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City of Elkins Semi-Annual CSO Summary Report NPDES Permit No. WV0020028

Report Certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

X


Signature of Authorized Representative

X

4/13/2023
Date

X

Whitney L. Hymes
Printed Name of Authorized Representative

X

Superintendent/Chief Operator
Title of Authorized Representative

**Attachment A
CSO Summary Report**

CSO Community: City of Elkins

Reporting Period: 4th Quarter of 2022 and 1st Quarter of 2023

Prepared By: Joe Johnson

Date Submitted: 4/13/2023

Comments on Nine Minimum Controls activity during the past reporting period

1) O&M Plan- Line maintenance included: cleaned 17 main lines for approximately 3150ft. Cleaned/unplugged twenty-five sewer taps, installed one new tap repaired three sewer taps. Put in three new cleanouts. Lift station maintenance included routine inspections, cleaning floats, and trash baskets. Unplugged pumps, had pumps rebuilt, repaired pump guide rails, cleaned wet wells. Performed maintenance and repair of generators. Maintained buildings and grounds, and maintained lift station access roads. Collection system personnel responded to various complaints, worked twenty three call-outs, responded to 14 locate requests, and 17 emergency locates maintained equipment, and assisted other departments and outside agencies on twenty nine occasions. Weekly safety meetings continue had three people take 1c certification with Melissa Powers in Fairmont . Had two Guys take CDL Class B test. CSO maintenance included inspecting outfalls, duckbills and flappers, and regulators, maintaining and downloading flow meters and rain gauges, and removing debris and trimming weeds at outfalls. Removed debris from regulator manholes. Maintained screening devices at two outfalls.

2) Maximize storage in collection system- Activities to maximize storage for the report period involved maintaining existing equipment and operations through inspections and repair of lift stations, line cleaning and repair, inspections of CSO structures such as regulators to detect any blockages, and backflow preventers for proper operation, and maintaining repair/service equipment and inventory.

3) Review and modification of pretreatment requirements- Inspection of grease traps and oil/water separators continue.

4) Maximization of flow to POTW for treatment- See #1 above for ongoing activities: Inspection and maintenance of the collection system and CSOs. Maintain flow meters. Review flow meter and rain gauge data to determine there were no prolonged or unnecessary discharges.

5) Elimination of CSO dry weather events- See #1 above: line cleaning and repair, lift station inspections, maintenance and repair, inspecting regulators, CSO inspections.

6) Control of solids and floatable materials- Trash baskets at lift stations, catch basins cleaning, garbage collection, regularly scheduled street sweeping, trash containers located throughout the downtown area and parks, voluntary community recycling. Baffle and trash basket on overflow pipe for outfall #020. Rip-rap at outfalls. Fall leaf pick-up. Debris screens on Outfall #004 and #005. Yard waste recycling program and glass recycling.

7) Pollution prevention- See #1&6. Pamphlets and other information are available to the public at City Hall. Informational literature on the city's web site.

8) Public notification- Signs at outfalls and at river access points. Reports, pamphlets and other information are available to the public at City Hall. Annual legal notice was published in the second quarter

of 2022 and will be published again in the second quarter of 2023. Informational literature on the city's web site.

9) **Monitoring to characterize CSO impacts-** Visually inspect CSOs and observe the conditions and appearance of the river and surrounding area near the outfalls for any adverse conditions and remove any debris as necessary. Utilize two rain gauges as well as flow meters on all fourteen of the outfalls. Review flow meter and rain data to determine frequency of discharges and that there were no prolonged or unnecessary discharges.

Wet Weather Events

10) Number of CSO wet weather events that occurred during the last reporting period-29

11) **Estimated duration of CSO discharge (gallons or time)-** Duration for the period was a total of 1766 hrs and 55min. However, flow was intermittent over that period. Total flow from the CSOs is estimated at 40,978,540.3 gallons. Duration and flow was recorded on fourteen flow meters. Total precipitation for the reporting period was 22.82" in.

12) Number of CSO wet weather events YTD- There have been 17 wet weather events in the 1st quarter of 2023.

Dry Weather Events

13) Number of CSO dry weather events that occurred during the last reporting period-1

14) Date(s) of dry weather event(s) 2/2-2/3

15) Cause(s) of the discharge(s) plugged regulator

16) Summarize actions taken to flush, recover or treat residual material-no action required.

17) Corrective action taken to prevent re-occurrence-check regulators

18) Number of CSO dry weather events occurred YTD-1

19) How are CSO outfall discharges determined during the weekends? Outfalls which may pose a concern for DWOs are inspected during dry weather by Wastewater Dept. personnel. Also, flow meters are located at fourteen outfalls, as a means of determining if a discharge has occurred.

20) In what ways is I/I being eliminated? i.e. elimination of roof drains, manhole rehabilitation, etc. Maintenance of sewer & storm lines, inspection of outfall structures.

21) In what ways are solids and floatable material being controlled? i.e. cleaning of streets, cleaning of catch basins, trash racks, outfall booms, etc. See #6 above.

22) Do all CSO outfalls have posted warning signs? Yes

23) Has there been any change in the Operation and Maintenance Program? i.e. change in inspection/repair records, equipment list, procedures/letters, drawings, personnel, etc. Got new 5500 Ram crane truck, new 310 SL John Deer Backhoe, and Western Star Combination Sewer/Hydra Excavation truck.

24) Summarize the status of the following project work activities.

Water Quality Study: Completed Phase 2 post construction monitoring report for dry and wet weather.

Long Term Control Plan: Current LTCP has recently been completed and the City and their engineers are currently working on a new LTCP which will include a phase 3 separation project in addition to other upgrades to the wastewater collection system and treatment plant.

25) Has annual newspaper notification been published? The 2022 ad was published in the second quarter of 2022 and the 2023 ad will be published in the second quarter of 2023.

26) Are there CSO pamphlets available for distribution to the public? Yes. Located at City Hall.

Provide copies of inspection forms for inspecting CSO discharges. Information on forms should include:

- 1) Name of inspector**
- 2) Time and date of inspection**
- 3) Outfall No.(s)**
- 4) Comment about whether discharging or not**
- 5) Estimated starting and stopping times of discharge**
- 6) Estimated total volume (time) of material discharge**
- 7) Estimated rainfall for previous 24 hours**
- 8) Submit copy of any submitted 24 hour spill report**

CITY OF ELKINS
Permit # WV0020028
Monthly CSO Inspection/Discharge Report
October 2022

Outfall #	Location	Receiving Stream	Inspection Date/Time	Backflow Device	Signs	Regulator	General Comments	Discharge Y/N	W/D	Cause	Precipitation		Discharge Estimated Start Date/Time	Discharge Estimated Stop Date/Time	Est. Duration Hrs/Min	Est. Flow GPM	Est. Total Flow	Comments or Corrective Action	Operator		
											Start Date	Stop Date									
002	Barron Avenue	Tygart Valley River	10/1/22 11:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 11:45 AM	10/3/22 8:45 AM	29:30	896.60	1232982.00	Data from flow meter	JJ	
004	Henry Ave.	Tygart Valley River	10/1/22 11:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 11:30 AM	10/3/22 1:30 PM	48:45	362.05	1058996.20	Data from flow meter	JJ	
			10/13/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.27	10/13/22	10/14/22	10/13/22 5:00 AM	10/13/22 5:00 AM	0:01	11.28	11.28	Data from flow meter	JJ	
			10/26/22 5:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.35	10/26/22	10/27/22	10/26/22 5:15 AM	10/26/22 6:45 AM	1:30	209.82	18883.80	Data from flow meter	JJ	
			10/31/22 9:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.21	10/31/22	10/31/22	10/31/22 9:00 AM	10/31/22 9:30 AM	0:30	414.86	12445.80	Data from flow meter	JJ	
005	Kerens Ave.	Tygart Valley River	10/1/22 11:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/3/22	10/1/22 11:30 AM	10/3/22 9:15 AM	38:00	357.01	813982.80	Data from flow meter	JJ	
			10/26/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.35	10/26/22	10/27/22	10/26/22 5:45 AM	10/26/22 6:45 AM	0:45	283.38	12752.10	Data from flow meter	JJ	
			10/31/22 9:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.21	10/31/22	10/31/22	10/31/22 9:00 AM	10/31/22 9:30 AM	0:30	255.55	7686.50	Data from flow meter	JJ	
006	Davis Ave.	Tygart Valley River	10/1/22 11:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 11:30 AM	10/2/22 8:30 AM	9:45	220.03	128717.55	Data from flow meter	JJ	
			10/26/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.35	10/26/22	10/27/22	10/26/22 5:45 AM	10/26/22 5:45 AM	0:01	75.03	75.03	Data from flow meter	JJ	
008	Worth Ave.	Tygart Valley River	10/1/22 11:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 11:45 AM	10/3/22 9:00 AM	28:00	663.89	1115335.20	Data from flow meter	JJ	
			10/26/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.35	10/26/22	10/27/22	10/26/22 6:00 AM	10/26/22 7:00 AM	1:00	409.40	24564.00	Data from flow meter	JJ	
011	Mt. View Dr.	Tygart Valley River	10/1/22 12:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 12:45 PM	10/2/22 12:00 PM	18:00	8.68	9374.40	Data from flow meter	JJ	
016	R.R. Ave./10th. Street	Tygart Valley River																No wet weather data available due to faulty flow meter	JJ		
017	S. Davis Ave.	Tygart Valley River																No wet weather data available due to faulty flow meter	JJ		
018	S. Kerens Ave.	Tygart Valley River	10/1/22 11:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 11:45 AM	10/3/22 1:30 PM	35:45	266.08	570741.60	Data from flow meter	JJ	
			10/26/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.35	10/26/22	10/27/22	10/26/22 5:30 AM	10/26/22 6:30 AM	0:30	52.25	1567.50	Data from flow meter	JJ	
			10/31/22 9:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.21	10/31/22	10/31/22	10/31/22 9:00 AM	10/31/22 9:15 AM	0:15	140.55	2108.25	Data from flow meter	JJ	
019	S. Henry Ave.	Tygart Valley River	10/1/22 1:00 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 1:00 PM	10/2/22 11:00 AM	15:00	132.11	118893.00	Data from flow meter	JJ	
			10/3/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.60	10/1/22	10/3/22	10/3/22 4:30 AM	10/3/22 1:00 PM	3:30	21.37	4487.70	Data from flow meter	JJ	
020	Flood Control Road	Tygart Valley River	10/1/22 12:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.6	10/1/22	10/03/22	10/1/22 12:30 PM	10/3/22 9:45 AM	45:00	430.88	1163846.00	Data from flow meter	JJ	

Monthly Precipitation 3.66 in
 Total Estimated Monthly Discharge 6297236.71

Wet Weather Events : 4
 Dry Weather Events : 0
 Total Weather Events : 4

10/1-10/3, 10/13-10/14, 10/26-10/27, 10/31

CITY OF ELKINS
Permit # WV020028
Monthly CSO Inspection/Discharge Report
November 2022

Outfall #	Location	Receiving Stream	Inspection Date/Time	Backflow Device	Signs	Regulator	General Comments	Discharge Y/N	W/D	Cause	Precipitation		Discharge		Est. Duration Hrs/Min	Est. Flow GPM	Est. Total Flow	Comments or Corrective Action	Operator	
											Start Date	Stop Date	Estimated Start Date/Time	Estimated Stop Date/Time						
002	Barron Ave.	Tygart Valley River	11/11/2022 7:45 PM 11/15/2022 3:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 7:45 PM 11/15/22 3:45 PM	11/12/22 7:00 AM 11/15/22 7:30 PM	11:15 3:15	1264.67 413.98	853652.25 80726.10	Data from flow meter Data from flow meter	JJ
003	Cherokee Street	Tygart Valley River	11/11/2022 7:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 7:45 PM	11/11/22 11:15 PM	3:15	871.9	170020.50	Data from flow meter	JJ
004	Henry Ave.	Tygart Valley River	11/11/22 2:15 AM 11/15/2022 11/30/22 12:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 2:15 AM 11/15/22 1:45 PM 11/30/22 12:30 PM	11/13/22 12:00 AM 11/16/22 3:00 PM 11/30/22 12:30 PM	26:30 17:00 0:01	382.46 362.3 234.68	608111.40 369546.00 234.68	Data from flow meter Data from flow meter Data from flow meter	JJ
005	Kerens Ave.	Tygart Valley River	11/11/22 3:15 AM 11/15/2022 11/30/22 12:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 3:15 AM 11/15/22 1:45 PM 11/30/22 12:30 PM	11/12/22 10:15 PM 11/16/22 1:30 PM 11/30/22 12:30 PM	22:30 13:00 0:01	422.89 207.04 25.47	570901.50 161491.20 25.47	Data from flow meter Data from flow meter Data from flow meter	JJ
006	Davis Ave.	Tygart Valley River	11/11/22 5:00 AM 11/11/22 6:30 PM 11/15/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 5:00 AM 11/11/22 6:30 PM 11/15/22 2:00 PM	11/11/22 5:15 AM 11/11/22 11:45 PM 11/15/22 6:00 PM	0:15 4:00 3:00	18.04 446.34 52.75	270.00 107121.60 9495.00	Data from flow meter Data from flow meter Data from flow meter	JJ
007	R.R. Ave./1st. Street	Tygart Valley River	11/11/2022 7:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 7:45 PM	11/11/22 8:15 PM	1:00	287.8	17268.00	Data from flow meter	JJ
008	Worth Ave.	Tygart Valley River	11/11/2022 3:15 AM 11/15/22 2:00 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 3:15 AM 11/15/22 2:00 PM	11/13/22 4:45 PM 11/15/22 7:30 PM	48:00 5:30	998.37 652.36	2875305.80 215278.80	Data from flow meter Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run																		
011	Mt. View Dr.	Tygart Valley River	11/11/2022 10:30 PM 11/15/22 3:00 PM 11/16/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 10:30 PM 11/15/22 3:00 PM 11/16/22 1:00 PM	11/12/22 4:15 AM 11/15/22 9:30 PM 11/16/22 3:15 PM	5:00 3:30 1:00	3.39 46.11 1082.46	1017.00 9683.10 64947.60	Data from flow meter Data from flow meter Data from flow meter	JJ
016	R.R. Ave./10th. Street	Tygart Valley River																No wet weather data available due to faulty flow meter	JJ	
017	S. Davis Ave.	Tygart Valley River																No wet weather data available due to faulty flow meter	JJ	
018	S. Kerens Ave.	Tygart Valley River	11/11/2022 3:15 AM 11/15/22 1:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 3:15 AM 11/15/22 1:30 PM	11/13/22 7:45 AM 11/16/22 9:15 AM	28:45 9:15	351.98 419.19	607165.50 232650.45	Data from flow meter Data from flow meter	JJ
019	S. Henry Ave.	Tygart Valley River	11/11/2022 3:15 AM 11/15/22 2:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 3:15 AM 11/15/22 2:15 PM	11/12/22 1:15 PM 11/15/22 8:30 PM	12:30 5:30	302.15 146.84	226612.50 48457.20	Data from flow meter Data from flow meter	JJ
020	Flood Control Road	Tygart Valley River	11/11/2022 7:45 PM 11/15/22 3:00 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	2.12	11/11/22	11/13/22	11/11/22 7:45 PM 11/15/22 3:00 PM	11/13/22 5:00 AM 11/16/22 7:00 AM	33:15 8:15	432.26 291.17	862358.70 144126.15	Data from flow meter Data from flow meter	JJ
Monthly Precipitation																4.42				
Total Estimated Monthly Discharge																8236469.90				

CITY OF ELKINS
Permit # WV0020028
Monthly CSO Inspection/Discharge Report
December 2022

Outfall #	Location	Receiving Stream	Inspection Date/Time	Backflow Device	Signs	Regulator	General Comments	Discharge Y/N	W/D	Cause	Precipitation			Discharge		Est. Flow GPM	Est. Total Flow	Comments or Corrective Action	Operator
											Est. Amt.	Start Date	Stop Date	Estimated Start Date/Time	Estimated Stop Date/Time				
002	Barron Ave.	Tygart Valley River	12/7/2022 5:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/7/22 5:15 AM	12/7/22 12:15 PM	631.28	265137.60	Data from flow meter	JJ
			12/31/22 5:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.89	12/31/22	12/31/22	12/31/22 5:45 PM	11/123 12:00 AM	314.12	117795.00	Data from flow meter	JJ
003	Cherokee Street	Tygart Valley River	12/7/2022 5:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/7/22 5:15 AM	12/7/22 7:45 AM	408.68	18390.60	Data from flow meter	JJ
			12/3/22 5:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.17	12/3/22	12/03/22	12/3/22 5:15 AM	12/3/22 12:45 PM	124.55	9341.25	Data from flow meter	JJ
004	Henry Ave.	Tygart Valley River	12/6/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/6/22 2:45 PM	12/6/22 3:15 PM	128.16	3844.80	Data from flow meter	JJ
			12/7/22 4:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/7/22 4:45 AM	12/8/22 8:15 AM	393.09	241750.35	Data from flow meter	JJ
005	Kerens Ave.	Tygart Valley River	12/14/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.65	12/14/22	12/16/22	12/14/22 11:45 PM	12/15/22 4:45 PM	338.77	127038.75	Data from flow meter	JJ
			12/22/22 4:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.79	12/22/22	12/25/22	12/22/22 4:45 AM	12/23/22 6:15 AM	353.47	180269.70	Data from flow meter	JJ
006	Davis Ave.	Tygart Valley River	12/31/22 2:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.89	12/31/22	12/31/22	12/31/22 2:30 PM	12/31/22 11:30 PM	436.57	144068.10	Data from flow meter	JJ
			12/3/22 5:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.17	12/3/22	12/03/22	12/3/22 5:15 AM	12/3/22 12:15 PM	128.32	5774.40	Data from flow meter	JJ
007	R.R. Ave./1st. Street	Tygart Valley River	12/6/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/6/22 3:00 PM	12/6/22 3:15 PM	149.17	2237.55	Data from flow meter	JJ
			12/7/22 5:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/7/22 5:00 AM	12/7/22 10:00 PM	368.88	203618.40	Data from flow meter	JJ
008	Worth Ave.	Tygart Valley River	12/15/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.65	12/14/22	12/16/22	12/15/22 4:45 AM	12/15/22 2:00 PM	280.22	92472.60	Data from flow meter	JJ
			12/22/22 4:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.79	12/22/22	12/25/22	12/22/22 4:45 AM	12/22/22 4:30 PM	209.13	97245.45	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	12/23/22 5:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.79	12/22/22	12/25/22	12/23/22 5:15 AM	12/23/22 5:45 AM	165.49	4964.70	Data from flow meter	JJ
			12/31/22 2:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.89	12/31/22	12/31/22	12/31/22 2:30 PM	12/31/22 11:30 PM	331.49	124308.75	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	12/6/22 2:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/09/22	12/6/22 2:45 PM	12/6/22 2:45 PM	0.42	0.42	Data from flow meter	JJ
			12/7/22 4:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/7/22 4:45 AM	12/7/22 7:30 AM	515.32	61838.40	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	12/15/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.65	12/14/22	12/16/22	12/15/22 7:30 AM	12/15/22 7:30 AM	15.58	15.58	Data from flow meter	JJ
			12/22/22 4:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.79	12/22/22	12/25/22	12/22/22 4:45 AM	12/22/22 6:45 AM	70.42	3168.90	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	12/31/22 5:00 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.89	12/31/22	12/31/22	12/31/22 5:00 PM	12/31/22 9:45 PM	207.28	18655.20	Data from flow meter	JJ
			12/7/2022 5:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/7/22 5:00 AM	12/7/22 7:00 AM	252.36	7570.80	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	12/31/22 5:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.89	12/31/22	12/31/22	12/31/22 5:30 PM	12/31/22 5:30 PM	5.06	5.06	Data from flow meter	JJ
			12/6/2022 3:00 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/9/22	12/6/22 3:00 PM	12/6/22 3:00 PM	15.56	15.56	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	12/7/22 5:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	12/6/22	12/09/22	12/7/22 5:00 AM	12/7/22 12:45 PM	1564.8	676338.00	Data from flow meter	JJ
			12/15/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.65	12/14/22	12/16/22	12/15/22 5:15 AM	12/15/22 12:45 PM	73.47	6612.30	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	12/22/22 4:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.79	12/22/22	12/25/22	12/22/22 4:45 AM	12/22/22 7:15 AM	429.42	38647.80	Data from flow meter	JJ
			12/31/2022	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.89	12/31/22	12/31/22	12/31/22 5:00 PM	12/31/22 10:15 PM	653.56	127444.20	Data from flow meter	JJ

Address	Event ID	Start Date/Time	End Date/Time	Day	W	Y	RAIN	1.17	12/8/22	12/9/22	12/7/22 5:15 AM	12/7/22 10:45 AM	0:45	21.06	947.70	Data from flow meter	JJ
011 Mt. View Dr. Tygart Valley River		12/7/2022 5:15 AM		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	N/A		12/8/22	12/9/22	12/7/22 5:15 AM	12/7/22 10:45 AM	0:45	21.06	947.70	Data from flow meter	JJ
		12/14/22 8:30 AM		<input checked="" type="checkbox"/>	W	Y	R/S	0.7	12/14/22	12/19/22	12/14/22 8:30 AM	12/14/22 8:45 AM	0:15	24.27	364.05	Data from flow meter	JJ
		12/15/2022		<input checked="" type="checkbox"/>	W	Y	R/S	0.70	12/14/22	12/19/22	12/15/22 7:30 AM	12/15/22 1:30 PM	1:00	199.81	11988.60	Data from flow meter	JJ
		12/17/22 12:45 AM		<input checked="" type="checkbox"/>	W	Y	R/S	0.7	12/14/22	12/19/22	12/17/22 12:45 AM	12/17/22 4:45 AM	0:30	78.43	2352.90	Data from flow meter	JJ
		12/18/2022		<input checked="" type="checkbox"/>	W	Y	R/S	0.70	12/14/22	12/19/22	12/18/22 1:00 AM	12/18/22 1:00 AM	0:01	31.96	31.96	Data from flow meter	JJ
		12/18/22 1:30 PM		<input checked="" type="checkbox"/>	W	Y	R/S	0.7	12/14/22	12/19/22	12/18/22 1:30 PM	12/18/22 1:30 PM	0:01	42.28	42.28	Data from flow meter	JJ
		12/19/22 4:15 AM		<input checked="" type="checkbox"/>	W	Y	R/S	0.7	12/14/22	12/19/22	12/19/22 4:15 AM	12/19/22 4:15 AM	0:30	991.06	29731.80	Data from flow meter	JJ
		12/19/22 11:00 PM		<input checked="" type="checkbox"/>	W	Y	R/S	0.7	12/14/22	12/19/22	12/19/22 11:00 PM	12/20/22 12:30 AM	0:30	160.07	4802.10	Data from flow meter	JJ
		12/21/22 1:30 AM		<input checked="" type="checkbox"/>	W	Y	R/S	0.79	12/21/22	12/25/22	12/21/22 1:30 AM	12/21/22 1:15 PM	1:15	665.83	49937.25	Data from flow meter	JJ
		12/22/22 6:15 AM		<input checked="" type="checkbox"/>	W	Y	R/S	0.79	12/21/22	12/25/22	12/22/22 6:15 AM	12/23/22 2:15 AM	2:00	724.44	86932.80	Data from flow meter	JJ
	016 R.R. Ave /10th. Street Tygart Valley River															No wet weather data available due to faulty flow meter	JJ
	017 S. Davis Ave. Tygart Valley River															No wet weather data available due to faulty flow meter	JJ
018 S. Kerens Ave. Tygart Valley River		12/3/2022 5:15 AM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.17	12/3/22	12/3/22	12/3/22 5:15 AM	12/3/22 5:30 AM	0:15	94.6	1419.00	Data from flow meter	JJ
		12/6/22 2:45 PM		<input checked="" type="checkbox"/>	W	Y	GOOD	1.17	12/6/22	12/09/22	12/6/22 2:45 PM	12/6/22 3:45 PM	0:45	355.71	16006.95	Data from flow meter	JJ
		12/7/22 5:00 AM		<input checked="" type="checkbox"/>	W	Y	GOOD	1.17	12/6/22	12/9/22	12/7/22 5:00 AM	12/7/22 8:45 PM	10:45	612.04	394765.80	Data from flow meter	JJ
		12/15/2022		<input checked="" type="checkbox"/>	W	Y	GOOD	0.70	12/14/22	12/19/22	12/15/22 5:15 AM	12/15/22 1:00 PM	3:30	164.72	34591.20	Data from flow meter	JJ
		12/22/2022 5:00AM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.79	12/21/22	12/25/22	12/22/22 5:00 AM	12/22/22 2:45 PM	3:45	114.42	25744.50	Data from flow meter	JJ
		12/23/22 5:00 AM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.79	12/21/22	12/25/22	12/23/22 5:00 AM	12/23/22 5:00 AM	0:01	28.59	28.59	Data from flow meter	JJ
		12/24/22 12:30 PM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.79	12/21/22	12/25/22	12/24/22 12:30 PM	12/27/22 12:45 AM	31:30	1.48	2797.20	Data from flow meter	JJ
		12/27/22 2:45 PM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.79	12/21/22	12/25/22	12/27/22 2:45 PM	12/28/22 3:15 AM	3:00	0.67	120.60	Data from flow meter	JJ
		12/31/22 5:00 PM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.89	12/31/22	12/31/22	12/31/22 5:00 PM	12/31/22 11:45 PM	5:45	278.01	95913.45	Data from flow meter	JJ
		12/7/2022 5:00 AM		<input checked="" type="checkbox"/>	W	Y	GOOD	1.17	12/6/22	12/9/22	12/7/22 5:00 AM	12/7/22 4:00 PM	8:30	327.44	166994.40	Data from flow meter	JJ
		12/15/22 5:15 AM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.7	12/14/22	12/19/22	12/15/22 5:15 AM	12/15/22 9:00 AM	1:00	54.69	3281.40	Data from flow meter	JJ
	019 S. Henry Ave. Tygart Valley River		12/22/22 5:45 AM		<input checked="" type="checkbox"/>	W	Y	GOOD	0.79	12/21/22	12/25/22	12/22/22 5:45 AM	12/22/22 2:45 PM	0:15	12.27	184.05	Data from flow meter
	12/31/2022		<input checked="" type="checkbox"/>	W	Y	GOOD	0.89	12/31/22	12/31/22	12/31/22 5:15 PM	12/31/22 10:00 PM	2:00	193.3	23196.00	Data from flow meter	JJ	
	12/7/2022 5:15 AM		<input checked="" type="checkbox"/>	W	Y	N/A	1.17	12/6/22	12/9/22	12/7/22 5:15 AM	12/7/22 6:15 PM	11:45	315.09	222138.45	Data from flow meter	JJ	
020 Flood Control Road Tygart Valley River		12/14/22 2:30 PM		<input checked="" type="checkbox"/>	W	Y	N/A	0.7	12/14/22	12/19/22	12/14/22 2:30 PM	12/16/22 7:30 AM	41:00	482.37	1186630.20	Data from flow meter	JJ
	12/22/2022		<input checked="" type="checkbox"/>	W	Y	N/A	0.79	12/21/22	12/25/22	12/22/22 5:45 AM	12/22/22 6:15 PM	11:00	221.9	146454.00	Data from flow meter	JJ	
	12/31/22 5:45 PM		<input checked="" type="checkbox"/>	W	Y	N/A	0.89	12/31/22	12/31/22	12/31/22 5:45 PM	1/1/23 12:00 AM	6:15	446.67	167501.25	Data from flow meter	JJ	

Monthly Precipitation 3.85

Total Estimated Monthly Discharge 5253468.70

Wet Weather Events: 5 Dates: 12/3, 12/6-12/9, 12/14-12/19, 12/21-12/25, 12/31
 Dry Weather Events: 0 Dates:

Total Events: 5

Events Summary

011	Mt. View Dr.	Tygart Valley River	1/17/2023 5:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.53	1/17/23	1/17/23	1/17/23 5:45 AM	1/17/23 12:15 PM	1:30	3.06	275.40	Data from flow meter	JJ
			1/25/2023 9:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.61	1/25/23	01/27/23	1/25/23 9:45 AM	1/25/23 11:00 PM	2:30	4.14	621.00	Data from flow meter	JJ
			1/29/2023 2:30PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.51	1/29/23	1/31/23	1/29/23 2:30 PM	1/29/23 3:45 PM	0:45	5.56	250.20	Data from flow meter	JJ
016	R.R. Ave./10th. Street	Tygart Valley River		<input checked="" type="checkbox"/>														No wet weather data available due to faulty flow meter	JJ	
017	S. Davis Ave.	Tygart Valley River		<input checked="" type="checkbox"/>														No wet weather data available due to faulty flow meter	JJ	
			1/2/2023 4:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.61	1/1/23	1/1/23	1/2/23 4:45 PM	1/3/23 7:00 PM	13:30	1.66	1344.60	Data from flow meter	JJ
			1/11/23 7:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.85	1/11/23	01/15/23	1/11/23 7:30 PM	1/11/23 8:30 PM	0:30	73.83	2214.90	Data from flow meter	JJ
018	S. Kerens Ave.	Tygart Valley River	1/17/2023 4:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.53	1/17/23	1/17/23	1/17/23 4:15 AM	1/19/23 1:45 AM	23:00	134.49	185596.20	Data from flow meter	JJ
			1/25/2023 8:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.61	1/25/23	1/27/23	1/25/23 8:30 AM	1/25/23 10:00 PM	5:30	383.32	126495.60	Data from flow meter	JJ
			1/17/2023 4:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.53	1/17/23	1/17/23	1/17/23 4:15 AM	1/18/23 4:00 PM	22:45	24.81	33865.65	Data from flow meter	JJ
019	S. Henry Ave.	Tygart Valley River	1/25/2023 8:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.61	1/25/23	01/27/23	1/25/23 8:45 AM	1/25/23 11:00 AM	2:15	204.9	27661.50	Data from flow meter	JJ
			1/1/2023 12:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.61	1/1/23	1/1/23	1/1/23 12:00 AM	1/1/23 3:30 AM	3:30	328.2	68922.00	Data from flow meter	JJ
020	Flood Control Road	Tygart Valley River	1/17/2023 5:00AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.53	1/17/23	01/17/23	1/17/23 5:00 AM	1/18/23 11:00 AM	27:30	610.92	1008018.00	Data from flow meter	JJ
			1/25/2023 9:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.61	1/25/23	1/27/23	1/25/23 9:30 AM	1/26/23 1:15 AM	13:15	283.41	225310.95	Data from flow meter	JJ

Monthly Precipitation 3.72
Total Estimated Monthly Discharge 5960669.15

Wet Weather Events: 8 Dates: 1/1, 1/3-1/5, 1/11-1/15, 1/17, 1/19-1/21, 1/22-1/23, 1/25-1/27, 1/29-1/31
Dry Weather Events: 0 Dates:
Total Events: 8

CITY OF ELKINS
Permit # WV0020028
Monthly CSO Inspection/Discharge Report
February 2023

Outfall #	Location	Receiving Stream	Inspection Date/Time	Backflow Device	Signs	Regulator	General Compliance	Discharge Y/N	W/D	Cause	Precipitation		Discharge		Est. Total Flow	Comments or Corrective Action	Operator	
											Est. Amt.	Start Date	Stop Date	Estimated Start Date/Time				Estimated Stop Date/Time
002	Barron Ave.	Tygart Valley River	2/16/2023 9:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	2/18/23	2/16/23 9:45 AM	2/17/23 7:15 PM	341.56	Data from flow meter	JJ
			2/22/2023 7:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	02/23/23	2/22/23 7:45 AM	2/23/23 8:15 AM	298.21	Data from flow meter	JJ
			2/23/2023 5:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/23/23 5:30 AM	2/23/23 12:15 PM	293.16	Data from flow meter	JJ
			2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	2/28/23	2/27/23 9:15 PM	2/28/23 1:15 PM	838.69	Data from flow meter	JJ
			2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	2/28/23	2/27/23 9:15 PM	2/27/23 9:15 PM	262.98	Data from flow meter	JJ
004	Henry Ave.	Tygart Valley River	2/16/2023 9:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	02/18/23	2/16/23 9:30 AM	2/18/23 4:00 PM	305	Data from flow meter	JJ
			2/21/2023 12:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.14	2/21/23	2/21/23	2/21/23 12:30 AM	2/21/23 1:00 AM	451.23	Data from flow meter	JJ
			2/22/2023 7:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/22/23 7:15 AM	2/22/23 9:00 AM	323.46	Data from flow meter	JJ
			2/23/2023 5:00AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/23/23 5:00 AM	2/23/23 2:30 PM	324.19	Data from flow meter	JJ
			2/25/2023 11:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.1	2/25/23	02/26/23	2/25/23 11:45 AM	2/25/23 2:30 PM	384.29	Data from flow meter	JJ
005	Kerens Ave.	Tygart Valley River	2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	02/28/23	2/27/23 9:15 PM	2/28/23 8:30 PM	430.79	Data from flow meter	JJ
			2/16/2023 9:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	02/18/23	2/16/23 9:45 AM	2/18/23 4:00 PM	213.73	Data from flow meter	JJ
			2/21/2023 12:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.14	2/21/23	2/21/23	2/21/23 12:30 AM	2/21/23 1:00 AM	243.71	Data from flow meter	JJ
			2/22/2023 7:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/22/23 7:30 AM	2/22/23 9:00 AM	297.48	Data from flow meter	JJ
			2/23/2023 5:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/23/23 5:15 AM	2/23/23 12:15 PM	276.74	Data from flow meter	JJ
006	Davis Ave.	Tygart Valley River	2/25/2023 11:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.1	2/25/23	02/26/23	2/25/23 11:45 AM	2/25/23 2:30 PM	140.12	Data from flow meter	JJ
			2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	02/28/23	2/27/23 9:15 PM	2/28/23 7:30 PM	308.2	Data from flow meter	JJ
			2/16/2023 9:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	02/18/23	2/16/23 9:30 AM	2/18/23 2:00 PM	174.2	Data from flow meter	JJ
			2/17/2023 4:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	2/18/23	2/17/23 4:30 AM	2/17/23 6:00 AM	153.74	Data from flow meter	JJ
			2/21/2023 12:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.14	2/21/23	2/21/23	2/21/23 12:30 AM	2/21/23 12:30 AM	66.95	Data from flow meter	JJ
007	R.R. Ave./1st Street	Tygart Valley River	2/22/2023 7:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	02/23/23	2/22/23 7:30 AM	2/22/23 7:45 AM	223.14	Data from flow meter	JJ
			2/23/2023 5:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	02/23/23	2/23/23 5:15 AM	2/23/23 6:15 AM	317.35	Data from flow meter	JJ
			2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	2/28/23	2/27/23 9:15 PM	2/28/23 2:00 AM	351.55	Data from flow meter	JJ
			2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	2/28/23	2/27/23 9:15 PM	2/27/23 10:15 PM	216.04	Data from flow meter	JJ
			2/16/2023 9:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	2/18/23	2/16/23 9:45 AM	2/18/23 5:00 PM	609.39	Data from flow meter	JJ
008	Worth Ave.	Tygart Valley River	2/21/2023 12:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.14	2/21/23	02/21/23	2/21/23 12:45 AM	2/21/23 1:15 AM	510.53	Data from flow meter	JJ
			2/22/2023 7:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/22/23 7:30 AM	2/22/23 8:45 AM	639.2	Data from flow meter	JJ
			2/23/2023 5:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/23/23 5:15 AM	2/23/23 8:30 AM	1000.28	Data from flow meter	JJ
			2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	2/28/23	2/27/23 9:15 PM	2/28/23 10:00 AM	1140.82	Data from flow meter	JJ
			2/16/2023 9:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	2/18/23	2/16/23 9:45 AM	2/18/23 5:00 PM	1910437.60	Data from flow meter	JJ
009	Lower Pleasant Ave.	Cravens Run	2/21/2023 12:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.14	2/21/23	02/21/23	2/21/23 12:45 AM	2/21/23 1:15 AM	15315.90	Data from flow meter	JJ
			2/22/2023 7:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/22/23 7:30 AM	2/22/23 8:45 AM	47940.00	Data from flow meter	JJ
			2/23/2023 5:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.62	2/22/23	2/23/23	2/23/23 5:15 AM	2/23/23 8:30 AM	195054.60	Data from flow meter	JJ
			2/27/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.97	2/27/23	2/28/23	2/27/23 9:15 PM	2/28/23 10:00 AM	838502.70	Data from flow meter	JJ
			2/16/2023 9:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.46	2/16/23	2/18/23	2/16/23 9:45 AM	2/18/23 5:00 PM	1910437.60	Data from flow meter	JJ

Station	Location	2/16/2023 12:30PM	2/23/2023 5:45AM	2/27/2023 9:45PM	2/16/2023	2/18/2023	2/16/2023 12:30 PM	2/17/2023 4:00 PM	6:00	17.97	6469.20	Data from flow meter	JJ
011	Mt. View Dr. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/23 5:45 AM	2:00	3.24	388.80	Data from flow meter	JJ
016	R.R. Ave./10th Street Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/23 9:45 PM	4:15	19.97	5092.35	Data from flow meter	JJ
017	S. Davis Ave. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								No wet weather data available due to faulty flow meter	JJ
018	S. Kerens Ave. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/2/2023 4:30 PM	15:15	1.85	1692.75	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/16/2023 9:30AM	42:15	153.22	368412.70	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/21/2023 12:30AM	0:15	86.98	1304.70	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/22/2023 7:45AM	0:30	311.99	9359.70	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/2023 5:15AM	2:15	439.71	59360.85	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/25/2023 11:30AM	0:01	1.8	1.80	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/2023 11:30AM	24:30	316.03	464564.10	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/16/2023 10:00AM	7:45	112.28	52210.20	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/18/2023 9:15AM	3:00	5.25	945.00	Data from flow meter	JJ
019	S. Henry Ave. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/22/2023 7:45AM	0:15	12.42	186.30	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/2023 5:30AM	1:15	189.78	14233.50	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/2023 9:15PM	9:30	230.28	131259.60	Data from flow meter	JJ
020	Flood Control Road Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/16/2023 12:45PM	35:00	632.32	1327872.00	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/2023 5:45AM	6:45	387.17	156803.85	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/2023	20:00	477.26	572712.00	Data from flow meter	JJ

Monthly Precipitation 3.5 in
Total Estimated Monthly Discharge 9868652.28
Wet Weather Events: 5 Dates: 2/16-2/18, 2/21, 2/22-2/23, 2/25-2/26, 2/27-2/28
Dry Weather Events: 1 Dates: 2/2-2/3
Total Events: 6

Station	Location	2/16/2023 12:30PM	2/23/2023 5:45AM	2/27/2023 9:45PM	2/16/2023	2/18/2023	2/16/2023 12:30 PM	2/17/2023 4:00 PM	6:00	17.97	6469.20	Data from flow meter	JJ
011	Mt. View Dr. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/23 5:45 AM	2:00	3.24	388.80	Data from flow meter	JJ
016	R.R. Ave./10th Street Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/23 9:45 PM	4:15	19.97	5092.35	Data from flow meter	JJ
017	S. Davis Ave. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								No wet weather data available due to faulty flow meter	JJ
018	S. Kerens Ave. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/2/2023 4:30 PM	15:15	1.85	1692.75	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/16/2023 9:30AM	42:15	153.22	368412.70	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/21/2023 12:30AM	0:15	86.98	1304.70	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/22/2023 7:45AM	0:30	311.99	9359.70	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/2023 5:15AM	2:15	439.71	59360.85	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/25/2023 11:30AM	0:01	1.8	1.80	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/2023 11:30AM	24:30	316.03	464564.10	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/16/2023 10:00AM	7:45	112.28	52210.20	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/18/2023 9:15AM	3:00	5.25	945.00	Data from flow meter	JJ
019	S. Henry Ave. Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/22/2023 7:45AM	0:15	12.42	186.30	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/2023 5:30AM	1:15	189.78	14233.50	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/2023 9:15PM	9:30	230.28	131259.60	Data from flow meter	JJ
020	Flood Control Road Tygart Valley River	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/16/2023 12:45PM	35:00	632.32	1327872.00	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/23/2023 5:45AM	6:45	387.17	156803.85	Data from flow meter	JJ
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RAIN	RAIN	RAIN	2/27/2023	20:00	477.26	572712.00	Data from flow meter	JJ

011	Mt. View Dr.	Tygart Valley River	3/2/2023 4:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	3/4/23	3/2/23 4:30 AM	3/2/23 6:15 AM	1:30	4.44	399.80	Data from flow meter	JJ
			3/3/2023 11:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	03/04/23	3/3/23 11:45 AM	3/3/23 2:30 PM	0:45	5.73	257.85	Data from flow meter	JJ
			3/17/2023 7:00PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	R/S	0.30	3/17/23	3/18/23	3/17/23 7:00 PM	3/17/23 7:15 PM	0:15	0.11	1.65	Data from flow meter	JJ
			3/24/2023 6:00AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	3/23/23	3/25/23	3/24/23 6:00 AM	3/25/23 7:30 AM	10:45	5.7	3676.50	Data from flow meter	JJ
			3/31/2023 9:45PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.50	3/31/23	3/31/23	3/31/23 9:45 PM	3/31/23 11:45 PM	2:00	4.89	586.80	Data from flow meter	JJ
016	R.R. Ave./10th. Street	Tygart Valley River																No wet weather data available due to faulty flow meter	JJ	
017	S. Davis Ave.	Tygart Valley River																	No wet weather data available due to faulty flow meter	JJ
018	S. Kerens Ave.	Tygart Valley River	3/2/2023 3:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	3/4/23	3/2/23 3:15 AM	3/2/23 9:15 AM	4:00	223.86	53726.40	Data from flow meter	JJ
			3/3/23 9:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	03/04/23	3/3/23 9:45 AM	3/4/23 7:15 AM	2:45	188.79	31150.35	Data from flow meter	JJ
			3/17/2023 6:00PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.3	3/17/23	3/18/23	3/17/23 6:00 PM	3/17/23 7:15 PM	0:45	100.86	4538.70	Data from flow meter	JJ
			3/18/2023	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	R/S	0.30	3/17/23	3/18/23	3/18/23 1:00 PM	3/18/23 1:15 PM	0:15	0.63	9.45	Data from flow meter	JJ
019	S. Henry Ave.	Tygart Valley River	3/23/2023 9:15PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	3/23/23	03/25/23	3/23/23 9:15 PM	3/26/23 1:00 AM	34:15	122.69	252127.95	Data from flow meter	JJ
			3/31/2023 4:00PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.5	3/31/23	03/31/23	3/31/23 4:00 PM	3/31/23 11:15 PM	2:30	195.69	29353.50	Data from flow meter	JJ
020	Flood Control Road	Tygart Valley River	3/2/2023 4:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	3/4/23	3/2/23 4:00 AM	3/2/23 5:15 AM	0:45	173.87	7824.15	Data from flow meter	JJ
			3/3/2023 11:00AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	03/04/23	3/3/23 11:00 AM	3/3/23 11:45 AM	0:45	48.42	2178.90	Data from flow meter	JJ
			3/4/23 1:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	3/4/23	3/4/23 1:15 AM	3/4/23 8:15 AM	6:45	108.07	43768.35	Data from flow meter	JJ
			3/24/2023 12:45AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	3/23/23	3/25/23	3/24/23 12:45 AM	3/24/23 5:45 PM	4:30	97.77	26397.90	Data from flow meter	JJ
020	Flood Control Road	Tygart Valley River	3/25/2023 6:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	3/23/23	03/25/23	3/25/23 6:15 AM	3/25/23 7:15 AM	0:45	97.34	4380.30	Data from flow meter	JJ
			3/31/2023 10:00PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GOOD	<input checked="" type="checkbox"/>	Y	W	RAIN	0.5	3/31/23	03/31/23	3/31/23 10:00 PM	3/31/23 10:15 PM	0:15	80.71	1210.65	Data from flow meter	JJ
019			3/2/2023 4:15AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	3/4/23	3/2/23 4:15 AM	3/2/23 10:45 AM	5:30	230.19	75962.70	Data from flow meter	JJ
020			3/3/2023 11:30AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	0.68	3/2/23	03/04/23	3/3/23 11:30 AM	3/3/23 3:30 PM	3:15	211.91	41322.45	Data from flow meter	JJ
020			3/24/2023 6:00AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	<input checked="" type="checkbox"/>	Y	W	RAIN	1.17	3/23/23	3/25/23	3/24/23 6:00 AM	3/25/23 8:00 AM	13:00	468.12	365133.60	Data from flow meter	JJ

Monthly Precipitation 3.67

Total Estimated Monthly Discharge

5362043.59

Wet Weather Events: 4 Dates: 3/2-3/4,3/17-3/18,3/23-3/25,3/31

Dry Weather Events: 0 Dates:

Total Events: 4

Semi-Annual Plant Flow per CSO Discharge Event

4th Quarter 2022

Event Period	Outfalls Affected	Precipitation	Event Dates	Plant Influent Flow	Plant Effluent Flow
10/1-10/3	002,004,005,006, 008,011,018,019, 020,	2.6in	10/1-10/2- 10/3	12,194,297 12,107,023 8,206,202	7,585,000 8,045,900 4,165,000
10/13-10/14	004	0.27in	10/13	8,622,830 8,253,834	2,138,900 1,801,000
10/26-10/27	004,005,006,008 018,	0.35in	10/26	8,099,813 7,967,939	1,608,900 1,418,200
10/31	004,005,018,	0.21in	10/31	9,135,373	2,443,800
11/11-11/13	002,003,004,005, 006,007,008,011, 018,019,020,	2.12in	11/11-11/12- 11/13	6,384,794 4,401,633 3,150,095	6,197,000 5,229,000 3,389,900
11/15-11/17	002,004,005,006, 008,011,018,019, 020,	1.57in	11/15-11/16- 11/17	6,639,626 5,496,364 3,321,120	6,813,000 6,063,000 3,349,100
11/30	004,005,	0.02in	11/30	2,699,238	2,585,000
12/3	004,005,018,	0.17in	12/3	3,547,674	3,574,200
12/6-12/9	002,003,004,005, 006,007,008,011, 018,019,020,	1.17in	12/6-12/7- 12/8	4,172,091 5,686,256 3,779,755 3,147,662	2,879,900 6,940,900 3,715,100 2,942,100
12/14-12/19	004,005,006,008, 011,018,019,020,	0.70in	12/14-12/15- 12/17-12/18- 12/19	2,422,928 4,994,326 3,582,561 2,804,482 2,313,866 2,342,205	2,219,000 3,981,900 3,444,100 2,636,000 2,147,000 2,163,100
12/21-12/25	004,005,006,008, 011,018,019,020,	0.79in	12/21-12/22- 12/23-12/24- 12/27-12/28	3,385,888 5,597,626 3,885,591 1,325,275 2,727,298	2,063,000 6,253,200 4,055,900 2,251,000 2,417,100
12/31	002,004,005,006, 007,008,018,019, 020,	0.89in	12/31	5,275,897	5,213,900

Elkins Flow Meter Not Working Correctly-Flows Inaccurate
Influent Flow Meters Not Working Accurately-Flows Inaccurate

Semi-Annual Plant Flow per CSO Discharge Event
1st Quarter 2023

Event Period	Outfalls Affected	Precipitation	Event Dates	Plant Influent Flow	Plant Effluent Flow
1/1	002,004,005,018,020,	0.61in	1/1-1/2	3,999,644	4,130,100
1/3-1/5	004,005,006,018,	0.09in	1/3	3,171,795 2,681,015 2,600,112	3,008,100 2,579,100 2,335,900
1/11-1/15	004,005,006,008,018,	0.85in	1/11-1/12-1/13-	1,981,237 2,976,653 2,076,140 728,570 657,115	1,725,100 3,006,800 4,216,100 3,002,000 2,605,000
1/17	002,004,005,006,008,011,018,019,020,	0.53in	1/17-1/18	1,634,925 946,502	7,997,100 4,671,900
1/19-1/21	004,	0.19in	1/19	772,446 678,816 741,670	3,508,100 2,956,100 2,546,900
1/22-1/23	004,005,	0.29in	1/22-1/23	876,008 0	3,105,200 3,481,900
1/25-1/27	002,004,005,006,008,011,018,019,020,	0.61in	1/25-1/26-1/27	1,445,155 4,604,737 3,617,263	3,481,900 4,802,000 3,439,200
1/29-1/31	004,005,011,	0.51in	1/29-1/30-1/31	4,089,570 3,604,469 3,745,568	3,970,000 3,041,000 3,539,100
2/16-2/18	002,004,005,006,008,011,018,019,020,	1.46in	2/16-2/17-2/18	5,834,309 5,560,042 3,990,230	5,302,000 6,095,000 4,159,900
2/21	004,005,006,008,018,	0.14in	2/21	2,753,979	2,516,100
2/22-2/23	002,004,005,006,008,011,018,019,020,	0.62in	2/22-2/23	4,228,011 4,749,947	3,334,000 5,120,800
2/25-2/26	004,005,018,	0.10in	2/25-2/26	1,294,710 2,760,502	1,294,710 2,760,502
2/27-2/28	002,003,004,005,006,007,008,011,018,019,020,	0.97in	2/27-2/28	5,486,510 5,239,070	4,787,800 5,965,100
3/2-3/4	002,004,005,006,008,011,018,019,020,	0.68in	3/2-3/3-3/4	5,205,872 4,445,913 3,799,612	5,168,900 4,751,000 3,776,100

3/17-3/18	002,004,005,008, 011,018,	0.30in	3/17-3/18	3,892,821 3,264,960	3,812,000 3,130,900
3/23-3/25	002,004,005,006, 008,011,018,019, 020,	1.17in	3/23-3/24-3/25	4,500,690 6,884,480 5,023,138	3,004,900 8,024,200 5,810,100
3/31	002,004,005,006, 008,011,018,019,	0.50in	3/31	4,761,647	3,367,200

ELKINS WASTEWATER SPILL REPORT

SPILL PHONE NUMBER 1-800-642-3074

WDEP Reference Number: 42-30255

SPILL START

DATE: 11/11/22

TIME: 8:30 PM

REPORTED TO WDEP

PERSONNEL REPORTING: Mike Currence

DATE: 11/14/22

TIME: 8:10 AM

SPILL CORRECTED

DATE: 11/11/22

TIME: 11:00 PM

REPORTED TO WDEP

PERSONNEL REPORTING: Mike Currence

DATE: 11/14/22

TIME: 8:10 AM

LOCATION: 207 Sylvester Dr.

FLOW TO STREAM? Yes

NAME OF STREAM: Tygart Valley River

TYPE OF MATERIAL SPILLED: Sewage

CAUSE: Sewer main became overloaded due to rain, causing a manhole to overflow onto the ground which then flowed with additional storm water to the river.

AMOUNT OF SPILL: Unknown

DURATION OF SPILL: Estimated 2 1/2 hours

CORRECTIVE ACTION TO STOP: As flow dropped off due to rain stopping, line drained out.

CORRECTIVE ACTION TO PREVENT FUTURE SPILLS: Engineers for the City are reviewing possible solutions including rerouting a force main that pumps directly into the line or replacing lines in the area served by that pump station to eliminate V/I.

COMMENTS: Area received 2.07" precipitation throughout the reported duration period from heavy rain. Main line became overloaded with flow from rain in addition to flow from two lift stations that also pump into the main line. Residual debris in the area was cleaned up. Duration estimate is based on approximate start and stop time of rain. City was not notified by residents that a surcharge had occurred and due to a holiday and weekend, discharge was not discovered by City personnel until 11/14/22.

SIGNATURE OF PERSON REPORTING: _____

DATE: 11/14/22

SIGNATURE OF CERTIFIED OPERATOR: _____

DATE: 11/14/22

ELKINS WASTEWATER SPILL REPORT

SPILL PHONE NUMBER 1-800-642-3074

WVDEP Reference Number: 42-31969

SPILL START

DATE: 2/2/23

TIME: 4:30 PM

REPORTED TO WVDEP

PERSONNEL REPORTING: Mike Currence

DATE: 2/27/23

TIME: 10:27 AM

SPILL CORRECTED

DATE: 2/3/23

TIME: 9:30 AM

REPORTED TO WVDEP

PERSONNEL REPORTING: Mike Currence

DATE: 2/27/23

TIME: 10:27 AM

LOCATION: CSO outfall # C018 at S. Kerens Ave.

FLOW TO STREAM? Yes

NAME OF STREAM: Tygart Valley River

TYPE OF MATERIAL SPILLED: Sewage

CAUSE: Unknown.

AMOUNT OF SPILL: 1,693 gallons

DURATION OF SPILL: 17 hours

CORRECTIVE ACTION TO STOP: Checked regulator structure for restrictions

CORRECTIVE ACTION TO PREVENT FUTURE SPILLS: Ongoing CSO maintenance which includes inspections of CSO structures as well as review of flow meter data.

COMMENTS: No discharge or evidence of a discharge was observed during routine CSO inspection. Discharge was discovered during later review of flow meter data. Regulator may have been partially blocked then later washed out. Discharge was intermittent throughout the duration period.

SIGNATURE OF PERSON REPORTING: _____

DATE: 2/27/23

SIGNATURE OF CERTIFIED OPERATOR: _____

DATE: 2/27/23

**CITY OF ELKINS
WASTEWATER COLLECTION
COMPLAINT SUMMARY
4th Quarter 2022**

DATE	ADDRESS	Complainant	COMPLAINT	CAUSE	CORRECTIVE ACTION	OPERATOR(S)
10/1/22	209 Davis Ave	Tricketts Hardware	Sink Hole In The Alley	Sewer Main Leaking At Bells	We Put Rock In The Hole For Now	MH JT
10/6/22	Guy & Elm St.	City Hall Called	Sink Hole In The Road	Sewer Main Leaking At Bells It Was A Water Leak	We Put Rock In The Hole For Now	JR GH
10/11/22	1520 S Kerens Ave	City Hall Called	Water Laying Under House	Sewer Tap Plugged	We Told Them To Call Water Dept	JR NY
10/12/22	1301 S Henry Ave	No Name	Sewer Problem	Sewer Tap Plugged	We Use Vactor Truck To Get Them Open 10'	MH JR NY GH JT
10/12/22	123 College St.	No Name	Sewer Problem	Sewer Tap Plugged	We Use Vactor Truck To Get Them Open 20'	MH JT JR NY GH
10/14/22	939 S Davis Ave	Hair Graphics	Sewer Problem	Sewer Odor	Check Sewer Main It Was Working Ok	JT JR
10/17/22	15th St.	Elkins Metal Recycling	Sewer Problem	Sewer Tap Plugged	We Use Vactor Truck To Get It Open 10'	MH JT JR NY GH
10/17/22	944 S Kerens Ave	No Name	Sewer Problem	Sewer Working Slow	We Check Sewer Main Ok They Didn't Have Clean Out	NY JR
10/18/22	944 S Kerens Ave	No Name	Sewer Problem	Plumber Got Sewer Snake Stuck In Sewer Tap	We Televised Sewer Main Didn't Find Sewer Snake We Told Him He Had To Dig Up Sewer Tap Get Out	MH JT JR NY GH
11/3/22	Pleasant Ave	Henry Dawson	Sewer Problem	Sewer Tap Plugged	We Use Vactor Truck To Get It Open 50'	MH JT GH
11/4/22	Harper Town Rd.	City Hall Called	Sewer Problem	Water Leak In The Road	It Wasn't Ours We Called Water Dept	JT GH
11/9/22	10 1/2 Centrail St.	Tom Conley	Sewer Problem	Sewer Tap Plugged	They Are Two Homes Tye Together We Use Vactor Truck To Get Them Open 120'	MH JT JR GH MC
11/28/22	20 Cherry St.	John Belan	Sewer Problem	Sewer Tap Plugged	We Use Vactor Truck To Get Them Open 30'	MH MC
11/28/22	100 William St.	Bryan Paugh	Storm Drain Problem	He Want To Move Storm Drain	We Want To Move City Drain Line To Build A Garage	MH MC
12/2/22	Pleasant Ave	Henry Dawson	Sewer Problem	Sewer Tap Plugged	We Use Vactor Truck To Get It Open 100'	MH JR NY
12/5/22	929 Davis Ave	Reckart Logistics	Sewer Problem	Our Sewer Main Was Plugged	Used Vactor Truck To Get It Open 260'	MH JR MC JR MC GH
12/6/22	801 Randolph Ave	All Creatures Greatures Great & Small	Sewer Problem	Hole In The Road	We Put Rock In The Hole For Now	MH JT JR NY
12/7/22	315 Main St.	No Name	Sewer Problem	Sewer Backing Up	We Used Vactor Truck To Clean Tap 100'	MH JR JT GH
12/12/22	117 Oakland St.	Cris Siler	Sewer Problem	Sewer Backing Up	Didn't Have a Clean Out On Sewer He Going To Call A Plumber	
12/13/22	117 Oakland St.	Cris Siler	Sewer Problem	Sewer Tap Plugged	We Used Vactor Truck To Clean Tap 2'	MH MC JT JR NY
12/14/22	929 Davis Ave	Reckart Logistics	Sewer Problem	Sewer Main Plugged	We Used Vactor Truck To Clean Sewer Main 260.	JT NY JR GH
12/15/22	41 Heavner Acres	Jeff Welshonice	Sewer Problem	Sewer Main Plugged On Him	We Used Vactor Truck To Get Him Open 100' It Is His Prevent Line At Trailer Cort	MH NY JR JT GH
12/27/22	2 Wilson St.	Tom Simpson	Sewer Problem	Sewer Tap Plugged	We Used Vactor Truck But We Didn't Get It Open We Told Him To Call A Plumber	MH JT JR NY GH
12/29/22	125 High St.	City Hall Called	Sewer Problem	Sewer Main Plugged	We Used Vactor Truck To Get It Open 100'	MH JT JR GH NY
12/29/22	888 Industrial Park	Green Field cabinety	Sewer Problem	Sewer Backing Up	We Check Sewer Clean Out & Sewer Main It Ok	MH JT JR NY GH
12/29/22	189 Summit St.	No Name	Sewer Problem	Sewer Main Plugged	We Used Vactor Truck We Didn't Get It Open Were Going To Dig It Opem Tomorrow	MH JT JR NY GH
12/31/22	203 Andrews St.	No Name	Sewer Problem	Sewer Tap Plugged	We Used Vactor Truck To Get Him Open 100'	JT JR GH

**CITY OF ELKINS
WASTEWATER COLLECTION
COMPLAINT SUMMARY
1st Quarter 2023**

DATE	ADDRESS	COMPLAINANT	COMPLAINT	CAUSE	CORRECTIVE ACTION	OPERATOR(S)
1/2/2023	189 Summit St.	No name	Sewer Problem	Sewer Tap Plugged	Used Vactor Truck to get it open	J.T. N.Y
1/2/2023	Vector Ave	Vector Lift Station	High Level Critical		Checked Station it was pumping	M.H
1/3/2023	Pleasant Ave	Mike Huffman	Sewer Problem	Water getting into manhole	We checked it and it was Ok	M.H M.C
1/3/2023	405 16th St.	James Parsons	Sewer Complaint	Sewer Tap Plugged	Used Vactor Truck to get it open	J.T.M.H.M.C
1/5/2023	303 Marro Dr.	No name	Sewer Problem	Sewer Tap Plugged	Used Vactor Truck in basement	J.T.M.H.M.C.N.Y
1/7/2023	Ward Road	Dave Morgan	Sewer Problem	Pumps were Down	Used Vactor Truck to clean out	J.T.J.R
					Lift Station for Midland	
1/8/2023	Ward Road	Dave Morgan	Sewer Problem	Pumps were down	Used Vactor Truck to clean out	J.T.G.H.N.Y
					Lift Station for Midland	
1/13/2023	5 Goff St.	No name	Sewer Complaint	Sewer Backing Up	Checked Sewer Main it was Ok	M.H.J.T.J.R.N.Y
					They didn't have a clean out	
1/14/2023	5 Goff St.	No name	Sewer Complaint	Sewer Backing Up	Used Vactor Truck to clean main	J.T.J.R
					Line 144'	
1/16/2023	946 S Henry Ave	No name	Sewer Problem	Sewer backing up in basement	Used Vactor Truck to get it open	J.T.M.H
					20'	
1/17/2023	105 Ferndale Ave	No name	Sewer Problem	Sewer Tap Plugged	We didn't get it open with Vactor	J.T.M.H.J.R.G.H
					Truck, were making a new Tap	N.Y.M.C
1/17/2023	622 Central St.	No name	Sewer Complaint	Sewer Tap Plugged	Unplugged Tap with Vactor Truck	J.T.J.R.N.Y
					100'	
1/19/2023	1219 S Henry Ave	Nayoke Gunthire	Sewer Problem	Sewer Backing up when it rains	She wants a check valve installed	M.H.J.R.N.Y
1/19/2023	242 Diamond St.	John Clingerman	Sewer Complaint	Sewer Backing up into Basement	Checked Sewer Main it was Ok	M.H.W.H.M.C
					We cleaned Sewer Main	
1/21/2023	203 Andrews St.	No name	Sewer Problem	Sewer Backing up	Used Vactor Truck to get it open	M.H.J.T.J.R
					25'	
1/30/2023	130 Delaware Ave	No name	Sewer Complaint	Sewer Tap Plugged	Used Vactor Truck to get it open	M.H.J.T.J.R.N.Y
					100'	G.H.M.C
1/30/2023	107 Summer St.	No name	Sewer Problem	Sewer Tap Plugged	Used Vactor Truck to get it open	M.H.J.T.J.R.N.Y
					20'	
1/30/2023	Alley Behind Lohr	Tyler F	Sewer Problem	Sewer Backing Up	Were going to dig it up Tomorrow	M.H.W.H.G.H.J.R
						J.T.N.Y.M.C
2/6/2023	D&E College	No name	Sewer Problem	Sewer Line Plugged	Used Vactor Truck to clean their	J.T.J.R.G.H
					main sewer line	
2/7/2023	Grant St.	Donald Chenoweth	Sewer Problem	Sink Hole in Alley	We dug it up and it was a water	M.H.J.T.J.R.G.H
					leak	M.C.N.Y
2/10/2023	1st St.	Floyd Canfield	Sewer Problem	Sewer Tap Plugged	Used Vactor Truck to get it open	J.T.G.H
					25'	
2/11/2023	110 White Oak	No name	Sewer Complaint	Sewer Tap Plugged	Used Vactor Truck to get it open	J.R.N.Y
					150'	
2/15/2023	1401 15th St.	No name	Sewer Problem	Sewer Tap Plugged	Used Vactor Truck to get it open	J.T.J.R.G.H
					10'	
2/15/2023	420 Center St.	No name	Sewer Complaint	Sewer Tap Plugged	Used Vactor Truck to get it open	J.T

**CITY OF ELKINS
WASTEWATER COLLECTION
COMPLAINT SUMMARY
1st Quarter 2023**

DATE	ADDRESS	COMPLAINANT	COMPLAINT	CAUSE	CORRECTIVE ACTION	OPERATOR(S)
2/17/2023	119 Vector Ave	No name	Sewer Problem	Sewer Tap Plugged	Used Vactor Truck didn't get it Open, told them to call plumber	J.T.G.H
2/21/2023	141 Delaware Ave	No name	Sewer Complaint	Sewer Tap Plugged	Used Vactor Truck to get it open 50'	M.H.J.T.G.H.N.Y
2/22/2023	132 Delaware Ave	No name	Sewer Problem	Sewer Backing Up	Checked Clean Out it was empty	J.T.G.H
2/23/2023	10th St.	Jonathan Kyle	Sewer Problem	Sewer Tap Plugged	We Dug up sewer tap and found it	J.T.M.H.J.R.G.H M.C
2/24/2023	116 Pleasant Ave	No name	Sewer Complaint	Sewer Tap Plugged	Used Vactor Truck to get it open 50'	M.H.J.T.G.H
3/6/2023	5 1st St.	No name	Sewer Problem	Sewer Under the house	Checked cleanout it was empty Told him to call a plumber	J.T.N.Y
3/7/2023	116 Pleasant Ave	No name	Sewer Problem	Sewer working slow	Cleaned Main Sewer Line 180'	J.T.J.R.G.H.N.Y
3/14/2023	258 Terrace Ave.	No Name	Sewer Problem	Sewer working slow	Checked cleanout it was empty	J.T.M.H.M.C.G.H
3/16/2023	258 Terrace Ave.	No Name	Sewer Problem	Sewer working slow	Used Vactor Truck to get it open	J.T.J.R.G.H.N.Y
3/20/2023	515 Lincoln Ave	Van Broughton	Sewer Odor	Sewer Backing Up	Cleaned Main Sewer Line 90'	J.T.J.R.G.H.N.Y
3/24/2023	105 Ferndale	No Name	Sewer Problem	Sewer Tap Plugged	Used Vactor Truck to get it open	J.T.J.R.M.H.N.Y
3/30/2023	100 Glendale Ave	No Name	Sewer Backing Up	Sewer Tap Plugged	Used Vactor Truck to get it open	J.R.N.Y

Semi-Annual Equipment Maintenance Summary
4th Quarter 2022 – 1st Quarter 2023

Date	Location	Equipment	Maintenance
10/17/22	FORDLAND	New Ram 5500	Fordland installed 2 new batteries
11/4/22	Charleston	New Ram 5500	Installed new utility bed
11/21/22	21 Jones Dr	Truck #15	Wash truck
11/29/22	Charleston	New Ram 5500	Picked up truck
12/5/22	Fordland	New Ram 5500	Took truck to Elkins Fordland to have tires balanced
1/27/23	21 Jones Dr	23 Western Star	Installed new valves

City of Elkins – Compliance Milestones

LTCP Improvements

The City of Elkins has completed Phase I & II of the current LTCP. Currently working on identifying projects for future phases to be included in an updated LTCP. Significant events of the current LTCP as well as actions taken to begin drafting a new LTCP are listed chronologically below:

Timeline of Events

- 4/16/13 - SHPO issues the Architectural Resources approval for project (Archaeological Resources approved on 5/29/12).
- 4/22/13 - WVDEP issues a Findings of No Significant Impact (FONSI).
- 9/13/13 - WVDNR issues a License and Right of Entry.
- 9/19/13 - Submitted a WVDOH Right-of-Way Permit.
- 10/24/13 - WVDEP approved the Contract Drawings and Specification.
- 12/6/13 - Army Corps of Engineers issued Nationwide Permit.
- 2/4/14 - WVDEP issues NPDES Construction Stormwater Permit.
- 3/10/14 - Submitted Clean Water SRF Priority Fact Sheet to WVDEP
- 4/8/14 - Received Information from WVDEP Indicating the Agency Would Be Unable to Finance the Project.
- 5/8/14 - Sent a Letter to the West Virginia Infrastructure and Jobs Development Council (WVIJDC) Requesting a Funding Change for the Project
- 5/27/14 - Submitted a Certificate of Convenience and Necessity with the Public Service Commission of West Virginia (PSC).
- 6/24/14 - WVIJDC Funding Committee Approved the City Seeking Financing through a WVIJDC Loan.
- 6/25/14 - NPDES Permit Modification Submitted to WVDEP
- 7/3/14 - City Filed a Motion to Toll the Case at the PSC
- 7/9/14 - At the WVIJDC meeting, Council Approved Financing of the Project through a WVIJDC Loan.
- 7/14/14 - PSC Authorized the 30-Day Extension of the Tolling Period.

- 7/16/14 - Received a Binding Commitment Letter from WVIJDC.
- 7/23/14 - Received Bureau for Public Health Permit.
- 8/29/14 - Sent letter to WVIJDC Requesting a Clarification on the Binding Commitment Letter.
- 9/9/14 - Sent Letter to WVIJDC Requesting to Be Placed on the Agenda for the 10-1-14 Council Meeting.
- 9/12/14 - PSC Authorized an Additional 30-Day Tolling Period.
- 10/1/14 - Revised Binding Commitment Letter from WVIJDC Received.
- 10/9/14 - Lifted the Motion to Toll the Rate Case Associated with the Project.
- 12/17/14 - WVIJDC Issues a Bid Authorization Letter
- 12/23/14 - First Advertisement for Bids.
- 12/30/14 - Second Advertisement for Bids.
- 1/7/15 - First Pre-Bid Meeting
- 1/23/15 - Second Pre-Bid Meeting
- 2/10/15 - Bid Opening for Project
- 2/19/15 - Bid Review Letter Issued by the Engineer
- 2/23/15 - Conditional Notice of Award Issued to the Contractor
- 3/26/15 - WVIJDC Authorizes Use of Bid Underrun
- 4/15/15 - Pre-Closing for WVIJDC Loan
- 4/16/15 - Closing of WVIJDC Loan
- 4/17/15 - Pre-Construction Meeting for the Project
- 5/29/15 - Initiation of Construction.
- 6/15/15 - Construction Progress Meeting – Milling and saw cuts made on Kerens Avenue. Wing wall set at river. Installed slope protection.
- 7/13/15 - Construction Progress Meeting – Installed new storm drains along Kerens Avenue and Wilson Street.
- 8/17/15 - Construction Progress Meeting – Continued storm sewer installation on Kerens Avenue, Wilson Street, and College Street. Bore and jack of storm drain on Randolph Avenue. Began trench repairs. Installed water insert valves.

- 9/21/15 - Construction Progress Meeting – Completed installation of storm sewers. Lining of sewers has begun. Installation of water mains has begun. Continued on trench repairs.
- 9/25/15 - Completed lining of sewers.
- 10/15/15 - Construction Progress Meeting – Completed lining of manholes. Waterline improvements associated with new storm drains were completed. New sewer laterals began being installed for the residences along Kerens Avenue.
- 11/30/15 - Construction Progress Meeting – Work associated with the LTCP was completed with the exception of minor ancillary work. A punch list was created for items associated with this work.
- 1/14/16 - Began review of flow data for the Post Construction Monitoring Report. Construction work shut down due to weather.
- 2/1/16 - Construction restarted with installation of storm sewers along First Street.
- 2/8/16 - Construction began on storm sewer on Central Avenue.
- 2/9/16 - Construction work shut down due to weather.
- 3/7/16 - Construction Progress Meeting – Completed alley beside of WVDOH garage and First Street. Construction restarted with continued work on Central Avenue.
- 3/14/16 - Began storm sewers on Third Street.
- 3/17/16 - Completed storm sewers in Central Avenue.
- 4/6/16 - Completed storm sewers on Third Street.
- 5/6/16 - Requested funding to provide sewer televising along the Buffalo Creek Culvert and combined sewers and to purchase and install a flow meter on new storm line.
- 5/31/16 - Substantial Completion walkthrough completed.
- 6/1/16 - Date of Substantial Completion for the project.
- 7/7/16 - Certificate of Substantial Completion acknowledged by City.
- 7/25/16 - Performed CCTV of Buffalo Creek Culvert.
- 8/1/16 - Performed cleaning and CCTV on combined sewer at locations of known issues.
- 8/19/16 - Installed flow meter on new storm line at end of Kerens Avenue.
- 9/20/16 - Signed Agreement for improvements to sludge aeration system at the wastewater treatment plant.
- 9/30/16 - Contractor provided final pay estimate to the City.

- 10/21/16 - Report on Buffalo Creek Culvert completed.
- 12/19/16 - Began construction on aeration improvements at the wastewater treatment plant.
- 1/23/17 - Selected the scope of the Combined Sewer System Improvements Project, Phase 2.
- 1/31/17 - Submitted the Post Construction Monitoring Report for the Combined Sewer System Improvements Project.
- 3/20/17 - Signed amendment with Engineer to create a Preliminary Engineering Report for Combined Sewer System Improvements Project, Phase 2.
- 3/28/17 - Contractor reached Substantial Completion for the wastewater treatment plant aeration upgrades.
- 4/10/17 - Began manhole inspections for the Combined Sewer System Improvements Project, Phase 2.
- 4/11/17 - Completed manhole inspections.
- 5/21/17 - Began smoke testing for the sewers tributary to CSO 016.
- 5/25/17 - Completed smoke testing.
- 6/19/17 - Presentation of results from the manhole inspections and smoke testing to the Board.
- 8/21/17 - Options presented to the Board for the Phase 2 project.
- 9/11/17 - Accountant selected for the Phase 2 project.
- 9/18/17 - Board selected the scope for the Phase 2 project.
- 9/19/17 - Project Initiation form submitted to WVIJDC.
- 9/21/17 - WVIJDC approved the Project Initiation form for the Phase 2 project.
- 11/10/17 - Accountant forms added to the WVIJDC Project Dashboard.
- 12/8/17 - Preliminary Engineering Report added to the WVIJDC Project Dashboard.
- 1/23/18 - Phase 2 Project reviewed at the WVIJDC Technical Review and Funding Committee Meeting
- 2/7/18 - Project funding approved by the WVIJDC.
- 2/12/18 - Funding decision letter from WVIJDC sent.
- 2/26/18 - Engineering amendment for design approved by the Sanitary Board.
- 3/26/18 - Field work for Phase 2 design started.
- 4/18/18 - Completed field work for Phase 2 project.

- 5/14/18 - Smoke tested along Riverview Drive and Teaberry Hills areas of the City.
- 6/18/18 - Reviewed 30% design documents with the Sanitary Board.
- 8/20/18 – Reviewed 60% design documents with the Sanitary Board.
- 8/29/18 – Performed field work associated with the Buffalo Creek sewer improvements.
- 10/31/18 – Submitted Facilities Plan for Combined Sewer System Improvements, Phase 2 project to WVDEP.
- 11/7/18 – Conference call to discuss project progress (internal team members only)
- 11/19/18 – Board meeting to discuss project progress.
- 12/7/18 – Conference call to discuss project progress (internal team members only).
- 12/11/18 – Submitted Plans and Specifications for Combined Sewer System Improvements, Phase 2 project to WVDEP.
- 12/12/18 – Performed additional smoke testing in the Teaberry Hills section of the City.
- 1/19/19 – Submitted revised Facilities Plan to the WVDEP based upon comments.
- 1/22/19 – Conference call to discuss project progress (internal team members only).
- 2/19/19 – Conference call to discuss project progress (internal team members only).
- 3/14/19 – Conference call with WVDEP to discuss project progress.
- 3/18/19 – Board approved Engineering Amendment covering the construction and post construction phase services associated with the Combined Sewer System Improvements, Phase 2 project.
- 4/9/19 – Conference call with all team members.
- 4/16/19 – Updated cash flow was created.
- 4/30/19 – First draft of the Schedule B created.
- 5/21/19 – Updated project schedule was circulated for review.
- 5/23/19 – Conference call with all team members.
- 5/24/19 – Final easement list created for the project.
- 6/6/19 - Received Categorical Exclusion for the project from WVDEP.
- 6/17/19 – Conference call with all team members.
- 6/25/19 – Received comments from the railroad plans.

- 7/10/19 – Conference call with all team members.
- 7/16/19 – Submitted the NPDES Permit Modification and the NPDES Construction Stormwater Permit to WVDEP.
- 7/23/19 – Soil borings were collected throughout the project area.
- 8/1/19 – Received comments from WVDOH on the project.
- 8/8/19 – Received comments from WVDEP on the NPDES Construction Stormwater Permit on the project.
- 8/15/19 – City Council approved the new Sewer Use Ordinance.
- 8/15/19 – Conference call with all team members.
- 8/19/19 – Sanitary Board recommended the project to move forward as presented with the proposed funding scenario to City Council for approval.
- 9/4/19 – Received approval of the Plans and Specifications from WVDEP.
- 9/5/19 – Received geotechnical report on the project area.
- 9/16/19 – Received approval for the NPDES Construction Stormwater Permit to WVDEP.
- 9/18/19 – Internal conference call to discuss steps to receive a sewer rate increase.
- 10/17/19 – First meeting of City Council to discuss the Project Ordinance.
- 11/6/19 – Team coordination call to move project towards bidding.
- 11/21/19 – City Council adopted the Project Ordinance.
- 12/3/19 – Army Corps of Engineers permit received for project.
- 12/10/19 – Team coordination call to move project to bidding.
- 12/10/19 – Railroad permit received for project.
- 1/10/20 – Team coordination call to move project to bidding.
- 2/13/20 – Team coordination call to move project to bidding.
- 3/10/20 – WVDOH issues right-of-way permit.
- 3/23/20 – Team coordination call to move project to bidding.
- 4/27/20 – Sanitary Board meeting to discuss tasks remaining to take project to bid.
- 5/13/20 – Team coordination call to move project to bidding.

- 6/10/20 – Team coordination call to move project to bidding.
- 6/16/20 – Meeting with property owner to finalize easements.
- 6/23/20 – Final title opinion issued for the project.
- 6/30/20 – Team coordination call to move project to bidding.
- 7/16/20 – First reading of the bond ordinance.
- 7/21/20 – Sanitary Board meeting to discuss tasks remaining to take project to bid.
- 7/29/20 – Team coordination call to move project to bidding.
- 8/4/20 – WVDEP issues binding commitment for SRF loan.
- 8/4/20 – WVDEP issues authorization to advertise.
- 8/6/20 – Second reading of the bond ordinance.
- 8/11/20 – First advertisement for bids placed in the newspaper.
- 8/17/20 – Sanitary Board meeting to discuss tasks remaining to take project to bid.
- 8/18/20 – Second advertisement for bids placed in the newspaper.
- 8/25/20 – Pre-bid meeting for the project.
- 9/3/20 – Third reading of the bond ordinance.
- 9/10/20 – Bid opening for the project.
- 9/15/20 – Conference call with team to discuss bid results.
- 9/21/20 – Sanitary Board meeting where contract was tentatively awarded.
- 9/23/20 – Team coordination call to receive funding.
- 10/7/20 – Conference call to set loan closing date.
- 10/19/20 – Loan closing.
- 10/19/20 – Preconstruction meeting.
- 1/18/21 – Construction contract start date per the Notice to Proceed
- 1/25/21 – Contractor began mobilizing to the site
- 2/8/21 – First day of construction on site

- 2/16/21 – Construction progress meeting: installed headwall on Railroad Avenue and 94 l.f. of storm drains.
- 3/15/21 – Construction progress meeting - installed the following to-date: 574 l.f. of storm drains, 3 storm manholes, 2 yard drains, and 1 catch basin.
- 4/14/21 – Construction progress meeting - installed the following to-date: 7 yard drains, 13 catch basins, 9 manholes, and 1,800 lf of storm drains
- 5/17/21 – Construction progress meeting - installed the following to-date: 13 yard drains, 20 catch basins, 13 manholes, and 2,650 lf of storm drains
- 6/28/21 – Construction progress meeting - installed the following to-date: 22 yard drains, 39 catch basins, 27 manholes, and 5,850 lf of storm drains
- 7/19/21 – Construction progress meeting – completed the following percentages of installation to-date: 36" & 30" pipe = 100%, 18" pipe = 65%, 12" pipe = 43%, 6" pipe = 31%, manholes = 53%, catch basins = 43%, yard drains = 26%.
- 8/16/21 – Construction progress meeting – completed the following percentages of installation to-date: 36" & 30" pipe = 100%, 24" pipe = 80%, 18" pipe = 90%, 12" pipe = 69%, 6" pipe = 52%, manholes = 77%, catch basins = 65%, and yard drains = 47%.
- 9/20/21 – Construction progress meeting – completed the following percentages of installation to-date: 36" & 30" pipe = 100%, 24" pipe = 95%, 18" pipe = 98%, 12" pipe = 90%, 6" pipe = 82%, manholes = 86%, catch basins = 86%, yard drains = 77%.
- 10/6/21 – Completed all storm piping and structures in South Elkins.
- 10/21/21 – Presentation to the Sanitary Board and City Council on remaining items associated with the Consent Decree.
- 10/21/21 – Board signed agreement with B&N to install flow meters as part of the post construction monitoring report.
- 10/28/21 – Performed Substantial Completion Walkthrough on the Phase 2 project.
- 10/29/21 – Date of the Certificate of Substantial Completion.
- 11/1/21 – Fully executed Certificate of Substantial Completion finalized.
- 11/15/21 – Accepted Change Order No. 2 for the Phase 2 project.
- 12/3/21 – Contractor completed all punch list items from the Certificate of Substantial Completion.
- 12/5/21 – Contractor provided remainder of project closeout documents to the City.
- 12/20/21 – Board approved final payment for the Contractor marking the completion of the Phase 2 project.
- 12/21/21 – Advertisement for flow meter supplier sent to newspaper.

- 12/31/21 – Due date for the completion of construction for Phase 2 based upon Consent Order.
- 1/24/22 – Bid awarded for purchase of flow meters.
- 3/9/22 – Final inspection from WVDEP SRF program completed.
- 3/21/22 – Board authorized B&N to begin creating an updated Long-Term Control Plan.
- 3/31/22 – Received first shipment of flow meter accessories.
- 4/1/22 – Operators beginning sampling associated with the post construction monitoring report.
- 4/18/22 – Meeting to discuss wastewater system needs for the LTCP update.
- 5/9/22 – Flow meters installed at all CSOs.
- 5/16/22 – Warranty walkthrough for the Phase 2 project occurred.
- 5/17/22 – Received draft NPDES permit from WVDEP.
- 5/17/22 – Presentation to Sanitary Board on proposed projects for the LTCP update.
- 5/24/22 – Personnel trained on the use of the new flow meters.
- 6/6/22 – Sanitary Board provided comments on the draft of the LTCP project list.
- 6/28/22 – Received final NPDES permit from WVDEP.
- 8/1/22 – New NPDES permit went into effect.
- 9/13/22 – Sanitary Board approved list of projects for the LTCP update.
- 9/27/22 – Meeting to discuss the current operations and maintenance plan for the combined sewer system for the LTCP update.
- 10/17/22- Hymes received draft LTCP from B&N.
- 1/23/2023- Public Hearing on LTCP and presentation concerning LTCP to Sanitary Board from B&N.
- 1/27/2023- Mike Davis (B&N) sent LTCP to WVDEP for review.