

Town of Simsbury

WATER POLLUTION CONTROL
36 DRAKE HILL ROAD
SIMSBURY, CONNECTICUT 06070

OFFICE HOURS
Monday - Friday 7:00 to 3:30
860-658-1380 or 860-658-3258
Fax: 860-658-6809

MAR 9 2022 PM 12:52
RISH MUNROE, TOWN CLK

Watch Simsbury Water Pollution Control meetings LIVE and rebroadcast on Comcast Channels 96, 1090, Frontier Channel 6071 and LIVE streamed or on-demand at www.simsburytv.org

Simsbury Water Pollution Control Authority Regular Meeting

Thursday
March 10, 2022
7:00 p.m.

A G E N D A

- 1) Safety Brief
- 2) Sewer Use Fees for FY 2022/23 – Discussion and Possibly Set Public Hearing Date
- 3) Farmington River Watershed – Request to Use WPCF Lab
- 4) Status Report on Sewer Extension Projects, etc.
- 5) Treatment Facility Report
- 6) Correspondence
- 7) Nominations for Chairman and Vice-Chairman
- 8) February Meeting Minutes – Possible Approval
- 9) Adjourn

Current WPC Fee Structure		
ITEM	AMOUNT	Year Last Changed
FCC / 1 EDU	\$4,095	2004
FCC / <1,200s.f. / One Bedroom	\$2,865	2004
FCC / < 2,000 s.f. / Two Bedrooms	\$3,275	2004
RESIDENTIAL SEWER USE PER EDU	\$360	2019
NON RESIDENTIAL SEWER USE	\$4.56/ccf	2019
INSPECTION	\$50/hr	2017
CAPACITY REVIEW	\$150	2008
CONSTRUCTION PERMIT	\$100	2004
SEPTIC DUMPING	\$80/1,000gal	2019
GROUND WATER REMEDIATION	EDU/% flow	2008
EXCESS ALLOCATION PER EDU		2019
LABOR	\$40/hr	2017
VAC TRUCK 43000lb GVWR	\$50/hr	2017
FLUSHER TRUCK 35000GVWR	\$50/hr	2017
MILAGE	Federal Rate	Yearly

FOG Registration

??

biannual

industrial permit registration

??

5 years

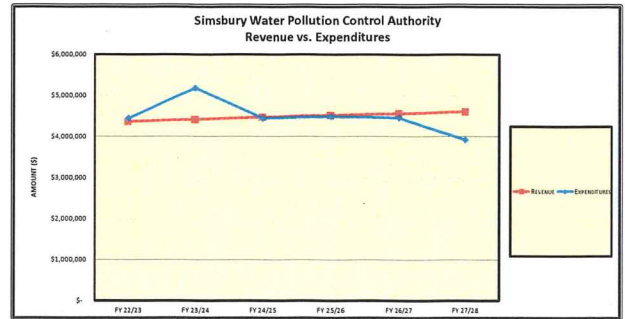
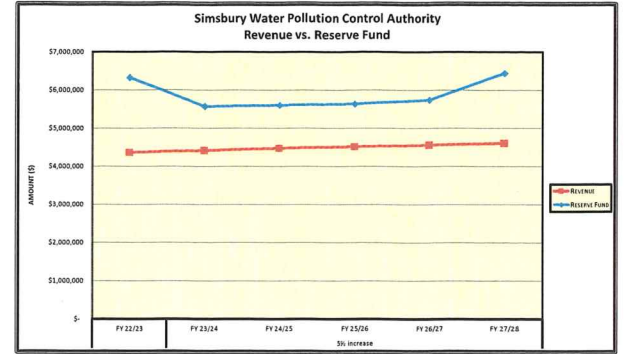
0 % increase FY 2023

CRITERIA USED IN THE SEWER USE RATE MODEL

Variables	Comments
Annual Number of Residential Connections	20 FCC = \$4,095
Apartments/Condos 1,200 S.F. to 2,000 S.F.	10 FCC = \$3,275
Apartments/Condos < 1,200 S.F.	5 FCC = \$2,865
Annual Number of Non-Residential Connections	13
Assumed Annual Inflation Rate	3%
Avon's percentage of plant O&M Costs	19.6% Based on current share of O&M Costs
Granby's percentage of plant O&M Costs	6.5% Based on current share of O&M Costs

Simsbury Water Pollution Control Authority
REVENUE AND EXPENDITURE PROJECTIONS

	Previous WPCA Revenue 3 Yr Avg & Expenditures	FY 22/23	5% Increase FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28
Sewer Use Fee - Residential (Cost per EDU)	\$352	\$360	\$378	\$378	\$378	\$378	\$378
Sewer Use Fee - Non-Residential (Cost per 100 Cubic Feet)	\$4.46	\$4.46	\$4.68	\$4.68	\$4.68	\$4.68	\$4.68
REVENUE							
1. Facility Connection Charges ⁽¹⁾	\$ 436,681	\$ 182,210	\$ 182,210	\$ 182,210	\$ 182,210	\$ 182,210	\$ 182,210
2. Residential Sewer Use Fees ⁽²⁾	\$ 1,451,648	\$ 1,598,562	\$ 1,811,792	\$ 1,625,022	\$ 1,625,022	\$ 1,625,022	\$ 1,625,022
3. Non-Residential Sewer Use Fees ⁽³⁾	\$ 815,903	\$ 874,853	\$ 881,089	\$ 887,322	\$ 893,557	\$ 899,791	\$ 906,026
4. Annual Assessment from Sewer Extensions ⁽⁴⁾	\$ 773,266	\$ 780,434	\$ 788,847	\$ 797,512	\$ 806,438	\$ 815,631	\$ 825,100
5. Avon Operation and Maintenance Fees ⁽⁵⁾	\$ 480,293	\$ 432,321	\$ 442,264	\$ 452,436	\$ 462,842	\$ 473,488	\$ 484,378
6. Granby's Operation and Maintenance Fees ⁽⁶⁾	\$ 127,280	\$ 143,372	\$ 148,699	\$ 150,043	\$ 153,494	\$ 157,024	\$ 160,635
7. Avon's Share of CWF Loan	\$ 293,528	\$ 293,528	\$ 293,528	\$ 293,528	\$ 293,528	\$ 293,528	\$ 293,528
8. Granby's Share of CWF Loan	\$ 116,399	\$ 116,399	\$ 116,399	\$ 116,399	\$ 116,399	\$ 116,399	\$ 116,399
9. Miscellaneous Income ⁽⁷⁾							
Septage	\$ 395,947	\$ 407,825	\$ 420,060	\$ 432,662	\$ 445,641	\$ 459,011	\$ 472,781
Permit Fees	\$ 9,367	\$ 9,648	\$ 9,937	\$ 10,235	\$ 10,542	\$ 10,859	\$ 11,184
Inspection Fees							
Nitrogen Credits ⁽⁸⁾	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Gas Reimbursement ⁽⁹⁾	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Flushing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest/Liens	\$ 21,033	\$ 21,664	\$ 22,314	\$ 22,983	\$ 23,672	\$ 24,383	\$ 25,114
Sale of Property	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL REVENUE	\$ 4,448,427	\$ 4,360,815	\$ 4,416,108	\$ 4,470,352	\$ 4,513,346	\$ 4,557,344	\$ 4,602,377
EXPENDITURES							
10. Operation and Maintenance ⁽¹⁰⁾	\$ 2,156,127	\$ 2,205,718	\$ 2,256,449	\$ 2,308,348	\$ 2,361,440	\$ 2,415,753	\$ 2,471,315
11. Equipment Outlay ⁽¹¹⁾	\$ 87,000	\$ 76,491	\$ 112,551	\$ 52,167	\$ 107,465	\$ 53,732	\$ 53,732
12. Six-Year Capital Improvement Plan ⁽¹²⁾	\$ 350,000	\$ 483,969	\$ 1,536,038	\$ 699,715	\$ 626,877	\$ 597,026	\$ -
13. Six-Year Sewer Improvement Plan	\$ 100,000	\$ 405,183	\$ 112,551	\$ 112,551	\$ 119,405	\$ 119,405	\$ 119,405
14. CWF Debt ⁽¹³⁾	\$ 1,265,207	\$ 1,265,207	\$ 1,265,207	\$ 1,265,207	\$ 1,265,207	\$ 1,265,207	\$ 1,265,207
TOTAL EXPENSES	\$ 3,958,334	\$ 4,436,668	\$ 5,170,245	\$ 4,437,888	\$ 4,480,384	\$ 4,451,124	\$ 3,909,660
Revenue - Expenditures	\$ 490,093	\$ (76,753)	\$ (765,139)	\$ 32,365	\$ 32,861	\$ 106,221	\$ 692,717
Begin Fund Balance(Use and Assessment)	\$ 6,803,480	\$ 6,393,573	\$ 6,217,026	\$ 5,562,682	\$ 5,695,047	\$ 6,027,998	\$ 5,734,219
Estimated Reserve Fund	\$ 6,393,573	\$ 6,317,820	\$ 5,562,682	\$ 5,695,047	\$ 5,627,998	\$ 5,734,219	\$ 6,426,936
Estimated Reserve Fund best case	\$ 6,393,573	\$ 6,617,820	\$ 5,712,882	\$ 5,695,047	\$ 5,627,998	\$ 5,734,219	\$ 6,426,936
Worst Case Expenditure (Total Expenditure)	\$ -	\$ 4,436,668	\$ 5,282,796	\$ 4,437,888	\$ 4,480,384	\$ 4,451,124	\$ 3,909,660



⁽¹⁾ Includes revisions to the FCC Policy adopted November, 2012.
⁽²⁾ Includes single residential units, apartments, condominiums and future sewer extension projects. Number of EDUs in FY 16 budget = 4,124.
⁽³⁾ Non-Residential flow estimate FY 16 Budget = 182,938 CCF.
⁽⁴⁾ Variable to view a Residential Assessment to pay back the loan for the Sewer Extensions
⁽⁵⁾ Avon's flow is approx. 19.6% of the total flow. Granby's flow is approx. 6.5%. These percentages are used to determine Avon & Granby's share of the total O&M cost (Line 10), but can be modified above.
⁽⁶⁾ An inflation rate (which can be modified above) was used to increase the annual amount.
⁽⁷⁾ Revenue from nitrogen credits and gas reimbursement is expected to decrease significantly.
⁽⁸⁾ Average O&M Costs for the last three years. Used the average increase per year since start-up of upgrade = 2.3% to estimate the annual increase
⁽⁹⁾ Refer to Table 1 for Equipment Outlay timeline. An annual inflation rate (which can be modified above) is included.
⁽¹⁰⁾ Refer to Table 2 for Capital Improvement Plan timeline. An annual inflation rate (which can be modified above) is included.
⁽¹¹⁾ Refer to Table 3 for Sewer Improvement Plan timeline. An annual inflation rate (which can be modified above) is included.
⁽¹²⁾ Final loan payment is due 9/30/2027

TOWN SEWER EXTENSION - PROGRESS

Request and Project Review						Design				Construction												
Initial Request		Included Addresses	Interest Card Sent			Preliminary Design/ Cost estimate	Public Hearing Date	Approved/ Denied	Project Manager	Comments	Survey	Design	ROW	Bid	Award	Begin	End	Total Cost	Comments	Bid Value	Linear FT Installed	Cost Per Linear FT
Address	Date		Date	Y	N																	
Woodland Street Area	8/22/2019	22-85 Woodland Street 552-643 Hopmeadow Street	12/19/2019	X		Design In Progress	3/12/2020	Approved		6/1/2020			7/6/2021	8/2/2021	8/31/2021				\$1,323,990.00			
Pine Hill Homeowner's Association	9/1/2021	1-11 Stebbins Brook Lane 1-12 Middle Lane 1-12 Woods Lane 1-3 South Road 33-39 Pine Hill Drive																				

s: WPCA / Sewer Extension Spreadsheet

Town of Simsbury

Water Pollution Control

Memorandum

To: Water Pollution Control Authority
From: Tony Piazza
Date: March 10, 2022
Re: February 2022 Summary Report

Permit Compliance: All permit requirements were met for the month of January.

Plant Operations:

Staff is continuing work with AECOM for the update of the Water Pollution Control Plan, the Water Pollution Control Facilities Plan, analysis of the protective berm with the updated flood plain mapping, and an update on the phosphorous removal plan. The draft copy of the plan has been received and is being reviewed by staff and a meeting is set up for March 15th to review corrections.

Sewer Lining

The lining of the Tunxis Pump Station is expected to be completed in the spring along with more lines in Tariffville.

Secondary Clarifier Launder Covers:

This project is completed with no issues noted.

Staffing:

Initial interviews have been completed for the open operator position, and both candidates declined the position. Additional applicants are being evaluated and interviews will be scheduled in the coming weeks.

Summary Data from the Monthly Operating Report

PARAMETER	UNITS	Feb-22	Jan-22	Past 6 Months	
Average Daily Flow	mgd	2.10	1.90	2.10	
Peak Daily flow	mgd	4.40	4.00	5.63	
Total Septage Received	gallons	106,450	130,300	398,179	
Population Equivalent	@0.17 lbBOD/capita/d	25,859	24,608	26,031	
BOD	Influent	mg/L	251	264	255
	Final Effluent	mg/L	5	10	5
	Percent Removal	%	98	96	98.22
TSS	Influent	mg/L	256	299	340
	Final Effluent	mg/L	3	12	5
	Percent Removal	%	99	96	98.58
TN	Influent	mg/L	36.2	40.4	37.5
	Final Effluent	mg/L	2.1	4.3	2.4
	Percent Removal	%	94	89	93.40
P	Influent, Ortho P	mg/L	2.34	2.66	2.28
	Effluent, Ortho P	mg/L	0.77	0.05	0.65
	Influent, Total P	mg/L	3.36	5.02	4.87
	Effluent, Total P	mg/L	0.88	0.24	0.86
	Effluent, Total P	lb (46.65 lb/d TMDL)	15.41	3.80	15.24
	Percent Removal	%	74	95	80.50
Aeration	MLSS	mg/L	5335	4843	4723
	SVI	ml/g	169	178	181
	DO, Avg. High	mg/L	0.2	0.3	0.2
	DO, Avg. Low	mg/L	0.2	0.19	0.2
	F/M ratio		0.12	0.12	0.13
	Organic loading	lb BOD/700 ft ³	39	37	40
	Solids production	lb sldg/lb BOD rem	0.68	0.80	0.84
Total Sludge Trucked		dry ton	41	50	56

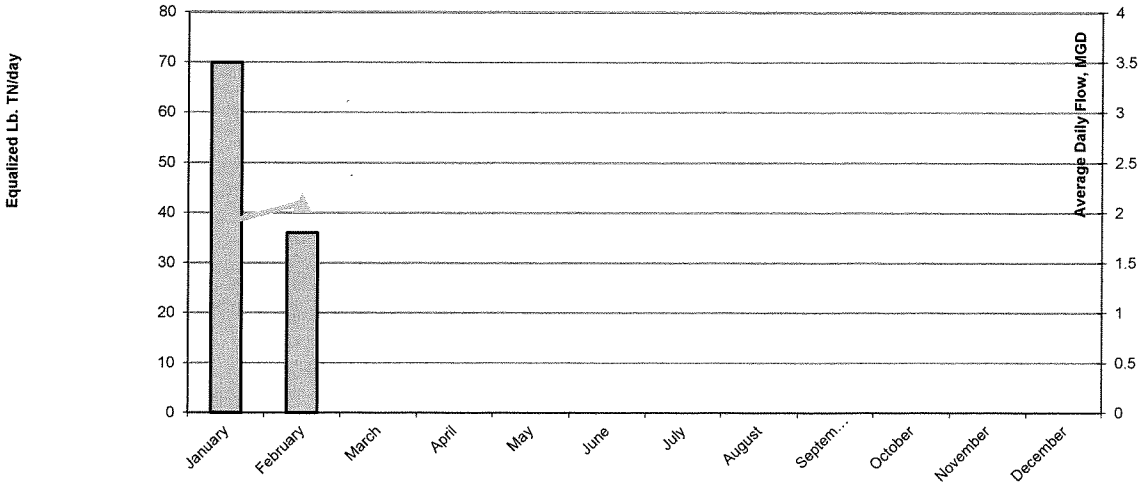
Month	Average Pounds TN/day	Excess Pounds TN/day	TN TMDL	Average Pounds Phos/day	TP TMDL	Monthly Avg Flow
January	69.9	-37	107	3	46.95	1.90
February	36	-71	107	16	46.95	2.10
March		-107	107		46.95	
April		-107	107		46.95	
May		-107	107		46.95	
June		-107	107		46.95	
July		-107	107		46.95	
August		-107	107		46.95	
September		-107	107		46.95	
October		-107	107		46.95	
November		-107	107		46.95	
December		-107	107		46.95	
Annual Average to date	53	-54		9		

Estimated Annual Cost @	\$ 1.36	per equivalent lb TN/day
Amount due Simsbury	\$4,829	

TMDL	
Year	TN lb/d
2020	107

Equivalent pounds = excess x 0.18

Simsbury Effluent Total Nitrogen



**WATER POLLUTION CONTROL AUTHORITY
REGULAR MEETING
FEBRUARY 10, 2022
“Subject to Vote of Approval”**

1. CALL TO ORDER

Paul Gilmore called the regular meeting of the Water Pollution Control Authority to order at 7:05 p.m. via a virtual Zoom meeting. The following members were present: Jay Sheehan, Michael Park, Lucian Dragulski and Jacques Brignac. Also present were Michael LeClaire, Assistant Superintendent, Thomas Roy, Director of Public Works and Alison Sturgeon, Clerk.

2. SAFETY BRIEF – Mr. Gilmore asked that people always think about their own safety as well as the safety of others while driving. People need to be careful, cautious and courteous as well as being aware of their surroundings.

3. FY 2022/23 BUDGET - DISCUSSION

Mr. Gilmore stated that the budget was presented at the last meeting.

Dr. Park made a motion to approve the FY 2022-23 budget as presented. Mr. Dragulski seconded the motion, which was unanimously approved.

4. MURPHY’S TURN – SEWER ACCEPTANCE

Mr. Roy stated that Murphy’s Turn is a small 5 lot subdivision off of Hildurcrest Drive, which is off of Bushy Hill Road. The development was constructed several years ago; the roadway was accepted one year ago. The WPCA typically looks to accept the sewers one year after the road acceptance. He stated that there have been no issues with the sanitary sewers in this development; they have been inspected by Town staff. Town staff recommends that Murphy’s Turn sewers be accepted.

Mr. Gilmore questioned if the bond would be released when the sewer is accepted. Mr. Roy stated the yes, it would be released.

Mr. Sheehan made a motion to accept the sewers for Murphy’s Turn as installed and to release the bond. Mr. Brignac seconded the motion, which was unanimously approved.

5. HIGHCROFT TOWNHOMES – SEWER ACCEPTANCE

Mr. Roy stated that the Highcroft Townhome sewers have met all of the requirements of the Developer’s Agreement. These are private sewers. The Town will not take ownership; the WPCA would simply be acknowledging the fact that they were built to Town standards and that the system will function properly as it feeds into the Town’s system.

Mr. Dragulski made a motion to approve the sewers for the Highcroft Townhomes as installed. Dr. Park seconded the motion, which was unanimously approved.

6. STATUS REPORT ON SEWER EXTENSION PROJECTS, ETC.

Regarding the Woodland / Hopmeadow Street sewer upgrade, Mr. LeClaire stated that the contractor is now working on Dyno Nobel property heading toward Hopmeadow Street.

Mr. Roy stated that the Woodland / Hopmeadow Street project is existing private sewers that are being upgraded, which Dyno Nobel is paying for. The Town will take over these sewers once the project is completed.

Regarding the Pine Hill Homeowner’s Association, Mr. Roy stated that members of the association have approached the Town with the hopes of using some of the ARPA funding to pay for their sanitary sewer upgrade. He will be sending a memo to the Board of Selectmen, copying the WPCA, regarding the history of Pine Hill and how the WPCA functions as a utility.

7. TREATMENT FACILITY REPORT

Mr. LeClaire stated that on January 6th the plant had an upset due to a failure of the main aerator VFD and a high solids loading with one clarifier being on line. A violation of the daily Total Suspended Solids (TSS) occurred. All corrective actions were taken to limit the time of the violation. All required reports have been submitted to the DEEP. All other permit requirements were met for the month of January.

Regarding plant operations, Mr. LeClaire stated that staff continues to work with AECOM for the update of the Water Pollution Control Plan, the Water Pollution Control Facilities Plan, analysis of the protective berm with the updated flood plain mapping, and an update on the phosphorous removal plan. The draft copy of the plan has been received and is being reviewed by staff. He stated that Granite Inliner completed their work at the Town Hall. The lining of the Tunxis Pump Station is expected to be completed in the spring.

Mr. LeClaire stated that the secondary clarifier launder covers project bid closing date was March 25th. RH White was awarded the contract for the work at a cost of \$147,000, which was approximately \$55,000 less than expected. Work has been completed on one of the secondary clarifiers. The second clarifier is currently being worked on and is scheduled to be completed in two weeks.

Regarding staffing, Mr. LeClaire stated that initial interviews have been completed for the open operator position. Final steps will be completed this week.

8. CORRESPONDENCE – None.

9. DECEMBER MEETING MINUTES – POSSIBLE APPROVAL

At the January meeting, Mr. Roy made one edit to the December minutes.

Mr. Sheehan made a motion to approve the December 9, 2021 meeting minutes as amended. Dr. Park seconded the motion, which was approved. Mr. Gilmore abstained.

JANUARY MEETING MINUTES – POSSIBLE APPROVAL

Mr. Dragulski made a motion to approve the January 13, 2022 meeting minutes as written. Dr. Park seconded the motion, which was approved. Mr. Gilmore and Mr. Sheehan abstained.

10. ADJOURN

Mr. Sheehan made a motion to adjourn the meeting at 7:23 p.m. Mr. Dragulski seconded the motion, which was unanimously approved.