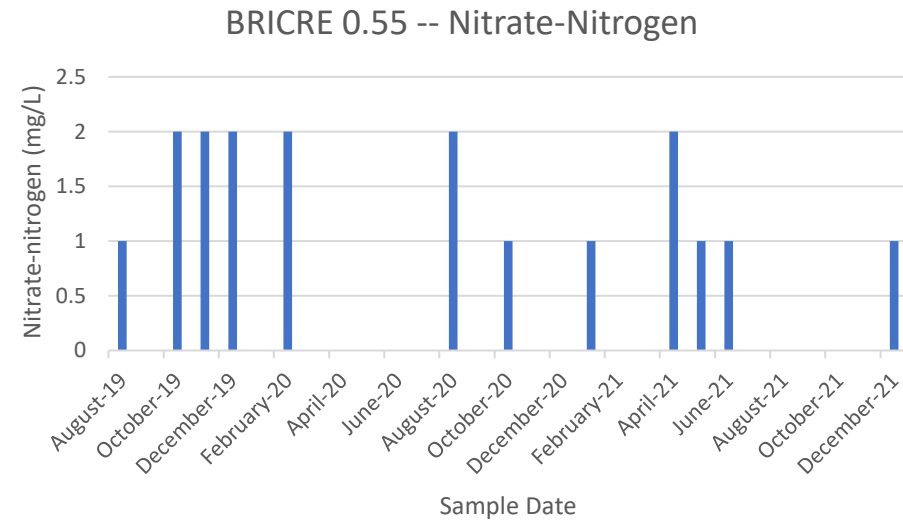
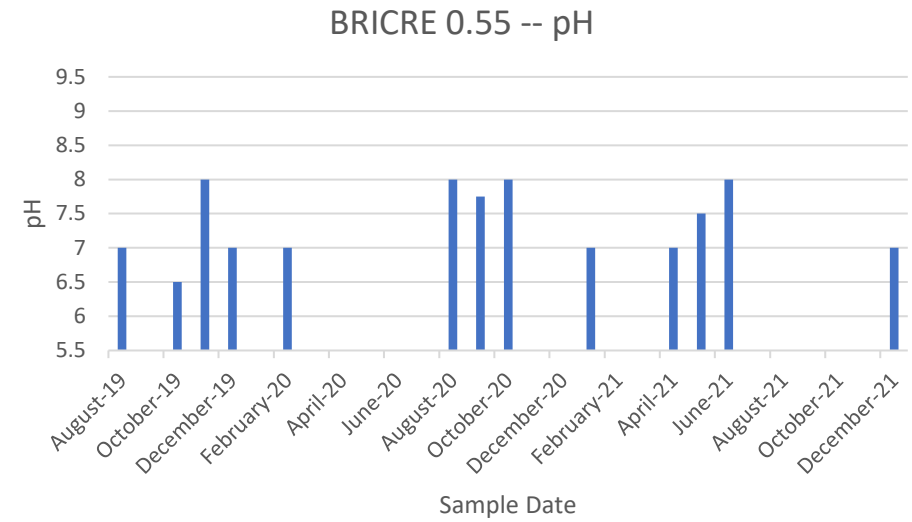
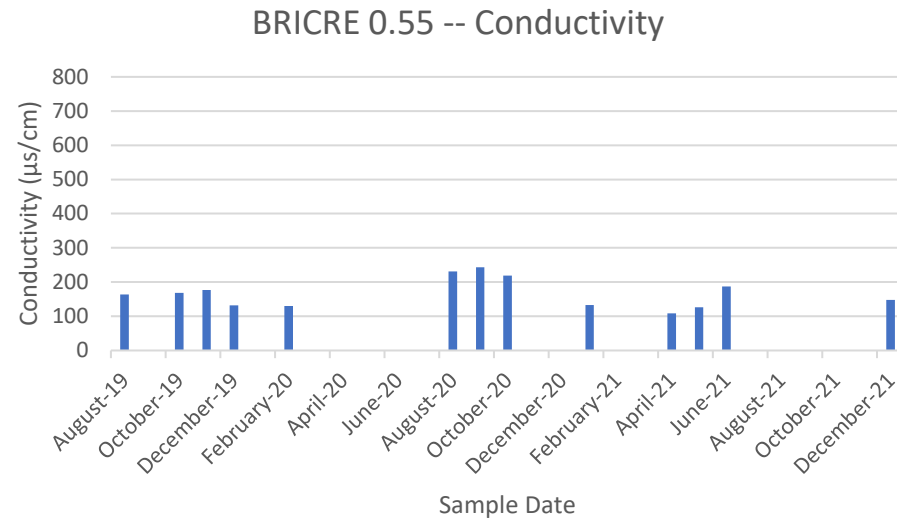
Monitor(s): CCCD took over

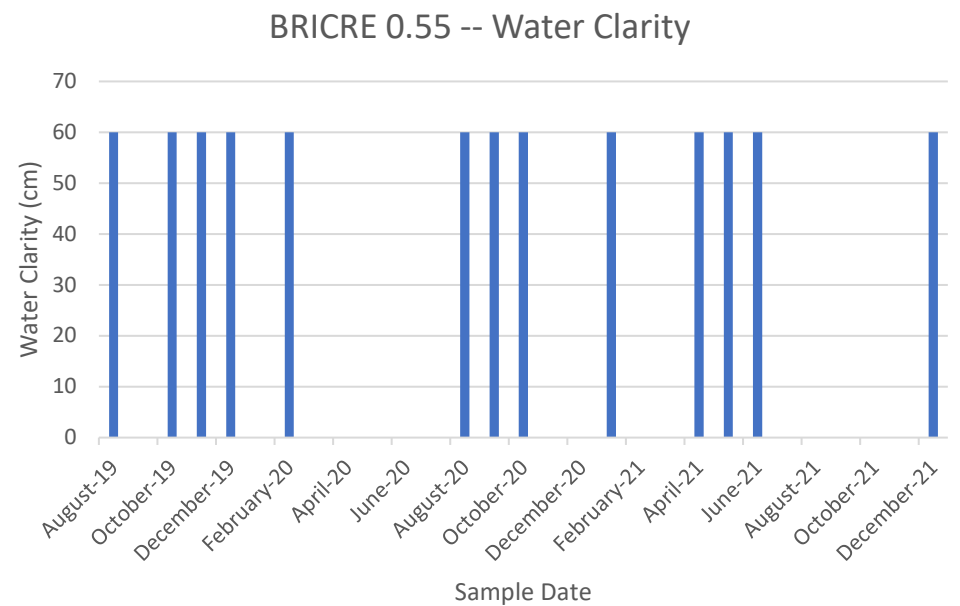
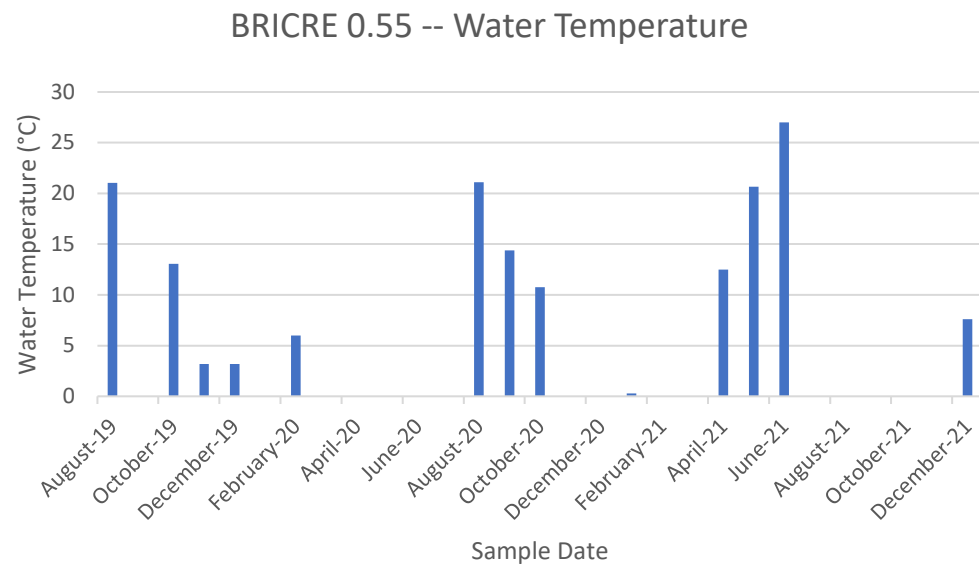
Site information:

- Drains 34 mi²
- Impaired: No
- Designation: Cold Water Fishes
- Geology: 4% Carbonate, 96% Non-carbonate

BRICRE0.55
Land Use







Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
8/18/2019	163.3	1	7	21.1	60
10/23/2019	168	2	6.5	13.1	60
11/17/2019	176.4	2	8	3.2	60
12/18/2019	132.1	2	7	3.2	60
2/24/2020	130	2	7	6	60
8/25/2020	231	2	8	21.1	60
9/22/2020	243		7.75	14.4	60
10/18/2020	219	1	8	10.8	60
1/24/2021	133	1	7	0.3	60
4/18/2021	108.4	2	7	12.5	60
5/16/2021	126.6	1	7.5	20.7	60
6/21/2021	186.9	1	8	27	60
12/17/2021	147.7	1	7	7.6	60

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
Min	108.4	1	6.5	0.3	60
Max	243	2	8	27	60
Median	163.3	1.5	7	12.5	60

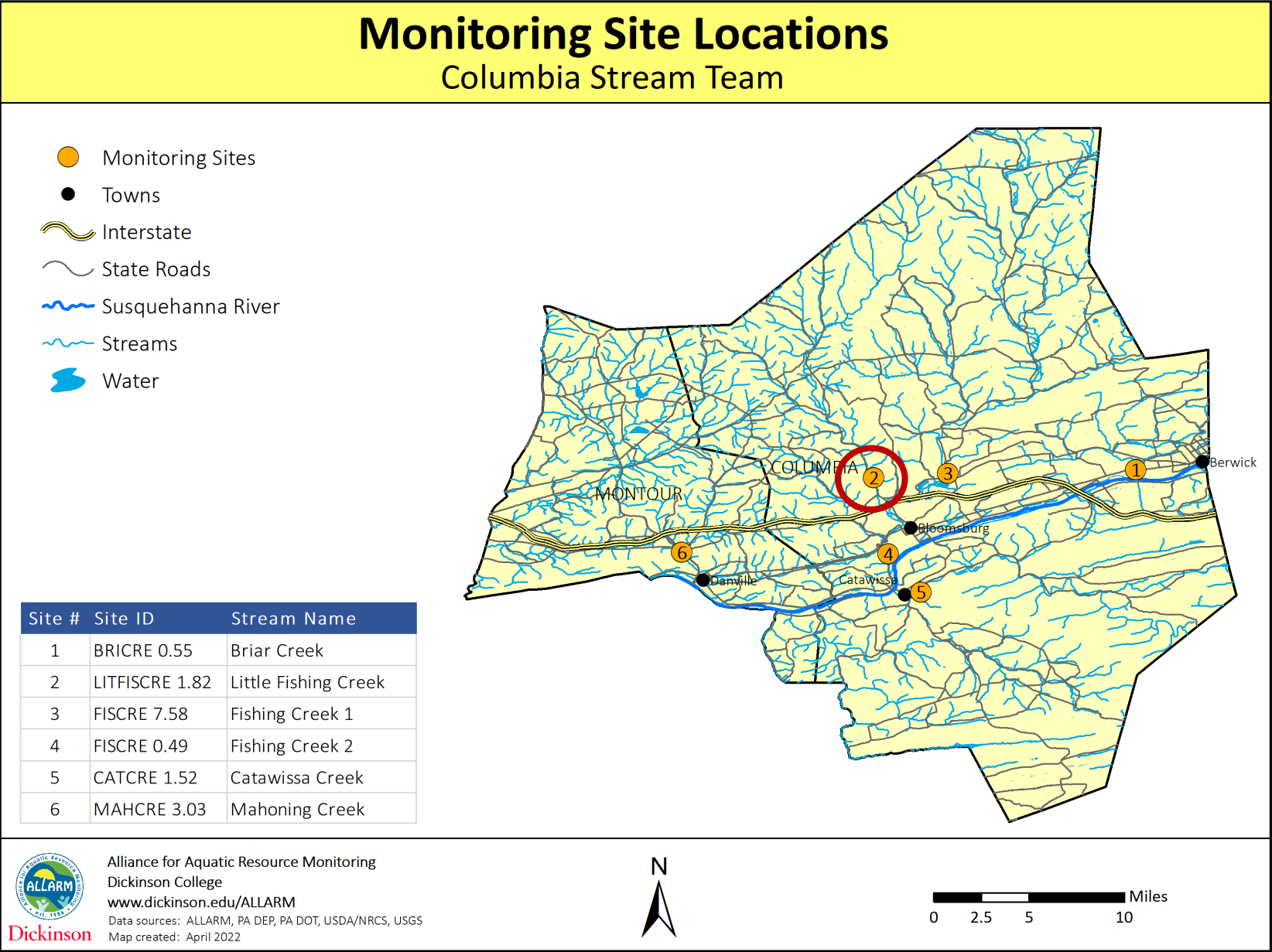
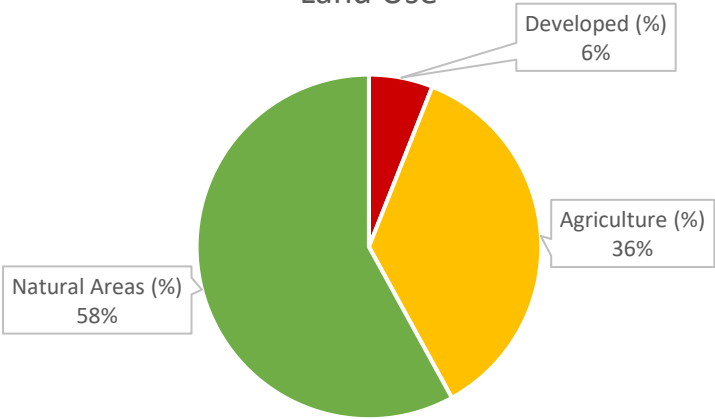
Little Fishing Creek (LITFISCRE 1.82)

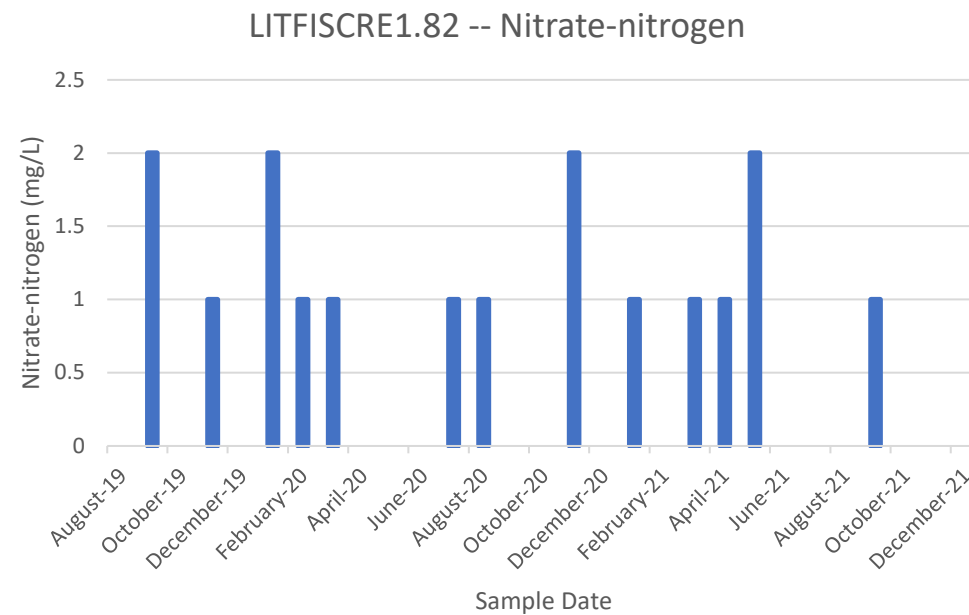
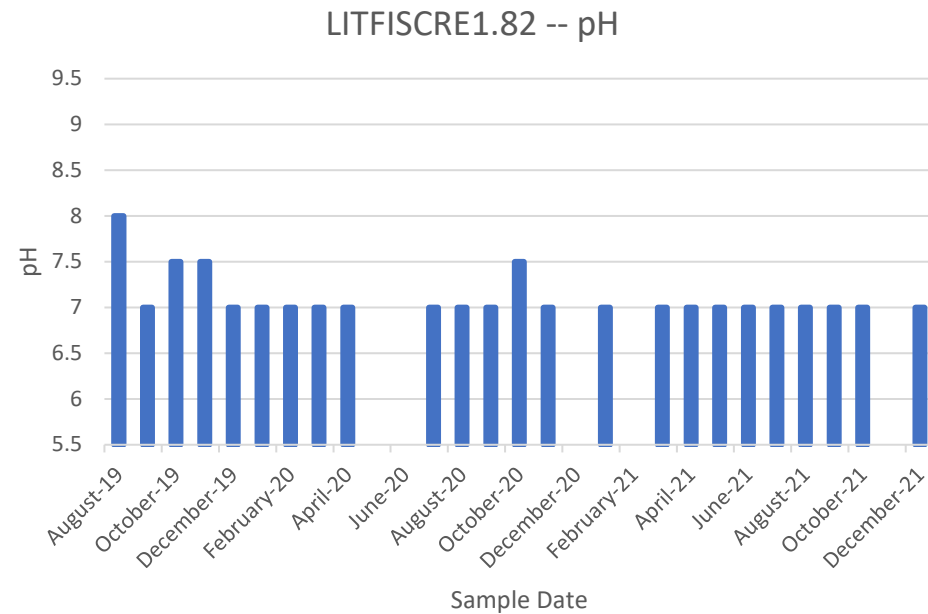
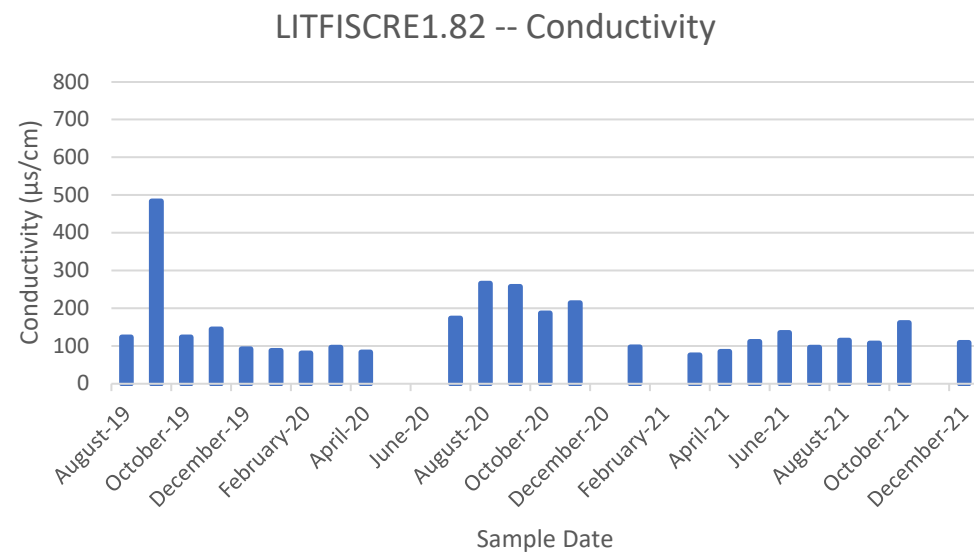
Monitor(s): Linda & John Dietrichson

Site information:

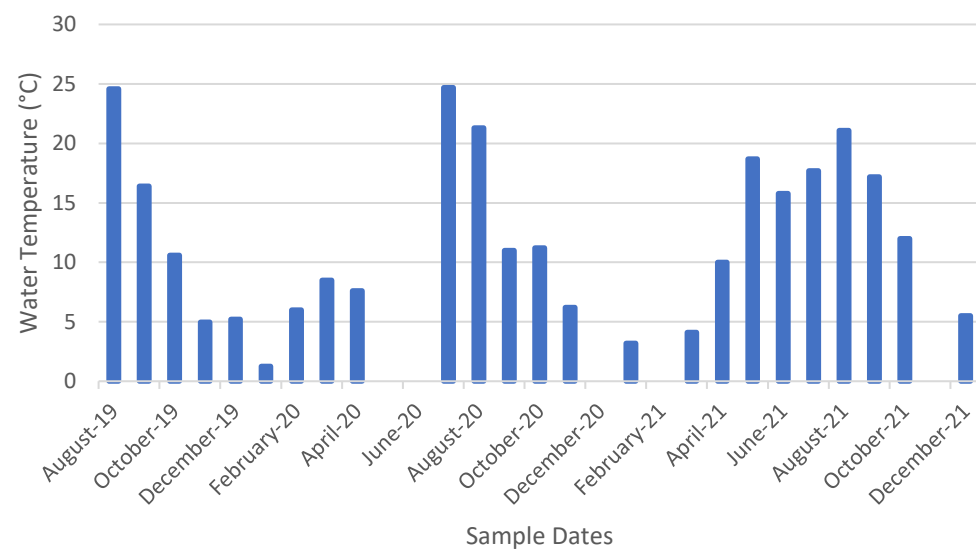
- Drains 57 mi²
- Impaired: No
- Designation: High Quality Cold Water Fishes
- Geology: 100% Non-Carbonate

LITFISCRE 1.82
Land Use

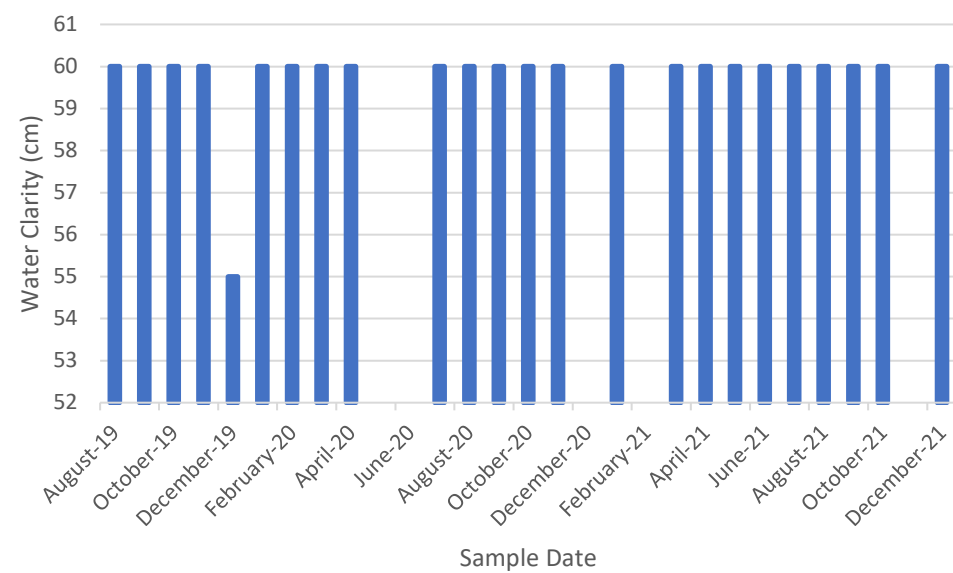




LITFISCRE1.82 -- Water temperature



LITFISCRE1.82 -- Water Clarity



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
8/19/2019	123	0	8	24.6	60
9/22/2019	484	2	7	16.4	60
10/20/2019	123	0	7.5	10.6	60
11/16/2019	143.9	1	7.5	5.0	60
12/15/2019	91.9	0	7	5.2	55
1/20/2020	87.8	2	7	1.3	60
2/18/2020	80.3	1	7	6	60
3/15/2020	95.9	1	7	8.5	60
4/20/2020	83.1	0	7	7.6	60
7/20/2020	172.9	1	7	24.7	60
8/24/2020	266	1	7	21.3	60
9/21/2020	257	0	7	11	60
10/18/2020	186.5	0	7.5	11.2	60
11/22/2020	214	2	7	6.2	60
1/24/2021	96.7	1	7	3.2	60
3/21/2021	75.5	1	7	4.1	60
4/18/2021	85	1	7	10	60
5/24/2021	111.5	2	7	18.7	60
6/23/2021	135.1	0	7	15.8	60
7/20/2021	96.3	0	7	17.7	60
8/22/2021	114.6	0	7	21.1	60
9/19/2021	106.6	1	7	17.2	60
10/25/2021	161.5	0	7	12	60
12/17/2021	108.7	0	7	5.5	60

Summary Statistics

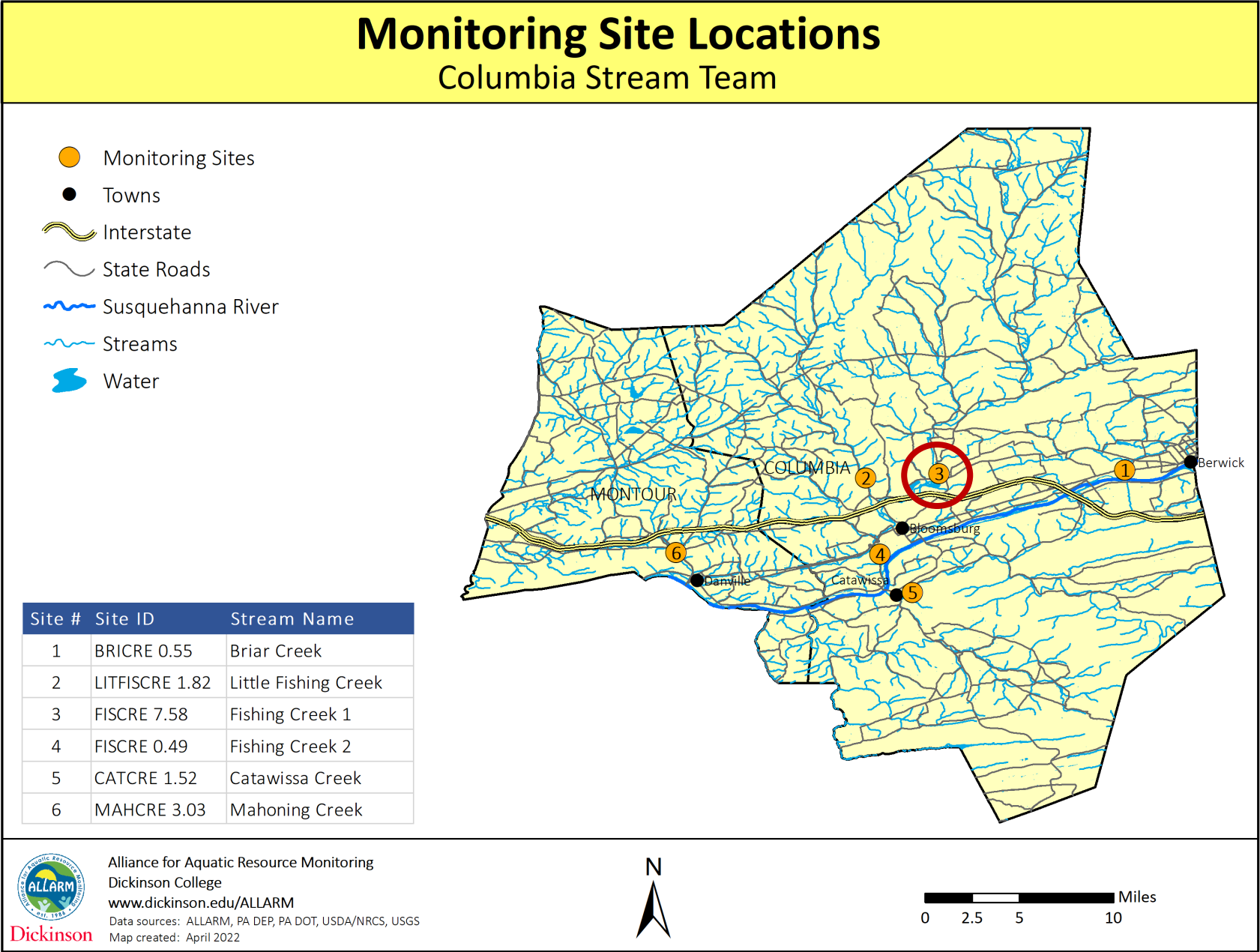
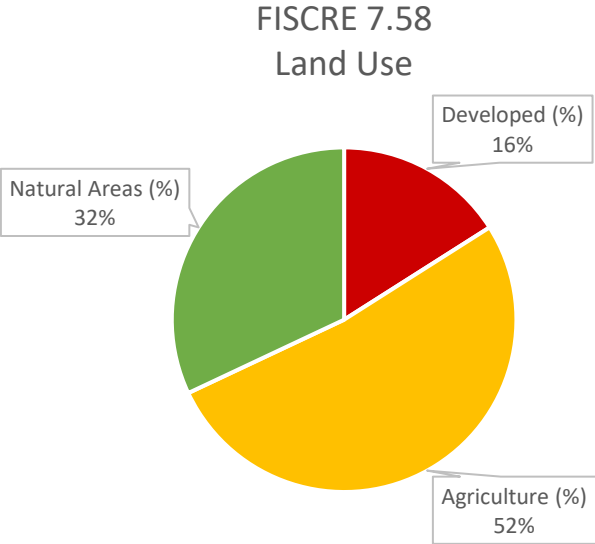
	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
Min	75.5	0	7	1.3	55
Max	484	2	8	24.7	60
Median	113.1	1	7	10.8	60

Fishing Creek 1 (FISCRE 7.58)

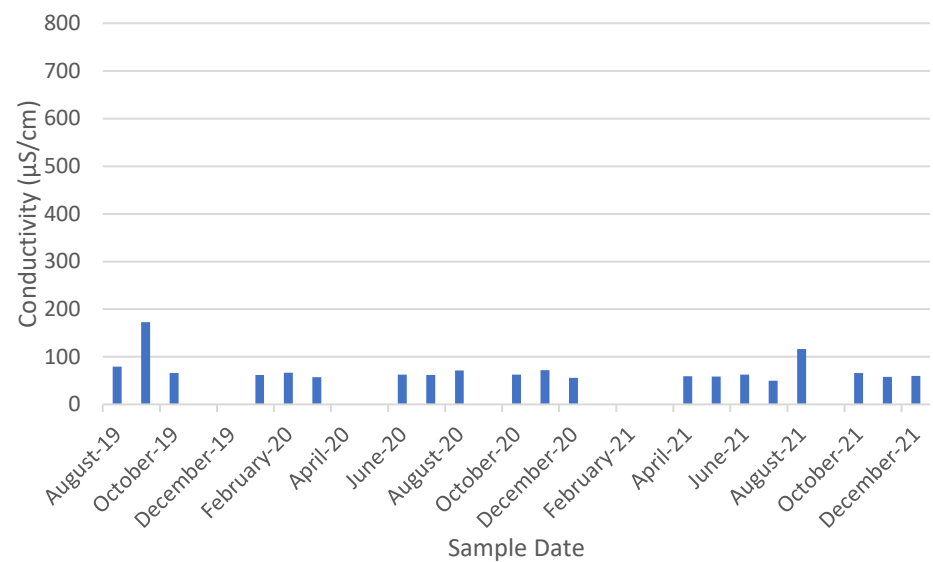
Monitor(s): CCCD

Site information:

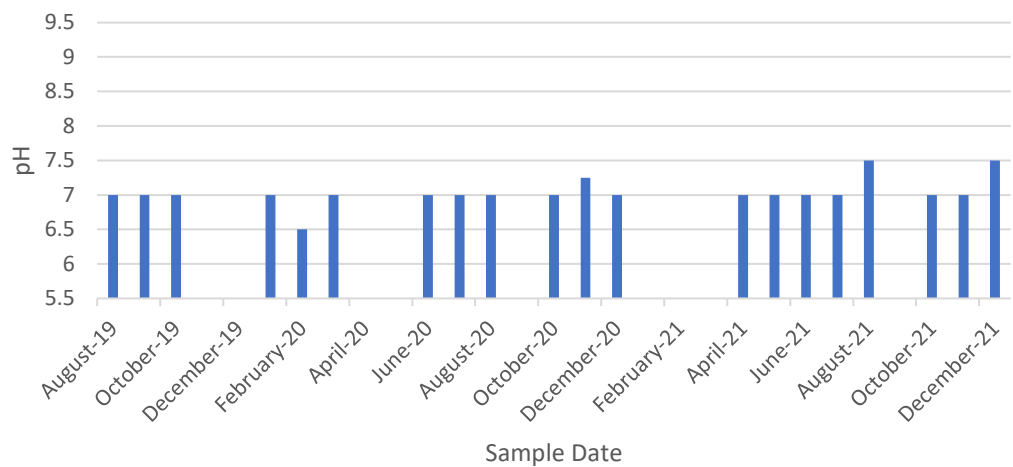
- Drains 35 mi²
- Impaired: No
- Designation: Warm Water Fishes
- Geology: 3% Carbonate, 97% Non-carbonate



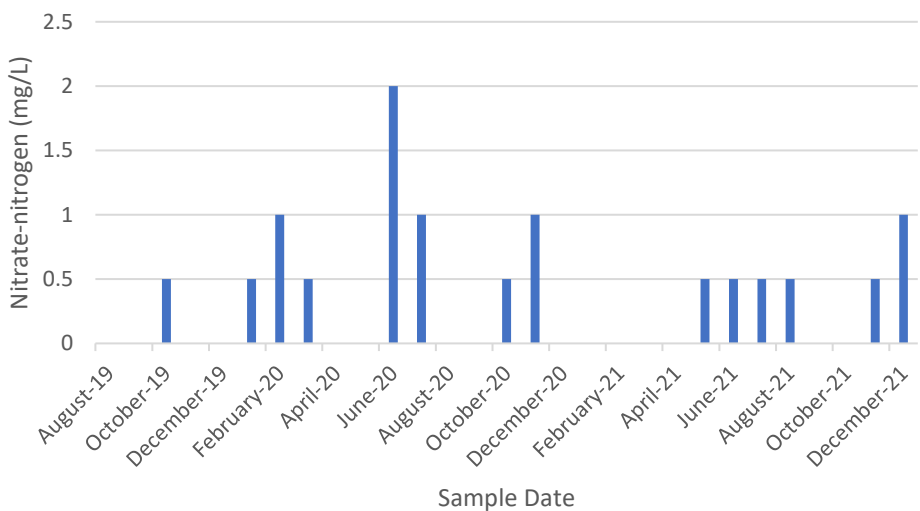
FISCRE 7.58 -- Conductivity



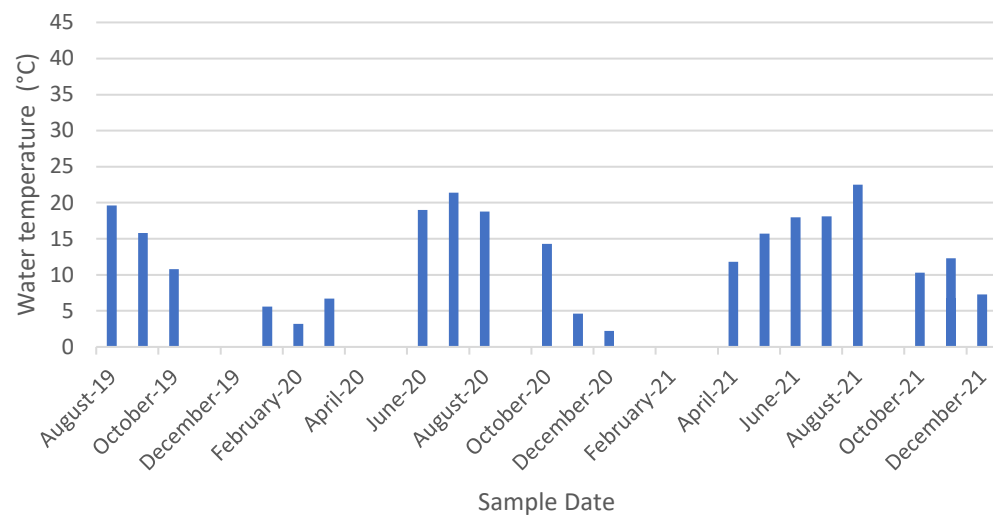
FISCRE 7.58 -- pH



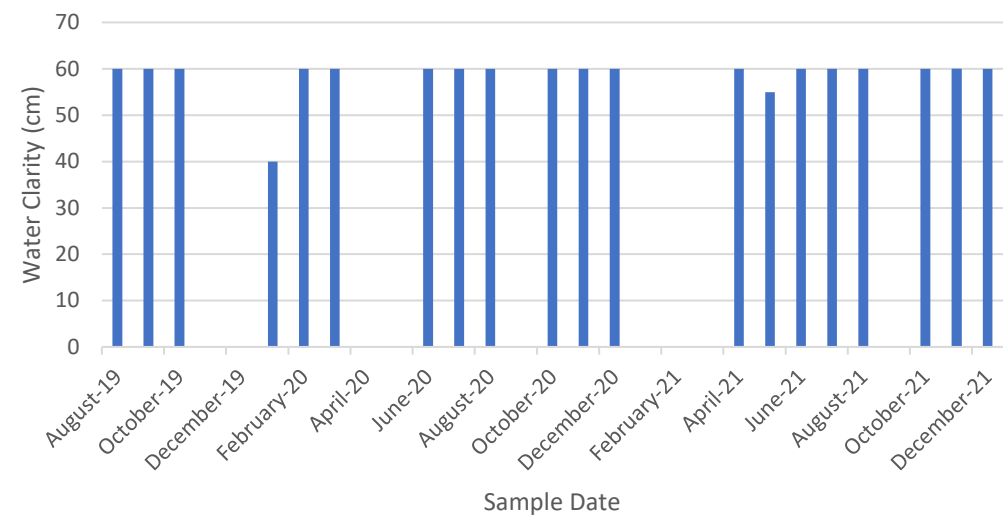
FISCRE 7.58 -- Nitrate-Nitrogen



FISCRE 7.58 - Water Temperature



FISCRE 7.58 - Water Clarity



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
8/15/2019	79.2	0	7	19.6	60
9/19/2019	172.9	0	7	15.8	60
10/21/2019	66.0	0.5	7	10.8	60
1/16/2020	61.7	0.5	7	5.6	40
2/14/2020	66.7	1	6.5	3.2	60
3/12/2020	57.3	0.5	7	6.7	60
6/19/2020	62.8	2	7	19	60
7/16/2020	61.9	1	7	21.4	60
8/20/2020	71.4	0	7	18.8	60
10/16/2020	62.6	0.5	7	14.3	60
11/18/2020	72.3	1	7.25	4.6	60
12/12/2020	56	0	7	2.2	60
4/20/2021	58.9	0	7	11.8	60
5/20/2021	58.8	0.5	7	15.7	55
6/17/2021	62.7	0.5	7	18	60
7/19/2021	50	0.5	7	18.1	60
8/30/2021	116.1	0.5	7.5	22.5	60
10/19/2021	65.9	0	7	10.3	60
11/1/2021	52.7	0.5	6.75	12.3	60
11/17/2021	57.8	0	7	6.7	60
12/17/2021	59.9	1	7.5	7.3	60

Summary Statistics

	Conductivity	Nitrate-nitrogen	pH	Water Temperature	Water Clarity
Min	50	0	6.5	2.2	40
Max	172.9	2.0	7.5	22.5	60.0
Median	62.6	0.5	7	12.3	60

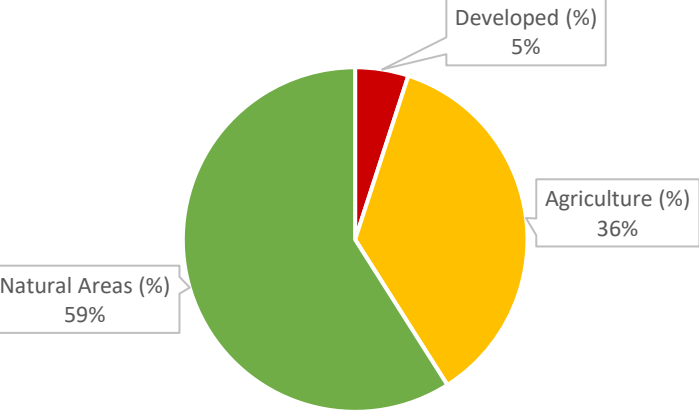
Fishing Creek 2 (FISCRE 0.49)

Monitor(s): Avery Bischoff, Brandon Ball

Site information:

- Drains 224 mi²
- Impaired: No
- Designation: Warm Water Fishes
- Geology: 100% Non-carbonate

FISCRE 0.49
Land Use



Monitoring Site Locations

Columbia Stream Team

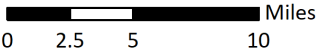
- Monitoring Sites
- Towns
- Interstate
- State Roads
- Susquehanna River
- Streams
- Water



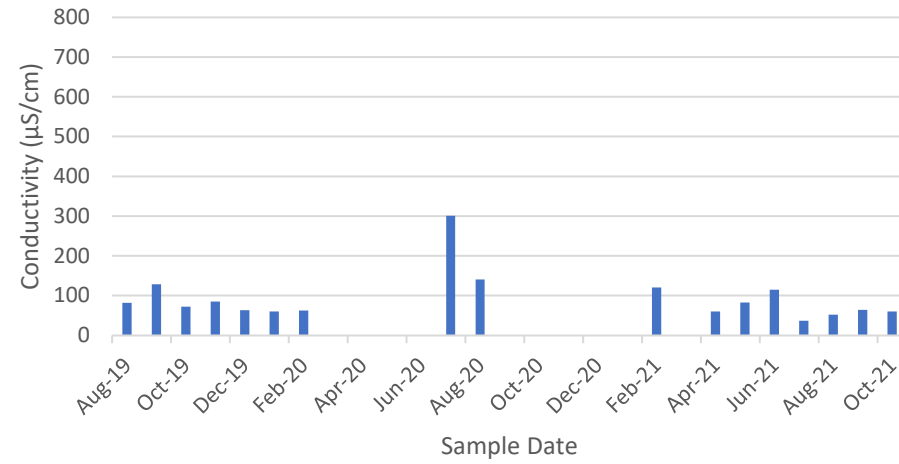
Site #	Site ID	Stream Name
1	BRICRE 0.55	Briar Creek
2	LITFISCRE 1.82	Little Fishing Creek
3	FISCRE 7.58	Fishing Creek 1
4	FISCRE 0.49	Fishing Creek 2
5	CATCRE 1.52	Catawissa Creek
6	MAHCRE 3.03	Mahoning Creek



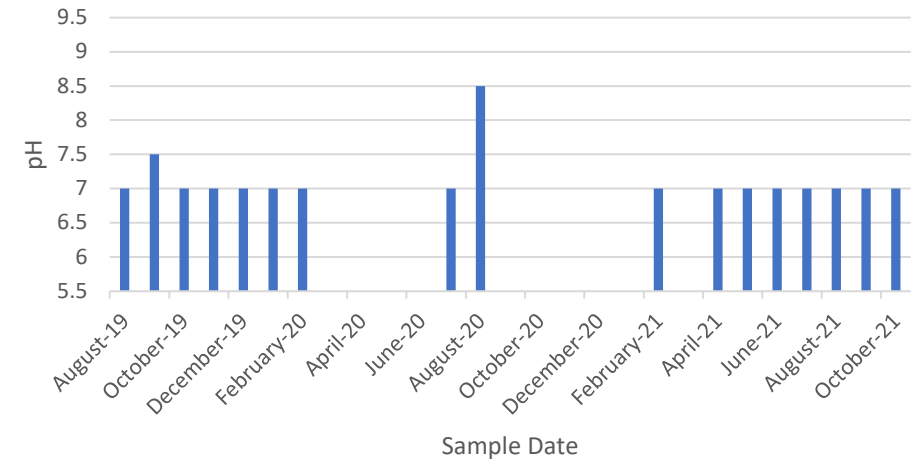
Alliance for Aquatic Resource Monitoring
Dickinson College
www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022



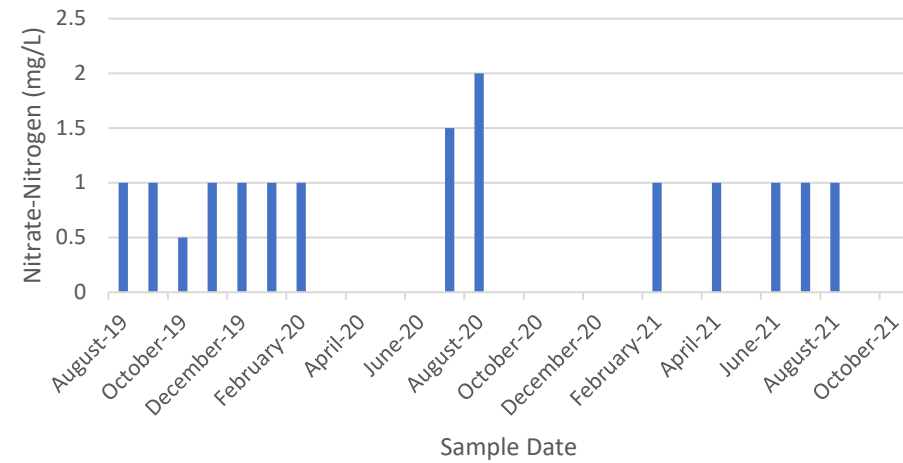
FISCRE 0.49 -- Conductivity

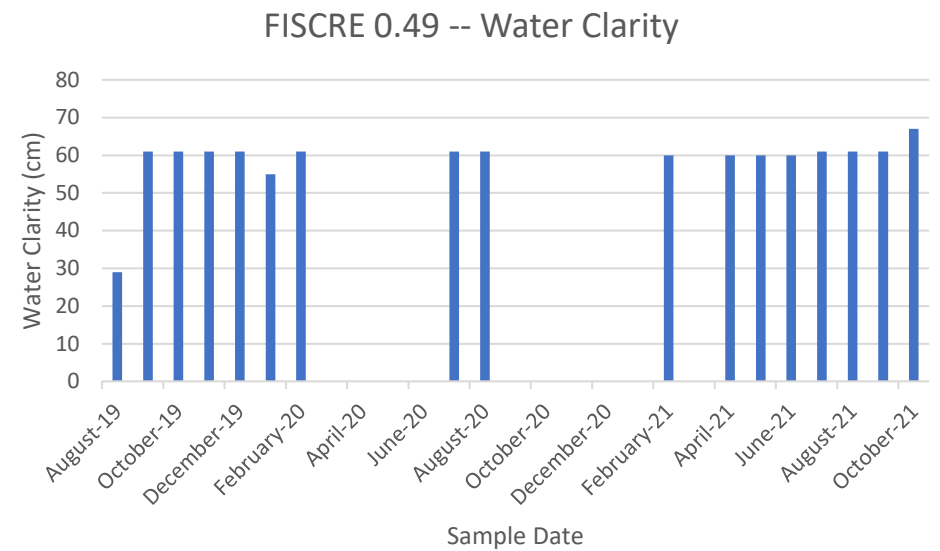
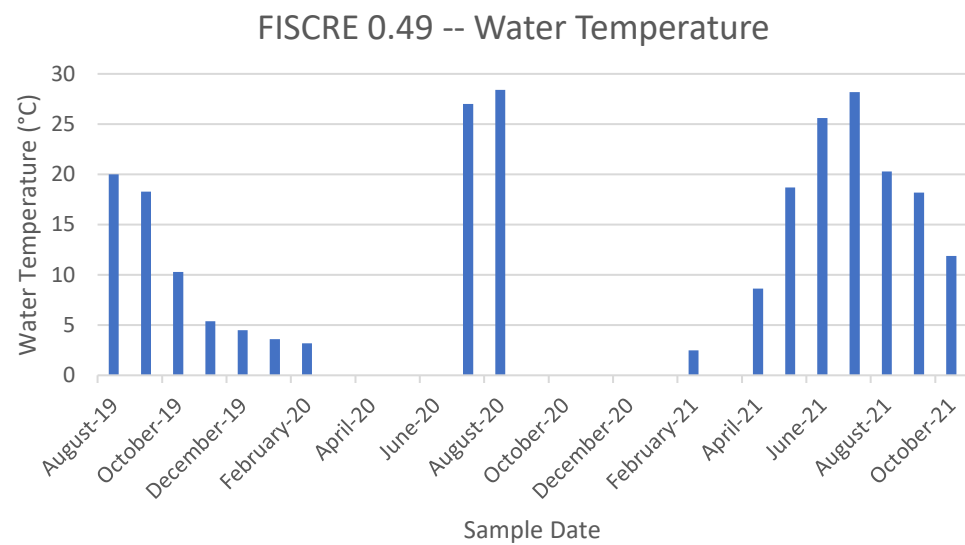


FISCRE 0.49 -- pH



FISCRE 0.49 -- Nitrate-Nitrogen





Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
8/18/2019	82	1	7	20	29
9/19/2019	128.6	1	7.5	18.3	61
10/20/2019	72.4	0.5	7	10.3	61
11/18/2019	84.8	1	7	5.4	61
12/17/2019	63	1	7	4.5	61
1/19/2020	60.2	1	7	3.6	55
2/17/2020	62.7	1	7	3.2	61
7/19/2020	301	1.5	7	27	61
8/25/2020	140.8	2	8.5	28.4	61
2/21/2021	120.1	1	7	2.5	60
4/18/2021	60.2	1	7	8.7	60
5/23/2021	83	0	7	18.7	60
6/21/2021	114.7	1	7	25.6	60
7/19/2021	36.8	1	7	28.2	61
8/22/2021	52	1	7	20.3	61
9/19/2021	64	0	7	18.2	61
10/25/2021	60	0	7	11.9	67

Summary Statistics

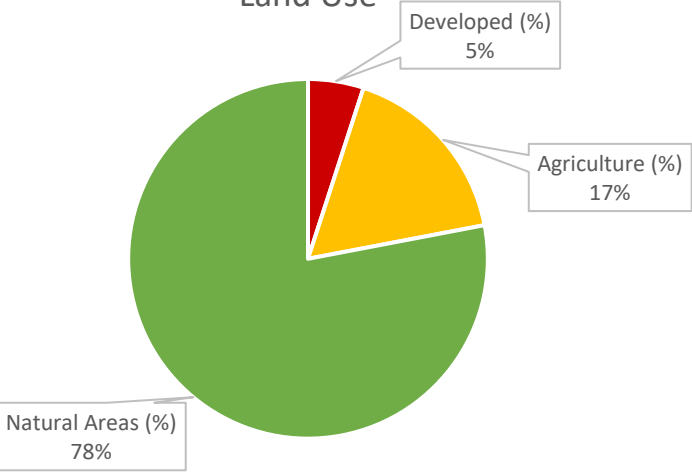
	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
Min	36.8	0	7	2.5	29
Max	301	2	8.5	28.4	67
Median	72.4	1	7	18.2	61

Catawissa Creek (CATCRE 1.52)
Monitor(s): CCCD (Sara Metz took over)

Site information:

- Drains 57 mi²
- Impaired: Yes, aquatic life, acid mine drainage
- Designation: Trout Stocking
- Geology: 100% Non-carbonate

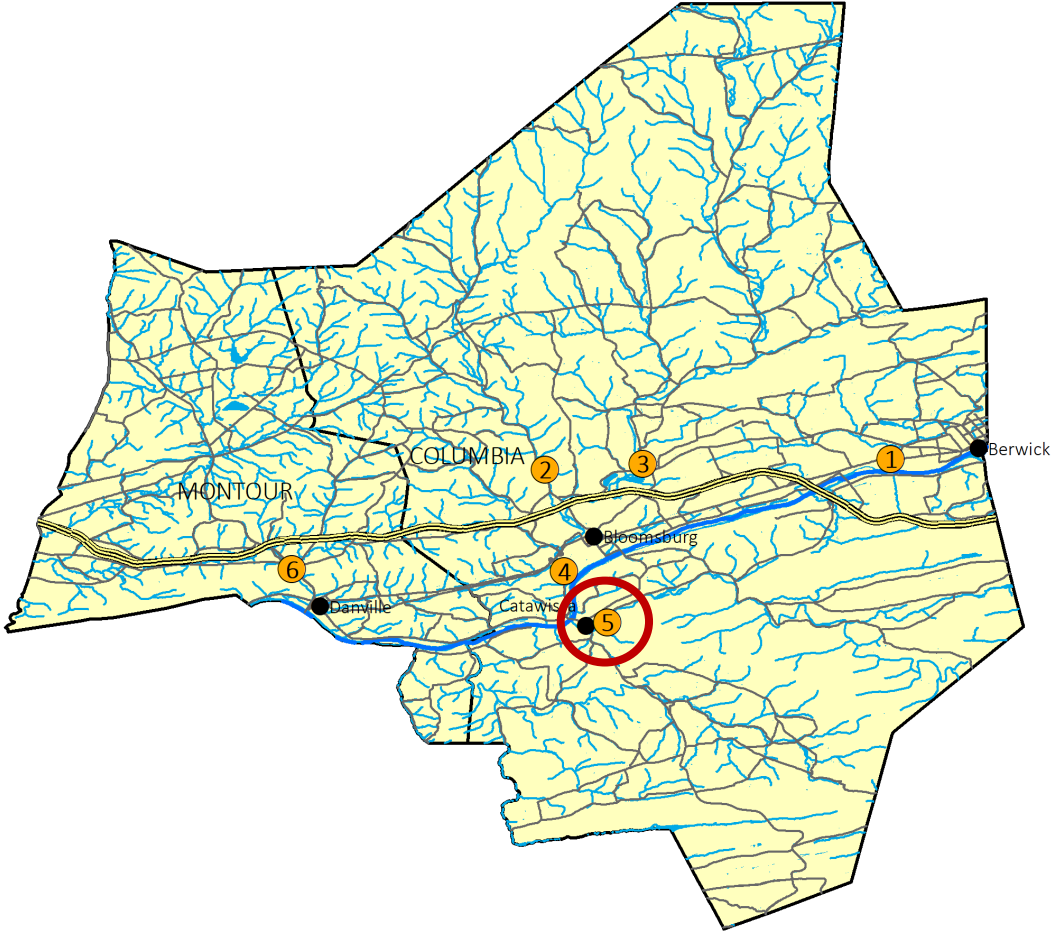
CATCRE 1.52
Land Use



Monitoring Site Locations

Columbia Stream Team

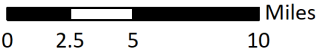
- Monitoring Sites
- Towns
- Interstate
- State Roads
- Susquehanna River
- Streams
- Water

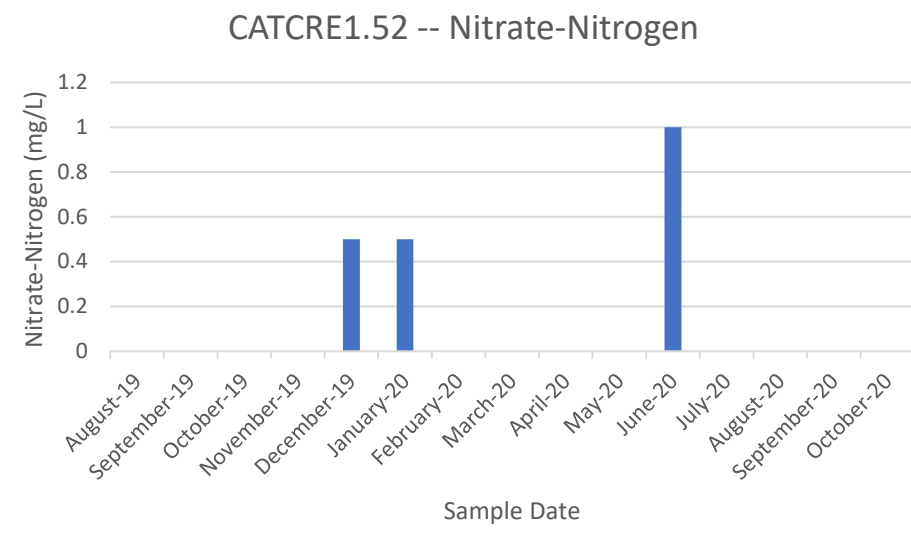
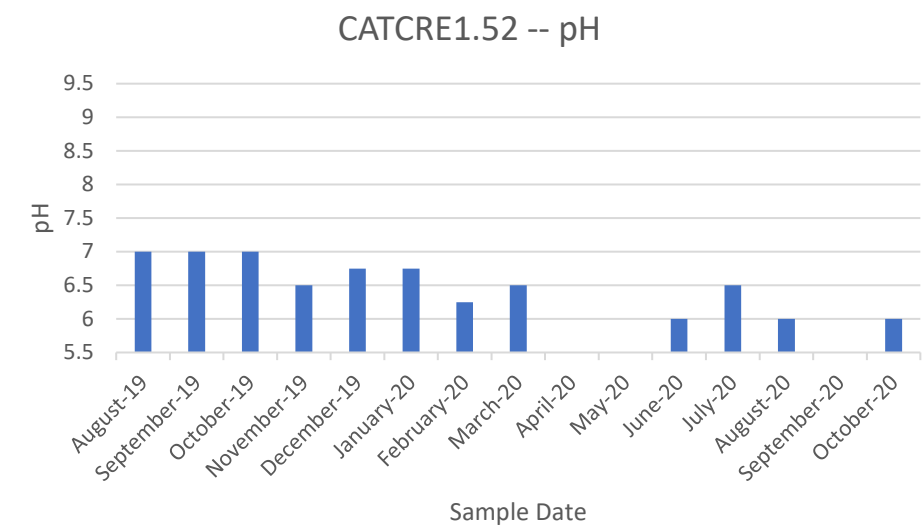
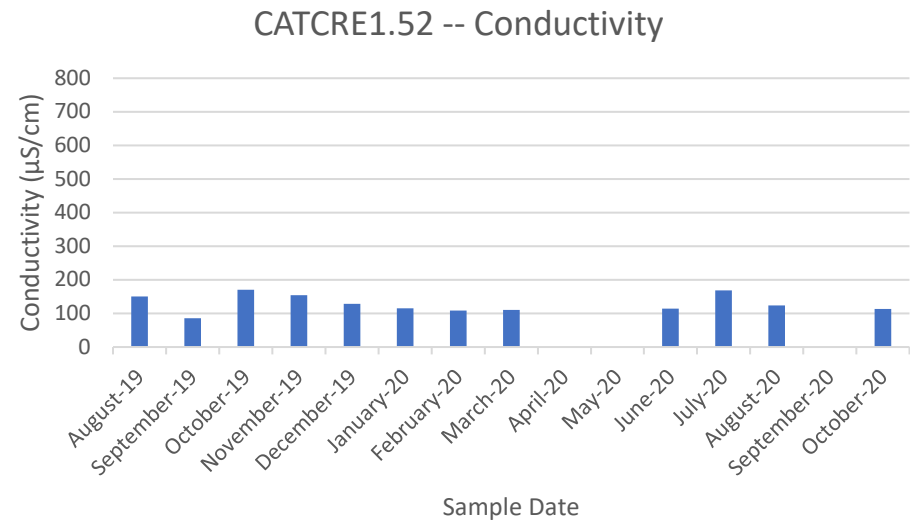


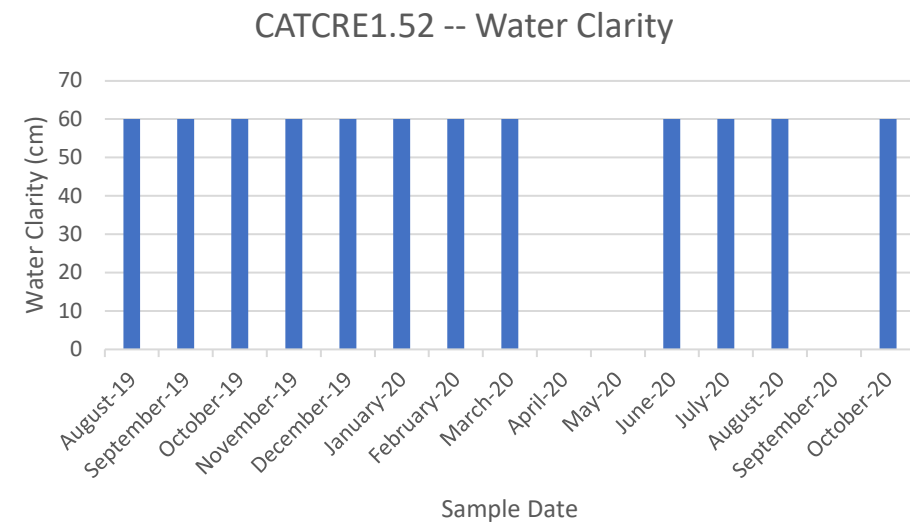
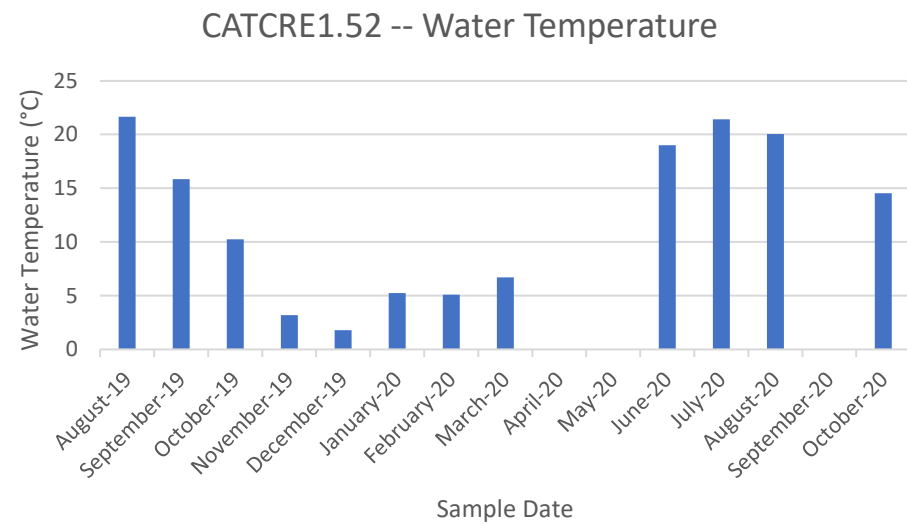
Site #	Site ID	Stream Name
1	BRICRE 0.55	Briar Creek
2	LITFISCRE 1.82	Little Fishing Creek
3	FISCRE 7.58	Fishing Creek 1
4	FISCRE 0.49	Fishing Creek 2
5	CATCRE 1.52	Catawissa Creek
6	MAHCRE 3.03	Mahoning Creek



Alliance for Aquatic Resource Monitoring
Dickinson College
www.dickinson.edu/ALLARM
Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
Map created: April 2022







Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water Clarity	Water Temperature
8/15/2019	150.1	0	7	60	21.7
9/19/2019	85.1	0	7	60	15.9
10/21/2019	170.1	0	7	60	10.3
11/18/2019	153.9	0	6.5	60	3.2
12/12/2019	128.3	0.5	6.75	60	1.8
1/16/2020	115.4	0.5	6.75	60	5.3
2/14/2020	108.1	0	6.25	60	5.1
3/12/2020	110.6	0	6.5	60	6.7
6/19/2020	113.7	1	6	60	19
7/16/2020	168.1	0	6.5	60	21.4
8/20/2020	124	0	6	60	20.1
10/16/2020	113.1	0	6	60	14.6

Summary Statistics

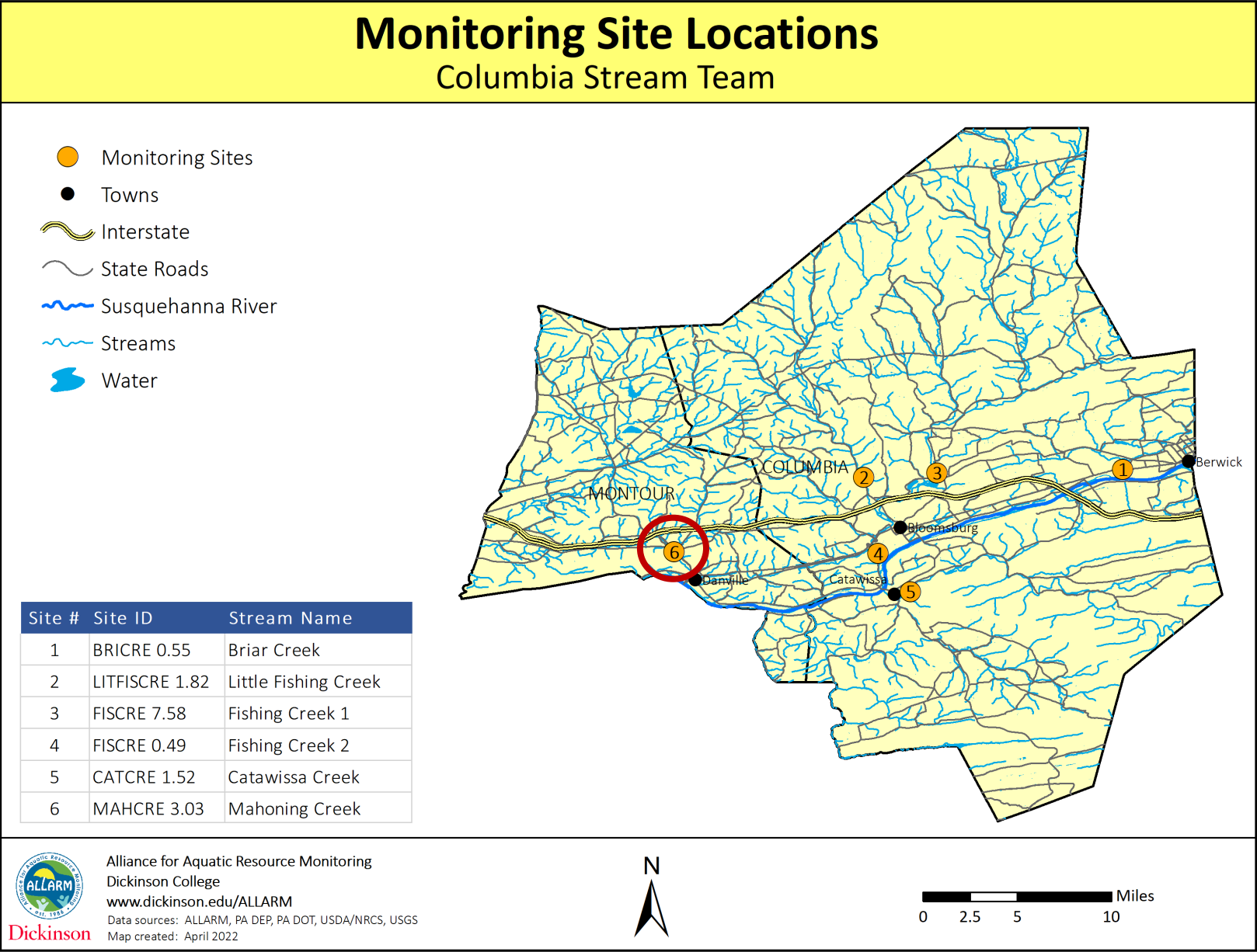
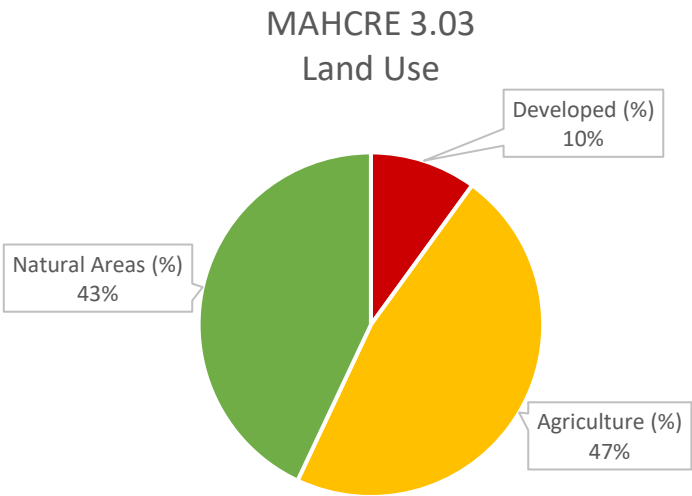
	Conductivity	Nitrate-nitrogen	pH	Water Clarity	Water Temperature
Min	85.1	0	6	60	1.8
Max	170.1	1	7	60	21.7
Median	119.7	0	6.5	60	12.4

Mahoning Creek (MAHCRE 3.03)

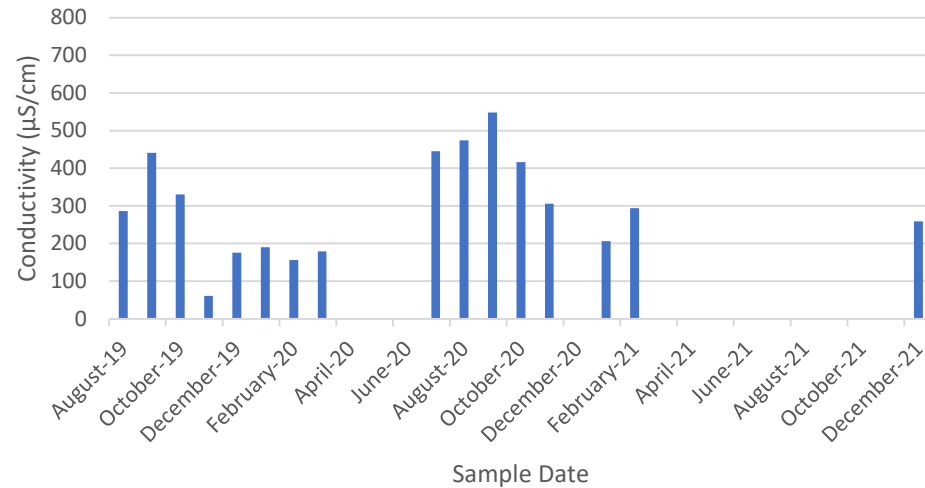
Monitor(s): Inactive

Site information:

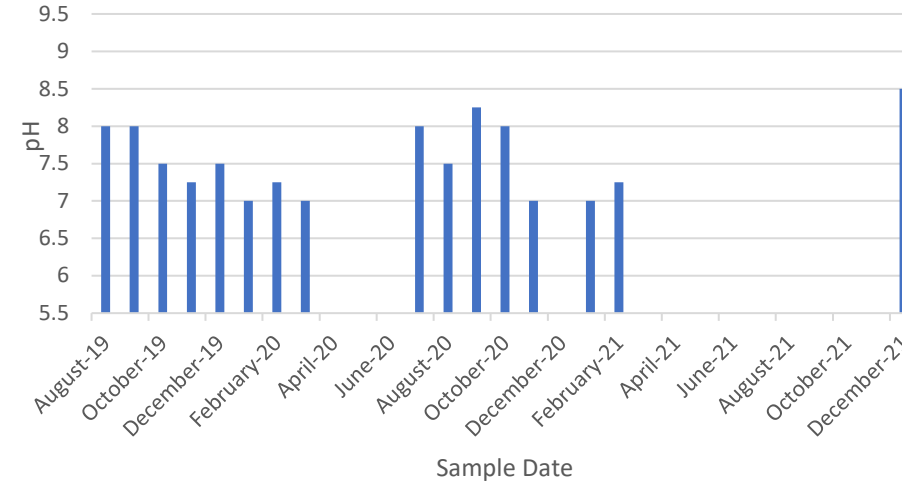
- Drains 30 mi²
- Impaired: Yes, Aquatic Life; Impairment type: Agriculture (Siltation), Urban runoff (Siltation)
- Designation: Warm Water Fishes
- Geology: 3% Carbonate, 97% Non-carbonate



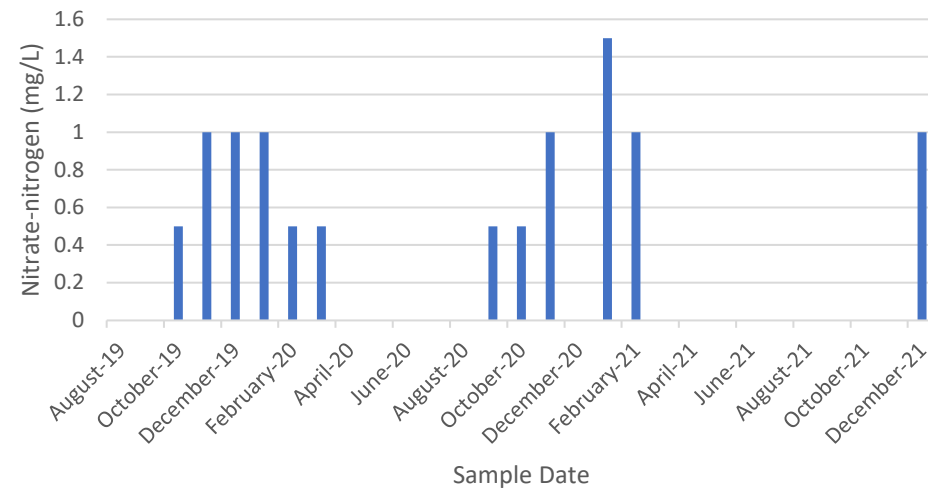
MAHCRE 3.03 -- Conductivity



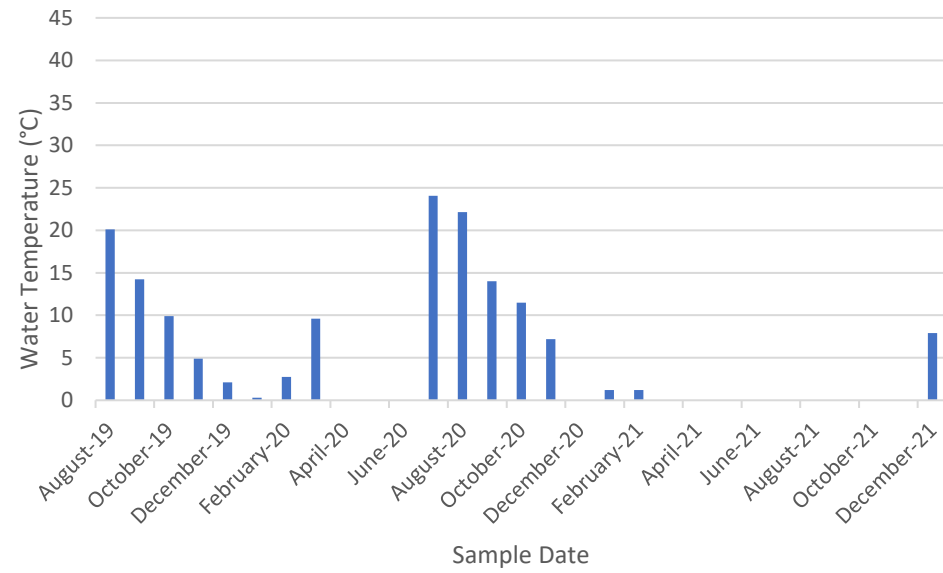
MAHCRE 3.03 -- pH



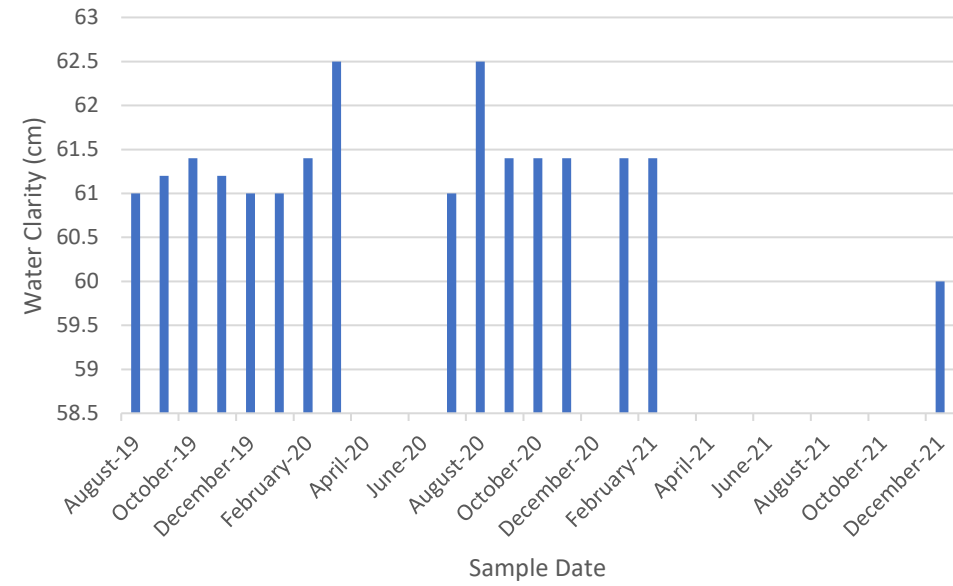
MAHCRE 3.03 -- Nitrate-nitrogen



MAHCRE 3.03 -- Water Temperature



MAHCRE 3.03 -- Water Clarity



Raw Data

Date	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
8/17/2019	286	0	8	20.1	61
9/20/2019	441	0	8	14.3	61.2
10/20/2019	330	0.5	7.5	9.9	61.4
11/17/2019	61.2	1	7.25	4.9	61.2
12/22/2019	176	1	7.5	2.1	61
1/18/2020	190.1	1	7	0.3	61
2/16/2020	156	0.5	7.25	2.8	61.4
3/15/2020	179	0.5	7	9.6	62.5
7/19/2020	445		8	24.1	61
8/16/2020	474		7.5	22.2	62.5
9/19/2020	548	0.5	8.25	14	61.4
10/18/2020	416	0.5	8	11.5	61.4
11/22/2020	306	1	7	7.2	61.4
1/24/2021	206	1.5	7	1.2	61.4
2/21/2021	294	1	7.25	1.2	61.4
12/17/2021	259	1	8.5	7.9	60

Summary Statistics

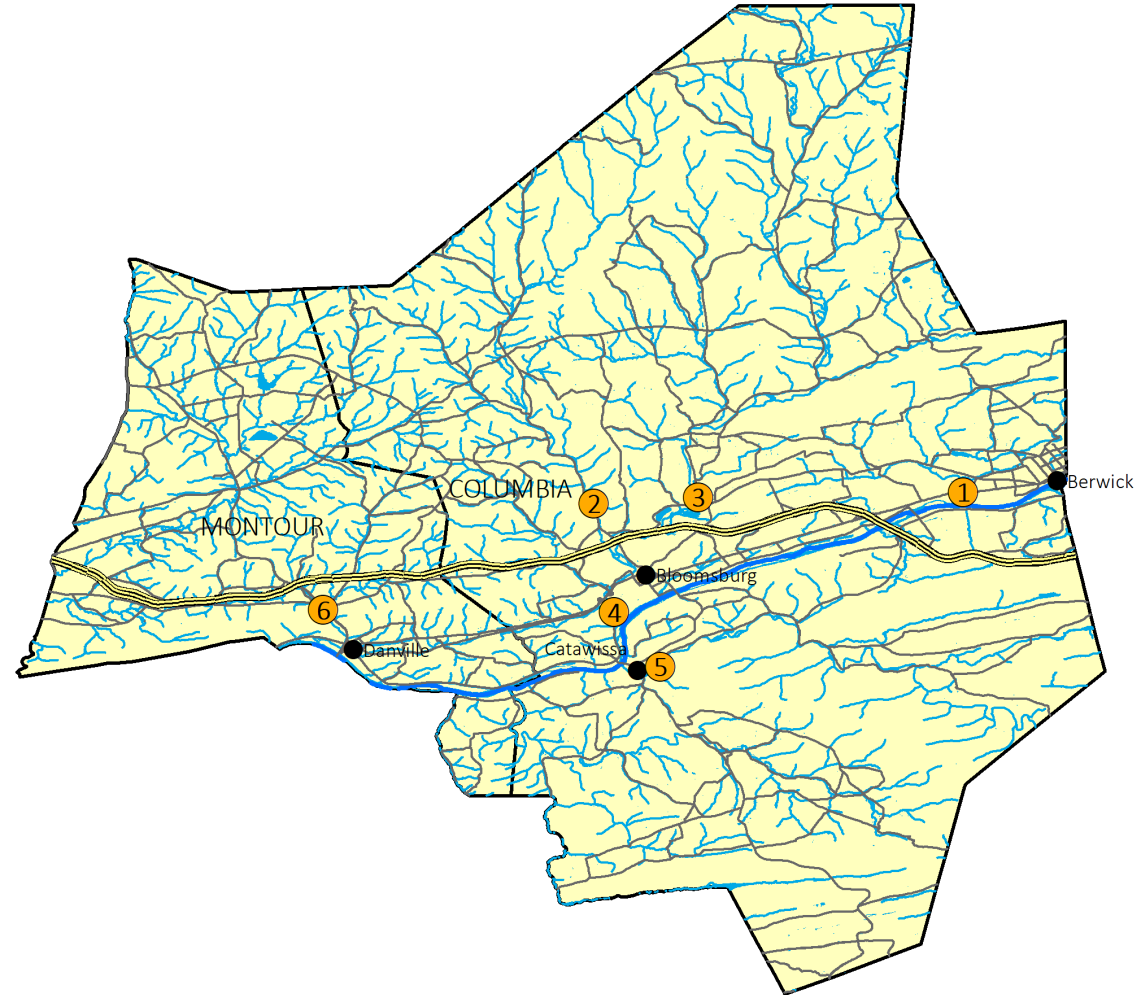
	Conductivity	Nitrate-nitrogen	pH	Water temperature	Water Clarity
Min	61.2	0	7	0.3	60
Max	548	1.5	8.5	24.1	62.5
Median	290	1	7.5	8.8	61.4

Supplemental Maps

Monitoring Site Locations

Columbia Stream Team

-  Monitoring Sites
-  Towns
-  Interstate
-  State Roads
-  Susquehanna River
-  Streams
-  Water



Site #	Site ID	Stream Name
1	BRICRE 0.55	Briar Creek
2	LITFISCRE 1.82	Little Fishing Creek
3	FISCRE 7.58	Fishing Creek 1
4	FISCRE 0.49	Fishing Creek 2
5	CATCRE 1.52	Catawissa Creek
6	MAHCRE 3.03	Mahoning Creek



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 Data sources: ALLARM, PA DEP, PA DOT, USDA/NRCS, USGS
 Map created: April 2022

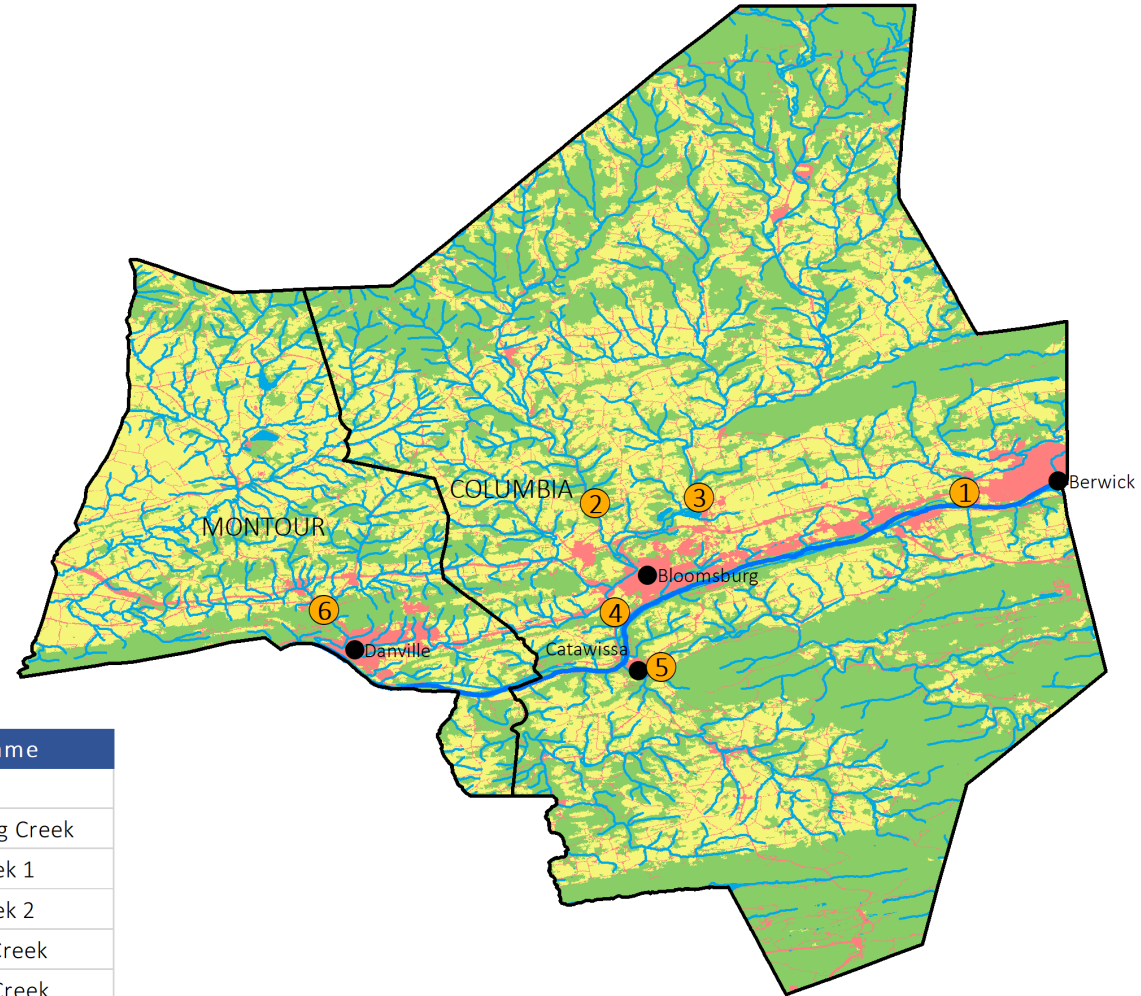


0 2.5 5 10 Miles

Land Cover

Columbia Stream Team

- Monitoring Sites
- Susquehanna River
- Streams
- Water
- Natural Areas
- Developed
- Agriculture



Site #	Site ID	Stream Name
1	BRICRE 0.55	Briar Creek
2	LITFISCRE 1.82	Little Fishing Creek
3	FISCRE 7.58	Fishing Creek 1
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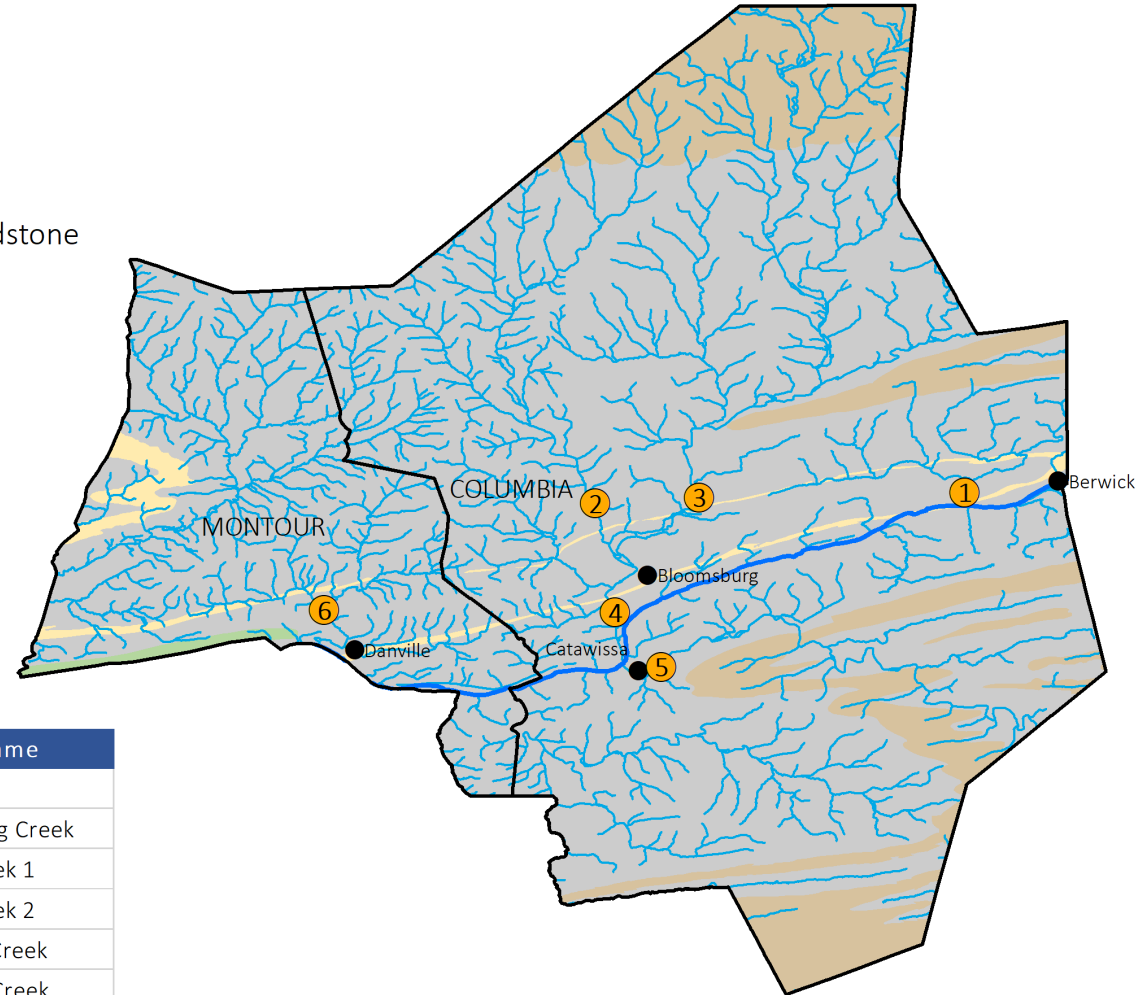


0 2.5 5 10 Miles

Geology

Columbia Stream Team

- Monitoring Sites
- Susquehanna River
- Streams
- Water
- Shale, Siltstone & Mudstone
- Sandstone
- Limestone
- Quartzite



Site #	Site ID	Stream Name
1	BRICRE 0.55	Briar Creek
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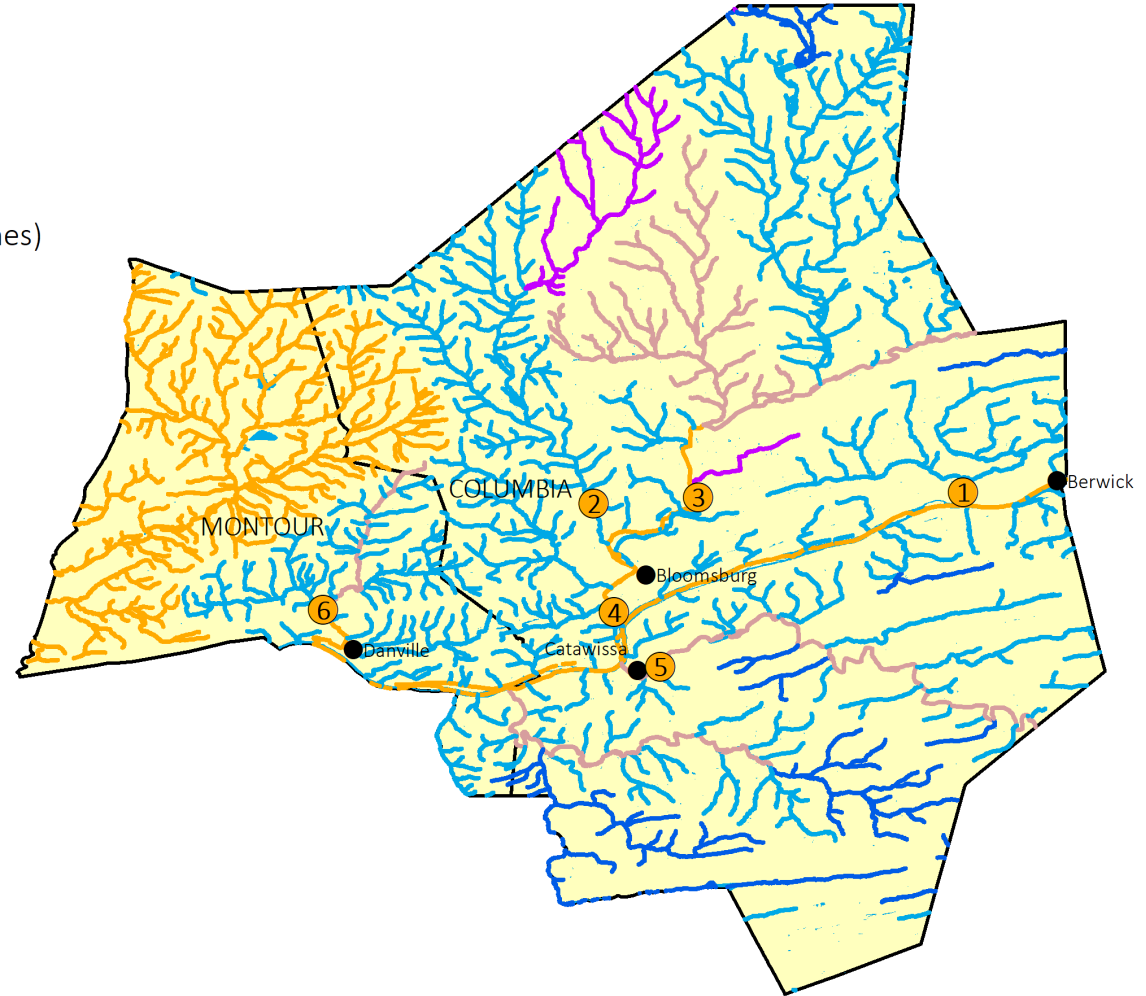


0 2.5 5 10 Miles

Stream Designated Uses

Columbia Stream Team

- Monitoring Sites
- Towns
- ~ CWF (Cold Water Fishes)
- ~ HQ-CWF (High Quality Cold Water Fishes)
- ~ EV (Exceptional Value)
- ~ TSF (Trout Stocking)
- ~ WWF (Warm Water Fishes)
- Water



Site #	Site ID	Stream Name
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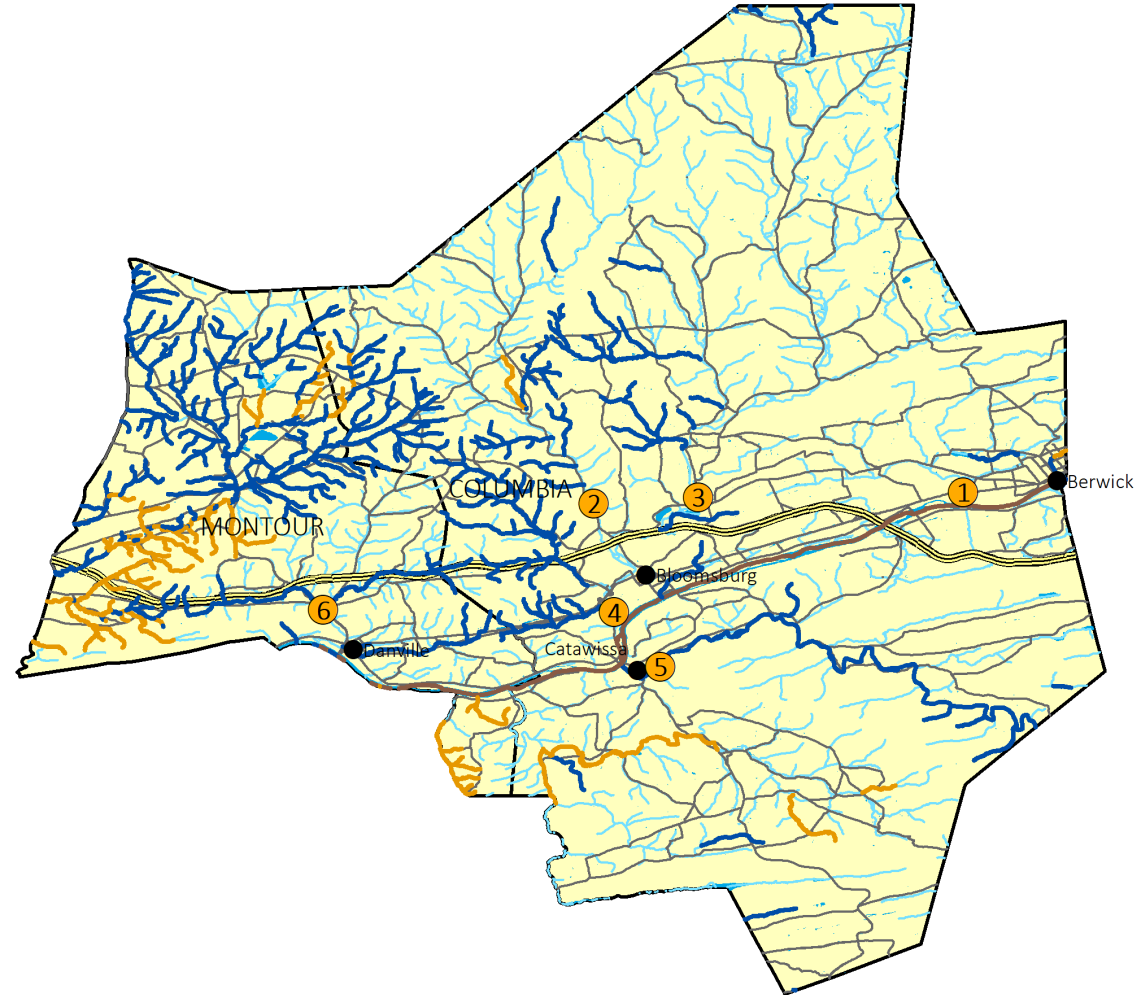


0 2.5 5 10 Miles

Impaired Streams

Columbia Stream Team

-  Monitoring Sites
-  Towns
-  Aquatic Life
-  Fish Consumption (PBCs)
-  Recreational (Bacteria)
-  Non-impaired Streams
-  Water



Site #	Site ID	Stream Name
1	BRICRE 0.55	Briar Creek
2	LITFISCRE 1.82	Little Fishing Creek
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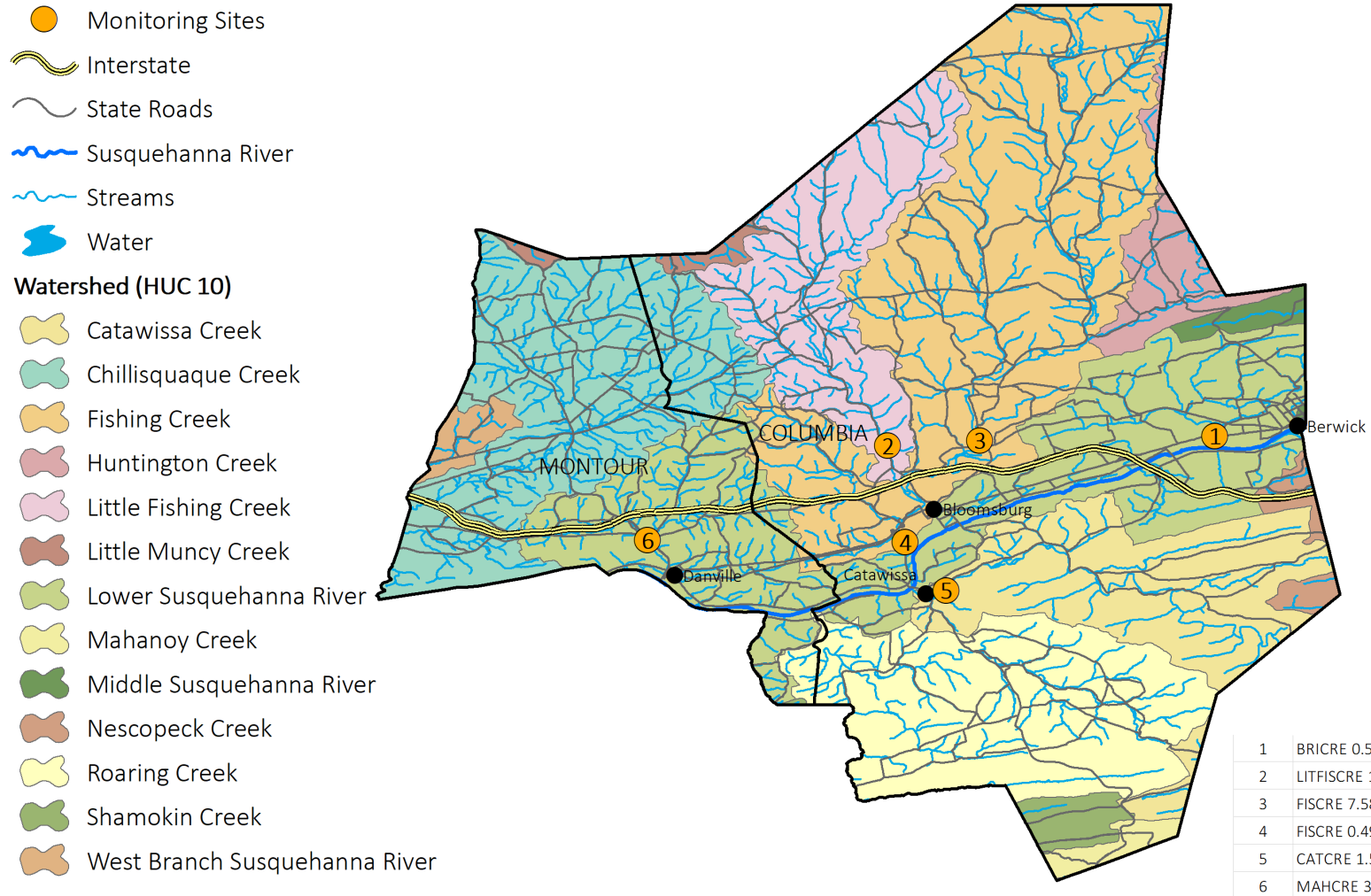
Map created: April 2022



0 2.5 5 10 Miles

Subwatersheds

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0 2.5 5 10 Miles

Thank you!

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