

Dashboard



DashBORED



LOCATION: Irwin
LOC ID: T-038
SAMPLE DATE-TIME: 09/21
SAMPLE DESCRIPTION: C

SAMPLE ID	Parameter
AH69S4	AH69S4S Temperature (Field)
AH69S4	AH69S4S pH (Field)
AH69S4	AH69S4S Chemical Oxygen D
AH69S4	AH69S4S Carbonaceous BOI
AH69S4	AH69S4S Total Suspended I
AH69S4	AH69S4S Metals Digestion
AH69S4	AH69S4S Arsenic by ICPM
AH69S4	AH69S4S Cadmium by IC
AH69S4	AH69S4S Chromium by IC
AH69S4	AH69S4S Copper by ICPM
AH69S4	AH69S4S Lead by ICPM
AH69S4	AH69S4S Molybdenum
AH69S4	AH69S4S Nickel by IC
AH69S4	AH69S4S Selenium t
AH69S4	AH69S4S Silver by IC
AH69S4	AH69S4S Zinc by IC
AH69S4	AH69S4S Mercury
AH69S4	AH69S4S Mercury
AH69S4	AH69S4S Contin
AH69S4	AH69S4S Hexan
AH69S4	AH69S4S TCDD
AH69S4	AH69S4S 1,1,1,
AH69S4	AH69S4S 1,1,
AH69S4	AH69S4S 1,1,
AH69S4	AH69S4S 1,
AH69S4	AH69S4S 1,
AH69S4	AH69S4S 1,

LOCATION: Irwin WWTP Septage Manhole (I)
LOC ID: T-038
SAMPLE DATE-TIME: 09/29/2020 01:49
SAMPLE DESCR:

LOCATION: Irwin WWTP Septage Manhole (I)
LOC ID: T-038
SAMPLE DATE-TIME: 09/29/2020 01:43
SAMPLE DESCRIPTION: Composite

AH6594

1929011

Laboratory Analysis Report
11/18/2020 15:05

LOCATION: Irwin WWTP Septage Manhole (1)
LOC ID: T-038
SAMPLE DATE-TIME: 11/11/2010 11:00

Laboratory Analysis Report
Report Date: 11/18/2020 15:05

CHAIN OF CUSTODY #: 200930014

ARLOTTE
TER
Environmental Laboratory Services
TION: Irwin WWTP Sec

LOC ID: T-038
SAMPLE DATE-TIME: 09/30/2020 07:23
SAMPLE DESCRIPTION: Composit

CHAIN OF CUSTODY #: 200930014

Page 1 of 3

d scope

Water Quality Dashboard

Sampling Event Dates

5/22/2023	5/26/2023
10/31/2022	11/4/2022
6/21/2021	6/25/2021
3/22/2021	3/26/2021
11/18/2019	11/22/2019
6/4/2018	6/8/2018
1/22/2018	1/26/2018
8/21/2017	8/25/2017
11/14/2016	11/18/2016

Sugar Facility Dashboard

Sugar Creek Trunkline Monitoring Data

COD

Select Parameter: COD

Quick Trend		
T-053		Site Info
Avg	777.50	mg/L
Min	720.00	mg/L
Max	820.00	mg/L
Date	5/23/2023	

Unifirst

Sugar		
Avg	743.3	mg/L
Min	690.0	mg/L
Max	780.0	mg/L
Date	5/22/2023	

Quick Trend		
T-021*		Site Info
Avg	907.50	mg/L
Min	750.00	mg/L
Max	1,100.00	mg/L
Date	5/23/2023	

AlSCO

Barnhardt

Cargill

Norfol

Quick Trend		
T-030		Site Info
Avg	930.00	mg/L
Min	750.00	mg/L
Max	1,100.00	mg/L
Date	5/24/2023	

T-025		Site Info
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Quick Trend		
T-010*		Site Info
Avg	845.00	mg/L
Min	770.00	mg/L
Max	980.00	mg/L
Date	5/25/2023	

Quick Trend		
T-031		Site Info
Avg	883.33	mg/L
Min	830.00	mg/L
Max	950.00	mg/L
Date	5/24/2023	

Allied Metal

AO Smith

Charlston Spar

Hardcoatings

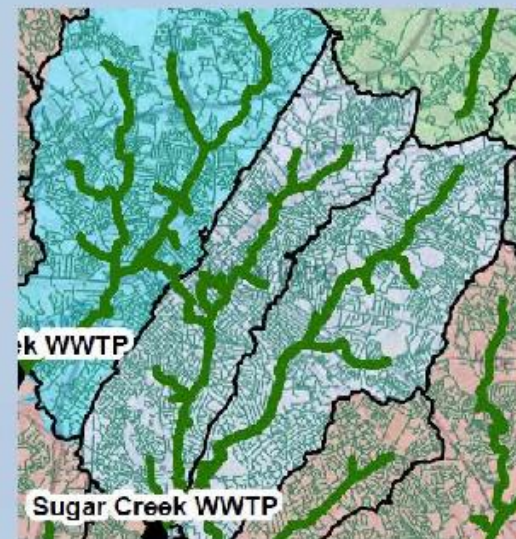
Orbit Energy

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site



Sampling Event Dates	
5/22/2023	5/26/2023
10/31/2022	11/4/2022
6/21/2021	6/25/2021
3/22/2021	3/26/2021
11/18/2019	11/22/2019
6/4/2018	6/8/2018
1/22/2018	1/26/2018
8/21/2017	8/25/2017
11/14/2016	11/18/2016

May 2023



Monitoring Data

Quick Trend	
621*	Site Info
907.50	mg/L
750.00	mg/L
1,100.00	mg/L
5/23/2023	

HazMat

hern

<<

Quick Trend	
T-030	Site Info
Avg 930.00	mg/L
Min 750.00	mg/L
Max 1,100.00	mg/L
Date 5/24/2023	

^
^
^

Quick Trend	
T-031	Site Info
Avg 883.33	mg/L
Min 830.00	mg/L
Max 950.00	mg/L
Date 5/24/2023	

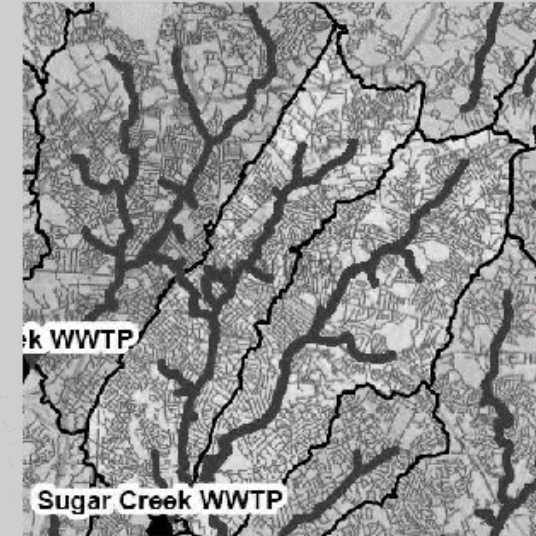
Allied Metal

Orbit Energy

AO Smith

Charlston Spar

Hardcoatings



Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site

W

Se

5/2

10/

6/2

3/2

11/

6/

1/2

8/2

11/

Su

Quick Trend		
T-053		Site Info
Avg	777.50	mg/L
Min	720.00	mg/L
Max	820.00	mg/L
Date	5/23/2023	

Unifirst

Quick Trend		
T-025		Site Info
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Sugar		
Avg	743.3	mg/L
Min	690.0	mg/L
Max	780.0	mg/L
Date	5/22/2023	

Quick Trend		
T-010*		Site Info
Avg	845.00	mg/L
Min	770.00	mg/L
Max	980.00	mg/L
Date	5/25/2023	

Quick Trend		
T-024		Site Info
Avg	688.00	mg/L
Min	580.00	mg/L
Max	900.00	mg/L
Date	5/25/2023	

Quick Trend		
T-021*		Site Info
Avg	907.50	mg/L
Min	750.00	mg/L
Max	1,100.00	mg/L
Date	5/23/2023	

Alsco

Barnhardt

Cargil

Norfolk Southern

HazMat

Quick Trend		
T-030		Site Info
Avg	930.00	mg/L
Min	750.00	mg/L
Max	1,100.00	mg/L
Date	5/24/2023	

Quick Trend		
T-031		Site Info
Avg	883.33	mg/L
Min	830.00	mg/L
Max	950.00	mg/L
Date	5/24/2023	

Allied Metal

Orbit Energy

AO Smith

Charlston Spar

Hardcoatings



Sugar Creek Trunkline Monitoring Data

COD

[illegible]

Select Parameter: COD

Unifirst \gg

AlSCO

 \gg \wedge

Quick Tr

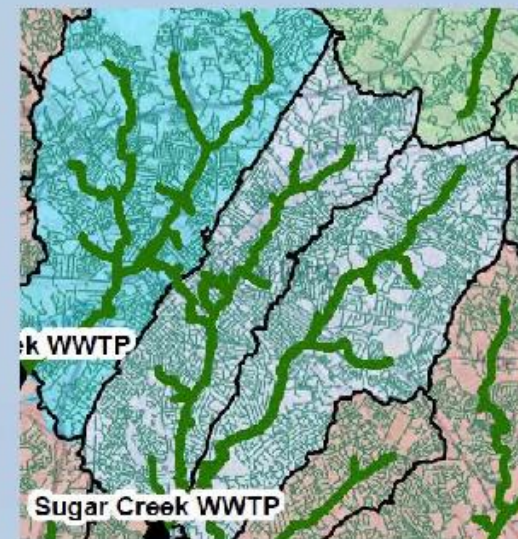
Allied Metal
AO Smith
Charlston S
Hardcoating

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site



Water Quality Dashboard

Sampling Event Dates

5/22/2023	5/26/2023
10/31/2022	11/4/2022
6/21/2021	6/25/2021
3/22/2021	3/26/2021
11/18/2019	11/22/2019
6/4/2018	6/8/2018
1/22/2018	1/26/2018
8/21/2017	8/25/2017
11/14/2016	11/18/2016

Sugar Creek Trunkline Monitoring Data

COD

Select Parameter: COD

Quick Trend		
T-053		Site Info
Avg	777.50	mg/L
Min	720.00	mg/L
Max	820.00	mg/L
Date	5/23/2023	

Unifirst

Sugar		
Avg	743.3	mg/L
Min	690.0	mg/L
Max	780.0	mg/L
Date	5/22/2023	

Quick Trend		
T-021*		Site Info
Avg	907.50	mg/L
Min	750.00	mg/L
Max	1,100.00	mg/L
Date	5/23/2023	

AlSCO

Barnhardt

Cargill

Norfol

Quick Trend		
T-030		Site Info
Avg	930.00	mg/L
Min	750.00	mg/L
Max	1,100.00	mg/L
Date	5/24/2023	

T-025		Site Info
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Quick Trend		
T-010*		Site Info
Avg	845.00	mg/L
Min	770.00	mg/L
Max	980.00	mg/L
Date	5/25/2023	

Quick Trend		
T-031		Site Info
Avg	883.33	mg/L
Min	830.00	mg/L
Max	950.00	mg/L
Date	5/24/2023	

Allied Metal

Orbit Energy

AO Smith

Charlston Spar

Hardcoatings

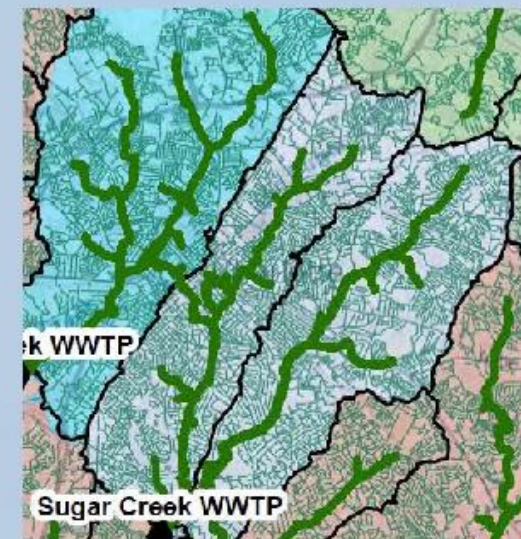
Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site



Sugar Creek Trunkline Monitoring Data

[illegible]

Sugar Facility Dashboard

Unifirst

1

1

1

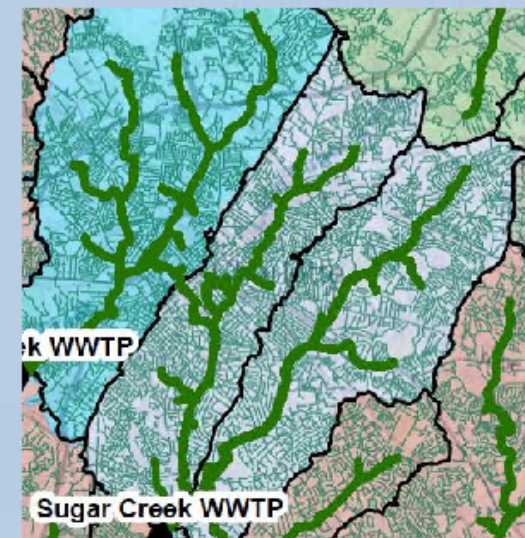
Also

AlSCO
Barnhardt
Cargil
Norfolk Southern

1

Allied

Allied Metal	Orbit Energy
AO Smith	
Charlton Spar	
Hardcoatings	



Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site

Water Quality Dashboard

[illegible]

Sugar Facility Dashboard

Sugar Creek Trunkline Monitoring Data Ammonia

Select Parameter: Ammonia

Quick Trend		
T-053		Site Info
Avg	32.50	mg/L
Min	31.00	mg/L
Max	33.00	mg/L
Date 5/22/2023		

Unifirst

Sugar		
Avg	30.8	mg/L
Min	22.0	mg/L
Max	39.0	mg/L
Date	5/26/2023	

Quick Trend		
T-021*		Site Info
Avg	45.50	mg/L
Min	38.00	mg/L
Max	49.00	mg/L
Date	5/23/2023	

AlSCO

Barnhardt

Cargill

Norfolk Southern

Quick Trend		
T-030		Site Info
Avg	42.80	mg/L
Min	33.00	mg/L
Max	54.00	mg/L
Date	5/26/2023	

Quick Trend		
T-031		Site Info
Avg	60.67	mg/L
Min	30.00	mg/L
Max	84.00	mg/L
Date	5/26/2023	

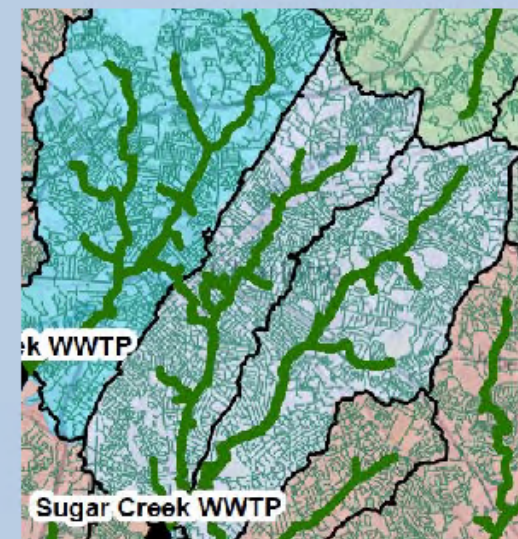
Allied Metal

AO Smith

Charlston Spar

Hardcoatings

Orbit Energy



Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site

Quick Trend

T-021*

Site Info

Avg **45.50** **mg/L**

Min **38.00** **mg**

Max **49.00** **mg/L**

Date **5/23/2023**

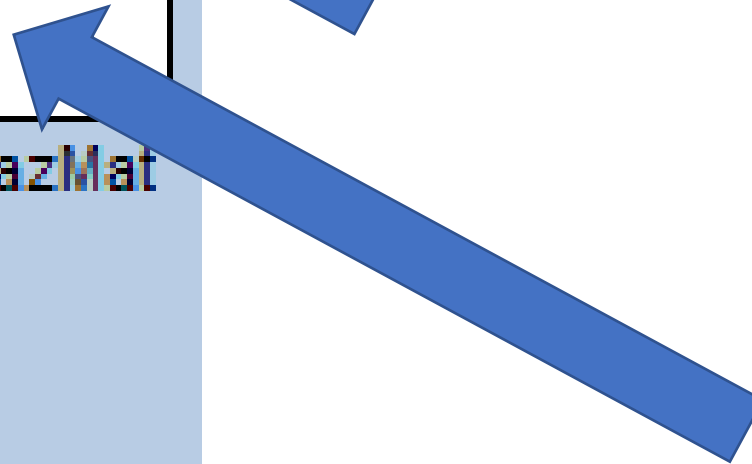
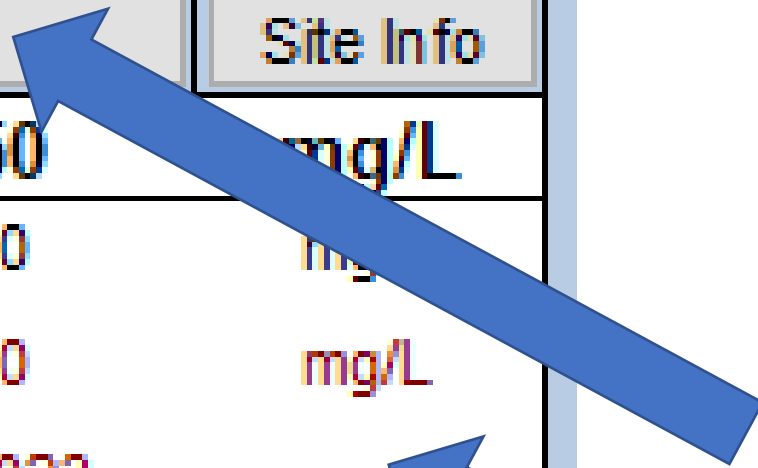
Alsco

HazMat

Barnhardt

Cargil

Norfolk Southern



K14	...	=VT(201060,6,1)
-----	-----	-----------------

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
4																											
5			201000	201005	201020	201030	201035	201040	201050	201055	201060	201065	201070	201075	201080				201085	201090	201095	201100	201105	201110	201115	201120	
6			T-021 Alkalinity	T-021 Ammonia	T-021 CBOD	T-021 COD	T-021 Copper	T-021 Cyanide	T-021 HEM	T-021 Lead	T-021 Mercury	T-021 Molybdenum	T-021 Nickel	T-021 Nitrate/Nitrite	T-021 pH				T-021 Selenium	T-021 Silver	T-021 Temperature	T-021 TKN	T-021 Total Phosphorus	T-021 TSS	T-021 Volatile Acids	T-021 Zinc	
7		Date	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	SU			Date	µg/L	µg/L	Deg C	mg/L	mg/L	mg/L	mg/L	µg/L	
9		5/1/2023																5/1/2023									
10		5/2/2023																5/2/2023									
11		5/3/2023																5/3/2023									
12		5/4/2023																5/4/2023									
13		5/5/2023																5/5/2023									
14		5/6/2023																5/6/2023									
15		5/7/2023																5/7/2023									
16		5/8/2023																5/8/2023									
17		5/9/2023																5/9/2023									
18		5/10/2023																5/10/2023									
19		5/11/2023																5/11/2023									
20		5/12/2023																5/12/2023									
21		5/13/2023																5/13/2023									
22		5/14/2023																5/14/2023									
23		5/15/2023																5/15/2023									
24		5/16/2023																5/16/2023									
25		5/17/2023																5/17/2023									
26		5/18/2023																5/18/2023									
27		5/19/2023																5/19/2023									
28		5/20/2023																5/20/2023									
29		5/21/2023																5/21/2023									
30		5/22/2023	271	38.00	448.0	920	50.0	<10	21.0	<5.0	<0.2	<5.0	9.2	0.08	7.83		5/22/2023	<5.0	<1.0	22.6	63.00	38.00	372.0			130.0	
31		5/23/2023	339	49.00	492.0	1,100	240.0		16.0	5.9		5.4	28.0	0.25	8.39		5/23/2023	<5.0	<1.0	21.8	74.00	49.00	416.0	169		190.0	
32		5/24/2023													8.08		5/24/2023			21.9							
33		5/25/2023	299	46.00	357.0	750	36.0	<10	24.0	5.0	0.7	<5.0	5.9	<0.05	7.75		5/25/2023	<5.0	2.8	22.5	64.00	46.00	278.0			120.0	
34		5/26/2023	321	49.00	385.0	860	35.0	<10	26.0	5.0	<0.2	<5.0	8.4	<0.05	7.61		5/26/2023	<5.0	2.0	19.8	54.00	49.00	186.0			120.0	
35		5/27/2023																5/27/2023									
36		5/28/2023																5/28/2023									
37		5/29/2023																5/29/2023									
38		5/30/2023																5/30/2023									
39		5/31/2023																5/31/2023									
41		Minimum	271	38.00	357.0	750	35.0	<10	16.0	<5.0	<0.2	<5.0	5.9	<0.05	7.61		Minimum	<5.0	<1.0	19.8	54.00	38.00	186.0	169		120.0	
42		Maximum	339	49.00	492.0	1,100	240.0	<10	26.0	5.9	0.7	5.4	28.0	0.25	8.39		Maximum	<5.0	2.8	22.6	74.00	49.00	416.0	169		190.0	
43		Average	308	45.50	420.5	908	90.3	<0	21.8	<4.0	<0.2	<1.4	12.9	<0.08	7.93		Average	<0.0	<1.2	21.7	63.75	45.50	313.0	169		140.0	
44																											

Quick Trend

T-021*

Site Info

Avg **45.50** **mg/L**

Min 38.00 mg/L

Max 49.00 mg/L

Date 5/23/2023

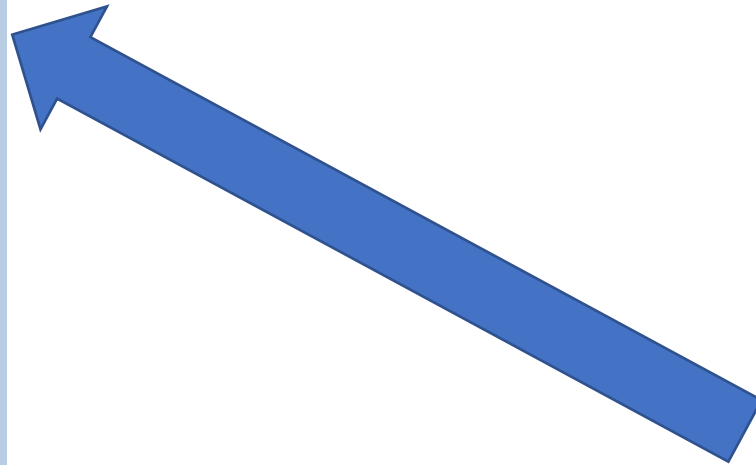
AlSCO

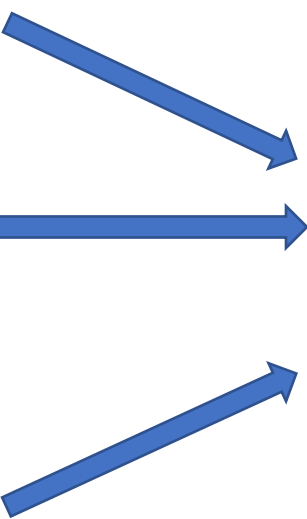
HazMat

Barnhardt

Cargil

Norfolk Southern





Trunkline Site: T-021	
Address:	Tyvola Rd-across from Sugar WWTP
MH#, Diameter, Depth:	2189,54in,17.8ft
IUs Upstream:	Alsco Barnhardt Cargil Norfolk Southern HazMat

Basin: Sugar

Quick Trend

T-021*

Site Info

Avg **45.50** **mg/L**

Min 38.00 mg/L

Max 49.00 mg/L

Date 5/23/2023

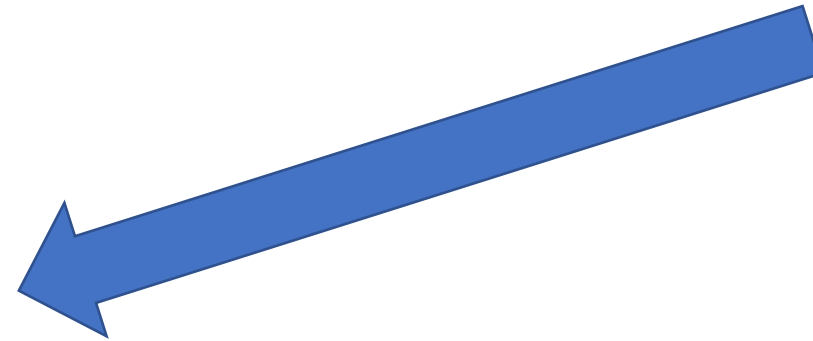
AlSCO

HazMat

Barnhardt

Cargil

Norfolk Southern



Water Quality Dashboard

Sampling Event Dates

5/22/2023	5/26/2023
10/31/2022	11/4/2022
6/21/2021	6/25/2021
3/22/2021	3/26/2021
11/18/2019	11/22/2019
6/4/2018	6/8/2018
1/22/2018	1/26/2018
8/21/2017	8/25/2017
11/14/2016	11/18/2016

Sugar Facility Dashboard

Sugar Creek Trunkline Monitoring Data Ammonia

Select Parameter: Ammonia

NAME LIKE 'WT-053 Ammonia'

Quick Trend		
T-053	Site Info	
Avg	32.50	mg/L
Min	31.00	mg/L
Max	33.00	mg/L
Date	5/22/2023	

Unifirst

Quick Trend		
Sugar	Site Info	
Avg	30.8	mg/L
Min	22.0	mg/L
Max	39.0	mg/L
Date	5/26/2023	

Quick Trend		
T-021*	Site Info	
Avg	45.50	mg/L
Min	38.00	mg/L
Max	49.00	mg/L
Date	5/23/2023	

Alsco

Barnhardt

Cargil

Norfolk Southern

Quick Trend		
T-030	Site Info	
Avg	42.80	mg/L
Min		mg/L
Max		mg/L
Date	5/26/2023	

HazMat

Quick Trend		
T-025	Site Info	
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Quick Trend		
T-010*	Site Info	
Avg	38.00	mg/L
Min	38.00	mg/L
Max	38.00	mg/L
Date	5/23/2023	

Quick Trend		
T-024	Site Info	
Avg	34.20	mg/L
Min	31.00	mg/L
Max	38.00	mg/L
Date	5/25/2023	

Quick Trend		
T-031	Site Info	
Avg	60.67	mg/L
Min	30.00	mg/L
Max	84.00	mg/L
Date	5/26/2023	

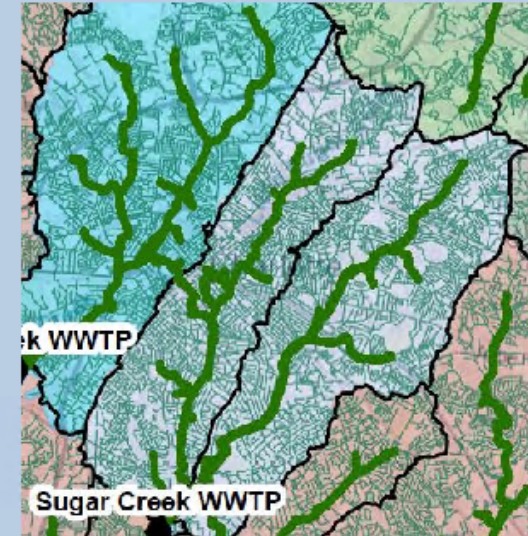
Allied Metal

AO Smith

Charleston Spar

Hardcoatings

Orbit Energy



Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site

Water Quality Dashboard

[illegible]

Sugar Facility Dashboard

Sugar Creek Trunkline Monitoring Data Ammonia

Select Parameter: Ammonia

Quick Trend		
T-053		Site Info
Avg	32.50	mg/L
Min	31.00	mg/L
Max	33.00	mg/L
Date	5/22/2023	

Unifirst

Sugar		
Avg	30.8	mg/L
Min	22.0	mg/L
Max	39.0	mg/L
Date	5/26/2023	

Quick Trend		
T-021*		Site Info
Avg	45.50	mg/L
Min	38.00	mg/L
Max	49.00	mg/L
Date	5/23/2023	

Also

Barnhardt

Cargill

Norfol

Norfolk Southern

Quick Trend		
T-030		Site Info
Avg	42.80	mg/L
Min	33.00	mg/L
Max	54.00	mg/L
5/26/2023		

T-025		Site Info
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Quick Trend		
T-010*		Site Info
Avg	38.00	mg/L
Min	38.00	mg/L
Max	38.00	mg/L
Date	5/23/2023	

Quick Trends		
T-031		Site
Avg	60.67	mg/L
Min	30.00	mg/L
Max	84.00	mg/L
Date	5/26/2023	

Allied Metal

Orbit Energy

AO Smith

Charlston Spar

Hardcoatings

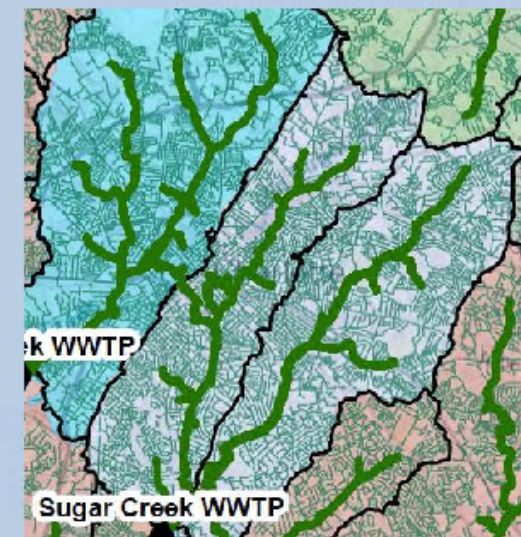
Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site



Sugar Basin 624 Hits

Date Range: 5/1/2023 - 5/31/2023

Date	Location	Parameter	Result
5/22/2023	T-021	\$624 Chloroform	4.2 µg/L
5/23/2023	T-010	\$624 Chloroform	3.1 µg/L
5/23/2023	T-010	\$624 Toluene	2.9 µg/L
5/23/2023	T-021	\$624 Chloroform	3.4 µg/L
5/24/2023	T-010	\$624 Chloroform	2.5 µg/L
5/24/2023	T-010	\$624 Toluene	3.4 µg/L
5/25/2023	T-010	\$624 Chloroform	2.3 µg/L
5/25/2023	T-010	\$624 Methylene chloride	6.7 µg/L
5/25/2023	T-010	\$624 Toluene	3.4 µg/L
5/25/2023	T-021	\$624 Chloroform	3.5 µg/L
5/26/2023	T-010	\$624 Chloroform	2.3 µg/L
5/26/2023	T-010	\$624 Methylene chloride	2 µg/L
5/26/2023	T-010	\$624 Toluene	3.8 µg/L
5/26/2023	T-021	\$624 Chloroform	3.5 µg/L

Sugar Basin 625 Hits

Date Range: 5/1/2023 - 5/31/2023

Date	Location	Parameter	Result
5/22/2023	T-021	\$625 Di-n-octylphthalate	7.8 µg/L
5/22/2023	T-021	\$625 Phenol	5.4 µg/L
5/23/2023	T-010	\$625 Di-n-octylphthalate	13 µg/L
5/23/2023	T-010	\$625 Phenol	11 µg/L
5/23/2023	T-021	\$625 Phenol	12 µg/L
5/24/2023	T-010	\$625 Di-n-octylphthalate	11 µg/L
5/24/2023	T-010	\$625 Phenol	11 µg/L
5/25/2023	T-010	\$625 Di-n-octylphthalate	15 µg/L
5/25/2023	T-021	\$625 Di-n-octylphthalate	19 µg/L
5/26/2023	T-010	\$625 Phenol	12 µg/L
5/26/2023	T-021	\$625 Phenol	8.5 µg/L

Water Quality Dashboard

[illegible]

Sugar Facility Dashboard

Sugar Creek Trunkline Monitoring Data Ammonia

Select Parameter: Ammonia

Quick Trend		
T-053		Site Info
Avg	32.50	mg/L
Min	31.00	mg/L
Max	33.00	mg/L
Date 5/22/2023		

Unifirst

Sugar		
Avg	30.8	mg/L
Min	22.0	mg/L
Max	39.0	mg/L
Date	5/26/2023	

Quick Trend		
T-021*		Site Info
Avg	45.50	mg/L
Min	38.00	mg/L
Max	49.00	mg/L
Date	5/23/2023	

AlSCO

Barnhardt

Cargill

Norfolk

Norfolk Southern

Quick Trend		
T-030		Site Info
Avg	42.80	mg/L
Min	33.00	mg/L
Max	54.00	mg/L
Date	5/26/2023	

T-025		Site Info
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Quick Trend		
T-010*		Site Info
Avg	38.00	mg/L
Min	38.00	mg/L
Max	38.00	mg/L
Date	5/23/2023	

T-03		In for
Avg	60.67	
Min	30.00	
Max	84.00	mg/L
Date	5/26/2023	

Quick Trend		
T-024		Site Info
Avg	34.20	mg/L
Min	31.00	mg/L
Max	38.00	mg/L
Date	5/25/2023	

Allied Metal

AO Smith

Charlston Spar

Hardcoatings

Orbit Energy

A map of the Sugar Creek watershed. The watershed boundary is shown as a thick black line. The Sugar Creek Wastewater Treatment Plant (WWTP) is marked with a black dot and labeled 'Sugar Creek WTP'. The map is color-coded: the area within the watershed boundary is light blue, and the area outside is light green. The Sugar Creek river is shown as a thick black line. The map also shows the locations of other WWTPs: 'Rocky Mountain WTP' to the north and 'Sugar Creek WTP' to the south.

Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site

Multi Parameter, Single Site

Spread Report View - WQ - Sugar T-021

K14 ...=VT(201060,6,1)							
	A	B	C	D	E	F	G
4							
5			201000 T-021 Alkalinity	201005 T-021 Ammonia	201020 T-021 CBOD	201030 T-021 COD	201035 T-021 Copper
6							201040 T-021 Cyanide
7		Date	mg/L	mg/L	mg/L	mg/L	µg/L
9		5/1/2023					
10		5/2/2023					
11		5/3/2023					
12		5/4/2023					
13		5/5/2023					
14		5/6/2023					
15		5/7/2023					
16		5/8/2023					
17		5/9/2023					
18		5/10/2023					
19		5/11/2023					
20		5/12/2023					
21		5/13/2023					
22		5/14/2023					
23		5/15/2023					
24		5/16/2023					
25		5/17/2023					
26		5/18/2023					
27		5/19/2023					
28		5/20/2023					
29		5/21/2023					
30		5/22/2023	271	38.00	448.0	920	50.0
31		5/23/2023	339	49.00	492.0	1,100	240.0
32		5/24/2023					
33		5/25/2023	299	46.00	357.0	750	36.0
34		5/26/2023	321	49.00	385.0	860	35.0
35		5/27/2023					
36		5/28/2023					
37		5/29/2023					
38		5/30/2023					
39		5/31/2023					
41		Minimum	271	38.00	357.0	750	35.0
42		Maximum	339	49.00	492.0	1,100	240.0
43		Average	308	45.50	420.5	908	90.3
44							

G	H	J	K	M	N	P	Q
Monitoring Data T-021				Select Site to View: T-021			
COD		Copper		Cyanide		HEM	
367.3	Avg	898.2	Avg	55.0	Avg	3.9	Avg
258	Min	510	Min	15	Min	0	Min
507	Max	1,500	Max	370	Max	16	Max
17	Count	17	Count	22	Count	17	Count
Result	Date	Result	Date	Result	Date	Result	Date
266	11/18/2019	560	11/18/2019	17	11/18/2019	<10	11/18/2019
398	11/19/2019	1,100	11/19/2019	48	11/19/2019	<10	11/19/2019
320	11/20/2019	740	11/20/2019	21	11/20/2019	<10	11/20/2019
366	11/21/2019	600	11/21/2019	23	11/21/2019	<10	11/21/2019
345	11/22/2019	780	11/22/2019	21	11/22/2019	<10	11/22/2019
258	6/21/2021	510	3/22/2021	46	6/21/2021	<10	6/21/2021
380	6/22/2021	900	3/23/2021	34	6/22/2021	<10	6/22/2021
384	6/23/2021	1,400	3/24/2021	31	6/23/2021	16	6/23/2021
429	6/24/2021	1,300	3/25/2021	25	6/24/2021	<10	6/24/2021
507	6/25/2021	1,500	3/26/2021	20	6/25/2021	<10	6/25/2021
360	11/1/2022	620	6/21/2021	18	11/1/2022	<10	11/1/2022
349	11/2/2022	860	6/22/2021	34	11/2/2022	<10	11/2/2022
362	11/3/2022	820	6/23/2021	120	11/3/2022	<10	11/3/2022
442	11/4/2022	930	6/24/2021	92	11/4/2022	<10	11/4/2022
350	5/24/2023	950	6/25/2021	110	5/24/2023	<10	5/24/2023
406	5/25/2023	870	11/1/2022	15	5/25/2023	<10	5/25/2023
322	5/26/2023	830	11/2/2022	26	5/26/2023	<10	5/26/2023

Water Quality Dashboard

[illegible]

Sugar Facility Dashboard

Sugar Creek Trunkline Monitoring Data

Select Parameter: Ammonia

Quick Trend		
T-053		Site Info
Avg	32.50	mg/L
Min	31.00	mg/L
Max	33.00	mg/L
Date 5/22/2023		

Unifirst

Sugar		
Avg	30.8	mg/L
Min	22.0	mg/L
Max	39.0	mg/L
Date	5/26/2023	

Quick Trend		
T-021*		Site Info
Avg	45.50	mg/L
Min	38.00	mg/L
Max	49.00	mg/L
Date	5/23/2023	

AlSCO

Barnhardt

Cargil

Norfolk Southern

Quick Trend		
T-030		Site Info
Avg	42.80	mg/L
Min	33.00	mg/L
Max	54.00	mg/L
Date	5/26/2023	

T-025		Site Info
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Quick Trend		
T-010*		Site Info
Avg	38.00	mg/L
Min	38.00	mg/L
Max	38.00	mg/L
Date	5/23/2023	

Quick Trend	
T-031	Site Info
60.67	mg/L
	mg/L
Max	mg/L
Date 5/26/	

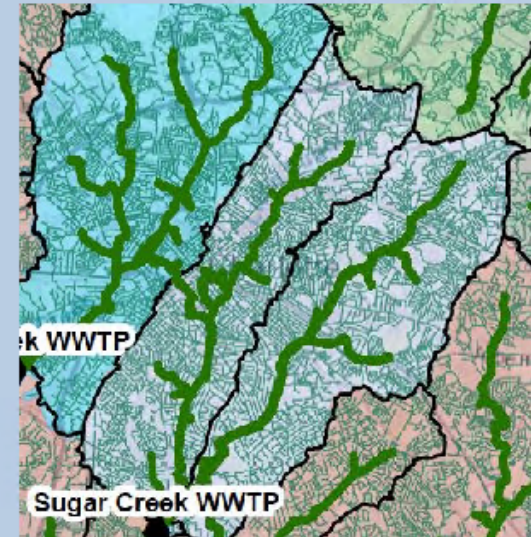
Quick Trend		
T-024		Site Info
Avg	34.20	mg/L
Min	31.00	mg/L
Max	38.00	mg/L
Date	5/25/2023	

Allied Metal

AO Smith

Charlston Spar

Hardcoatings



Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site

Single Parameter, Multi-Site

Select Parameter: Total Phosphorus

T-031			T-053			T-010			T-024			T-025		
Date	VarNum	Result	Date	VarNum	Result	Date	VarNum	Result	Date	VarNum	Result	Date	VarNum	Result
11/18/2019	205105	6	11/19/2019	206105	6	11/19/2019	200105	7	11/18/2019	202105	5	11/18/2019	203105	6
11/19/2019	205105	17	11/21/2019	206105	6	11/21/2019	200105	7	11/19/2019	202105	5	11/19/2019	203105	6
11/20/2019	205105	7	11/22/2019	206105	6	11/22/2019	200105	6	11/20/2019	202105	6	11/20/2019	203105	5
11/21/2019	205105	7	6/20/2021	206105	5	6/21/2021	200105	5	11/21/2019	202105	4	11/21/2019	203105	6
11/22/2019	205105	7	6/22/2021	206105	6	6/22/2021	200105	6	11/22/2019	202105	6	11/22/2019	203105	6
6/21/2021	205105	5	6/23/2021	206105	6	6/23/2021	200105	5	6/20/2021	202105	5	6/21/2021	203105	5
6/22/2021	205105	8	6/24/2021	206105	6	6/24/2021	200105	6	6/22/2021	202105	5	6/22/2021	203105	6
6/23/2021	205105	27	6/25/2021	206105	6	6/25/2021	200105	6	6/23/2021	202105	5	6/23/2021	203105	6
6/24/2021	205105	20	10/31/2022	206105	7	10/31/2022	200105	7	6/24/2021	202105	5	6/24/2021	203105	6
6/25/2021	205105	26	11/1/2022	206105	7	11/1/2022	200105	6	6/25/2021	202105	5	6/25/2021	203105	6
11/1/2022	205105	8	11/2/2022	206105	7	11/2/2022	200105	6	10/31/2022	202105	5	10/31/2022	203105	7
11/2/2022	205105	8	11/3/2022	206105	7	11/3/2022	200105	7	11/1/2022	202105	5	11/1/2022	203105	6
11/3/2022	205105	8	11/4/2022	206105	7	11/4/2022	200105	7	11/2/2022	202105	5	11/2/2022	203105	7
11/4/2022	205105	11	5/22/2023	206105	6	5/23/2023	200105	6	11/3/2022	202105	5	11/3/2022	203105	7
5/24/2023	205105	20	5/23/2023	206105	6	5/24/2023	200105	7	11/4/2022	202105	6	11/4/2022	203105	7
5/25/2023	205105	14	5/25/2023	206105	6	5/25/2023	200105	6	5/22/2023	202105	5	5/25/2023	203105	7

Water Quality Dashboard

[illegible]

Sugar Facility Dashboard

Sugar Creek Trunkline Monitoring Data

Select Parameter: Ammonia

Quick Trend		
T-053		Site Info
Avg	32.50	mg/L
Min	31.00	mg/L
Max	33.00	mg/L
Date 5/22/2023		

Unifirst

Sugar		
Avg	30.8	mg/L
Min	22.0	mg/L
Max	39.0	mg/L
Date	5/26/2023	

Quick Trend		
T-021*		Site Info
Avg	45.50	mg/L
Min	38.00	mg/L
Max	49.00	mg/L
Date	5/23/2023	

AlSCO

Barnhardt

Cargil

Norfolk Southern

Quick Trend		
T-030		Site Info
Avg	42.80	mg/L
Min	33.00	mg/L
Max	54.00	mg/L
Date	5/26/2023	

T-025		Site Info
Avg	0.00	mg/L
Min	0.00	mg/L
Max	0.00	mg/L
Date		

Quick Trend		
T-010*		Site Info
Avg	38.00	mg/L
Min	38.00	mg/L
Max	38.00	mg/L
Date	5/23/2023	

Quick Trend		
T-031		Site Info
Avg	60.67	mg/L
Min	30.00	mg/L
Max	84.00	mg/L
Date	5/26/2023	

Allied Metal

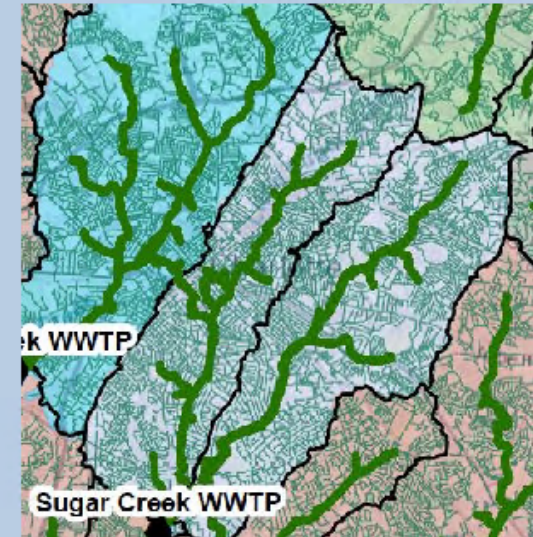
Orbit Energy

AO Smith

Charlston Spar

Hardcoatings

Quick Trend		
T-024		Site Info
Avg	34.20	mg/L
Min	31.00	mg/L
Max	38.00	mg/L
Date	5/25/2023	



Flow/Rainfall Data

*Organics Analyses performed

624 and 625 Report

Multi-Parameter, Single Site

Single Parameter, Multi-Site

IRWIN BYPASS

T-040		Site Info
Avg	5.8	mg/L
Min	4.6	mg/L
Max	7.7	mg/L
Date	3/30/2022	



T-052		Site Info
Avg	mg/L	
Min	mg/L	
Max	mg/L	
Date		



RETIRED

T-047		Site Info
Avg	6.0	mg/L
Min	4.7	mg/L
Max	7.0	mg/L
Date	3/29/2022	



STEELE CREEK

T-037		Site Info
Avg	6.1	mg/L
Min	4.1	mg/L
Max	7.7	mg/L
Date	11/3/2017	

Aplix
Siemens

SUGAR CREEK

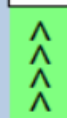
T-055		Site Info
Avg	9.5	mg/L
Min	5.8	mg/L
Max	13.0	mg/L
Date	9/20/2021	



T-028		Site Info
Avg	7.2	mg/L
Min	6.0	mg/L
Max	9.2	mg/L
Date	3/2/2017	



T-009		Site Info
Avg	6.5	mg/L
Min	5.9	mg/L
Max	7.0	mg/L
Date	8/29/2018	



Duff Norton
Waste Connections of NC

Steele Crk Lift Stn	
Avg	0.0
Min	0.0
Max	0.0
Date	

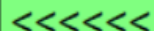
RETIRED

T-048	Site Info
Avg	
Min	
Max	
Date	



Charlotte Plating
Snyder's Lance

T-008*		Site Info
Avg	6.0	mg/L
Min	4.1	mg/L
Max	7.0	mg/L
Date	8/31/2018	



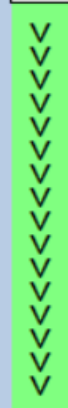
T-014		Site Info
Avg	8.9	mg/L
Min	6.3	mg/L
Max	13.0	mg/L
Date	8/30/2018	

Arjobex, Bakkavor
Brenntag, Cintas 99k
Frito Lay

IGM Resins
Inolex
Safe Fleet

Quick Trend

T-007*		Site Info
Avg	5.9	mg/L
Min	3.5	mg/L
Max	7.8	mg/L
Date	9/21/2021	



McAlpine		
Avg	6.3	mg/L
Min	3.3	mg/L
Max	10.0	mg/L
Date	6/17/2019	

What's It Good For

- More efficient data review process
- Visual of special relationships between sampling sites
- Investigations/narrow down source of a problem

FOR REFERENCE

Laying the Groundwork: Variable Name

E7

= CONCAT("Name like '%T-022 ", \$H\$5, " ")

	A	B	C	D	E	F	G	H	I	J
1										
2		Water Quality Dashboard								
3										
4										
5					Select Parameter:	Total Phosphorus				
6		Sampling Event Dates			Name like "%T-022 Total Phosphorus"					
7		1/23/2023	1/27/2023		Quick Trend					
8		10/31/2022	11/4/2022		T-022					
9		3/28/2022	4/1/2022		Avg	5.6	mg/L			
10		9/20/2021	9/24/2021		Min	2.7	mg/L			
11		6/21/2021	6/25/2021		Max	8.9	mg/L			
12		9/28/2020	10/2/2020		Date	2/17/2019				
13		11/18/2019	11/22/2019							

Laying the Groundwork: Variable Number

G13

= VINFO(E7,"VarNum")

	A	B	C	D	E	F	G	H	I	J
1										
2		Water Quality Dashboard								
3										
4										
5										
6		Sampling Event Dates								
7		1/23/2023	1/27/2023							
8		10/31/2022	11/4/2022							
9		3/28/2022	4/1/2022							
10		9/20/2021	9/24/2021							
11		6/21/2021	6/25/2021							
12		9/28/2020	10/2/2020							
13		11/18/2019	11/22/2019							

Select Parameter: Total Phosphorus

Name like "%T-022 Total Phosphorus"

Quick Trend

T-022		
Avg	5.6	mg/L
Min	2.7	mg/L
Max	8.9	mg/L
Date	2/17/2019	113105

Populating Data:

=MVSTAT("Avg",1,"R",G13)

=MVSTAT("Min",1,"R",G13)

=MVSTAT("Max",1,"R",G13)

=DSORT(G13,1,"D","Short Date","R",1)

Select Parameter:		Total Phosphorus
Name like "%T-022 Total Phosphorus"		
Quick Trend		
T-022		
Avg	5.6	mg/L
Min	2.7	mg/L
Max	8.9	mg/L
Date	2/17/2019	113105

G13