### Water & Sanitary Board Agenda Thursday, June 30, 2022 12:30 p.m. Town Hall 104 N. King St. Shepherdstown, WV 25443 Masks - Optional

- 1. Call to Order
- 2. Review and approval of Draft Water and Sanitary Board Minutes of June 2, 2022
- 3. Visitors
- 4. Finances
  - a. Financial Statements
- 5. Flow and Quality Reports
  - a. (1) Water Reports information item
  - b. (2) Sewer Reports information item
- 6. Unfinished Business
  - a. Sewer Use Ordinance Revision and comments Summer, 2022
  - b. Water Plant Improvement Project Jeff Ekstrom to report
  - c. Update on Water Distribution Project (Region 9 Corp. of Engineers)
  - d. Update on 120Water "Woody" Coe

### 7. New Business

- a. Sheetz Store Approval of Step II Alternate Mainline Extension Agreement PSC has approved
- b. Hydrant Report Woody Coe to report
- c. Tollhouse Woods Horton Builders has purchased land.
- d. Commercial Center Lowe Bypass Approval of Step II Alternate Mainline Extension Agreement Sent to PSC
- 8. Mayor's Report
- 9. Next meeting date July 28, 2022
- 10. Summarize Action Items from this meeting
- 11. Draft Agenda for next meeting
- 12. Adjournment

### DRAFT MINUTES CORPORATION OF SHEPHERDSTOWN, WEST VIRGINIA WATER & SANITARY BOARDS

June 2, 2022

ATTENDEES: Water Board - J. Auxer (Mayor), J. Bresland, J. Ford, M. Godfrey, S. Kemnitzer (Chair), S.

Knuppel

Sanitary Board - J. Auxer (Chair), H. Heyser, R. Keller

Town Staff -C. Coe, K. Shipley, F. Welch, J. Ekstrom (Ghosh Engineers), B. Bennett

Visitors: D. Decker, Steve Pearson, Pat Dorsey

### CALL TO ORDER.

The Water and Sanitary Boards meeting was called to order by J. Auxer at 12:32 p.m.

### 2. MINUTES FROM PRIOR MEETING.

The proposed minutes of the April 28, 2022, regular meeting were reviewed and approved as submitted.

### VISITORS.

In light of his upcoming retirement, S. Kemnitzer thanked Pat Dorsey for his 28 years of service at the Water plant and presented him with a congratulatory plaque.

### 4. FINANCES. Financial Statements Discussion

- D. Decker attended the meeting to present an overview of our financial situation.
- S. Kemnitzer stated that, in addition, she was interested in any recommendations for improving how we handle our finances.
- D. Decker stated that his review of the last few years of our financial reporting uncovered some inconsistencies. However he has been working with D. Fogle and B. Bennett and believes that our updated reporting is now consistent.
- D. Decker informed us that his major concern after his review has to do with the Sewer finances. A requirement of the Sewer bond is that our net income, before payment of the debt service, must be at least 110% of the debt service amount. Recent increased costs, especially those associated with membrane replacement, have resulted in our net income not meeting this requirement. His advice was that we should immediately consider an increase in our sewer rates.
- R. Keller asked if the membrane-related costs could not be treated as capital expenses.
- D. Decker responded that those costs could not be treated as capital expenses because they do not extend the life of the plant.
- R. Keller asked how we should handle these costs in our budgeting process since the money that is put into an account each month to cover the eventual membrane replacements appears only on the balance sheet as a transfer and not on the profit/loss report as an expense until the money is actually spent.
- D. Decker suggested that we could include a transfer line-item in our monthly reports so that we could have an idea of the membrane expenses in an ongoing manner.
- J. Auxer stated that there had not been a sewer rate increase since the new sewer plant was built. He requested that D. Decker prepare the information needed to consider a rate increase so that our budgeted net income will cover our debt service requirement.

- K. Shipley then addressed another concern related to the sewer plant. The dewatering sludge press is 14 years old and it is showing significant inefficiency in its operation. J. Ekstrom has successfully demonstrated a new press which is 50% more efficient in capturing solids. Rebuilding the old press would cost \$250K \$300K. The cost of a new press is approximately \$335K. The negative impact of the old press makes this an emergency situation.
- J. Auxer asked if a new press could be paid for from the Capacity account.
- J. Ekstrom replied that he did not think this was an issue that qualified to be paid for from Capacity but that there was over \$400K in the R&R account that could be used.

It was generally agreed that the press should be replaced as soon as possible. J. Auxer stated that there could not be a vote to spend the money at this meeting since it did not appear on the agenda. He did ask for a motion to authorize J. Ekstrom to get bids on providing a new press.

ACTION ITEM: H. HEYSER MOVED AND R. KELLER SECONDED TO AUTHORIZE J. EKSTROM TO ADVERTISE FOR BIDS TO PROVIDE A NEW DEWATERING SLUDGE PRESS. MOTION PASSED UNANIMOUSLY WITH NO FURTHER DISCUSSION.

There was a discussion concerning the mechanics of how the income from water and sewer payments were kept separate.

Prior to the meeting, S. Kemnitzer had distributed a list of finance-related questions that she was interested in having answered. Two documents were presented that partially addressed these questions:

- F. Welch presented a list of the outstanding bonds (both water and sewer) which listed the pertinent financial details of each e.g. Issue Date, Full Amount, Interest Rate, Balance, Payoff Date, ...).
- D. Decker presented a graphical analysis that covered the last 4 years and included revenue, expenses, net income and number of customers for both water and sewer.

### 5. FLOW AND QUALITY REPORTS.

### 5.a WATER REPORTS - NO VIOLATIONS.

C. Coe reported that everything is in good order.

### 5.b. <u>SANITARY REPORTS - NO VIOLATIONS.</u>

- K. Shipley reported that everything is in good order.
- R. Keller asked about a report that was labelled 'DEP' but had little other explanatory information of what the numbers represented. F. Welch responded that the report was mistakenly included in the package and that it was produced for the DEP and its format was specified by the DEP.
- H. Heyser inquired about a discrepancy in 2 monthly average flow amount figures. K. Shipley checked the figures and determined that the number represented April's average flow and was derived by dividing the total monthly flow by the number of days in the month. In one case it was divided by 30 (correct) and in the other case it was divided by 31 (incorrect).

### 6. <u>UNFINISHED BUSINESS</u>.

### 6.a <u>SEWER USE ORDINANCE – REVISION AND COMMENTS - SUMMER 2022.</u>

R. Keller explained that he is heavily involved in the construction of the new Library and would be able to make progress on this issue when the Library project has been completed.

### 6.b WATER PLANT IMPROVEMENT PROJECT - JEFF EKSTROM TO REPORT.

J. Ekstrom reported that construction was progressing smoothly. The sludge removal equipment was being installed this week, the filter equipment is expected to be installed soon and the control panels are expected next month.

### 6.c <u>UPDATE ON WATER DISTRIBUTION PROJECT - (REGION 9).</u>

F. Welch reported that the project has received all the necessary approvals from Sen. Capito's office and that we are currently waiting for the Army Corps of Engineers to release the funding.

### 7. NEW BUSINESS.

### 7.a <u>SHEETZ STORE - APPROVAL OF STEP II - ALTERNATE MAINLINE EXTENSION AGREEMENT - TO BE SENT TO PSC.</u>

F. Welch reported that the new Sheets facility has opened and that we are still waiting for PSC approval.

### 7.b <u>HYDRANT REPORT.</u>

C. Coe presented the Hydrant Project Work List. It included 8 hydrants that require either repair or replacement. He stated that the necessary work was being scheduled.

### 7.c RENEWAL OF COLONIAL HILLS PHASE III - WATER AND SEWER APPLICATION.

F. Welch reported that an updated application renewal request had been received with the proper name of the current owner.

ACTION ITEM: M. GODFREY MOVED AND J. BRESLAND SECONDED FOR THE WATER BOARD THAT THE APPLICATION RENEWAL BE APPROVED. MOTION PASSED UNANIMOUSLY WITH NO FURTHER DISCUSSION.

ACTION ITEM: R. KELLER MOVED AND H. HEYSER SECONDED FOR THE SANITARY BOARD THAT THE APPLICATION RENEWAL BE APPROVED. MOTION PASSED UNANIMOUSLY WITH NO FURTHER DISCUSSION.

J. Ford remarked that it had been decide during the April meeting that we should have a general review of our application renewal process and specifically address a limitation on how often an application can be renewed. It was generally agreed that it should be included on next month's agenda.

### 7.d PURCHASE OF FENCE.

C. Coe reported that the fence replacement had been put out to bid and only one bid as received. It was from Long Fence for \$40,125. There is \$13,000 included in the project budget for the fence. J. Ekstrom mentioned that the money could come from the R&R account.

ACTION ITEM: M. GODFREY MOVED AND S. KEMNITZER SECONDED THAT THE LONG FENCE BID BE ACCEPTED. MOTION PASSED UNANIMOUSLY WITH NO FURTHER DISCUSSION.

8. MAYOR'S REPORT. Nothing to report.

### 9. NEXT MEETING DATE.

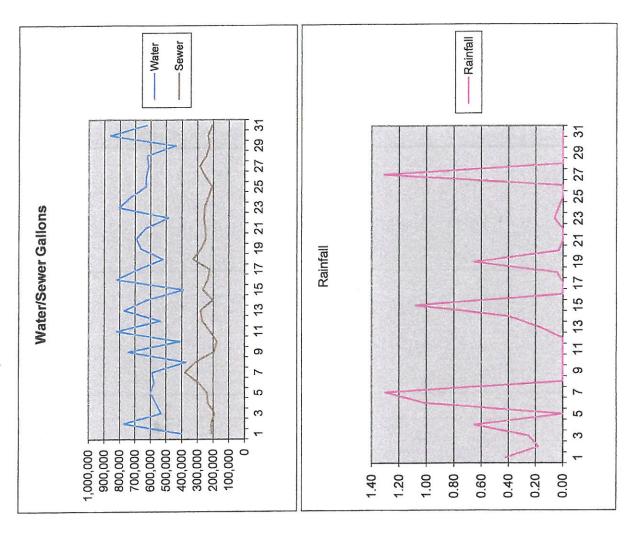
Thursday, June 30, 2022, at 12:30PM at Town Hall.

- 10. SUMMARIZE ACTION ITEMS FROM THIS MEETING.
- 11. DRAFT AGENDA FOR NEXT MEETING.
- 12. ADJOURNMENT. J. Auxer adjourned the meeting at 2:14 p.m.

Respectfully Submitted: J. Ford

## Water/Sewer Flows May 2022

Water 397,900
8
000
300
8
800
590,700
374,600
742,900
,300
700
,200
769,300
,300
391,000
820,000
681,500
009
660,800
100
,800
484,700
805,300
730,000
100
9008
800
100
438,200
863,500
8
790



## May 2022 Monthly Reports

												Vasrly
					Avg.	Max	Ave.	Max	Ave. Lbs.	Max I hs.		l he
	Avg.		Max		Allowed	Allowed	l hs		Allowed	Allowed	Voorly I he	<
Flow	0.2466	Mgd	0.3809	Mgd	0.6670	Rpt Only	N/A	+	N/A	N/A	I cally EDS.	
ВОВ	\$	Mg/I	\$	Mg/I	30	09	5.34	-	167	334		
TSS	2.5	Mg/I	2.5	Mg/l	30	09	4.45	$\vdash$	167	334		
TKN	09.0	Mg/I	1.20	Mg/I	8	9	1.12	-	17	33		
		Cnts/100		Cnts/100				$\vdash$				
Fecal	<10	M	<10	Ξ	200	400	N/A	N/A	N/A	N/A		
Total N	1.85	Mg/I	2.81	Mg/I	Rpt Only	Rpt Only	N/A	-		507	758.5	6091
Total P	0.013	Mg/I	0.019	Mg/I	Rpt Only	Rpt Only	N/A	$\vdash$		50.7	11.22	609
Copper	<0.0037	Mg/I	<0.0037	Mg/I	0.0094	0.0212	N/A	A/N	N/A	N/A		
Zinc		Mg/l		Mg/I	Rpt Only	Rpt Only	N/A	-	N/A	N/A		
Lead		Mg/I		Mg/l	Rpt Only	Rpt Only	N/A	A/N A	N/A	N/A		
Aluminum		Mg/I		Mg/I	Rpt Only	Rpt Only	N/A	A/N	N/A	N/A		
Chloride		Mg/l		Mg/l	Rpt Only	Rpt Only	N/A		N/A	N/A		
Total Hardness		Mg/I		Mg/I	Rpt Only	Rpt Only	N/A	A/N	N/A	N/A		
					Min Allowed	Max Allowed						
PH	7.2	S.U.	7.2	S.U.	6.5	8.5	N/A	A/N	N/A	N/A		

Field Name	Applied This Month		Year to Date Applied		Loads	Percent Solids	2 Hr PH	24 Hr PH
Landfill	6.847	Tons	44.8664	Tons	9	23.6		
Olcott Field 2		Tons		Tons				
Olcott Field 3		Tons		Tons				
Olcott Field 4		Tons		Tons				
Olcott Field 6		Tons		Tons				
Blair-Carter Field 1		Tons		Tons				
Blair-Carter Field 3		Tons		Tons				
Blair-Carter Field 4		Tons		Tons				
Willard Field 1		Tons		Tons				
Willard Field 3		Tons		Tons				
Willard Field 4		Tons		Tons				
Colbert Field 3		Tons		Tons				
Colbert Field 4		Tons		Tons				
Oakley Field 2		Tons		Tons				
Putz Field 2		Tons		Tons				

# SUMMARY OF WASTE WATER TREATMENT PLANT OPERATIONS

ES-59 (rev 5/07)

		Total P	-	7 <0.01							1 0.012							30 <0.01							73 0.019									41 0.051	1
Kenny Shipley		Total N		1 97							2.81							1.90							1 0.73									1 7.41	
Kenny		TKN (mg/l)		120							0.41							0.4							0.4									2.41	
	5	Hg.		7.2																														7.2	7.1
Operator	PLANT EFFLUENT	DO (mg/l)																																	
	PLAN	Fecal Coli (per		<10																														410	211
OWO		BOD <sub>s</sub> (mg/l)		\$																														7 7	?
Shepherdstown		TSS (mg/l) BO		2.5																														2.5	5.0
City	<u>a</u> :	1															-										+						1	+	
	EFFLUENT TEMP	Degrees Celsius																																	
m W.W.T.P.	ACTIVATED	M.L.S.S.			6431							5944														5824								18199	2222
Shepherdstown W.W.T.P.		Removed				12382	12382	12381					12381	12381	12381					12381	12381	12381					12382	12382	12382					148577	15001
Plant	DIGESTERS	Sludge Added	16000	36000	28000	28000	28000	28000	28000	28000	40000	40000	24000	24000	24000	24000	24000	24000	16000	16000	32000	20000	20000	20000	24000	24000	24000	24000	16000	16000	16000	16000	32000	760000	LTC I CT
		Grit and Screening (cf)													7										80									75	
2022		H <sub>a</sub>																																$\dagger$	-
Year		(F)							-						1										1	1	1			1	1		+	-	-
	EWATER	Jd) Temp (F°)	107	0.2136	919	337	0.2380	0.2929	0.3809	0.3122	0.1962	0.17771	0.2220	0.2691	0.2808	0.2033	0.2664	0.2339	0.2234	0.3278	0.2768	0.2476	0.2512	0.2581	0.2543	0.2306	0.2078	0.2510	0.2848	0.2434	0.2245	0.2335	0.2062	0.2466	200
	INFLUENT WASTEWATER	Flow (mgd)	0.2107		0.1919	0.2337	0.23	0.29	0.3	0.3	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
	INFLU	BOD <sub>5</sub> (mg/l)		183																														183	-
May		TSS (mg/l) Br		286																												1	- 6	286	1
Month		Rainfall TS (inches)	0.42	0.18	0.25	0.65		1.01	1.30						0.17	0.4	1.08			0.04	0.65	0.03			90.0	0.03			1.31				100	0.51	1
		Date	-	2	3	4	5	9	7	8	6	10	1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	

MAIL ONE COPY EACH TO:

Office of Environmental Health Services Certification & Training Program 350 Capitol Street, Room 313 Charleston WV 25301-1798

Division of Environmental Protection ATTN: Municipal Branch 601- 57th Street Charleston, WV 25304

		No. of the last	HYDRANT	HYDRANT PROJECT WORK LIST			
LOCATION	VALVE Y/N? n Service?	<u>Service</u>	ISSUE WITH HYDRANT e-?	PROPOSED WORK PLAN	STATUS	REPORT	DATE
HYDRANTS OUT OF SERVICE/NEED REPAIRS 388 Starkeys Landing Green Pineapple Yes	EED REPAIRS Yes Yes	2 S	Hit by vehicle Broke off stem/Loading Zone	Repair in place, move hydrant Replace Hydrant/ install bollards			
HYDRANTS TO BE REMOVED AND RETIRED Corner King & New Streets Corner Church & New Street East High Street (Tommy's Pizza)	ND RETIRED		4" main, inadequate supply 4" main, inadequate supply 4" main, inadequate supply	Retire hydrant, covered by other hydrants Retire hydrant, covered by other hydrants Retire hydrant, covered by other hydrants			
HYDRANTS IN SERVICE/NEED REPAIRS  Bon Aire Cul de sac Yes  High Street at Stutzman-Slonake Yes  W. High st/ N. Duke st. ?  426 Willowdale Dr ?  318 Shepherd Ln ?	EPAIRS Yes Yes ? ? ? Yes	Yes Yes Yes Yes	No Drain/Hard to operate Hydrant won't drain Hard to operate too low Leaking at base Leaking from top/Vibrating bad	Replace hydrant Repair in place Replace hydrant Needs Riser Repair in place Repair in place			
NEW HYDRANTS							

### HYDRANTS WITH PROPERTY ISSUES

Tack & Jack's Apartments, Duke

Library Entrance

Library

Replace

Taken out by drunk driver

In service In service

### DEDICATED HYDRANTS

SU Baseball field end of High Street Mecklenburg Heights SFD Fire Hall

Minimum clearance for bollards: 36" Total gallons flushed

36' 378,900 \*Loop behind Roc's- distribution project

Open only w/permission of Water Special tag, alert firefighters Open only w/permission of Water Special tag, alert firefighters Open only w/permission of Water Special tag, alert firefighters



### EW 90 Revised 06/10

# MONTHLY OPERATIONAL REPORT

Required Surface/(GWUDI)

PWSID NUMBER: WV 3301933

May MONTH/YEAR:

2022

Shepherdstown Water SYSTEM NAME

PHONE NUMBER

304-876-2394

COUNTY

Jefferson

CKWASE	LICKAAVOI	Wash	(GALS)	16,205	17,561	21,880	14,143	13,538	14,640	15,328	14,500	19,891	17,156	16,103	13,164	15,893	14,860	17,956	16,300	15,500	13,328	13,404	15,155	14,519	16,455	17,351	12,873	14,558	13,703	14,084	13,609	17,402	18,847	14,300	484,206	45.000
Ell TED BACKWASH	I ILI LIN DA	Number of Filters	Washed	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	62.0	
<u> </u>	1	st ine	mdd	2.4	2.2	1.8	2.5	2.8	2.3	2.6	2.2	2.4	2.6	2.3	2.2	1.7	1.9	2.1	2.2	1.8	2.5	2.5	1.9	2.1	2.0	2.7	1.6	2.7	2.5	2.5	2.3	2.2	2.6	2.0	70.4	2.2
, Aic	1	Chlorine	sql	8	14	8	12	41	11	13	7	15	6	16	10	11	10	7	15	10	11	14	11	11	8	18	10	14	13	13	12	80	19	12	364.0	117
woled should ni beat in blocks below		Chlorine	mdd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
old ui be		고 의	sql																																	
991 965			mdd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
chemi			sql																																	
Indicate	morphis morphis	porassium	mdd	0.2	1.1	1.4	1.1	1.8	1.2	2.0	1.6	1.1	1.2	1.0	7.	1.4	3.1	1.5	1.3	1.4	1.4	1.3	4.	3.4	1.5	1.3	1.3	7:	7.5	4.	1.4	4.1	1.4	1.5	44.8	4.
	cton	permai	sql	ည	7	ဖ	co.	6	ဖ	9	2	7	4	7	ഹ	თ	16	ιΩ	တ	۵	9	7	80	18	9	6	80	9	۵	^	^	22	9	80	236.0	7.6
			mdd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
			sql																																	
			mdd	3.3	2.6	2.7	1.9	2.8	3.1	3.2	3.2	2.6	2.6	2.6	3.1	2.8	2.7	3.1	2.8	2.6	2.8	2.7	2.9	2.7	3.0	3.0	2.6	2.5	2.9	2.9	2.7	2.5	3.1	2.9	86.9	2.8
USED	L	fluoride	sql	11	17	12	6	14	15	16	10	16	6	9	14	18	14	5	19	15	12	15	17	4	12	20	16	13	15	15	14	6	22	15	446.0	14.4
CHEWICALS			mdd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
CHE	L		sql																																	
			шаа	54.2	54.2	54.2	54.3	54.2	54.3	54.2	54.2	54.1	54.3	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.3	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	1,680.2	54.2
	L	del-pac	sqi	180	348	240	256	271	261	267	169	335	187	370	242	348	284	177	371	308	235	299	312	286	219	364	330	285	284	277	281	198	390	282	8,656.4	279.2
	Flow	Rate	(GPM)	799	814	805	785	833	801	820	780	824	861	804	812	801	810	805	803	811	999	648	720	792	808	839	811	808	808	786	802	811	818	800	24,685	796
PLANT FLOW	Filtered	Water	(GALS)	397,900	772,100	531,000	565,300	000'009	576,800	590,700	374,600	742,000	413,300	819,700	536,200	769,300	627,300	391,000	820,000	681,500	519,600	990,500	691,100	631,800	484,700	805,300	730,000	630,100	628,800	612,800	621,100	438,200	863,500	624,100	19,150,300	617,752
PLAN	Plant Oper	Time	(HRS)	8	16	11	12	12	12	12	8	15	80	17	7	16	13	8	17	14	13	17	16	13	9	16	15	13	13	13	13	6	18	13	402	13
		DATE		-	2	3	4	5	9	7	80	6	10	11	12	13	41	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	AVG

## \*THIS PAGE IS OPTIONAL\*

Langelier Saturation Index 2022 (Finished) (LSI) May °F or C° (Finished) TEMP 17.8 17.5 17.4 16.3 18.4 16.8 13.6 13.6 16.8 18.3 18.3 20.5 20.3 21.2 24.4 24.6 20.5 21.9 22.5 21.5 21.3 22.6 6.009 16.1 17.7 21.7 21.1 22.2 17 17 2 21 MONTH/YEAR: Total Dissolved Solids (Finished) (TDS) ANALYTICAL RESULTS (mg/L) Finished Calcium Hardness 2989 102 120 113 114 113 114 120 125 120 128 132 130 121 101 98 92 55 58 58 64 8 85 86 88 88 91 68 78 74 96 Raw Finished Total Alkalinity Raw Finished Phenolphthalein 1901 57 63 58 4 40 5 23 99 62 79 63 89 74 82 73 74 84 85 22 99 31 74 77 7 83 61 Alkalinity Raw Raw Finished Manganese 3301933 Finished PWSID NUMBER: WV lon Raw TOTAL DATE AVG 9 7 7 5 4 5 16 9 19 17 31 က 2 9 ω 6 2 4 7

### **INDIVIDUAL FILTERS**

	other than direct or conventional, please specify	<del></del>
(Please note, direct or co	onventional methods are required to complete the form below)	(diatomaceous earth, slow sand, other)
Was each filte	er monitored continuously?	
✓ Yes	□ No	
2. Were measure	ements recorded every 15 minutes?	
✓ Yes	□ No	
3. Was there a fa	illure of continuously turbidity monitoring equipme	ent?
Yes	✓ No	
4. Were individua	al filter levels greater than 1.0 NTU in two consecu	utive measurements?
Yes	✓ No	
5. Were individua	al filter levels greater than 0.5 NTU in two consecu	utive measurements after online for more than four hours?
Yes	✓ No	
6. Were individua	al filter levels greater than 1.0 NTU in two consecu	utive measurements in three consecutive months?
Yes	✓ No	
7. Were individua	al filter levels greater than 2.0 NTU in two consecu	utive measurements in two consecutive months?
Yes	✓ No	
	FILTER NUMBER	n/a
	TURBIDITY MEASUREMENTS	n/a
	DATE(S) AND TIME(S)	n/a
I certify the information	on recorded above is true and accurate to the best of my kr	nowledge
r certify the information	of recorded above is tide and accordic to the best of my ki	nowledge.
CERTIFIED BY:	Charles Coe Operator Printed Name Required	
CERTIFIED BY:	Operator Signature Required	Date:
Certification #	WVOP01358	Exp. Date 3/31/2024 Certification Class III

# MONTHLY COMBINED FILTER EFFLUENT TURBIDITY REPORT Required for Surface/GWI DI Sustano

Certification #: WVUPU1358	1		CERTIFIED BY: Charles Coe	I certify the values recorded above are true and accurate to the best of my knowledge	GRAND TOTAL	% < = 0.3 N	**Slow sand and diatomaceous earth; use 5 NTU in lieu of 1 NTU; other filtration technologies as directed	*Slow sand: use 1 NTU in lieu of 0.3 NTU & diatomaceous earth: other filtration technologies as directed by agency	Т	30 6am	Τ	27 6am	Γ	Γ	24 6am	П	П	7	7	٦	18 6am	П	Т	Т	14 6am	Т	12 6am	11 Gam	Τ	Γ	П	6 6am	Т	Т	3 6am	Τ	DATE TIME	1	SYSTEM NAME:	SYSTEM TYPE:(Check One)	
WVOPOTS			Charles Co.	above are true	TOTAL	= 0.3 NTU x 100*	ous earth; use	u of 0.3 NTU	0.070	0.050	0.0/0	0.070	0.060	0.060	0.070	0.060	0.060	0.070	0.060	0.060	0.060	0.040	0.030	0.050	0.040	0.040	0.040	0.000	0.030	0.050	0.070	0.050	0.050	0.050	0.050	0.050	NTO		1	heck On	
98			Ф	e and accurate			5 NTU in lieu	& diatomaceou	10am	10am	Toam	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	10am	Toam	10am	10am	10am	10am	10am	10am	Toam	TIME		Shepher	e)	0001000
				to the best of		" บ	of 1 NTU; othe	us earth: other	0.050	0.070	0.060	0.060	0.070	0.050	0.050	0.050	0.060	0.050	0.050	0.050	0.060	0.040	0.030	0.040	0.030	0.030	0.040	0.000	0.030	0.050	0.050	0.050	0.040	0.040	0.050	0.040	NTO		Shepherdstown Water	×	
	(Certifi	(Certified		my knowledge		100%	r filtration tech	filtration techno	2pm	om d	2pm	2pm	2pm	2pm	2pm	2pm	2pm	2pm	2pm	2pm	2pm	2pm	2pm	1	2pm	2pm	2pm	20m	2pm		2pm	2pm	2pm	2pm	20m		TIME	1	ater	X Surface	
	ed Operator	Operator F				u	nologies as din	ologies as dire	0.050	0.050	0.060	0.060	0.050	0.060	0.050	0.050	0.050	0.050	0.050	0.040	0.040	0.040	0.030		0.030	0.030	0.040	0 030	0.020		0.050	0.050	0.040	0.040	0.050		SIZ	**Please repo			
•	(Certified Operator Signature Required)	(Certified Operator Printed Name Required)			Highe		ected	ted by agency	6pm	S S	6pm	6pm	6pm	6pm	6pm	6pm		6pm	6pm	6pm	6pm	6pm	6pm	-	6pm	6pm	op.	Som	6pm						opin		TIME	ort NTU value	PHONE		1
Exp. Date	Required)	e Required)			st single turk	Readings			0.050	0.050	0.060	0.060	0.060	0.060	0.050	0.060		0.060	0.060	0.060	0.050	0.050	0.040		0.040	0.040	0.010	0 040	0.030						0.040		NTU	s to two decin	PHONE NUMBER	GWUDI	
					Highest single turbidity reading	Readings over 1 NTU**			iopiii	1000										10pm		-	10pm				i deiii	1000									TIME	**Please report NTU values to two decimal places (0.00)**		ø.	
					0.080	0			0.000	0000										0.060			0.040		1		0.010	000									UTU		63		
3/31/2024					1-		Total # c																														TIME		304-876-2394		3
-	ا	D	ı		Lowe		# of Samples										1			1																	UTN		394		ON INTEAM.
Certification Class		•			Lowest single turbidity reading			113	0 4	, ω	4	4	4	4	4	4	ω.	4	4	5	4	4	27 1	9	4	4	ن د	2 2	4	2	ω	ယ	ω (	۵ د	4 4	2	#<=0.3		COUNTY		
ass III					rbidity readi		112			-						+	1		+	+		+		+	1	+	1										#>0.3				INIGY
1					ng 0.020		Ц	1									+		1			1															REMARKS		Jefferson		7707

Complete and return within 10 days after the end of the month to: WV Office of Environmental Health Services - Data Management 350 Capitol Street, Room 313, Charleston, WV 25301-3713 Phone: (304) 558-2981 FAX: (304) 558-0139

EW 90B Revised 06/10

### **CONTINUOUS MONITORING**

### MONTHLY CHLORINE RESIDUAL REPORT - Required Surface and GUDI Sources

Required for Surface/GWUDI Systems

PWSID NI	UMBER: WV	3301933	3						N	ONTH/YEAR:	N	lay	2022
SYSTE	M TYPE:(C	Check One	)	X	Surface			_GWUDI					
SYSTEM	/ NAME	Shephe	rdstowr		e report Chlor			(304) 87 mal places (0.0)**	6-2394	_COUNTY .		jefferso	n
DATE	TIME	CL. RES.	TIME	CL. RES.	TIME	CL. RES.	TIME	CL. RES.	TIME	CL. RES.	TIME	CL. RES.	TOTAL
1													
2													
3													
4											-		
						1							
6								$\vdash$					
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31							n/ 1 1 1			LL			
	TIFIED BY:		nd accurate to	# 0		under 0.2 mg	/I( free chio	rine residual) _	0	_ 10t	al # of Sam	ples Taken	
				(Certifi	ed Operator	Signature requ	iired)			-			
										Date:			
	2			(Certifi	ed Operator	Signature requ	rired)			_	5/A/S		
C	ertification #:	WVOP01358				Exp. Date !	March 31, 202	4	Certif	ication Class I	11		

### QUARTERLY OPERATIONAL REPORT **DISINFECTION BYPRODUCT** PRECURSORS CONTROL (GWUDI)

PWSID NUMBER: WV	330193	3			QL	JARTER/YEAR	2022
	***		(Required)		•	_	
System Name	Shephe	erdstown	Water		County	Jefferson	
Treatment Plant Name							-
Month	Sour	ce Water	Treated Water TOC	(A) Actual % TOC	(B) Required%	(C) Removal	Basis for Required %
	ALK (mg/L)	TOC (mg/L)	(mg/L)	Removal	TOC Removal	Ratio (A) / (B)	Removal
Total							
Annual Average							
CERTIFIED BY:							
		(Certified	Operator's Printed	Name Required)	7.5	Date: _	
		(Certifie	ed Operator's Signat	ture Required)		***************************************	
Certification #	**************************************			Exp. Date			
Certification Class				Telephone	Number _		

Complete and return within 10 days after the end of the quarter to: WV Office of Environmental Health Services RD&C Unit 350 Capitol Street, Room 313, Charleston, WV 25301-3713 Phone: (304) 558-2981 FAX: (304) 558-0139

Certification#: WVOP01358

### **FLUORIDATION REPORT**

		Δ		ARY OF OPERAT	ON		
PWSID NUMBE	ER: WV	(Rec	3301933 juired)	-		MONTH/YEAR: _	May 202
SYSTEM TYPE	Ground	x	Surface		Ground Water I	Jnder the Influence of Surfa	ce Water
SYSTEM NAME	-			PHONE NUMBER		COUNTY	
		HYDROFLUOSI	ICIC ACID			PURITY:	
ECONDE ONE	TOTAL GOLD:	THE ROLL COOL		<b>,</b>			20.070
DATE	GALLONS OF	WATER TREATED*	POUNDS/GAL OF CHEMICALS USED	PLANT EF	ANALYTICAL FLUENT	RESULTS (mg/L) DISTRIBUTION	SYSTEM
1	39	7900.00	11.00	0.7	0	0.61	
2	77	2100.00	17.00	0.6	9	0.72	
3	53	1000.00	12.00	0.6	9	0.81	
4	56	5300.00	9.00	0.7	0	0.69	
5	60	0000.00	14.00	0.7	1	0.72	
6	570	6800.00	15.00	0.6	8	0.70	
7	590	0700.00	16.00	0.6	0	0.58	
8	374	4600.00	10.00	0.6	1	0.55	
9	74:	2000.00	16.00	0.7	3	0.51	
10	41:	3300.00	9.00	0.7	3	0.66	
11	819	9700.00	18.00	0.7	4	0.71	
12	536	6200.00	14.00	0.7	6	0.69	10000
13	769	9300.00	18.00	0.6	8	0.55	
14	627	7300.00	14.00	0.7	2	0.68	
15		1000.00	10.00	0.6	9	0.63	
16	820	0000.00	19.00	0.6	7	0.61	
17	681	1500.00	15.00	0.6		0.61	
18	519	9600.00	12.00	0.6		0.55	
19	660	0800.00	14.00	0.5	450	0.66	
20		1100.00	17.00	0.5		0.72	
21		1800.00	14.00	0.6		0.60	
22		4700.00	12.00	0.6		0.58	
23		5300.00	20.00	0.6		0.70	
24		00.000	16.00	0.6		0.74	
25		0100.00	13.00	0.6	00	0.64	
26		3800.00	15.00	0.6		0.81	
27		2800.00	15.00	0.6		0.66	
28	1000000	1100.00 3200.00	9.00	0.6 6.9	**************************************	0.63	
29		3500.00	22.00	0.6		0.60	
30		1100.00	15.00	0.6		0.64	
TOTAL	MANAGEM AND	50,600.00	445.00	26.8	V/50	20.25	
AVERAGE		7,761.29	14.35	0.8		0.65	
HIGHEST READING	317	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14.00	6.9		0.81	~- <del></del>
OWEST READING				0.5	ev.	0.51	
ptional IF reported on			a to the best of my l			0.51	
		are true and accurate	e to the best of my k	mowieuge.			
ERTIFIED BY:	Charles Coe	(Certifie	ed Operator Printed Name	Required)			
_		N			200	DATE:	
-		(0-4	find Operator Signature B				

Exp. Date\_

3/31/2024 Certification Class III