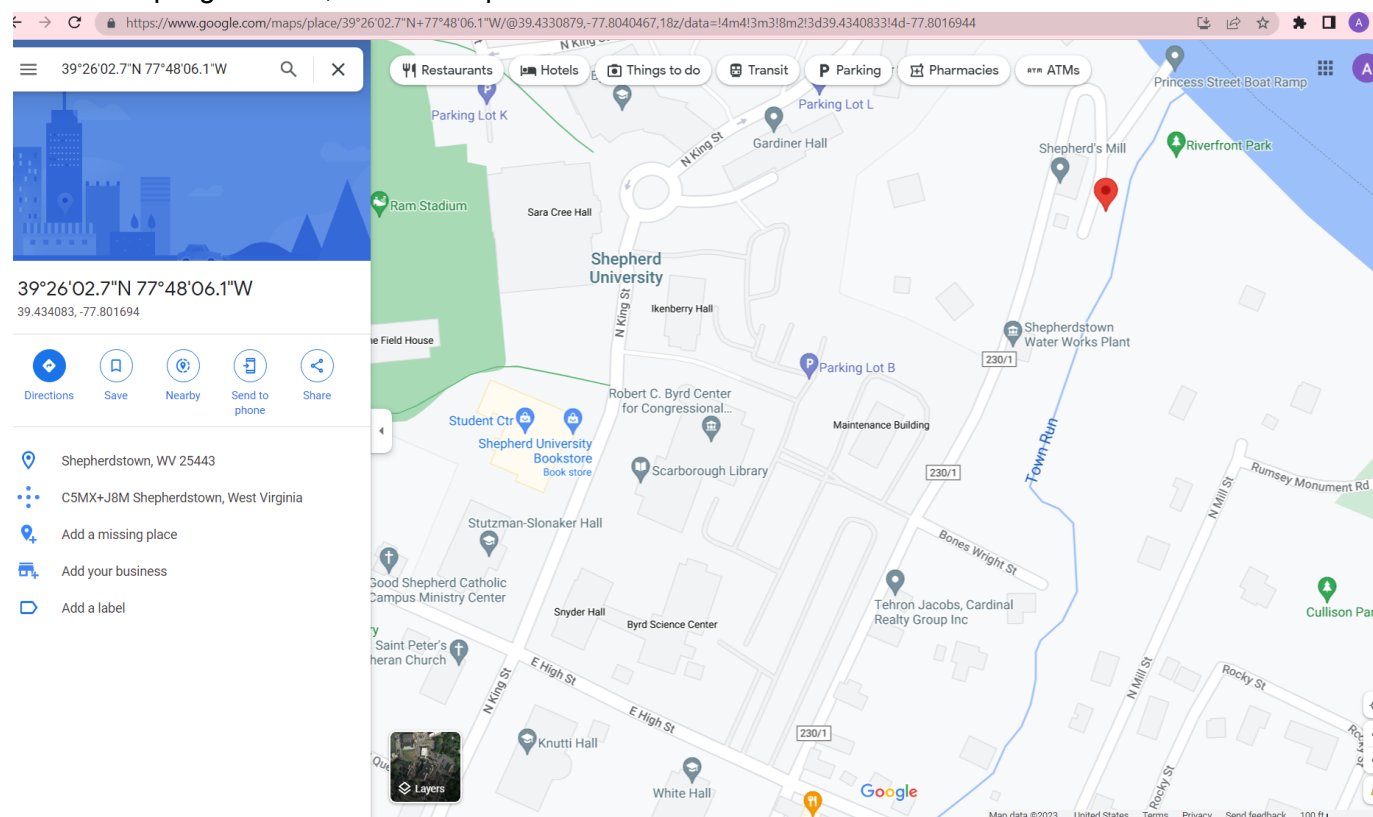
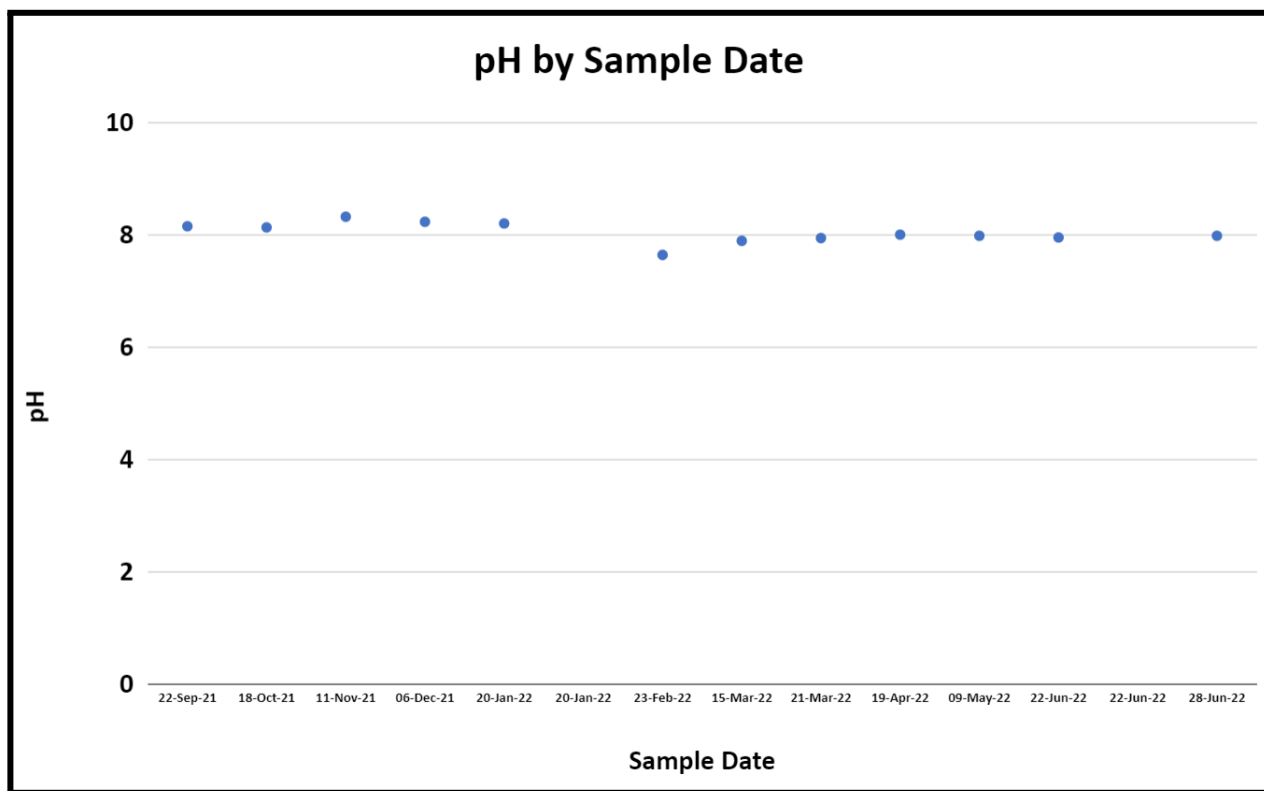


DEP's sampling location, ~0.1 mile upstream of the mouth of Town Run:

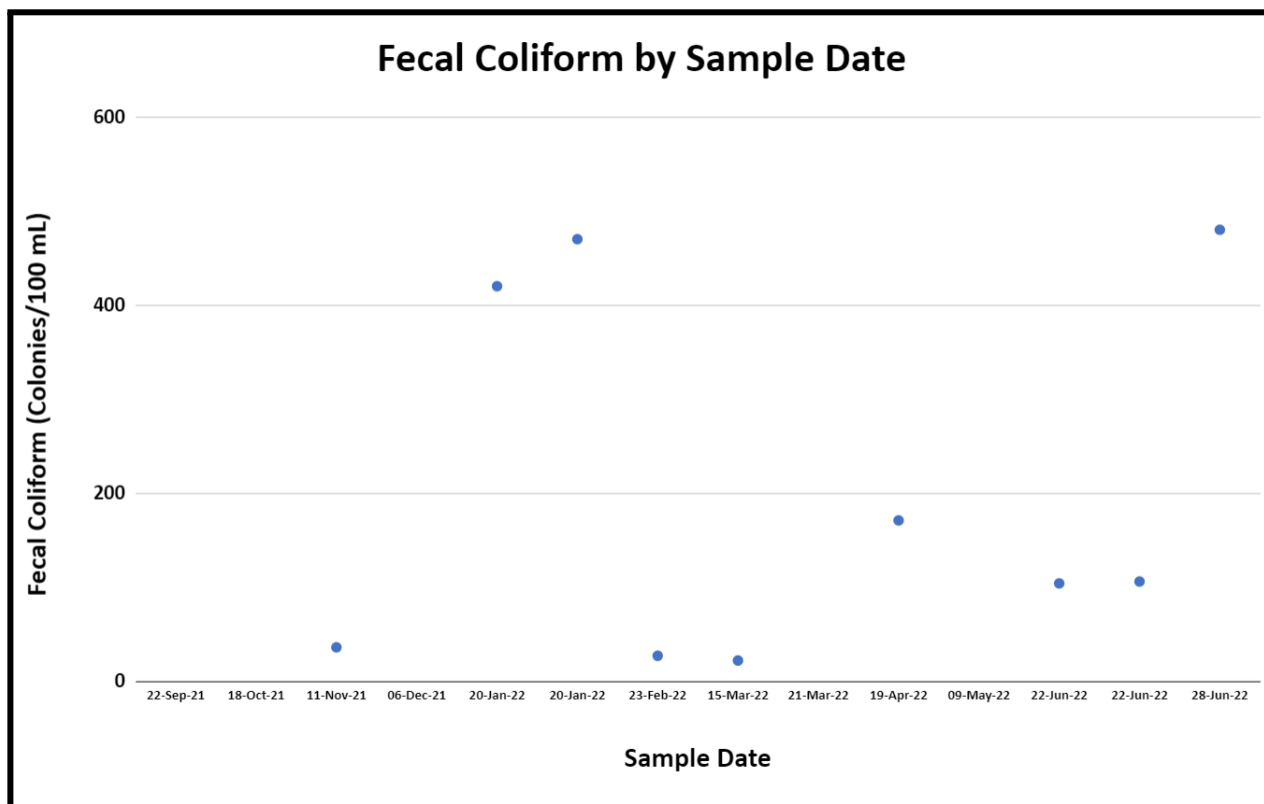


DEP's sampling dates and some results:

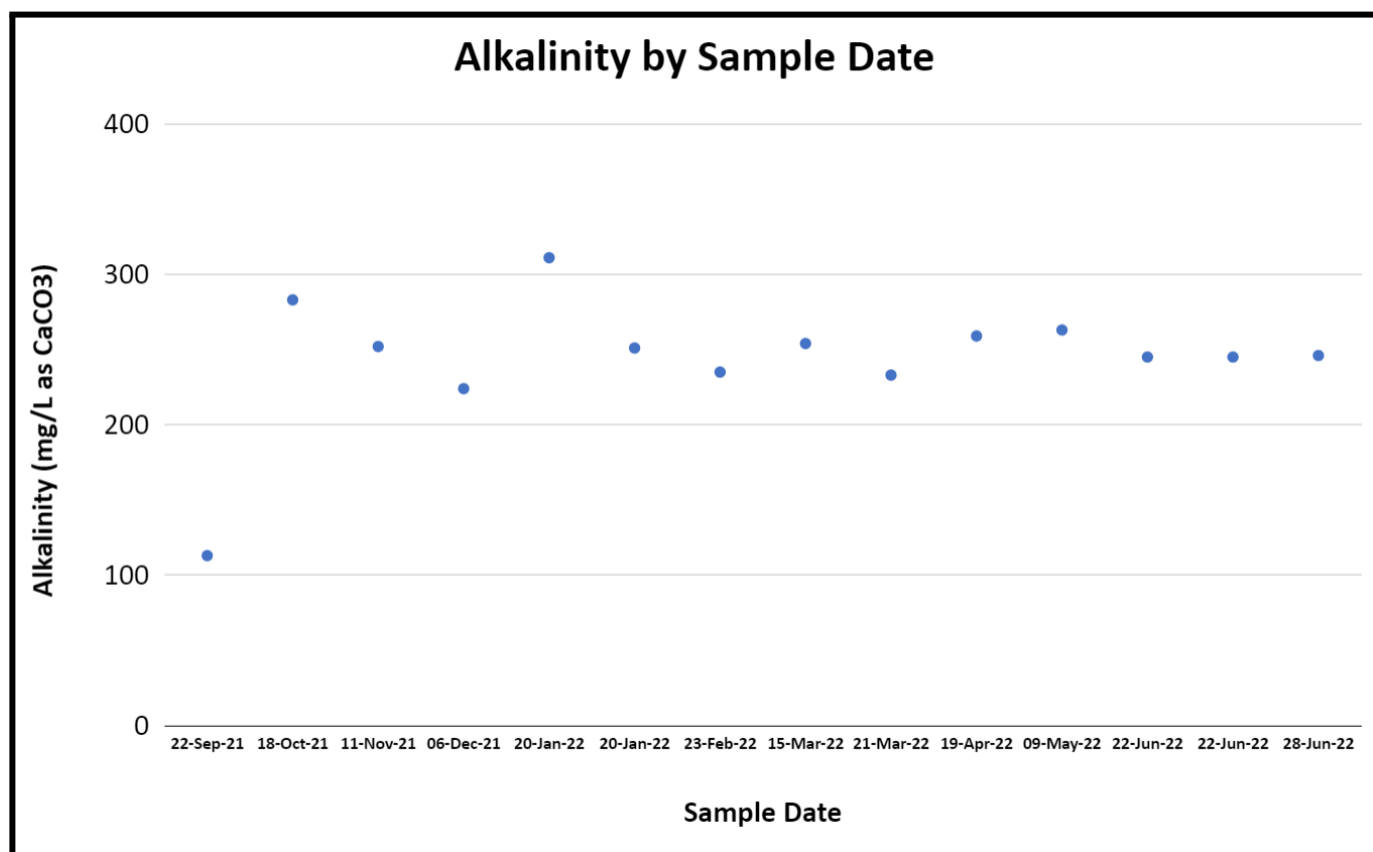
SURVEY_TYPE	SAMPLE DATE	WQ_SAMPLE TIME	Temp-erature	pH	DO	Specific Conductance	Fecal Coliform
TMDL-Initial	22-Sep-21	1:05:00 PM	19.3	8.15	9.08	264.7	4480
TMDL-Secondary	18-Oct-21	4:35:00 PM	13.63	8.13	10.21	621	
TMDL-Secondary	11-Nov-21	7:40:00 AM	9.5	8.32	10.88	615	36
TMDL-Secondary	06-Dec-21	3:40:00 PM	13.12	8.23	10.06	606.58	
TMDL-Secondary	20-Jan-22	12:10:00 PM	6.29	8.2		642	420
TMDL-Duplicate	20-Jan-22	12:10:00 PM					470
TMDL-Secondary	23-Feb-22	12:15:00 PM	12.35	7.64	10.45	613	27
TMDL-Secondary	15-Mar-22	9:45:00 AM	7.68	7.89	13.05	618	22
TMDL-Secondary	21-Mar-22	4:55:00 PM	14.28	7.94	10.73	597	
TMDL-Secondary	19-Apr-22	8:15:00 AM	8.09	8	11.61	633	171
TMDL-Secondary	09-May-22	5:40:00 PM	16.49	7.98	8.47	646	
WAP/TMDL-Secondary	22-Jun-22	9:15:00 AM	13.5	7.95	10.38	628	104
WAP/TMDL-Duplicate	22-Jun-22	9:15:00 AM					106
TMDL-Secondary	28-Jun-22	7:45:00 AM	13.09	7.98	8.39	634	480



The pH measurements all fell within a normal range.



The fecal coliform criteria for human health or maximum allowable level is 400 colonies/100 mL in more than ten percent of samples taken in a month. **Note:** the 9/22/21 result was actually "off the chart" at 4480 colonies/100 ml, given the scale of this graphic. **Four** of the sampling events exceeded 400 colonies/100 mL. That day, the flow was rising during "showers and heavy rain; see the chart that includes flow information on page 4.



These higher levels of alkalinity are typical of limestone streams in the area.

RBP Habitat Scores:

RBP (habitat) scores	9/22/21	10/18/21	11/11/21	12/6/21	1/20/22	2/23/22	3/15/22	3/21/22	4/19/22	5/9/22	6/22/22	6/28/22
1. Epifaunal Substrate/ Available Fish Cover											11	
2. Embeddedness/ Pool Substrate Characterization	Turbid/Deep	6	3	7	1	6	3	2	2	6	4	4
3. Velocity Depth/Pool Variability											18	
4. Channel Alteration											10	
5. Sediment Deposition	Turbid/Deep	4	4	7	2	4	2	2	2	5	5	5
6. Riffle Frequency/ Channel Sinuosity											18	
7. Channel Flow Status											17	
8. Left Bank Stability	8	8	7	8	7	7	7	7	5	7	8	8
8. Right Bank Stability	7	7	7	6	7	8	7	6	4	6	6	8
8. Total Bank Stability	15	15	14	14	14	15	14	13	9	13	14	16
9. Left Bank Vegetative Protection	7										7	4
9. Right Bank Vegetative Protection	5										8	8
9. Total Bank Vegetative Protection	12										15	12
10. Left Width of Undisturbed Vegetative Zone	2										2	2
10. Right Width of Undisturbed Vegetative Zone	10										9	7
10. Total Width of Undisturbed Vegetative Zone	12										11	9
Total RBP VBHA Score											129	
RBP VBHA Narrative Score											Sub-Optimal	

The data collected will be assessed for the 2024 Integrated Water Quality Monitoring and Assessment Report, in which we report on the water quality for the waters of the State. This report includes a list of impaired streams, referred to as a 303(d) List. Impaired streams are those that are not supporting their designated use.

During the 2021-2022 field season, we were performing monitoring in portions of the eastern panhandle, including Town Run to prepare for project to develop Total Maximum Daily Loads for impaired streams. If determined to be impaired, Town Run will be one of the streams that we include in a TMDL project. In this project, we will identify impairment, identify pollutant sources of the impairment and prescribe reductions to the pollutants in order for water quality standards to be met in the project streams.

-From Mindy Neil's FOIA response to Greg, 3/2023

Flow and rainfall information (Flow is in Cubic Feet per Second)

FLOW	FLOW METHOD	WATERLEVEL	WATER COL INFO.TURBIDITY	PRECIP_CUR	PRECIP_PAST	MAJOR_RAIN	PEAK_RUNOFF	FLOW_STATUS
6.502	Flow Meter	Above Normal	Moderate Turbidity	Raining	showers and heavy rain	Yes	< 1 Hour	Rising
3.446	Flow Meter	Normal	Clear	None	None	No	N/A	Baseflow
2.631	Flow Meter	Normal	Clear	None	None	No	N/A	Baseflow
2.325	Flow Meter	Normal	Clear	Showers	Showers	No	N/A	Baseflow
1.803	Flow Meter	Normal	Clear	None	rain/snow after midnight	No	N/A	Baseflow
1.944	Flow Meter	Normal	Clear	None	showers possible	No	N/A	Baseflow
2.934	Flow Meter	Normal	Clear	None	None	No	N/A	Baseflow
1.833	Flow Meter	Normal	Clear	None	None	No	N/A	Baseflow
4.306	Flow Meter	Normal	Clear	None	Rain/Snow	No	12 to 24 Hours	Baseflow
7.922	Flow Meter	Normal	Clear	None	None	Yes	1 to 2 Days	Falling
2.767	Flow Meter	Normal	Clear	None	None	No	N/A	Baseflow
3.281	Flow Meter	Normal	Clear	None	Light Rain	No		Baseflow

Sept 2021

vv

June 2022

Data also available for Chloride, Potassium, nutrients (species of P and N), Iron, Magnesium, etc.