

Office of

AUBURN SEWERAGE DISTRICT

Office Telephone # 784-6469

The regular monthly meeting of the Trustees of the Auburn Sewerage District will be held **in-person at the Auburn Sewerage District office at 268 Court Street on Tuesday, July 18, 2023 at 4:00 P.M.**

AGENDA

1. Approve Minutes of Regular Meeting of June 20, 2023.
2. Financial Report Update - Katie Johnston.
3. Ratify Payment of Bills
4. Open Session
5. Activity Report/Project Update - *Matt Waite*
 - Project presentation
6. New Business
 - Sewer Use Rules and Regulations Update
 - 2022 Audit Completed
 - Martindale Sag
7. LAWPCA Apportionment & Financials
8. Old Business
 - Washington Street Pumping Station Design
 - Fiscal Sustainability Plan
 - Lead Assistance Grant, AWD
9. Adjourn Regular Meeting.

Upcoming: Sewer Trustee Meeting August 15, 2023

Memo

To: Water & Sewerage District Trustees
From: Michael Broadbent, Superintendent
CC: Files
Date: 7/13/2023
Re: Discussion of July Agenda Items

Water Trustees

Financial Report Highlights

Current revenues are down by \$49,101.03 verse what was budgeted. At the close of June 2023 there was 3,285,059.37 cash on hand, an increase of \$26,292.76 from the month prior.

Project Update

The Hotel Road project is all but complete. AWD is waiting on Spencer Paving to finish paving; the weather has made this a challenge.

Vernon & Grove Area

Parker Street; 245 feet of 6" unlined cast iron main on Parker Street has been removed and new 8" Bionax main installed. The water main passed the pressure test, it was disinfected, and passed a bacteria sample test. The service lines have been reactivated.

Blake Street; 250 feet of 8" unlined cast iron main on Blake Street has been removed and 8" Bionax main installed. The water main passed the pressure test, it was disinfected, and passed a bacteria sample test. The service lines have been reactivated.

Rowe Street; 250 feet of 8" unlined cast iron main on Rowe Street has been removed and 8" PVC main installed.

The water crew is approximately 3 weeks ahead of Gendron & Gendron who is the contractor for the Auburn Recondition Project. French's Lane is the last remaining water main scheduled to be replaced and work has been initiated.

Second Street; Customers have been notified of the pending project and the fire department has been notified. AWD worked jointly with AFD to supply limited water for two fire services located within the shutdown. Gendron & Gendron is behind schedule and won't start until late July.

Dunn Street; ETTI directionally bored and pulled 240 feet of 8" PVCO water main on Dunn Street from Second Street to Third Street. There is still a lot of work to be done and the remainder is scheduled for mid to late July. ETTI also directionally bored and pulled 230 feet of 1 1/2" CTS water main on Dunn Street from Fourth Street to Fifth Street. There is still a lot of work to be done and the remainder is scheduled for mid to late July.

Old Business

Lake Auburn Watershed Protection Commission Update

The Commission held a special meeting in July to attend to business that was not completed in June. They continue to develop by-laws and they are finishing the update of the Watershed Management Plan. They have appointed two members to serve on the ad-hoc committee recommended by the District.

Water Quality Update

Turbidity continues to trend down and we seem to have plateaued with SECCHI at 10.5M. Clarity has also improved in other parts of the lake which we are happy to see.

We are seeing Synura in the algae samples, probably below the thermocline in the cooler water. Synura is an algae responsible for cucumber taste and odors. It thrives in colder water. We will continue to monitor its presence and concentration in the water column. The thermocline is around 6 Meters. The water temperature heated up quickly with the weather. The lake is elevated compared to normal elevations this time of year.

At the treatment plant we are dealing with some issues with UV Lamps and a new design grounding wire (solid not braided) that stains the quartz tubes. We are working with the manufacturer to swap those out. Recently, we have performed vibration analysis to the low and high lift motors. We still have some resonance (vibration) issues with the 4 raw water assemblies that we will continue to address.

The contractor asked to inspect the vanes on the pumps for 2, 3 and 4. We will plan on cleaning the clear well this Fall.

2023 Lead Assistance Grant

The Auburn Water District was approved for a loan in the amount of \$650,000 by the Maine Drinking Water Program. This loan request was filed to purchase a vactor truck to be used to develop our lead service line inventory before October of 2024.

The loan was approved with a 55% grant (\$375,000), for a term of 20 years at 0% interest. This is an excellent opportunity to secure critical equipment that will allow us to complete the required work and realize an additional capital savings to rate payers of \$3,500,000.

The District has until July 21, 2023 to accept the offer. I'm requesting the Board's consideration and approval of this loan so that we can get started on this as soon as possible.

New Business

Sustainable Water Supply Alternatives

The Sub-Committee met on June 15th and reviewed a Town Wide Feasibility Study prepared by Weston and Sampson. The Committee would like to proceed with this work. This is not something we are currently budgeted for. This type of study qualifies for a Capacity Development Grant from the Maine Drinking Water Program for up to \$30,000. We would have to wait until 2024 to apply for the funds and it would require us to bid the work.

CDM Smith Watershed Boundary

On Monday July 10, CDM Smith presented their findings on the Gracelawn Watershed Boundary to the Maine Drinking Water Program. CDM Smith completed 3D modeling of the surface and ground water for the areas in question. This work proves there are areas that are currently in the watershed that should not be because the surface and ground water do not flow towards the lake. They plan to delineate a new boundary line that can be considered by the two water entities and the Drinking Water Program. The DWP agreed to review the report and they consider an alternate watershed boundary if the information is complete. The final report is expected on July 14 and the DWP promised a two-week turn around on a decision. Copies will be handed out at the meeting if available.

I would like to have the Board's authorization to request a review from the DWP as soon as the final report is received.

Sewer Trustees

Financial Report Highlights

Revenues are currently down \$3,309.29 from budgeted amounts. The month of June ended with \$1,989,085 cash on hand which is an increase of \$300,348 from the month prior.

Project Update

The lining project contracted through Green Mountain is about two thirds complete; approximately 5,400 feet of the planned 9,000 feet sewer main has been lined. Green Mountain has approximately two weeks left of work before completion. The project has been slowed by inclement weather along with multiple locations requiring repairs and/or manholes, as well as unforeseen circumstances after earthwork. Traditionally, lining projects would have the pre-inspection done in advance, leaving time for repairs and manhole installation. The lining project has been unique in the sense that the pre-inspection is being done simultaneously with repairs and manhole installation. The pre-inspection was not completed before GM initiated work because ASD could not secure another contractor to conduct the pre-inspection or do the pre-inspection internally. ASD and Green Mountain have been trying to work in conjunction as smoothly as possible to limit delays and keep the project on budget. The project is tracking to be on budget barring any unforeseen repairs or events.

W-6: Preliminary discussions and work are starting to take place. ASD needs to coordinate with the property owner and hopefully the weather cooperates.

New Business

Sewer Use Rules and Regulations

At previous meetings I have expressed interest in adopting a Pump Station Policy into the District's Sewer Use Rules and Regulations. The Rules and Regulations were last updated in 2010. I've spent time going through this document and I have found several other areas that need to be updated. I would like to consult with legal counsel on the proper process to update this document. I'm hoping to present the final draft to the Board in August for consideration.

2022 Audit

The 2022 Audit is complete. I have paper copies available

2022 Maine CSO Status Report

I included the 2022 Maine CSO Status report in the packet. I will direct your attention to three graphs on pages 14, 21 and 22.

Martindale Sag

The District has identified a sag in the gravity sewer on Martindale Road. We budgeted \$13,000 to eliminate the sag. I would like to bid this work as we continue to be short staffed and are overloaded with work. I would like the Board's authorization to increase the project budget to a not-to-exceed price of \$50,000 using a rebate we recently received from LAWPCA. The increased budget is needed because of materials and paving costs.

Old Business

Lead Assistance Grant

See AWD New Business for status.

June 20, 2023

The regular monthly meeting of the Trustees of the Auburn Sewerage District was held in person at the Auburn Sewerage District office at 268 Court Street on Tuesday, June 20, 2023 at 4:00pm.

Members present: Robert Cavanagh (Treasurer), Stephen Ness (President), Raymond Fortier, Thomas Moulin and Stephen Milks, Mayor's Representative. Also present: Michael Broadbent, Superintendent, Katharine Johnston, Finance Manager and Matthew Waite, Assistant Superintendent.

Absent: Dan Bilodeau and Brad Kowalski

On motion of Robert Cavanagh, seconded by Raymond Fortier, it was unanimously voted: **To approve the minutes of the Regular Meeting of May 16, 2023.**

OPEN SESSION - As no one from the public was in attendance, the Open Session was closed.

FINANCIAL REPORT- Metered revenue is down a bit from this time last year. May ended just below \$1.7 million.

RATIFY PAYMENT OF BILLS

On motion of Robert Cavanagh, seconded by Stephen Milks, it was unanimously voted: **To ratify the payment of bills in the amount of \$345,978.44 dated May 1, 2023-May 31, 2023.**

ACTIVITY REPORT /PROJECT UPDATE - Green Mountain is in full swing with the sewer lining. They have identified several locations needing repairs and/or manholes with the bulk of the work being on Washington St. and Second St. Pump # 2 at River Station has been puled and sent out for repairs. Pump #1 at Lewiston Junction Rd. was also removed and sent out for repairs as well.

The District has hired a new operator who appears to be a good fit. Bonney Staffing did not work. They were sending us unreliable help. We have three strong applicants for the remaining open position.

NEW BUSINESS -

2022 DRAFT AUDIT – The auditors did have a couple of recommendations; develop a policy for routine accounting practices and reconcile all general ledger accounts in a timely manner. Superintendent Broadbent told the Trustees that we can look into outlining our accounting practices in a SOP format and that he was comfortable with quarterly vs yearly reconciliations.

On motion of Stephen Milks, seconded Thomas Moulin, it was unanimously voted: **To approve the Draft Audit as presented.**

LEAD ASSISTANCE GRANT/AWD - The Maine Drinking Water Program has available funds to assist with projects associated with the Lead & Copper Rule Revision. The revision requires all systems to complete a Lead Service Line Inventory by October, 2024 which includes portions of services that are on private property. Superintendent Broadbent has submitted an application for a vactor truck to complete these excavations.

LAWPCA APPORTIONMENT/FINANCIALS – We are looking into how to get more flow through the plant. The design-build is still in progress. LAWPCA has been unable to get consistent BOD/TSS reads in the last two years. LAWPCA has looked at mixing issues and is considering alternative sample locations.

OLD BUSINESS -

WASHINGTON ST. PUMP STATION DESIGN -Wright-Pierce gave an overview of the geo-technical work and some of their preliminary thoughts on the station.

FISCAL SUSTAINABILITY PLAN – Wright-Pierce presented us with a collection system inventory and assessment and have asked us to review the rating criteria and make sure they have appropriately prioritized projects. This will be a useful tool for the District to plan and budget projects. The report is expected to be completed by the end of this summer.

HAZEL STREET- Superintendent Broadbent sent Mr. Tetreault a letter stating that the sewer line is private. His best option would be to run a sewer service to Hazel St. and connect to the District’s sewer main. His house is the lowest on the street and he gets the brunt of the problem. He has not responded to the letter.

On motion of Stephen Milks, seconded by Thomas Moulin, it was unanimously voted: **To adjourn the meeting.**

AUBURN SEWER DISTRICT
OPERATING STATEMENT-TRUSTEES' REPORT
SIX MONTHS ENDED JUNE 2023

	JUNE	2023	Y-T-D THRU JUNE 2023		
	YTD - 2022	BUDGET	ACTUAL	BUDGET	VARIANCE
REVENUES:					
Metered Income	\$3,675,413	\$4,010,574	\$1,974,518	\$1,987,185	(\$12,666)
Industrial Surcharge	52,240	52,249	20,224	25,196	(4,973)
Shared Debt with City	41,392	41,392	20,696	17,247	3,449
Jobbing & Mdse. - NET	64,015	9,795	4,383	4,081	301
Sewer Assessments	18,097	19,030	7,661	7,929	(268)
Finance Charges	6,356	6,489	2,881	2,704	177
Interest Income	23,503	9,058	19,347	3,774	15,573
Industrial Treatment Sampling	50,400	42,500	17,708	17,708	0
Capacity Fees (SDS)	49,500	28,367	28,875	11,820	17,055
TOTAL REVENUES	3,980,916	4,219,454	2,096,293	2,077,644	18,649
			49.68%	33.33%	< Standard
EXPENSES:					
Payroll	482,934	526,202	235,577	273,104	(37,527)
Employee Benefits	189,792	272,677	66,876	113,615	(46,739)
Maint. of Sewers	148,183	68,520	78,449	28,550	49,899
Lift Stations	107,767	74,825	34,623	31,177	3,446
Maint. of Buildings	49,394	51,823	\$25,753	21,593	(3,581)
Maint. of Trucks	27,843	28,890	18,012	12,038	7,515
Office Expense	33,898	31,849	\$ 19,552	13,270	(12,838)
Collection Expense	349	(776)	433	(323)	3,622
General Expense	10,999	5,948	3,299	2,478	25,571
Insurance	55,753	59,459	28,049	24,775	3,274
Legal & Accounting Fees	11,810	6,841	8,914	2,850	6,063
Billing Expense	74,186	81,317	39,795	33,882	5,913
L.A.W.P.C.A.	1,911,004	1,930,830	804,513	804,513	0
SUB-TOTAL	3,103,912	3,138,405	1,363,844	1,361,522	4,618
Interest	137,435	183,598	92,546	76,499	16,046
TOTAL EXPENSES	3,241,347	3,322,003	1,456,389	1,438,021	20,664
			43.84%	33.33%	< Standard
Bonds - Principal Payments	446,047	558,962	31,022	232,901	(201,879)
SURPLUS FROM OPERATIONS	293,522	338,489	608,882	406,722	199,864

**AUBURN SEWERAGE DISTRICT
BALANCE SHEET
PERIOD ENDING - JUNE 30, 2023**

	<u>5/31/2023</u>	<u>12/31/2022</u>	<u>5/31/2023</u>	<u>12/31/2022</u>
Property, Plant and Equipment:				
Plant in Service	38,013,633.74	37,343,996.92	20,803,375.11	19,584,339.88
Less: Accumulated Depreciation	<u>(17,587,957.38)</u>	<u>(17,375,104.84)</u>	<u>19,968,892.08</u>	<u>19,564,099.15</u>
Construction Work In Progress	213,891.12	66,564.23	61,942.00	61,942.00
Current Assets:				
Cash	1,792,173.99	1,517,992.53	558,961.83	435,105.99
Accounts Receivable	449,077.15	232,254.20	63,973.31	124,340.68
Construction Assessments	7,324.94	7,564.00	64,427.03	71,903.28
City of Auburn Debt	248,355.98	269,052.32	16,420.00	15,525.00
Inventory	48,226.41	48,325.50	59,675.65	38,692.00
PrePays	7,842.08	4,318.08	247,308.19	184,774.45
Total Current Assets	<u>2,553,000.55</u>	<u>2,079,506.63</u>	<u>1,010,766.01</u>	<u>870,341.40</u>
Investments:				
Money Market	502,402.21	501,076.08		
CD's	3,535,827.33	3,517,980.48		
Total Investments	<u>4,038,229.54</u>	<u>4,019,056.56</u>		
Deferred Charges	36,973.18	46,702.93		
Total Assets	<u><u>27,267,770.75</u></u>	<u><u>26,180,722.43</u></u>	<u><u>27,267,770.75</u></u>	<u><u>26,180,722.43</u></u>
			Total Equity & Liabilities	
			<u><u>27,267,770.75</u></u>	<u><u>26,180,722.43</u></u>

Sewer Metered Revenue - Versus Prior Year						
Month	2023	2022	MTD Change	%	YTD Change	%
January	\$350,998.58	\$311,995.69	\$39,002.89	12.50%	\$39,002.89	12.50%
February	\$311,954.71	\$300,697.83	\$11,256.88	3.74%	\$50,259.77	8.20%
March	\$320,989.65	\$297,207.28	\$23,782.37	8.00%	\$104,042.14	8.14%
April	\$345,723.97	\$315,754.25	\$29,969.72	9.49%	\$104,011.86	8.49%
May	\$335,698.56	\$298,284.88	\$37,413.68	12.55%	\$141,445.54	9.28%
June	\$318,014.17	\$297,064.21	\$20,949.96	7.05%	\$162,395.50	8.92%
July	\$0.00	\$320,877.00	(\$320,877.00)	-100.00%	(\$158,481.50)	-7.40%
August	\$0.00	\$302,573.53	(\$302,573.53)	-100.00%	(\$461,055.03)	-18.86%
September	\$0.00	\$304,111.13	(\$304,111.13)	-100.00%	(\$765,166.16)	-27.84%
October	\$0.00	\$319,983.35	(\$319,983.35)	-100.00%	(\$1,085,149.51)	-35.36%
November	\$0.00	\$292,754.01	(\$292,754.01)	-100.00%	(\$1,377,903.52)	-40.99%
December	\$0.00	\$313,861.74	(\$313,861.74)	-100.00%	(\$1,691,785.28)	-46.03%
Year-to-Date:	\$1,983,379.64	\$3,675,144.90	(\$313,861.74)	-100.00%	(\$1,691,785.28)	-46.03%

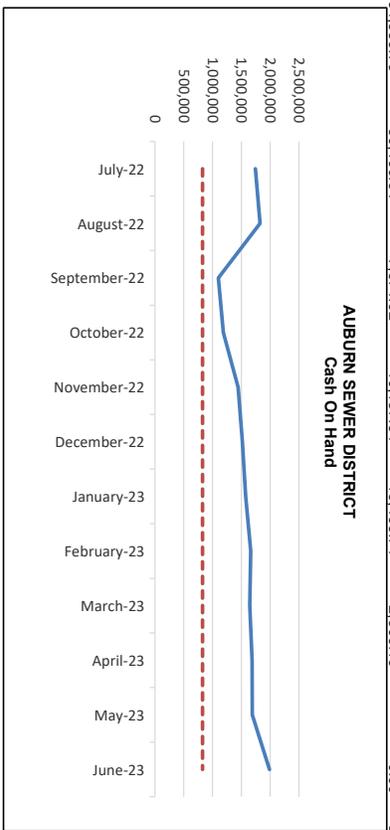
Sewer Metered Gallions Sold						
Month	2023	2022	MTD Change	%	YTD Change	%
January	41,913,971	40,393,855	1,520,116	3.76%	1,520,116	3.76%
February	38,203,950	42,291,366	(4,087,416)	-9.66%	(2,567,301)	-3.10%
March	41,764,071	42,870,363	(1,106,292)	-2.58%	(3,673,593)	-2.93%
April	40,146,634	40,928,094	(779,461)	-1.90%	(4,453,053)	-2.67%
May	42,008,241	41,412,840	595,401	1.44%	(3,857,653)	-1.86%
June	71,612,966	42,317,778	29,295,188	69.23%	25,437,535	10.17%
July	0	41,978,643	(41,978,643)	-100.00%	(16,541,107)	-5.66%
August	0	41,815,384	(41,815,384)	-100.00%	(58,356,492)	-17.47%
September	0	43,766,901	(43,766,901)	-100.00%	(102,123,393)	-27.03%
October	0	50,570,470	(50,570,470)	-100.00%	(152,693,863)	-35.65%
November	0	39,556,424	(39,556,424)	-100.00%	(192,250,287)	-41.09%
December	0	40,069,014	(40,069,014)	-100.00%	(232,319,300)	-45.73%
Year-to-Date:	275,649,833	507,969,134	(40,069,014)	-100.00%	(232,319,300)	-45.73%

Sewer Metered Revenue - Versus Budget						
Month	2023	Budget	MTD Change	%	YTD Change	%
January	\$350,998.58	\$340,477.42	\$10,521.16	3.09%	\$10,521.16	3.09%
February	\$311,954.71	\$326,142.41	(\$14,187.70)	-4.33%	(\$6,660.54)	-0.85%
March	\$320,989.65	\$324,333.28	(\$3,343.63)	-1.03%	(\$9,004.17)	-0.91%
April	\$345,723.97	\$344,573.02	\$1,150.95	0.33%	(\$7,853.22)	-0.59%
May	\$335,698.56	\$325,487.40	\$10,211.16	3.14%	\$2,357.94	0.14%
June	\$318,014.17	\$324,177.15	(\$6,162.98)	-1.90%	(\$3,805.04)	-0.19%
July	\$0.00	\$350,163.32	(\$350,163.32)	-100.00%	(\$353,968.36)	-15.14%
August	\$0.00	\$330,189.30	(\$330,189.30)	-100.00%	(\$684,157.67)	-25.65%
September	\$0.00	\$331,867.24	(\$331,867.24)	-100.00%	(\$1,016,024.91)	-33.87%
October	\$0.00	\$349,188.11	(\$349,188.11)	-100.00%	(\$1,365,213.02)	-40.77%
November	\$0.00	\$319,473.56	(\$319,473.56)	-100.00%	(\$1,684,688.58)	-45.93%
December	\$0.00	\$342,507.78	(\$342,507.78)	-100.00%	(\$2,027,194.36)	-50.55%
Year-to-Date:	\$1,983,379.64	\$4,010,574.00	(\$342,507.78)	-100.00%	(\$2,027,194.36)	-50.55%

Sewer Gross Payroll						
Month	2023	Budget	MTD Change	%	YTD Change	%
January	\$69,876.41	\$67,228.95	\$2,647.46	3.94%	\$2,647.46	3.94%
February	\$44,264.38	\$36,239.69	\$8,024.69	22.14%	\$10,672.15	10.31%
March	\$39,315.54	\$43,843.14	(\$4,527.60)	-10.33%	\$6,144.55	4.17%
April	\$44,378.60	\$46,368.07	(\$1,989.47)	-4.29%	\$4,155.07	2.15%
May	\$35,510.51	\$44,103.36	(\$8,592.85)	-19.48%	(\$4,437.78)	-1.87%
June	\$43,210.32	\$35,320.90	\$7,889.42	22.34%	\$3,451.64	1.26%
July	\$0.00	\$47,318.99	(47,318.99)	-100.00%	(\$43,867.35)	-13.69%
August	\$0.00	\$43,542.40	(43,542.40)	-100.00%	(\$87,409.75)	-24.02%
September	\$0.00	\$36,792.56	(36,792.56)	-100.00%	(\$124,202.31)	-30.99%
October	\$0.00	\$46,140.28	(46,140.28)	-100.00%	(\$170,342.59)	-38.12%
November	\$0.00	\$45,334.94	(45,334.94)	-100.00%	(\$215,677.53)	-43.82%
December	\$0.00	\$33,968.71	(33,968.71)	-100.00%	(\$249,646.24)	-47.44%
Five pay periods	\$276,555.76	\$526,202.00	(\$33,968.71)	-100.00%	(\$249,646.24)	-47.44%

SEWER Capital Spending Versus Budget			
	*Budget	*YTD Actual	%
Truck 31 - Large Dump	\$12,500	\$0	0%
GPS Unit (Split AWD)	\$5,000	\$3,998	79.96%
Locator (Split AWD)	\$2,000	\$1,055	52.75%
Misc Shop Tools	\$3,570	\$2,000	56.02%
Washington St Pump Station Design	\$40,000	\$23,137	57.82%
PLC Upgrades (Split AWD)	\$4,000	\$0	0%
4 Computers (Split AWD)	\$2,500	\$0	0%
Ergonomic Office Furniture (Split AWD)	\$3,000	\$0	0%
Work Order System (Split AWD)	\$18,750	\$14,450	77.10%
Equipment Garage Design (Split AWD)	\$6,000	\$4,296	71.60%
Equipment	\$94,820	\$48,935	51.67%
Davis Ave - Lake to Dead End	\$51,975.00	\$3,484	6.70%
Second St. - Roak - Brock	\$45,000.00	\$0	0%
Hampton Ave - Russell - Goodrich	\$25,650.00	\$0	0%
High St. - Academy - Elm	\$10,800.00	\$0	0%
Shepley St. - Downsiza 24" to 15"	\$130,000.00	\$0	0%
Marlindale Rd - Eliminate Sag	\$13,000.00	\$0	0%
Replace Generator Cables	\$25,000.00	\$0	0%
TBD	\$135,000.00	\$0	0%
Projects (total includes benefit costs on labor)	\$436,425	\$3,484	0.79%
Total Capital	\$531,245	\$52,418	9.87%

AUBURN SEWER DISTRICT CUSTOMER ACCOUNTS RECEIVABLE						
Month	Current	30 day	60 day	90 day	120 day	Finance Chgs
June	312,404.28	58,944.54	22,539.13	10,096.71	18,105.58	2,615.74
July	73.6%	13.9%	5.3%	2.4%	4.3%	0.6%
August	268,514.49	51,811.94	22,225.02	8,044.74	18,701.45	2,611.28
September	148,690.91	37,675.30	7,439.39	7,678.90	16,261.23	2,305.20
October	110,325.47	23,335.44	8,898.42	9,622.82	17,042.51	2,408.31
November	111,645.32	48,321.36	10,269.46	9,648.48	17,522.54	2,408.18
December	134,585.75	30,199.64	7,574.92	10,157.54	18,468.74	2,363.19
Totals						
Current	312,404.28	58,944.54	22,539.13	10,096.71	18,105.58	2,615.74
30 day		13.9%				
60 day			5.3%			
90 day				2.4%		
120 day					4.3%	
Finance Chgs						0.6%
Other						0.0%
Totals						424,705.98



**Auburn Sewer District
Accounts Payable Check Register
June 1, 2023 thru June 30, 2023**

7/10/2023

<u>Check</u>	<u>Date</u>	<u>Per Vendor</u>	<u>Inv Date</u>	<u>Description</u>	<u>Amount</u>
7393	6/2/2023	5 Bonney Staffing Center LLC	5/21/2023	Temp Labor Misc Expense-Mains-Mnt	664.45
					<u>664.45</u>
7394	6/2/2023	6 Constellation NewEnergy, Inc.	5/24/2023	Stetson Accrued Power	0.12
7394	6/2/2023	6 Constellation NewEnergy, Inc.	5/24/2023	Bradman Accrued Power	103.08
7394	6/2/2023	6 Constellation NewEnergy, Inc.	5/23/2023	Evergreen Accrued Power	24.63
					<u>127.83</u>
7395	6/2/2023	5 Easy Rent All Corp	5/11/2023	Traffic Cones Misc Expense-Mains-Mnt	2,979.60
					<u>2,979.60</u>
7396	6/2/2023	5 Fortier's Locksmith	5/11/2023	Padlock/Keys Expense-Bradman St PS	157.54
					<u>157.54</u>
7397	6/2/2023	5 Gilman Electrical Supply	5/15/2023	Supplies Expense-River Station PS	153.90
					<u>153.90</u>
7398	6/2/2023	5 Craig Millett	5/25/2023	Cloth Allow Employee Benefits	247.93
					<u>247.93</u>
7399	6/9/2023	5 City of Auburn	5/31/2023	Traffic Detail 2023 Sewer Lining	760.00
					<u>760.00</u>
7400	6/9/2023	6 Constellation NewEnergy, Inc.	5/26/2023	Riverside Accrued Power	0.71
					<u>0.71</u>
7401	6/9/2023	5 Gagne & Sons	5/18/2023	Supplies Supplies - Mains - Mnt	132.10
					<u>132.10</u>
7402	6/9/2023	5 MissionSquare	5/31/2023	304412 ICMA 457 Accrued Deferred Comp	1,719.61
					<u>1,719.61</u>

Auburn Sewer District Accounts Payable Check Register June 1, 2023 thru June 30, 2023
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<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Description</u>	<u>Amount</u>
7403	6/9/2023	5	MissionSquare	5/31/2023	109636 ICMA 401 Employee Benefits	1,831.54
						<u>1,831.54</u>
7404	6/9/2023	5	MissionSquare	5/31/2023	705328 Roth IRA Accrued IRA/ICMA	856.32
						<u>856.32</u>
7405	6/9/2023	5	K. L. Jack & Co., Inc.	5/18/2023	Chain Stock- Pump Stations Supplies - General Maint	1,300.00
						<u>1,300.00</u>
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/9/2023	River Station Accrued Power	245.62
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	"H" St Accrued Power	3.35
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	Sandy Beach Accrued Power	43.80
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	Simpson Beach Accrued Power	11.17
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/9/2023	Merrow Accrued Power	23.44
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	"B" Pond View Accrued Power	81.80
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/9/2023	Lew Jct#1 Accrued Power	319.65
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	E. Shore Rd Accrued Power	6.55
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	Chicoine Accrued Power	126.20
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	"F" St Accrued Power	2.56
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	Garfield Accrued Power	3.00

**Auburn Sewer District
Accounts Payable Check Register
June 1, 2023 thru June 30, 2023**

7/10/2023

<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Description</u>	<u>Amount</u>
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	"E" St Accrued Power	2.37
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/7/2023	E. Shore Lane Accrued Power	8.74
7406	6/16/2023	6	Constellation NewEnergy, Inc.	6/5/2023	Worthley Accrued Power	249.71
						<u>1,127.96</u>
7408	6/16/2023	6	Maine Municipal Assoc.	3/28/2023	W/C Fund Audit Insurance - Workers Comp	53.00
						<u>53.00</u>
7409	6/16/2023	6	Rexel USA, Inc dba	5/11/2023	Supplies Returned 2023 Generator Cables	-2,168.00
7409	6/16/2023	5	Rexel USA, Inc dba	5/11/2023	Electrical Supplies 2023 Generator Cables	10,339.72
						<u>8,171.72</u>
7410	6/16/2023	6	C.N. Wood Enviro, LLC	5/26/2023	Control Module Truck #35 (2013 Vacuum Truck)	972.51
						<u>972.51</u>
7411	6/16/2023	5	Wright-Pierce	6/2/2023	Thru 052623 Washington St. PS Design	1,562.80
7411	6/16/2023	5	Wright-Pierce	6/2/2023	Thru 052623 2022-Capital Improvement Plan	2,653.23
						<u>4,216.03</u>
7412	6/23/2023	6	City of Auburn	6/6/2023	Traffic Detail 2023 Sewer Lining	1,900.00
						<u>1,900.00</u>
7413	6/23/2023	6	Constellation NewEnergy, Inc.	6/16/2023	Washington St Accrued Power	117.92
7413	6/23/2023	6	Constellation NewEnergy, Inc.	6/12/2023	Moose Brook Accrued Power	240.52
						<u>358.44</u>
7414	6/23/2023	7	Group Dynamic, Inc.	6/16/2023	HRA - July Employee Benefits	24.00

**Auburn Sewer District
Accounts Payable Check Register
June 1, 2023 thru June 30, 2023**

<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Description</u>	<u>Amount</u>
						<u>24.00</u>
7415	6/23/2023	6	L.A.W.P.C.A.	6/1/2023	Cost Share Adj Accrued - LAWPCA	-93,141.01
7415	6/23/2023	6	L.A.W.P.C.A.	6/1/2023	Cost Share Adj-June Ops Accrued - LAWPCA	109,577.60
7415	6/23/2023	5	L.A.W.P.C.A.	6/5/2023	CSO thru 052623 LAWPCA Storm Surg Tank	21,241.97
7415	6/23/2023	6	L.A.W.P.C.A.	6/1/2023	Credit 2022 Audit Accrued - LAWPCA	-24,617.00
7415	6/23/2023	6	L.A.W.P.C.A.	6/1/2023	June Ops Accrued - LAWPCA	93,141.01
						<u>106,202.57</u>
7416	6/23/2023	7	Maine Municipal Emp.Hlth.	6/6/2023	39021 - July Ins Accrued Dental	188.08
7416	6/23/2023	7	Maine Municipal Emp.Hlth.	6/6/2023	39021 - July Ins Accrued IPP Withheld	383.21
						<u>571.29</u>
7417	6/23/2023	6	United States Treasury	6/19/2023	Qtr 1 - 941 Accrued Fed P/R Taxes	422.31
						<u>422.31</u>
7418	6/23/2023	6	UPS	6/10/2023	Radio Rebuild Shipping Expense-Washington St PS	13.68
7418	6/23/2023	6	UPS	6/3/2023	Shipping Expense-Washington St PS	1.56
						<u>15.24</u>
7420	6/30/2023	6	Shiyoko Mosher	6/30/2023	Refund Dep Balance A/R - Customer Accts Rec	30.97
						<u>30.97</u>
7421	6/30/2023	6	Constellation NewEnergy, Inc.	6/23/2023	Bradman Accrued Power	79.94
7421	6/30/2023	6	Constellation NewEnergy, Inc.	6/19/2023	Riverside Accrued Power	0.70
						<u>80.64</u>

**Auburn Sewer District
Accounts Payable Check Register
June 1, 2023 thru June 30, 2023**

7/10/2023

<u>Check</u>	<u>Date</u>	<u>Per Vendor</u>	<u>Inv Date</u>	<u>Description</u>	<u>Amount</u>
7422	6/30/2023	6 CSX Transportation	5/18/2023	MEC002907 Sewer (3) Misc Expense-Mains-Mnt	5.00
7423	6/30/2023	6 Selco Plumbing	6/14/2023	Coupling Supplies - Mains - Mnt	<u>5.00</u> 18.95
7424	6/30/2023	6 Skelton, Taintor & Abbott	6/19/2023	Thru 053123 Legal Expenses	<u>18.95</u> 2,552.50
7425	6/30/2023	6 Spencer Group	6/8/2023	Patching Misc Expense-Mains-Mnt	<u>2,552.50</u> 840.00
7425	6/30/2023	6 Spencer Group	6/16/2023	Patching 2023 Sewer Lining	693.00
7425	6/30/2023	6 Spencer Group	6/21/2023	Patching 2023 Sewer Lining	1,959.60
7425	6/30/2023	6 Spencer Group	6/20/2023	2023 Sewer Lining	1,619.40
7425	6/30/2023	6 Spencer Group	6/20/2023	Patching Misc Expense-Mains-Mnt	240.00
7426	6/30/2023	6 Uline Inc	6/9/2023	Gloves Supplies - Safety Items	<u>5,352.00</u> 195.02
Grand Total					<u><u>143,201.68</u></u>

Net Payroll + taxes

38,504.56

\$ 181,706.24

6/30/2023

VENDOR	REF	AWD G/L #	ASD G/L #	Amount
Ace Detective & Security	Traffic Control/Equipment-Lining Proj	1142-300	2105-979	2,223.00
Ace Detective & Security	Traffic Control/Equipment-Lining Proj	1142-300	2105-979	1,540.50
Amos Development	Contracted Labor/Equipment-Lining Proj	1142-300	2105-979	3,400.00
Amos Development	Contracted Labor/Equipment-Lining Proj	1142-300	2105-979	4,040.00
Amos Development	Contracted Labor/Equipment-Lining Proj	1142-300	2105-979	6,400.00
Amos Development	Contracted Labor/Equipment-Lining Proj	1142-300	2105-979	4,040.00
Anthem	June health ins	1142-300	2604-000	
Anthem	June health ins	1142-300	2241-070	
Anthem	June health ins	1142-300	2241-071	
Auburn, City of	Excavation Permits - Sewer Mains	1142-300	2675-600	
Auburn Water District	Aggregates from Stock	1142-300	2620-600	
Auburn Water District	Group Dynamic HRA debits	1142-300	2604-000	
Bisson Enterprises, Inc.	office cleaning June	1142-300	2675-500	350.00
Broadbent, Mike	Mileage - June	1142-300	2675-500	175.00
Budget Document Technology	June bill-copier	1142-300	2675-800	102.87
Central Maine Power	power @ 268 Court Street	1142-300	2615-500	
Central Maine Power	power @ 268 Court Street	1142-300	2615-800	
City of Lewiston	SCADA Tech wages/benefits-May	1142-300	2601-600	
City of Lewiston	SCADA Tech wages/benefits-May	1142-300	2604-000	
City of Lewiston	SCADA Tech wages/benefits-May	1142-300	2658-000	
Computer Place	IT Support	1142-300	2675-800	87.50
Computer Place	IT Support - Laptop & setup	1142-300	2675-800	381.25
Computer Place	IT Support	1142-300	2675-800	16.88
Computer Place	IT Support	1142-300	2675-800	84.38
Computer Place	IT Support	1142-300	2675-800	357.13
Computer Place	IT Support	1142-300	2675-800	126.88
Computer Place	IT Support	1142-300	2675-800	16.88
Computer Place	IT Support	1142-300	2675-800	248.75
Computer Place	IT Support	1142-300	2675-800	33.75
Computer Place	IT Support	1142-300	2675-800	33.75
Computer Place	IT Support	1142-300	2675-800	67.50
Constellation NewEnergy	energy charge @ 268 Court Street	1142-300	2615-800	
Dig Safe System, Inc.	monthly bill -June	1142-300	2675-600	273.35
Elan Financial	Various Supplies	1142-300	2620-500	217.01
Elan Financial	Background Check - Sewer New Hire	1142-300	2620-500	31.00
Fastenal Company	Safety Glasses & Glasses	1142-300	2620-550	162.62
FirstLight	telephone service	1142-300	2676-800	96.43
Fortier Locksmith	Office Lock	1142-300	2675-800	64.88
Goodscape Lawn Care	June installment	1142-300	2675-100	1,123.00
Home Depot	Impact Driver & Misc Tools	1142-300	2620-500	172.01
Intrado	Auto Calls	1142-300	2675-850	49.99
Maine State Retirement System	retirement contribution	1142-300	2604-000	
Maine State Retirement System	retirement contribution - life	1142-300	2241-030	
Maine State Retirement System	retirement contribution	1142-300	2241-030	
NAPA	Misc Shop Supplies	1142-300	2620-500	97.25
Ness Oil	June Fuel	1142-300	2620-500	46.80
Ness Oil	Trk #37 Fuel-June	1142-300	2650-124	441.16
Ness Oil	tk #40 gas-June	1142-300	2650-125	230.39
Ness Oil	vac tk diesel-June	1142-300	2650-123	454.10
Northern Data Systems	customer billing - June	1142-300	2675-700	820.53
Petty Cash	Misc Office	1142-300	2675-500	10.38
Petty Cash	Tolls	1142-300	2675-500	13.80
Petty Cash	Hay Bales - Washington St - Swr Lining	1142-300	2105-979	45.00
Pine Tree Waste	bulk waste -June	1142-300	2675-500	102.85
Reggie's	Throttle Lockout Kit	1142-300	2677-000	18.75
Skelton Taintor & Abbott	Legal thru 5/24/22	1142-300	2633-800	73.75
Spectrum-Charter Communications	Internet	1142-300	2676-800	67.49
Spencer Group Paving LLC	Patching - Sewer Lining Proj	1142-300	2105-979	1,920.00
Spencer Group Paving LLC	Patching - Sewer Lining Proj	1142-300	2105-979	1,099.80
Spencer Group Paving LLC	Patching - Maint Mains	1142-300	2675-600	666.60
Staples	Monitor, Etc	1142-300	2620-800	99.29
U.S. Cellular	cell phones	1142-300	2676-500	300.58
U.S. Postal Service	Yrly PO Box fee	1142-300	2675-800	137.00
Unitil	May nat'l gas-Court St	1142-300	2620-500	305.90
Unum	June life insurance	1142-300	2604-000	98.85
Voyager Networks of NE	answering service -June	1142-300	2675-800	62.35
Warren Office Supplies	Hand Soap	1142-300	2620-500	57.53
Warren Office Supplies	Trash Bags, Trifold Towels	1142-300	2620-500	39.24
				33,125.70

SERVICES

Location	Ck'd	Comments	New	OK	Misc.	on owner
Houghton Street		Inspect New Service Connection	1			
Monthly Totals	1		1	0	0	0
2022 Monthly Totals	5		0	0	0	5
YTD Totals	12		3	0	1	8
2022 YTD Totals	27		1	2	4	15

LIFT STATIONS

Location	No.	Comments
Washingto Street PS	1	Washington Street PS radio
Dockside	1	Power fail
Lewiston Junction	6	Troubleshoot & replace level sensor
River Station	4	Troubleshoot Pump 1 and order new VFD
River Station	16	Retro fit panel & Installed new VFD
Monthly Totals	5	
2022 Monthly Totals	7	
YTD Totals	18	
2022 YTD Totals	33	

OVERFLOWS

Item		Comments
Monthly Totals		
YTD Totals		

WEATHER*

Month	Precipitation				Temperature			
	Snowfall(i n.)	Total (in.)	Normal Precip.	Days of Precip.	Max (°F)	Min (°F)	Avg- (°F)	Dep. From norm
January	25.0	4.28			52	7	30	
February	20.0	1.16		8	55	-17	25	
March	22.0	1.78		11	53	16	35	
April	0.0	2.04		11	82	26	44	
May	0.0	7.24		7	91	36	57	
June	0.0	5.47		21	92	43	62	
July								
August								
September								
October								
November								
December								
YTD Totals	67.0	22.0	0.0	58.0				
2022 Totals	36.0	16.6	0.0	57				

DIG SAFE

Month	Total	Contractors	MDOT	AHD	School Dept.	Lewiston Water	Consolidated comm.	AWD	CMP	ASD	GAS	MTA
January	204	190	0	0	0	0	0	6	5	0	2	1
February	68	28	0	0	0	0	0	4	31	0	5	0
March	77	50	0	0	0	0	0	4	15	1	6	1
April	236	163	2	31	0	0	0	9	24	0	6	1
May	200	112	0	17	0	0	3	5	48	1	13	1
June	137	15	89		0	0	0	4	9	4	15	1
July												
August												
September												
October												
November												
December												
YTD Totals	922	558	91	48	0	0	3	32	132	6	47	5
2022 Totals	655	417	7	77	1	0	0	35	44	5	64	5

DUTY FOREMAN CALLS

(Overtime)

Districts	Total	High/Low Pressure	Water Quality	Alarms	Service Issue	Leak	Misc.	Locates	Hydrants	Meter	Fire Calls
Sewerage District	3			0	0	0	3	0	0	0	0
Water District	11	0	1	0	2	2	4	1	1	0	0
Monthly Totals	14	0	1	0	2	2	7	1	1	0	0
2022 Monthly Totals	13	0	0	0	4	0	2	3	3	0	1
YTD Totals	76	0	1	0	27	11	20	11	3	0	3
2022 YTD Totals	61	0	0	0	28	7	6	7	6	0	7

OTHER ACTIVITIES

- 1 Vector Maintenance
- 2 Clean & Organize Truck 23, 37, 35 & 40
- 3 Enmet Calibration (Gas Detector)
- 4 Check Miller St to make sure it did not spill over the river
- 5 Trk 35 new gaskets
- 6 Vehicle Maintenance
- 7
- 8
- 9

Lewisiston - Auburn Water Pollution Control Authority

Monthly Cost Apportionment Summary											
Cost Apportionment Summary - First Half of 2023						Cost Apportionment Summary - Second Half of 2023					
Month	Lewisiston Sewer Division Initial %	Lewisiston Sewer Division Initial \$	Op Data %	Op Data \$	Difference \$	Initial %	Auburn Sewerage District Initial \$	Op Data %	Op Data \$	Difference \$	TBP 7/6/23
January	64.00%	\$175,324.27	65.95%	\$180,666.18	(\$5,341.91)	###	\$98,619.90	34.05%	\$93,277.99	\$5,341.91	0.0
February	64.00%	\$175,324.27	66.80%	\$182,994.71	(\$7,670.44)	###	\$98,619.90	33.20%	\$90,949.46	\$7,670.44	0.0
March	64.00%	\$175,324.27	63.14%	\$172,968.35	\$2,355.92	###	\$98,619.90	36.86%	\$100,975.82	(\$2,355.92)	0.0
April	66.00%	\$180,803.15	60.23%	\$164,996.57	\$15,806.58	###	\$93,141.02	39.77%	\$108,947.60	(\$15,806.58)	0.0
May	66.00%	\$180,803.15	61.51%	\$168,503.06	\$12,300.09	###	\$93,141.02	38.49%	\$105,441.11	(\$12,300.09)	0.0
June	60.00%	\$164,366.50	59.52%	\$163,051.57	\$1,314.93	###	\$109,577.67	40.48%	\$110,892.60	(\$1,314.93)	0.0
Six Month Adjustment			62.86%		\$18,765.18			37.14%		(\$18,765.18)	0.0
Cost Apportionment Summary - Second Half of 2023											
Month	Lewisiston Sewer Division Initial %	Lewisiston Sewer Division Initial \$	Op Data %	Op Data \$	Difference \$	Initial %	Auburn Sewerage District Initial \$	Op Data %	Op Data \$	Difference \$	
July	63.00%	\$172,584.83	62.24%	\$170,502.85	\$2,081.98	###	\$101,359.34	37.76%	\$103,441.32	(\$2,081.98)	0.0
August	63.00%	\$172,584.83	64.04%	\$175,433.85	(\$2,849.02)	###	\$101,359.34	35.96%	\$98,510.32	\$2,849.02	0.0
September	63.00%	\$172,584.83	65.22%	\$178,666.39	(\$6,081.56)	###	\$101,359.34	34.78%	\$95,277.76	\$6,081.56	0.0
October	63.00%	\$172,584.83	64.50%	\$176,693.99	(\$4,109.16)	###	\$101,359.34	35.50%	\$97,250.18	\$4,109.16	0.0
November	63.00%	\$172,584.83	64.17%	\$175,789.97	(\$3,205.15)	###	\$101,359.34	35.83%	\$98,154.20	\$3,205.15	0.0
December	65.00%	\$178,063.71	69.02%	\$189,076.27	(\$11,012.56)	###	\$95,880.46	30.98%	\$84,867.90	\$11,012.56	0.0
Six Month Total Adj			64.87%		(\$25,175.47)			35.14%		\$25,175.47	0.0
Average to date			62.86%					37.14%			0.0
Adjustments to date					\$18,765.18					(\$18,765.18)	0.0
Average / Adjustments year end			62.86%		\$18,765.18			37.14%		(\$18,765.18)	0.0

Data on this summary sheet applies to operations cost only. capital expenses are apportioned on a yearly basis and determined by the final year end apportionment for the previous year.

Maine Combined Sewer Overflow 2022 Status Report

June 2023

Contact: Michael S. Riley, P.E.
CSO Abatement Coordinator
Bureau of Water Quality
Phone: (207) 719-0809

Document No.: DEPLQ0972N-2023



MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 State House Station | Augusta, Maine 04330-0017
www.maine.gov/dep



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



JANET T. MILLS
GOVERNOR

MELANIE LOYZIM
COMMISSIONER

June 30, 2023

To: Combined Sewer Overflow (CSO) Permittees

Subject: 2022 Annual CSO Status Report for the State of Maine

Attached is a copy of the Maine Combined Sewer Overflow 2022 Status Report. This report is being distributed to CSO Permittee contacts, municipal officials, consulting engineers and other interested people.

The report documents the efforts and progress that has been made by each CSO Permittee to eliminate or abate combined sewer overflows within their system. These efforts continue to pay off, as 2022 edged out 2021 for the second lowest CSO discharge on record (305.3 MGY), behind only 2017. Several CSO communities had their lowest discharge on record in 2022. Precipitation for the State averaged 45.24 inches in 2022, less than the long-term average of 46.68 inches per year, but slightly above average for the last five years. If we account for the varying precipitation by unitizing CSO discharge per inch of rain, we find that in 2022 Maine achieved the lowest CSO discharge per inch of precipitation (6.7 MG/inch) on record.

These figures confirm that as sewer systems continue to be separated, they become less sensitive to rainfall resulting in a decrease in CSO discharge and activity. This trend continued in 2022, and we now have the four lowest annual CSO discharge volumes on record, having occurred within the last six years. Likewise the four years with the lowest number of CSO events and the lowest CSO discharge per inch of rainfall, have occurred within the last six years. With increased funding and expenditure on CSO abatement over the past six years the trends are positive for Maine.

The Department's CSO website has a downloadable version of the current report and also includes copies of each report from the last three years. The website also contains links to other State and Federal documents that may be of interest. The report and other CSO materials may be found at: <http://www.maine.gov/dep/water/cso/index.html>.

The report is meant to be a snapshot of the CSO program status in Maine. We welcome any comments that you might have to improve the report. Thanks to all of you who have contributed data for this report, and most importantly thank you for your continued efforts to eliminate the public health hazard created by CSOs.

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Enc.: Maine Combined Sewer Overflow 2022 Status Report

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Introduction

The purpose of this annual report is to inform the Combined Sewer Overflow (CSO) Permittees and the general public on the status of CSO abatement efforts in the State of Maine. The drive to reduce CSO discharge began in the early 1990s with the development of CSO Master Plans by 47 Maine CSO Permittees, with DEP approvals of the Master Plans starting in 1993. As such, the overall CSO abatement effort has been waged for 31 years in Maine. Over those three decades, thirteen CSO Permittees have completed their CSO abatement plan, closed their CSO locations, conducted post construction monitoring and exited the CSO program. At this point, the remaining 34 CSO Permittees have completed the less difficult CSO abatement projects and are wrestling with the more complex, more expensive projects.

The CSO program compiles information from various documents and reports submitted to the Maine Department of Environmental Protection by the CSO Permittees (City/Town/District/Authority) or their consultants on their behalf. The majority of information comes from the CSO Master Plans (a.k.a. Long-Term Control Plans), Sewer System Evaluation Studies, Inflow/Infiltration Reports, Annual CSO Progress Reports, Annual CSO Activity and Volume Reports, and general correspondence.

At the start of each CSO Permittee's abatement program, initial flow data was collected to estimate the discharge volumes and frequencies, define the scale of the problem, and establish a corrective course of action. Since then, CSO flow monitoring plans have continued to improve, Permittees have a better understanding of their collection system's response to wet weather, and overall data reliability has increased.

What is a CSS and What are CSOs?

- Combined Sewer Systems (CSS) are defined as collection systems which carry a combination of sanitary wastewater and storm water within the same pipes. They are typically older collection systems designed and installed prior to the advent of wastewater treatment facilities.
- Combined Sewer Overflows (CSOs) are discharges of untreated wastewater from municipal CSSs. CSOs can be considered hydraulic relief points in a CSS which discharge to a receiving water during wet weather to protect property and prevent sewer backups into people's basements. CSOs typically consist of two components; a CSO Regulator where the untreated wastewater exits the sewer system, and a CSO outfall where the wastewater is discharged to the receiving water. Maine Pollution Discharge Elimination System (MePDES) permits issued by the State license the CSO outfalls, not the CSO regulators. Although uncommon, there can be more than one regulator discharging to a given CSO outfall.
- Difference between a CSO Outfall and a CSO Regulator:
 - CSO Outfall – a licensed pipe or structure that discharges untreated combined wastewater from an overwhelmed collection system to the receiving water during wet weather events in compliance with requirements of the MePDES permit and waste discharge license.
 - CSO Regulator – this is where combined wastewater exits the sewer collection system, prior to reaching the wastewater treatment facility (WWTF). Think of it as leakage on the way to the WWTF. This happens when flows are high enough

to exceed a regulator weir elevation thereby diverting that portion of the flow to a CSO outfall. CSO regulators are not permitted structures, CSO outfalls are. There can be more than one CSO regulator per CSO outfall. For example, Portland currently has 29 CSO regulators for 24 CSO outfalls.

- Large volumes of water entering the CSS through catch basins, old and leaky pipes, roof drains, cellar drains, sump pumps, and other sources can cause the capacity of the system to be exceeded, resulting in discharges. Most Permittees distinguish between inflow and infiltration from public sources (catch basins and pipe located within the public right of way) and private sources (roof drains, perimeter drains, sump pumps, and service pipes located on private property)
- CSO discharges occur mostly during and after rain events or snowmelt. Depending on the amount of inflow (catch basins, sump pumps, roof drains) and infiltration (high groundwater leaking into sewer via crack, loose joints) entering a CSS flows during wet weather events can be as high as fifty (50) times the normal dry weather flows. This ratio of wet weather flow to dry weather flow is referred to as the peaking factor. For CSO Permittees in Maine, wet weather peaking factors range from about three, for Permittees that have implemented an effective sewer separation program, to over ten, for Permittees whose separation efforts have been less effective. Peaking factors are an indication of the sensitivity of a CSS to precipitation and also a good indicator of how combined the CSS still is.
- CSOs were originally added as hydraulic relief points within the CSS to allow the excess flows to be discharged in a controlled manner. These relief points are generally at topographic low points, near pump stations and river crossings.
- A CSO discharge is considered a legally allowable discharge under the MePDES permit program subject to the following two conditions:
 - The CSO Permittee must be pursuing a DEP approved CSO abatement plan.
 - The abatement plan must be on schedule.
 - If either condition is not met, the legal protection for CSO discharge goes away. Subsequent discharges are treated as illicit sanitary sewer overflows until the two conditions are once again met.
- Sewer separation projects are designed to separate out the stormwater collection system from the wastewater collection system so that the sewers only carry wastewater and all stormwater is handled separately. If enough separation work is completed, CSO locations are no longer needed and can be permanently closed.

What are the Impacts of CSOs?

- At the end of 2022, there were 34 Maine CSO Permittees (Towns, Cities, Utility Districts, Authorities) located in 31 Maine communities with CSO discharge points in their sewer collection systems. At the end of 2022, these Permittees collectively had 115 individual CSO discharge points (reduced from the original 340). Eight CSO locations were either permanently closed or converted to emergency overflows in 2022 (GAUD CSO 021, CSO 027, and CSO 032, City of Portland CSO 014, PWD CSO 008, CSO 009, and CSO 011, and City of Saco CSO 006).

- The frequency of discharges varies greatly amongst Permittees, ranging from seldom, all the way to occurring in response to the smallest rainstorms. Dry weather CSO discharges are prohibited, as are CSO discharges due to mechanical failure, or inadequate operation and maintenance. In addition, no discharges shall occur at flow rates below the design capacity of the collection system.
- In large communities, tens of millions of gallons per year of untreated combined sanitary sewage and storm water may be discharged. In the past three years statewide, total annual CSO discharges have ranged from approximately 305 to 360 million gallons. For comparison, the estimated volume from 1989, when most CSO abatement programs were just starting, was 6.2 billion gallons.
- CSOs discharge untreated combined sewage into ten major watersheds in Maine. The watersheds include seven (7) rivers and their tributaries (Androscoggin, Kennebec, Machias, Penobscot, St. Croix, St. John, and Saco) and three (3) bays (Casco Bay, Frenchman Bay, and Penobscot Bay). The receiving waters vary in size from the Atlantic Ocean all the way down to a handful of small streams. The latter are the focus of DEP's effort to eliminate CSO discharge to sensitive receiving waters.
- Water quality is impaired by the addition of floatable solids, bacteria, and sometimes industrial pollutants that may be present in CSO discharges.
- Potential public health impacts from CSO discharges include the closure of beaches and shell fishing areas due to bacterial contamination, and the potential for drinking water supplies to be threatened/contaminated.
- Why is CSO abatement important? During wet weather, flows in a CSS can hydraulically overload the capacity of the collection system leading to CSOs, sanitary sewer overflows (SSOs), street flooding, back-ups into basements, and treatment facility upsets.

What is a CSO Permittee?

- CSO Permittee – a Town, City, Sewer District, or regional Wastewater Treatment Authority that has active CSO locations in their collection system which must be licensed.
- CSO Permittees are authorized to discharge untreated combined sanitary and storm waters subject to the conditions and requirements included in the Maine Pollutant Discharge Elimination System (MePDES) permit. In simple terms, a CSO Permittee receives legal protection for CSO discharges while they work to implement an approved CSO Master Plan to abate and eliminate said discharges.
- The Department of Environmental Protection issues CSO Permittees a wastewater discharge license that requires them to implement the Environmental Protection Agency's (EPA) Nine Minimum Control Best Management Practices (BMPs) for CSOs and develop, maintain and implement a CSO Master Plan (aka the Long Term Control Plan (LTCP)) to eliminate or abate their overflows, bringing them into compliance with EPA's April 19, 1994 Combined Sewer Overflow (CSO) Control Policy, the Clean Water Act, and State law.

- Special Conditions in a Maine Pollutant Discharge Elimination System (MePDES) permit/Waste Discharge License require all CSO Permittees to submit an Annual CSO Progress Report to the Department, by March 1st of the following year for the previous calendar year.
- The Annual CSO Progress Report documents the Permittee's efforts to implement CSO abatement in a given year and collects pertinent fiscal and logistical information about their CSO abatement program. This information is used to track their CSO abatement progress and gather state-wide information on the CSO program and fiscal needs.

Where Did We Start?

- The CSO abatement movement began in 1989 with the publication of the National CSO Control Strategy by the EPA.
- At that time, the State of Maine had about 50 CSO Permittees that discharged an estimated 6.2 billion gallons of untreated wastewater and storm water into the surface waters of the State, primarily during wet weather events.
- At the start of the program in the late 1980s, CSO Permittees reported that over 1,700 individual CSO discharge events were occurring each year, through approximately 340 CSO outfall locations (an average of 5 discharge events per CSO location per year).
- On April 19, 1994 EPA issued a national policy statement entitled "Combined Sewer Overflow (CSO) Control Policy." This policy provided guidance to State permitting authorities and CSO Permittees on coordinating the planning, selection, and implementation of CSO controls, that once implemented, would allow CSO Permittees to achieve compliance with the requirements of the Clean Water Act (CWA).
- In February 2000, the Maine Department of Environmental Protection Chapter 570 Rules, entitled "Combined Sewer Overflow Abatement," took effect. This chapter established procedures for CSO evaluation, preparation of an abatement plan, and set forth minimum controls to reduce CSOs while long-term plans are completed. Chapter 570 also discussed the conditions under which new sources of wastewater could be added to a CSS with active CSOs.
- In December 2000, as part of the Consolidated Appropriations Act for Fiscal Year 2001 (P.L. 106-554), Congress amended the Clean Water Act (CWA) by adding Section 402(q), commonly referred to as the Wet Weather Water Quality Act of 2000. Section 402(q) requires that each permit, order, or decree issued pursuant to the CWA for a discharge from a municipal combined sewer system shall conform to the 1994 EPA CSO Control Policy.

What is Being Done to Eliminate/Abate CSO Discharges?

- All of Maine's CSO Permittees have completed or are currently working on implementing their CSO Master Plan, often referred to as a Long-Term Control Plan. These documents define the magnitude of the CSO discharges, their impacts on the environment, evaluate a range of abatement control alternatives and their financial impacts, and recommend a set of CSO controls that will eliminate/abate the CSO discharges.

- CSO abatement projects have reduced the discharge of untreated, combined sewage to receiving waters for all the CSO Permittees. Thirteen Permittees have eliminated their CSO discharges entirely, have left the CSO program, and are no longer licensed to discharge untreated combined sewage during wet weather.
- Statewide, **currently licensed** CSO Permittees have reported investing approximately \$800 million in CSO abatement since the program started (Note: this number has been adjusted to reflect recent audit). Of the total invested to date, the Maine Clean Water State Revolving Fund (CWSRF) has contributed \$370 million (46.3% of total expenditure on CSO abatement by current CSO Permittees).
- Statewide, **previously licensed** CSO Permittees, that have since left the program, reported investing a total of approximately \$462 million on CSO abatement, with the CWSRF providing \$114.7 million of that total (25% of total expenditure on CSO abatement by prior CSO Permittees).
- Anticipated infrastructure needs of current CSO Permittees over the next five years are estimated to be approximately \$277 million.



Back Cove South Storage Facility in Portland Under Construction

Where are We Now?

2022 Status

- 1) In 2022, the 34 currently licensed CSO Permittees reduced the total number of CSO discharge locations by eight, from 123 to 115, (a complete listing of Maine's CSO Permittees, the number of CSO locations, and the corresponding receiving waters are listed on page 10). CSOs were closed in the communities of Augusta with three closures (GAUD), Portland with four closures (City of Portland (1) and PWD (3)), and Saco with one closure (City of Saco). With the addition of 2022 data, the chart on page 18, **Maine – Statewide Number of Combined Sewer Overflow Outfalls**, shows a 66.0% reduction in the overall number of CSO locations in Maine since 1988.

- 2) In 2022, the CSO Permittees reported a total of 295 overflow event days which is the fourth lowest annual total on record for the State. An overflow event is any calendar day that one or more CSO locations within a community experiences a discharge. The table on page 14, **Maine CSO Permittee Annual Number of CSO Discharge Events**, contains a historic listing of the annual number of CSO discharge events for each CSO Permittee.
- 3) The maximum number of overflow event days reported in 2022 from a single CSO Permittee was fifty-two (52). The average (mean) number of discharge event days per year for all Permittees was nine (9) event days and the median was five (5) event days. Additional information can be found in the table on page 14, **Maine CSO Permittee Annual Number of CSO Discharge Events**.
- 4) Since 1989, the statewide flow weighted average annual precipitation for CSO Permittees in Maine has been 46.68 inches. In 2022, the annual precipitation measured by CSO Permittees varied significantly from 34.37 to 59.74 inches with flow weighted average of 45.24 inches. Comparatively speaking, this is an average year for precipitation in Maine.
- 5) The **Maine – Yearly CSO Volumes and Precipitation** chart on page 20 compares annual CSO discharge volumes to annual precipitation. The chart illustrates that CSO discharge volumes tend to mirror the annual upward and downward trends in precipitation totals, but also shows that the peaks have become less pronounced as the CSO abatement effort has progressed. The chart also shows a progressive widening of the gap between the annual precipitation trend line and the annual CSO discharge volume trend line. This widening gap illustrates that as CSO abatement projects continue to be implemented, collection systems are becoming less sensitive to precipitation events.
- 6) The CSO volume discharged statewide in 2022 was reported to be approximately 305.3 million gallons (MG). This is the second lowest annual discharge on record, trailing only the 294 MG low point set in 2017.
- 7) The table on page 13, **Maine CSO Permittee Flow Data**, contains a historic listing of the annual overflows from each CSO Permittee. The **Maine 2022 CSO Flow Comparison** pie chart on page 21 and the **Maine 2022 CSO Flow Comparison by Permittee** bar chart on page 22 show graphical comparisons of these overflow volumes between the CSO Permittees.
- 8) In 2022 the top five (5) CSO Permittees, ranked by discharge volume, accounted for approximately 92.7% of the total CSO volume discharged in the State. The top ten (10) CSO Permittees accounted for approximately 97.2% of the total CSO discharge volume. The remaining twenty-one (21) CSO Permittees accounted for 2.8% of the total CSO discharge volume. See the **Maine 2022 CSO Flow Comparison** pie chart on page 21 for a graphical comparison of CSO dischargers.



Shawn Newton sets the precast boxes on the Back Cove Storage Conduit project.

Back Cove West Storage Conduit Under Construction

- 9) CSO discharges by the City of Portland and the Portland Water District accounted for approximately 53.7% of Maine's total CSO discharge volume in 2022; see the **Maine 2022 CSO Flow Comparison** pie chart on page 21. We're happy to report that the Back Cove West Storage Conduit officially went on line in the spring of 2023. The Back Cove South Storage Facility is scheduled to go into service at the end of 2023. If both tanks had of been in service in 2022, we estimate CSO discharge to Back Cove would have been reduced by more than 67 million gallons.
- 10) CSO discharges by the City of Bangor accounted for 17.2% of Maine's total CSO discharge volume in 2022. We're happy to report that the 3.8 MG Davis Brook Storage Facility went into service in October of 2022. If the tank had of been in service for the first nine months of 2022 CSO discharge would have been reduced by 11 million gallons.



Davis Brook Storage Facility in Bangor Ready to Go On Line

- 11) In 2022, the State of Maine saw a continuation of the trend towards more high intensity rain events which can overwhelm any combined sewer collection system. This trend of high intensity storms has worked against the progress made by Maine CSO communities.
- 12) The chart on page 23 – **Maine 2022 CSO Volume Discharged by Watershed**, is a graphical representation of the CSO volumes discharged by major watershed. In 2022, Casco Bay received approximately 54.5% of the statewide CSO volume discharged, followed by the Penobscot River at 17.9%, the Androscoggin River at 17.2%, The Saco River at 4.8%, the Kennebec River at 2.8%, the St. Croix River at 1.3%, and Frenchman Bay at 1.0%. Discharges to the St. John River, Penobscot Bay, and the Machias River account for the remaining ~0.4% of combined sewer overflow volumes. This is the fourth year in a row that CSO discharge into the Saco River has decreased, mostly as the result of CSO abatement work the City of Biddeford has undertaken.
- 13) In 2022, one of Maine’s major rivers and one of Maine’s bays received the **lowest annual CSO discharge on record**. These include the Saco River, which was driven by significantly lower discharge from Biddeford, and Casco Bay, which was driven by the City of Portland and PWD having their lowest volume of CSO discharge on record. The table on page 24 – **Maine Annual CSO Volume Discharged by Watershed**, shows the reported CSO discharge volumes for each CSO Permittee grouped by the receiving watersheds, both for 2022 and the previous five years.
- 14) CSO discharges are well documented contributors to beach and shellfish closures. Stating with certainty that specific CSO events are **solely** responsible for specific closures is more difficult and is beyond the scope of this report. In some areas of the State, there may be other factors that contribute to a beach or shell fishing area closure. These may include but are not necessarily limited to: urban storm water runoff, malfunctioning septic systems, domestic and non-domestic animal waste, agricultural runoff, and bathers. This Annual Report attempts to identify which beaches and shell fishing areas **may have** been impacted by CSO discharges in 2022.
- 15) In 2022, there was one beach closure due to CSO discharge and that was in Portland at East End Beach. There were potential impacts on thirteen (13) beach areas from CSO discharges. They were: Bar Harbor (Town Beach off Town Pier & Hulls Cove); Biddeford/Saco (Hills Beach, Biddeford Pool, Middle Beach, Fortunes Rock Beach & Camp Ellis); Cape Elizabeth (Cliff House Beach, Casino Beach & Fort Williams Park); Portland (East End Beach); South Portland (Willard Beach); and Calais (Red Beach – though not considered a swimming beach).
- 16) In 2022 two (2) CSO Permittees reported that shell fishing areas were impacted by their CSO discharges (Machias and Portland). Both reported shell fishing area closures, including eight in Machias, which were attributed to CSO activity. Thankfully the upgrades to the river crossing are underway in Machias which should reduce CSO activity once completed.

Overall Trends and Considerations

- 1) The volume and frequency of CSO discharges vary from one wet weather event to the next based on existing groundwater levels, frozen or thawed ground, snowmelt, and rainfall volume, duration, and intensity. To evaluate CSO abatement progress it is best to look for a historical trend in reductions, rather than totals from year to year. The chart on page 16, **Maine – Statewide Combined Sewer Overflow Volume Discharged**, illustrates the continuing overall downward trend in the CSO volume discharged annually. Since 1989, the overall CSO volume discharged annually has decreased by approximately 95% statewide. Recent progress has slowed as Permittees tackle the more difficult abatement projects.
- 2) Similarly, the chart on page 17, **Maine – Statewide Combined Sewer Overflow Annual Number of Discharge Events**, shows an overall downward trend in the number of overflow event days per year. Since 1989, the number of overflow event days experienced per year has decreased by approximately 83.2% statewide.
- 3) CSO abatement progress should not be measured solely by comparing the volumes discharged from one year to the next, because the volume discharged is influenced by variations in precipitation amounts, intensity and timing, the total area drained by the collection system, the rate of snow melt, frozen or thawed ground, and existing groundwater levels. Even given the same annual precipitation, it is highly unlikely that any two years would result in the same volume of CSO discharges because of the complex relationship between these variables.
- 4) Trying to compare CSO abatement progress from year to year is difficult due to the varying conditions that influence the volume and frequency of overflows, not the least of which is annual precipitation patterns. To partially compensate for the fluctuation in annual precipitation patterns, the total volume of untreated combined sewage discharged can be unitized by taking into consideration the average annual precipitation received by each CSO Permittee. Just divide CSO volume by annual precipitation reported in inches to obtain a volume discharged per inch of precipitation. The chart on page 19, **Maine Combined Sewer Overflows Annual Volume Discharged per Inch of Precipitation**, illustrates the unitized CSO discharge volume per year. This chart shows a continuing downward trend in the volume of combined sewage discharged per inch of annual precipitation. Since 1989, overflow volumes have decreased from approximately **128** million gallons per inch of precipitation to **6.7** million gallons per inch of precipitation, a reduction of 94.8%. **This is the lowest total on record.** The reduction in CSO discharge per inch of rain mirrors the overall reduction in annual CSO discharge volume achieved statewide through 2022 (95%). This analysis is useful as a general indicator of the CSO abatement progress that is being accomplished.
- 5) Precipitation and the CSO volume discharged does not have a simple linear relationship. Still, generally, as precipitation levels increase, the volume of combined sewage being discharged per inch of precipitation would increase, because of the sewers finite capacity to capture more storm water. Once the capacity of the combined sewer system is reached, any additional rainfall or snowmelt would overflow the already inundated system.

- 6) The susceptibility of a CSO Permittee's sewer collection system to excessive inflow and infiltration (I&I) is dependent on many factors including age and condition of pipe, degree of separation, quality of the original installation, how well the system has been maintained, etc. Therefore, wet weather conditions and precipitation patterns affect individual CSO Permittees differently. Systems with a large number of catch basins or roof drains still connected, or with a high percentage of impermeable surfaces, may be influenced to a greater degree by the inflow generated by intense summer storms. In communities where the sanitary and storm systems are largely separated and inflow is not the main challenge, the cause of wet weather discharges might be more infiltration based. In these systems a high ground water table, often occurring in the spring, can promote infiltration into the collection system via leaky pipes and manholes. Therefore, direct comparisons between Permittees regarding their CSO abatement progress could be misleading.
- 7) Starting in 2018 the Annual Maine Combined Sewer Overflow Status Report has included a new section which summarizes the level of treatment provided by each of the fourteen (14) Maine Permittees which have a CSO Related Bypass of secondary treatment. The **Maine CSO Permittee Level of Treatment** summary included on page 25 provides the total annual volume of wastewater collected by each of the fourteen "bypass" systems, the percentage which receives secondary treatment, the percentage which receives only primary treatment (the bypass volume), and the percentage which receives no treatment (CSO volume). The summary is a good indication of which CSO Permittees are maximizing the percentage of flows which receive secondary treatment, and whether certain systems are overly reliant on their CSO bypass.
- 8) In addition to the CSO storage facilities mentioned previously, Lewiston/Auburn are currently in the planning/design stage to add 2.1 MG of off-line storage at their LAWPCA treatment plant. The storage tank at LAWPCA will be on line by the end of 2026.

Recognitions

- 1) In 2022, the following CSO Permittees had their **lowest annual CSO discharge on record**: City of Bath, City of Biddeford, City of Gardiner, Greater Augusta Utility District, and City of Portland/PWD. Congratulations on this achievement!
- 2) In 2022, the following CSO Permittees had their **lowest, or matched their lowest, number of annual CSO events on record**: City of Auburn, City of Gardiner, City of Lewiston, City of Skowegan, and City of Westbrook. Congratulations on this achievement!
- 3) In 2022, the following CSO Permittees had **zero CSO events and zero CSO discharge**: Town of Bucksport, Kennebec Sanitary Treatment District, Paris Utility District, City of Rockland. Highest honors!
- 4) Paris Utility District (PUD) is entering the final year of their post construction monitoring phase (PCMP) and is poised to be the next CSO permittee to exit the CSO program. PUD has had no CSO discharge for over ten years. Their final CSO has been

converted to an Emergency Overflow to protect the WWTF from flooding and will be monitored continuously. Reaching the end of one's CSO abatement effort and being able to exit the CSO program is a major achievement which should be celebrated. Congratulations to PUD. Well done!

- 5) Other CSO permittees that have entered the PCMP include: Town of Bucksport, City of Gardiner, City of Old Town, Town of Cape Elizabeth – Ottawa Road
- 6) CSO Permittees nearing the completion of their construction phase of CSO abatement, and the start of post construction monitoring, include: City of Belfast, City of Calais.
- 7) We'd also like to recognize those CSO Permittees that treated more than 99% of their total flow volume to secondary treatment standards. They include: Town of Bar Harbor, City of Belfast, City of Brewer, City of Gardiner, Greater Augusta Utility District, Kennebec Sanitary Treatment District, Town of Machias, Town of Madawaska, Town of Mechanic Falls, City of Old Town, Town of Orono, Paris Utility District, City of Saco, City of South Portland, and City of Westbrook/PWD.
- 8) CSO permittees also separated an additional 124 catch basins from their sewer collection systems in 2022 with Portland/PWD leading the way with 55, followed by Biddeford with 29, Bath with 15, Lewiston with 13 and GAUD with 5.
- 9) The City of Portland accomplished large reductions at two CSOs which discharge to sensitive receiving waters, CSO 039 (Nason Brook) and CSO 042 (Capisc Brook). CSO discharge into these two brooks, which had averaged 8.77 MG over the previous five years, dropped to 363,000 gallons in 2022. Excellent work by the City.
- 10) After two years of field investigation and SSES activities the City of Biddeford verified the number of catch basins connected to the sewer system was approximately 450, not the much higher total of 970+ which had been reported in prior years. This is a large step forward for the City, one in which they've gained a true understanding of the degree to which the sewer collection system in Biddeford is combined.
- 11) CSO communities cleaned over 990,000 lineal feet of sewer mains and conducted closed circuit TV inspection (CCTV) of 674,025 lineal feet of mains with Lewiston, South Portland, and GAUD pursuing the most aggressive cleaning and inspection programs. I/I investigations were conducted on a total of 856,990 lineal feet of sewers in 2022 with Brewer, Rockland and Belfast leading the way.

Maine Combined Sewer Overflow (CSO) Permittee List

(As of December 31, 2022)



COMMUNITY/PERMITTEE	Outfalls	Regulators	No. of CSO Outfalls & Receiving Water
1. AUBURN SEWERAGE DISTRICT	1	1	1-Androscoggin R.
2. BANGOR	8	8	5-Kenduskeag Str., 3-Penobscot R.
3. BAR HARBOR (Hulls Cove)	1	1	1-Frenchman Bay
4. BAR HARBOR (Main Plant)	3	3	2-Frenchman Bay, 1-Eddie Brook
5. BATH	4	4	4-Kennebec R.
6. BELFAST	2	2	2-Passagassawakeag R./Belfast Hbr.
7. BIDDEFORD	7	7	7-Saco R.
8. BREWER	4	4	3-Penobscot R., 1-Sedgeunkendunk Str.
9. BUCKSPORT	0	0	SWIRL to Penobscot R.
10. CALAIS	3	3	2-St. Croix R., 1-Landing Bk.
11. CAPE ELIZABETH – Ottawa Road PS (Co-Permittees: So. Portland, PWD, & Cape Elizabeth)	1	1	1-Atlantic O.
12. GARDINER	1	1	1-Kennebec R.
13. GREATER AUGUSTA UTILITY DISTRICT (GAUD) & Hallowell Sanitary Sewers & CSO	13	17	13-Kennebec R.
14. HAMPDEN	1	1	1-Soudabscook Str.
15. KENNEBEC SANITARY TREATMENT District (KSTD)....	2	2	2-Kennebec R.
16. LEWISTON	8	9	3-Androscoggin R., 1-Goff Bk./Hart Bk., 4-Jepson Bk.
17. LEWISTON-AUBURN Water Pollution Control Authority (LAWPCA)	1	1	1-Androscoggin R.
18. MACHIAS	2	2	2-Machias R.
19. MADAWASKA	2	2	2-St. John R.
20. MECHANIC FALLS SANITARY DISTRICT	2	2	2-Little Androscoggin R.
21. MILFORD	1	1	1-Penobscot R.
22. OLD TOWN	3	3	2-Penobscot R., 1-Stillwater R.
23. ORONO	1	1	1-Penobscot R.
24. PARIS UD	0	0	0-Little Androscoggin R.
25. PORTLAND – CITY	8	13	4-Back C., 1-Capiscic Bk., 2-Portland Hbr., 1-Nason Bk. to Fore R. (marsh)
26. PORTLAND – PORTLAND WATER DISTRICT (PWD) ..	16	16	5-Back C., 3-Casco B., 4-Fore R., 4-Portland Hbr.
27. RANDOLPH	1	1	1-Kennebec R.
28. ROCKLAND	1	1	1-Rockland Hbr.
29. SACO	1	1	1-Saco R.
30. SKOWHEGAN	5	5	5-Kennebec R.
31. SOUTH PORTLAND	4	4	1-Barberry Ck., 1-Fore R., 1-Calvery P., 1-Portland Hbr.
32. WESTBROOK	5	5	5-Presumpscot R.
33. WINSLOW	2	2	1-Sebasticook R., 1-Kennebec R.
34. WINTERPORT SEWERAGE DISTRICT	1	1	1-Penobscot R.
TOTAL CSOs	115	125	

34 CSO Permits, permitting 31 CSO Towns/Cities/Districts/Authorities

Two or more permits in one CSO Town/City

Two CSO Towns/Cities covered in one permit

Permittee has entered post-construction monitoring period prior to exiting the CSO program

CSO Outfall – where wastewater is discharged to the receiving water

CSO Regulator – where wastewater exits the sanitary sewer system

Bold = 9 Permittees with sewer system only. Sewers discharge to a POTW controlled by another entity.



Maine CSO Permittee Flow Data

Permittee	NPDES Permit No.	Annual Volume (Gallons)																
		1987	1988	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Auburn S.D.	ME0100005	99,720,000	99,720,000	23,984,272	19,440,841	12,952,500	19,234,856	12,404,500	3,717,000	1,286,000	2,928,519	814,738	1,117,809	1,656,736	997,100	219,600	439,796	286,954
Bangor	ME01000781	635,000,000	635,000,000	378,640,000	347,360,000	389,300,000	146,000,000	69,940,000	32,140,000	87,748,000	40,109,000	48,586,000	13,310,000	50,547,000	96,009,000	58,745,000	77,720,893	52,468,359
Bar Harbor	ME0101214 & ME0102466	32,000,000	32,000,000	12,601,889	11,935,337	6,930,405	2,563,669	3,776,092	407,010	1,561,139	2,335,692	277,000	225,200	562,221	2,757,979	971,376	3,816,271	3,141,462
Bath	ME0100021	600,000,000	600,000,000	24,383,599	11,323,060	12,930,203	10,067,181	12,199,904	3,297,259	4,990,910	2,727,901	1,608,037	1,697,081	3,753,899	2,800,232	2,874,579	1,806,487	1,583,361
Belfast	ME0101532	736,000	736,000	198,370	260,036	486,919	490,495	0	0	0	0	0	0	305,071	330,905	264,774	444,090	0
Biddeford	ME0100048	400,000,000	400,000,000	416,581,800	435,972,508	381,853,242	113,907,851	141,198,828	90,581,675	194,302,147	95,830,208	99,492,656	49,504,091	70,814,300	69,451,000	34,644,000	26,649,500	14,543,300
Brewer	ME0100072	750,000,000	750,000,000	289,560,294	229,270,683	227,139,515	140,065,515	435,548	58,310	139,280	465,000	87,374	0	366,687	868,060	76,188	4,235,000	783,656
Bucksport	ME0100111	53,000,000	53,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calais	ME0100129	42,000,000	42,000,000	18,989,779	21,263,750	31,134,915	16,860,000	18,210,000	18,311,206	20,775,288	5,292,778	4,624,354	4,512,300	10,000,030	2,403,000	1,839,927	587,400	3,848,188
Cape Elizabeth	ME0102806	5,400,000	5,400,000	2,567,000	3,527,000	3,955,292	1,072,000	2,735,000	41,000	1,440,000	277,000	251,000	277,000	375,000	375,000	432,000	230,000	3,300
Corinna S.D.	ME0100153	40,000,000	40,000,000															
Dover-Foxcroft	ME0100501	16,000	16,000															
East Millinocket	ME0100196	1,200,000	1,200,000															
Fairfield	ME0102393	300,000	300,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fort Kent U.D.	ME0102369	3,000	3,000															
Gardiner	ME0101702	44,000,000	44,000,000	5,000,000	1,380,000	10,453,761	4,655,000	4,455,400	1,287,000	1,950,000	2,299,300	665,000	2,877,000	4,893,100	2,877,000	9,932,000	1,993,000	61,000
Greater Augusta U.D.	ME0100013	72,554,000	72,554,000	48,965,215	15,723,000	49,670,000	31,589,000	38,408,000	26,901,000	17,646,000	21,680,000	7,120,000	3,680,000	3,771,000	3,482,000	6,074,000	3,082,000	1,989,200
Hallowell W.D. - 2008 GAUD	ME0101010	350,000	350,000															
Hampden	ME0102512	1,201,000	39,600	0	500,000	500,000	500,000	0	0	0	24,105	151,055	0	1,250,000	1,933,080	244,200	319,902	205,128
Kennebec S.T.D.	ME0100854	2,500,000	2,500,000	2,209,107	0	0	0	135,444	0	0	1,797,554	0	0	324,228	0	0	0	0
Kittery	ME0100285	350,000	350,000															
Lewiston	ME0100994	208,900,000	208,900,000	152,039,341	116,557,656	113,285,042	78,521,909	90,103,658	32,772,894	21,355,331	30,574,217	25,477,213	12,808,039	18,552,725	21,743,196	22,923,950	8,480,003	20,781,523
Lewiston-Auburn W.P.C.A.	ME0101478	480,000,000	480,000,000	292,244,000	207,794,000	156,986,000	108,278,048	113,380,000	63,567,000	68,569,000	27,838,000	18,694,000	21,856,000	25,735,000	28,518,000	33,659,000	14,531,000	31,190,000
Lincoln S.D.	ME0101796	2,400,000	2,400,000															
Lisbon	ME0100307	600,000	600,000															
Livemore Falls	ME0100315																	
Machias	ME0100323	7,000,000	7,000,000	2,328,905	4,073,938	2,791,962	1,180,678	938,330	1,857,988	2,202,444	1,067,647	910,259	203,815	603,687	145,425	100,035	122,833	418,811
Madawaska	ME 0101681	3,200,000	3,200,000	24,194,225	15,800,000	1,107,610	1,490,000	377,488	349,400	1,830,563	0	0	1,562,430	3,988,640	8,205,821	10,242	422,838	616,123
Mechanic Falls S.D.	ME0100391	18,000,000	18,000,000	11,223,600	6,231,000	9,250,000	5,033,002	9,638,035	3,663,997	1,385,675	1,013,807	927,473	603,528	194,728	616,537	379,608	63,330	131,488
Milford	ME0102695	220,000	220,000	88,365	66,285	52,006	407,151	26,970	0	10,000	25,000	20,000	0	0	29,781	8,638	0	43,153
Milo W.D.	ME0100439	10,000	10,000	750														
Old Town	ME0100471	6,300,000	6,300,000	254,967	0	125,000	0	0	0	0	30,000	10,000	0	270,801	61,508	20,698	12,128	7,608
Orono	ME0100498	31,000,000	31,000,000	4,820,000	371,471	2,416,910	1,260,837	0	0	0	1,320,000	1,461,000	0	1,460,000	698,817	1,192,467	905,504	1,102,236
Paris U.D.	ME 0100951	1,000,000	1,000,000	84,000	0	110,000	0	1,020,000	0	0	0	0	0	0	0	0	0	0
Portland & PWD	City-ME0101435 / PWD-ME0102075	1,800,000,000	1,800,000,000	883,105,087	872,751,281	780,188,153	496,288,000	704,319,257	179,403,901	414,421,500	254,663,330	318,359,691	175,675,000	283,612,831	184,453,600	178,744,981	194,468,501	163,964,790
Presque Isle	ME0100561	27,500,000	27,500,000															
Randolph	ME0102423	10,000,000	10,000,000	1,413,880	488,645	285,719	223,934	988,434	50,054	101,183	0	515,240	0	105,695	3,500	67,300	1,400	8,900
Rockland	ME0100595	47,000,000	47,000,000	0	0													
Saco	ME 0101117	176,000,000	176,000,000	100,000	27,015	924,014	1,372,128	2,964,929	1,100,985	1,739,425	1,057,000	599,000	304,000	2,139,000	2,675,000	978,000	2,487,000	242,000
Sanford S.D.	ME0100617	4,000,000	4,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skowhegan	ME0100625	48,000,000	48,000,000	61,963,453	6,073,919	7,550,855	4,757,994	4,238,875	4,746,538	3,861,193	6,786,698	4,168,672	738,844	4,379,019	1,711,809	1,073,711	252,870	1,742,309
South Portland	ME0100633	500,000,000	500,000,000	12,883,433	12,183,196	42,095,393	14,906,594	37,134,882	1,858,579	15,531,600	11,161,602	6,240,350	2,033,229	3,533,710	8,651,990	859,095	2,511,052	1,561,258
Westbrook	ME0100846	50,000,000	50,000,000	7,379,066	7,069,280	14,105,989	12,202,000	18,903,485	6,222,000	11,932,000	4,423,000	7,447,100	1,285,000	1,631,000	9,816,000	3,227,000	1,038,000	926,156
Winslow	ME0102628	1,300,000	1,300,000	235,000	5,001	200,000	63,354	1,327,119	7,070	0	164,549	70,144	237,400	601,045	3,654,519	876,296	193,076	3,196,000
Winterport S.D.	ME0100749	680,000	680,000	252,000	18,000	0	0	0	0	60,000	90,000	0	0	138,000	0	0	108,000	54,000
Yarmouth	ME0100765	1,000	1,000															
Total Annual Discharge Volume (Gallons)	6,203,441,000	6,202,279,600	1,819,925,699	2,678,291,397	2,347,466,902	2,258,781,405	1,212,991,196	1,289,260,178	472,341,866	874,838,678	515,981,907	548,577,356	294,507,766	495,565,153	455,326,859	359,840,335	305,344,353	
Total Annual Discharge Volume (Billion Gallons)	6.20	6.20	1.82	2.68	2.35	2.26	1.21	1.29	0.47	0.87	0.52	0.55	0.29	0.50	0.46	0.36	0.31	

Notes: For legibility, discharge volume data for years 1989-2007 are not shown. Permittees highlighted in gray no longer maintain a CSO permit. Numbers in blue are estimated from LTRMP or subsequent high flow. Biddeford CSO volumes 2005-2016 have been adjusted due to under-estimation of flows. Brewer CSO volumes in 2022 were adjusted to account for missing CSO discharge data.



Maine CSO Permittee Annual Number of CSO Discharge Events

Permittee	NPDES Permit No.	1987	1988	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Auburn S.D.	ME0100005	80	80	59	61	37	11	8	5	5	2	8	2	2	5	4	3	2
Bangor	ME0100781	53	53	65	78	73	54	29	27	34	20	28	21	23	34	16	16	28
Bar Harbor	ME0101214 & ME0102466	155	155	27	28	19	6	13	6	17	5	2	3	7	14	5	8	11
Bath	ME0100021	64	64	29	21	20	12	23	18	18	8	14	10	14	15	17	14	20
Belfast	ME0101532	7	7	4	3	6	3	0	0	0	1	0	0	2	3	2	3	5
Biddeford	ME0100048	180	180	53	46	28	100	146	77	88	48	57	55	41	45	43	43	40
Brewer	ME0100072	95	95	59	56	50	45	5	3	3	1	2	0	4	4	2	8	7
Bucksport	ME0100111	53	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calais	ME0100129	15	15	10	14	8	6	14	8	14	6	7	9	15	6	2	2	10
Cape Elizabeth	ME0102806	5	5	11	17	12	6	11	2	12	2	6	2	4	2	1	2	4
Corinna S.D.	ME0100153	30	30															
Dover-Foxcroft	ME0100501	8	8															
East Millinocket	ME0100196	11	11															
Fairfield	ME0102393	15	15	0	0	0	0	0	0	0								
Fort Kent U.D.	ME0102369	10	10															
Gardiner	ME0101702	40	40	8	2	12	6	6	3	3	2	2	5	5	5	5	3	1
Greater Augusta U.D.	ME0100013	80	80	34	35	32	37	29	22	29	17	17	29	35	26	24	11	14
Hallowell W.D. - 2008 GAUD	ME0101010	14	14															
Hampden	ME0102512	1	3	0	1	1	1	0	0	0	1	1	0	1	2	1	2	2
Kennebec S.T.D.	ME0100854	15	15	4	0	0	0	1	0	0	1	0	0	1	0	0	0	0
Kittery	ME0100285	7	7															
Lewiston	ME0100994	80	80	71	58	68	45	38	27	23	37	35	28	24	27	15	14	14
Lewiston-Auburn W.P.C.A.	ME0101478	80	80	38	36	44	37	22	32	26	17	17	10	20	19	23	14	22
Lincoln S.D.	ME0101796	10	10															
Lisbon	ME0100307	5	5															
Livemore Falls	ME0100315																	
Machias	ME0100323	15	15	12	13	9	7	9	6	13	7	8	7	11	7	5	1	8
Madawaska	ME 0101681	16	16	18	32	17	10	8	3	7	0	0	3	3	2	4	5	9
Mechanic Falls S.D.	ME0100391	42	42	42	42	18	39	28	17	30	17	25	12	12	16	12	6	11
Milford	ME0102695	8	8	4	1	3	2	1	0	1	1	1	0	0	1	2	0	2
Milo W.D.	ME0100439	3	3	1														
Old Town	ME0100471	25	25	4	0	1	0	0	0	0	1	1	0	2	2	3	2	2
Orono	ME0100498	30	30	7	3	3	2	0	0	0	2	4	0	1	2	3	3	3
Paris U.D.	ME 0100951	5	5	2	0	4	0	4	0	0	0	0	0	0	0	0	0	0
Portland & PWD	City-ME0101435/ PWD-ME0102075	100	100	87	104	79	88	70	63	75	58	56	38	49	46	41	61	52
Presque Isle	ME0100561	26	26															
Randolph	ME0102423	23	23	9	7	3	2	2	1	2	0	2	0	2	1	1	1	1
Rockland	ME0100595	23	23	0	0													
Saco	ME 0101117	44	44	12	9	10	4	21	15	19	13	12	7	15	6	17	15	9
Sanford S.D.	ME0100617	10	10	0	0	0	0	0	0	0								
Skowhegan	ME0100625	160	160	58	17	23	21	25	36	28	20	23	23	21	23	21	16	4
South Portland	ME0100633	23	23	10	10	12	13	12	7	9	2	3	2	4	3	3	2	6
Westbrook (PWD)	ME0100846	50	50	50	11	12	16	13	60	70	49	38	2	6	4	3	2	2
Winslow	ME0102628	20	20	3	3	2	3	9	1	0	1	3	1	1	2	3	2	4
Winterport S.D.	ME0100749	8	8	1	1	0	0	0	0	1	2	0	0	1	0	0	3	2
Yarmouth	ME0100765	4	4															
Total Number of CSO Discharge Events		1748	1750	568	792	709	606	576	547	439	527	341	372	269	326	322	278	295

Note: For legibility, discharge event data for years 1989-2007 are not shown. Permittees highlighted in gray no longer maintain a CSO permit. Numbers in blue are estimated from LTCP/MP or other source.



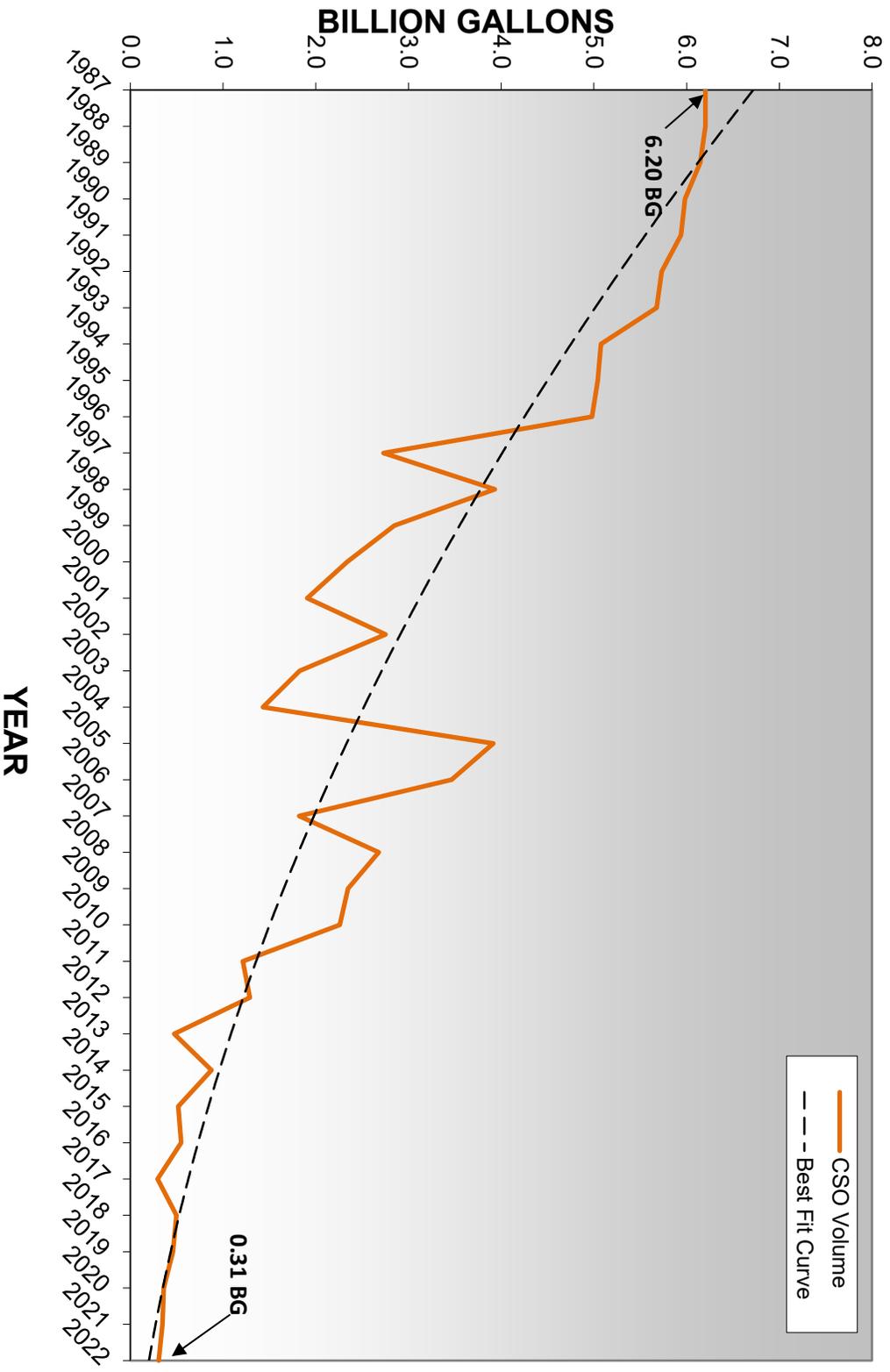
Maine CSO Permittee Annual Number of CSO Outfalls

Permittee	NPDES Permit No.	Year Unknown	1987	1988	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Auburn S.D.	ME0100005	11	11	11	3	3	3	2	3	2	2	1	2	2	2	2	2	1	1
Bangor	ME0100781	22	22	22	7	7	7	9	9	9	9	9	9	9	8	8	8	8	8
Bar Harbor	ME0101214 & ME0102466	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Bath	ME0100021	9	9	9	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Belfast	ME0101532	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Biddeford	ME0100048	16	16	16	10	10	10	10	10	8	8	8	8	7	7	7	7	7	7
Brewer	ME0100072	10	10	10	6	6	5	5	4	4	4	4	4	4	4	4	4	4	4
Bucksport	ME0100111	2	2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
Calais	ME0100129	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3
Cape Elizabeth	ME0102806	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Corinna S.D.	ME0100153	5	5	5															
Dover-Foxcroft	ME0100501	15	15	15															
East Millinocket	ME0100196	5	5	5															
Fairfield	ME0102393	3	3	3	2	2	2	2	2	0									
Fort Kent U.D.	ME0102369	6	6	6															
Gardiner	ME0101702	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Greater Augusta U.D.	ME0100013	31	31	31	24	23	22	22	19	18	18	18	18	18	18	18	18	16	13
Hallowell W.D. -- 2008 GAUD	ME0101010	1	1	1	-	-	-	-	-	-	-								
Hampden	ME0102512	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Kennebec S.T.D.	ME0100854	5	5	5	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2
Kittery	ME0100285	3	3	3															
Lewiston	ME0100994	32	32	32	22	22	20	18	18	16	11	10	8	8	8	8	8	8	8
Lewiston-Auburn W.P.C.A.	ME0101478	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lincoln S.D.	ME0101796	1	1	1															
Lisbon	ME0100307	6	6	6															
Livemore Falls	ME0100315	5	5	5															
Machias	ME0100323	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Madawaska	ME 0101681	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mechanic Falls S.D.	ME0100391	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2
Milford	ME0102695	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Milo W.D.	ME0100439	3	3	3	3														
Old Town	ME0100471	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Orono	ME0100498	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paris U.D.	ME 0100951	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
Portland & PWD	City-ME0101435 / PWD-ME0102075	42	42	42	33	33	32	32	31	31	31	31	30	30	30	30	29	28	24
Presque Isle	ME0100561	1	1	1															
Randolph	ME0102423	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rockland	ME0100595	8	8	8	2	2													
Saco	ME 0101117	9	9	9	6	5	4	4	4	4	4	4	4	4	2	2	2	2	1
Sanford S.D.	ME0100617	3	3	3	1	1	1	1	1	0									
Skowhegan	ME0100625	10	10	10	8	7	7	7	7	7	7	7	7	7	5	5	5	5	5
South Portland	ME0100633	35	28	28	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4
Westbrook (PWD)	ME0100846	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Winslow	ME0102628	2	2	2	1	1	2	2	2	2	2	2	3	3	3	2	2	2	2
Winterport S.D.	ME0100749	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Yarmouth	ME0100765	2	2	2															
Total Annual CSO Discharge Outfalls		350	338	338	183	177	171	164	163	159	149	145	143	142	140	133	131	130	115

Note: For legibility, outfall data for years 1989-2007 are not shown. Permittees highlighted in gray no longer maintain a CSO permit. Numbers in blue are estimated from LTP/MP or other source.

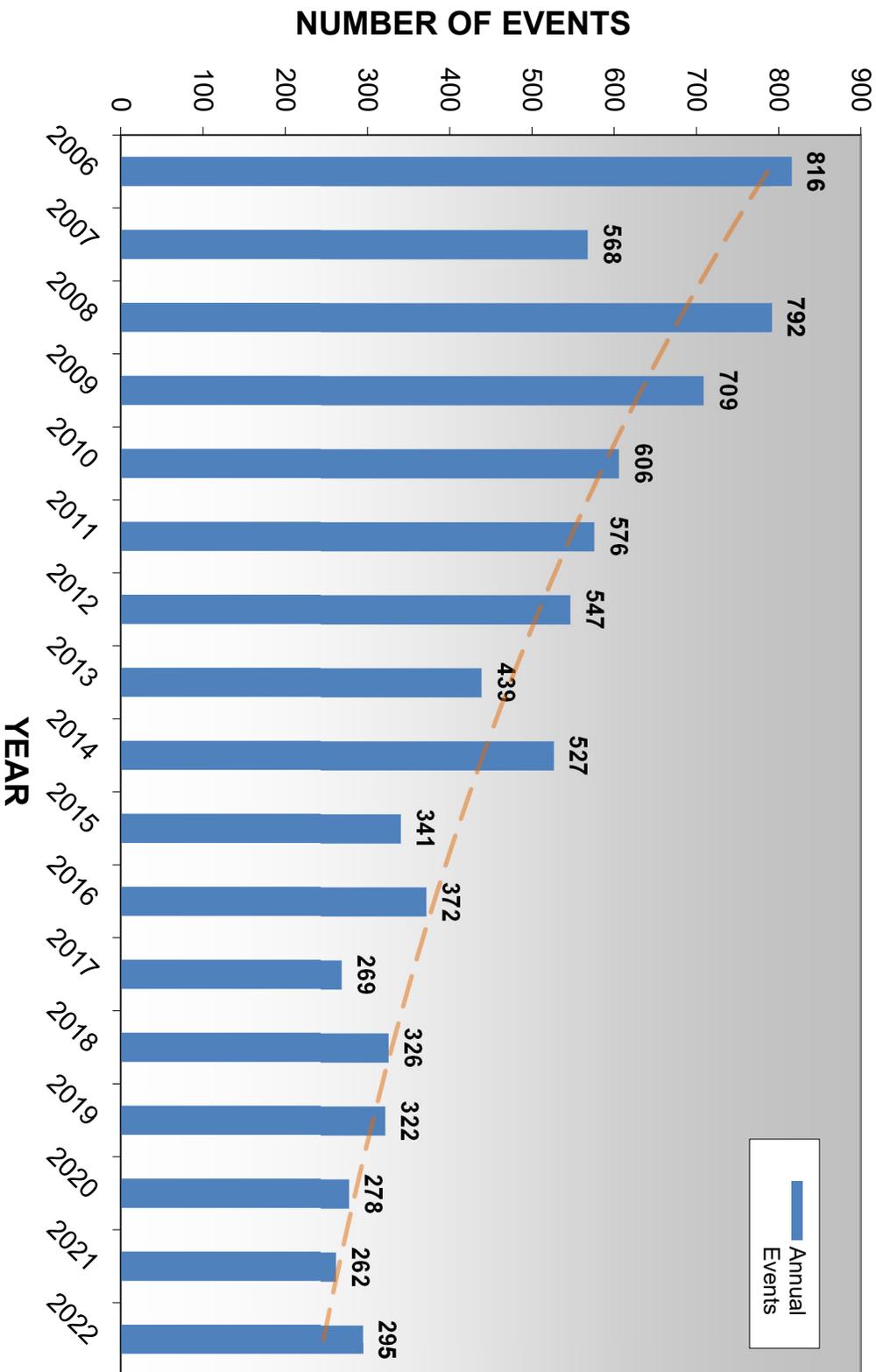


Maine – Statewide Combined Sewer Overflow (CSO) Volume Discharged



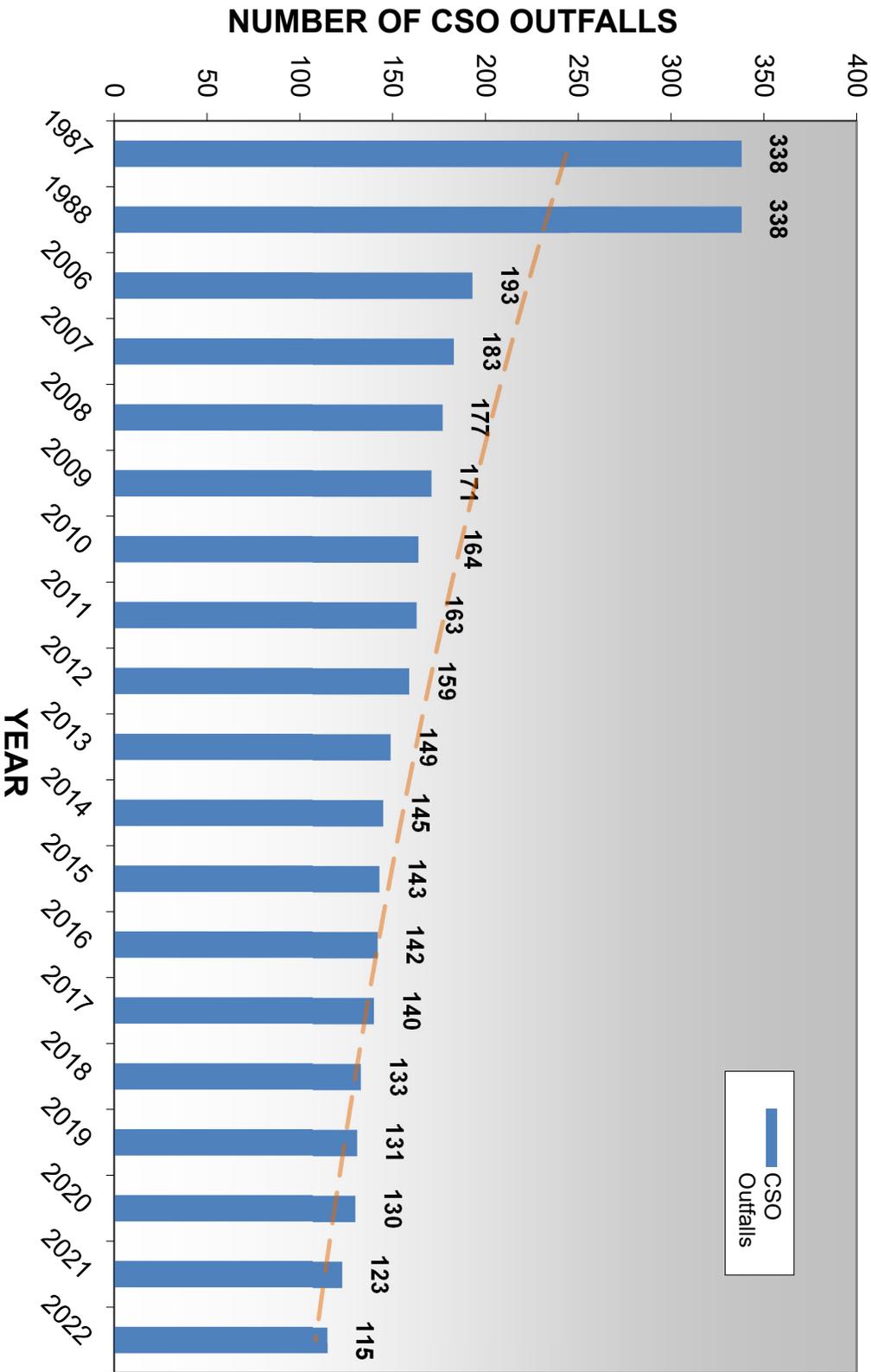


Maine – Statewide Combined Sewer Overflow (CSO) Annual Number of Discharge Events



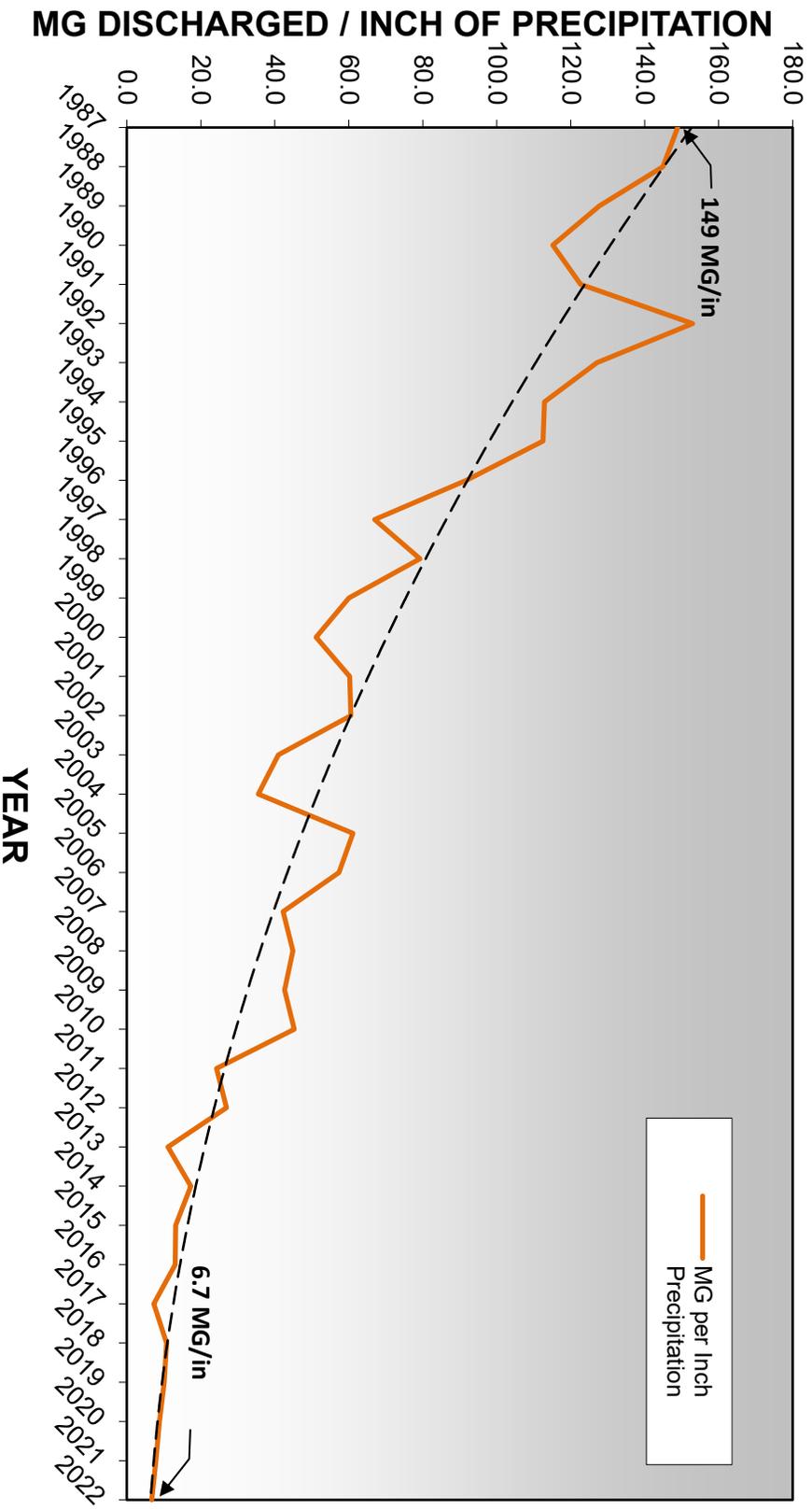


Maine – Statewide Combined Sewer Overflow (CSO) Outfalls



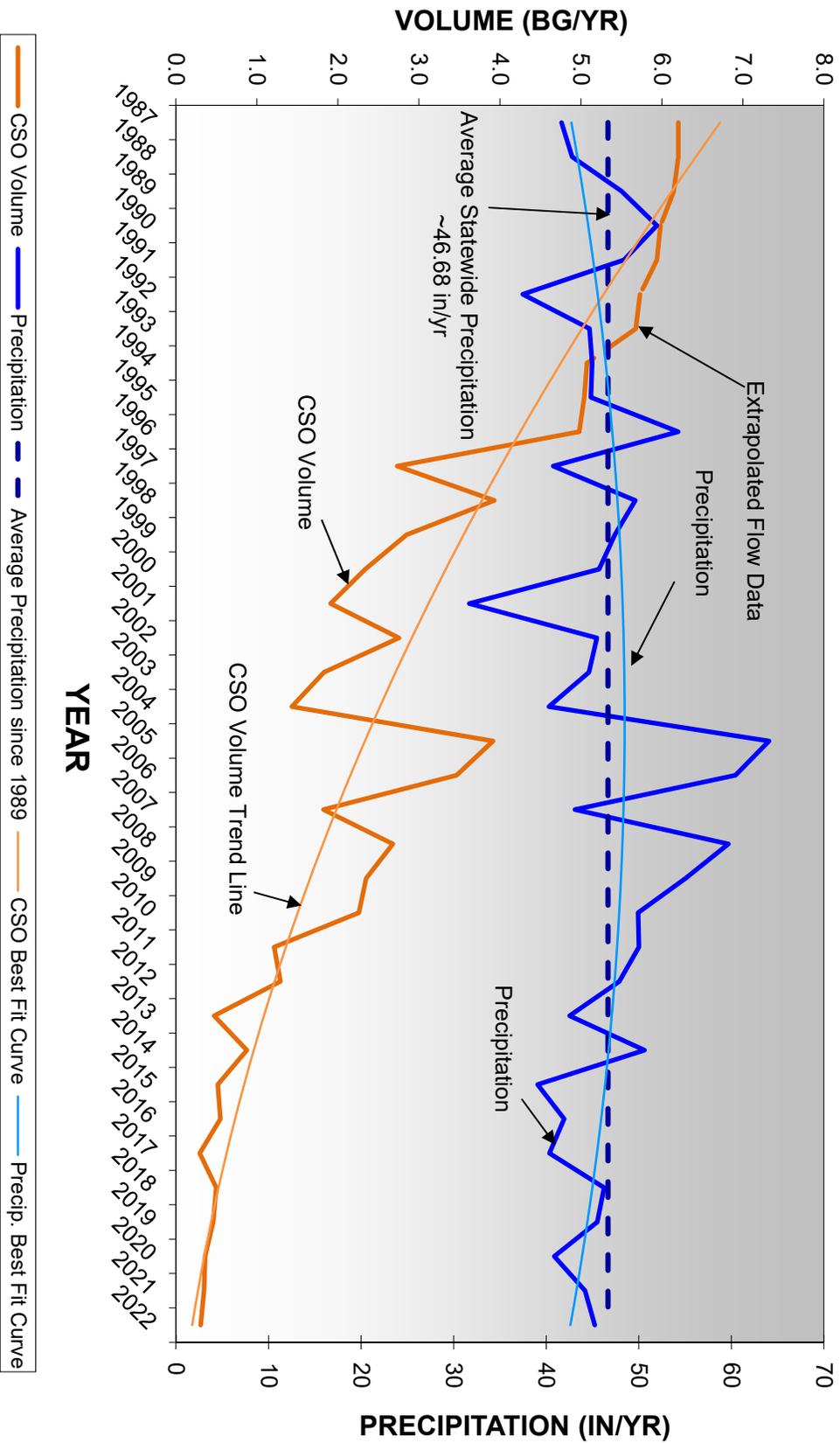


Maine – Statewide Combined Sewer Overflow (CSO) Annual Volume Discharged per Inch of Precipitation





Maine – Yearly CSO Volumes and Precipitation

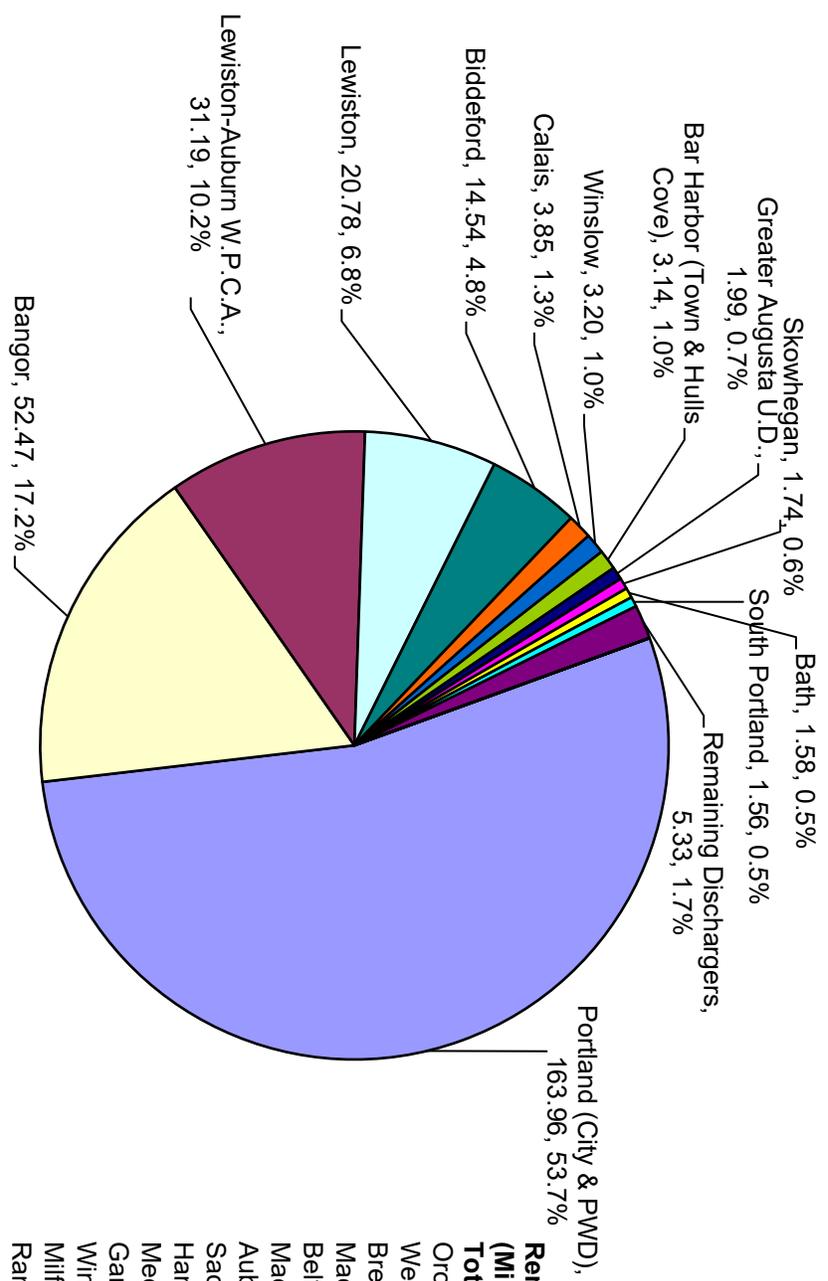




Maine 2022 CSO Flow Comparison

34 CSO Permittees

30 Dischargers – 0.31 Billion Gallons



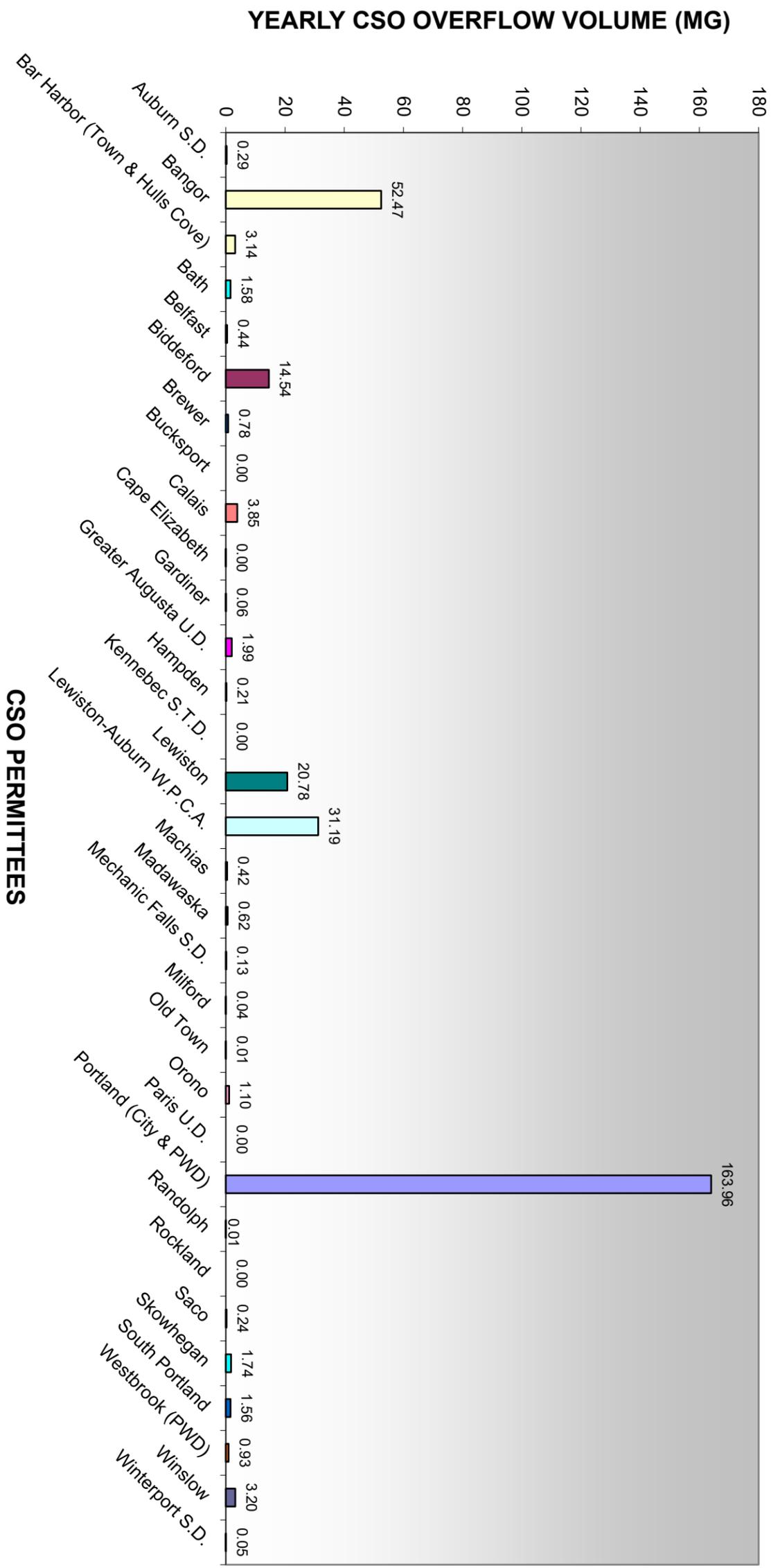
Four Permittees without CSO Discharge in 2022:
 Bucksport
 Kennebec S.T.D.
 Paris U.D.
 Rockland

Remaining 16 Dischargers (Million Gallons, Percent of Total):
 Orono, 1.10, 0.36%
 Westbrook (PWD), 0.93, 0.30%
 Brewer, 0.78, 0.26%
 Madawaska, 0.62, 0.20%
 Belfast, 0.44, 0.15%
 Machias, 0.42, 0.14%
 Auburn S.D., 0.29, 0.09%
 Saco, 0.24, 0.08%
 Hampden, 0.21, 0.07%
 Mechanic Falls S.D., 0.13, 0.04%
 Gardiner, 0.06, 0.02%
 Winterport S.D., 0.05, 0.02%
 Milford, 0.04, 0.01%
 Randolph, 0.009, 0.003%
 Old Town, 0.008, 0.002%
 Cape Elizabeth, 0.003, 0.001%

Discharger, Overflow in Million Gallons (MG), Percent of Total

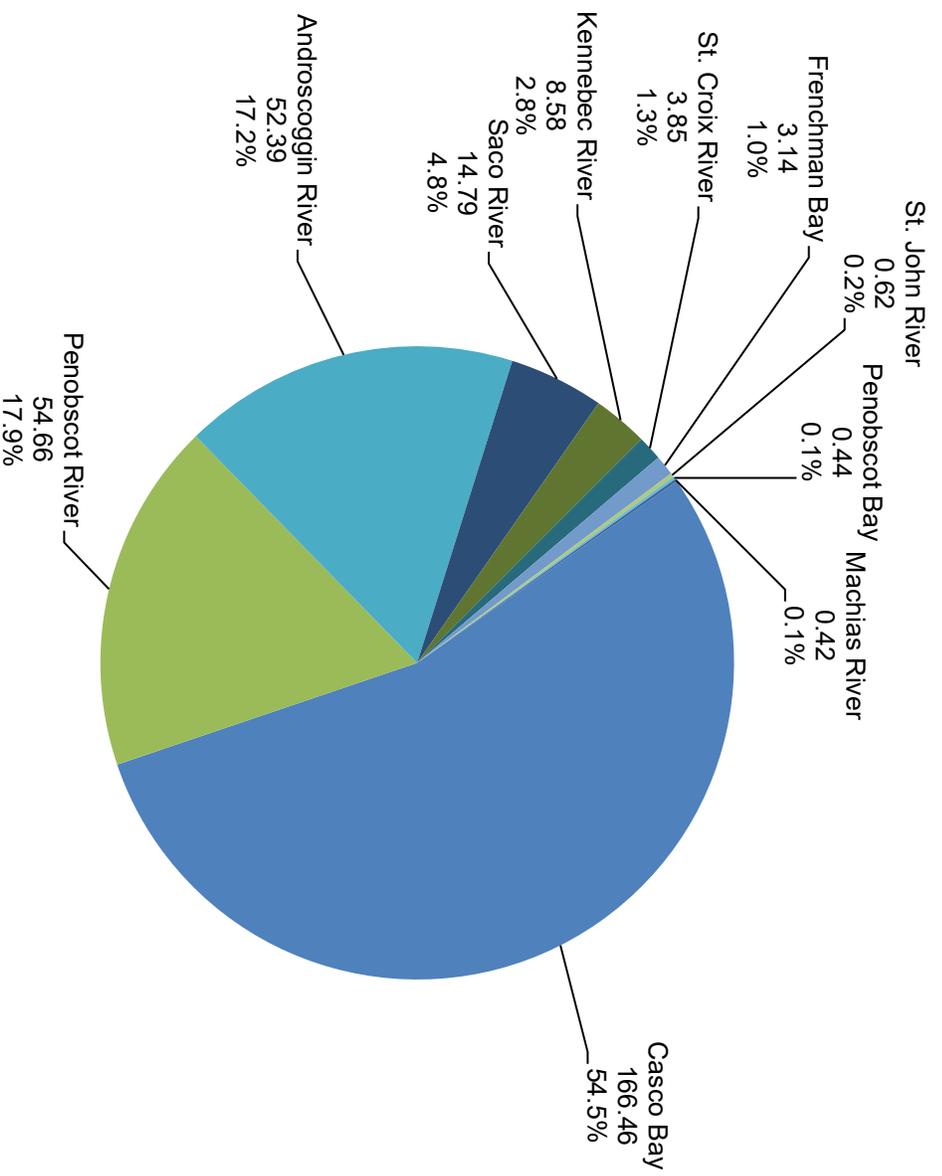


Maine 2022 CSO Flow Comparison by Permittee 0.31 Billion Gallons





Maine 2022 CSO Volume Discharged by Watershed 0.31 Billion Gallons



Receiving Waterbody, Overflow in Million Gallons (MG), Percent of Total

Maine Annual CSO Volume Discharged by Watershed

Watershed	Annual Discharge Volume (Gallons)			
	2017	2018	2019	2020
Androscoggin River	1,117,809	1,656,736	997,100	219,600
Auburn SD	31,190,000	25,735,000	28,518,000	33,659,000
Lewiston-WPCFA	20,781,523	18,552,725	21,743,196	22,923,950
Mechanic Falls SD	131,488	194,728	616,537	379,608
Paris UD	0	0	0	0
Sub Total	36,385,376	46,139,189	51,874,833	57,182,158
Casco Bay	277,000	375,000	432,000	230,000
Cape Elizabeth	163,964,790	283,612,831	184,453,600	178,744,981
Portland-City & PWD	2,033,229	3,533,710	8,651,990	859,095
South Portland	1,561,258	1,631,000	9,816,000	3,227,000
Westbrook	926,156	1,285,000	1,631,000	1,038,000
Sub Total	179,270,229	289,152,541	203,353,590	182,833,076
Frenchman Bay	225,200	562,221	2,757,979	971,376
Bar Harbor	3,141,462	3,816,271	971,376	3,816,271
Sub Total	225,200	562,221	2,757,979	3,816,271
Kennebec River	1,697,081	3,753,899	2,800,232	2,874,579
Bath	1,583,361	3,753,899	2,800,232	2,874,579
Gardiner	61,000	2,877,000	2,877,000	9,932,000
Greater Augusta UD	1,989,200	3,771,000	3,482,000	6,074,000
Kennebec STD	0	324,228	0	0
Randolph	8,900	105,695	3,500	67,300
Skowhegan	1,742,309	4,379,019	1,711,809	1,073,711
Winslow	3,196,000	601,045	3,654,519	876,296
Sub Total	9,230,325	17,827,986	14,529,060	20,897,886
Machias River	203,815	603,687	145,425	100,035
Machias	418,811	603,687	145,425	100,035
Sub Total	203,815	603,687	145,425	100,035
Penobscot Bay	0	305,071	330,905	96,444
Belfast	0	305,071	330,905	96,444
Rockland	0	0	0	0
Sub Total	0	305,071	330,905	96,444
Penobscot River	13,310,000	50,547,000	96,009,000	58,745,000
Bangor	52,468,359	50,547,000	96,009,000	58,745,000
Brewer	783,656	366,687	868,060	76,188
Bucksport	0	0	0	0
Hampden	205,128	1,250,000	1,933,080	244,200
Millford	43,153	0	0	0
Old Town	7,608	270,801	61,508	20,698
Orono	1,102,236	1,460,000	698,817	1,192,467
Winterport SD	54,000	138,000	0	0
Sub Total	13,310,000	54,032,488	99,570,465	60,278,553
Saco River	49,504,091	70,814,300	69,451,000	34,644,000
Biddeford	14,543,300	70,814,300	69,451,000	34,644,000
Saco	242,000	2,139,000	2,675,000	978,000
Sub Total	49,808,091	72,953,300	72,126,000	35,622,000
St. Croix River	4,512,300	10,000,030	2,403,000	1,839,927
Catais	3,848,188	10,000,030	2,403,000	1,839,927
Sub Total	4,512,300	10,000,030	2,403,000	1,839,927
St. John River	1,562,430	3,988,640	8,205,821	10,242
Madawaska	616,123	3,988,640	8,205,821	10,242
Sub Total	1,562,430	3,988,640	8,205,821	10,242
Total Annual Volume	294,507,766	495,565,153	455,297,078	359,831,697
Sub Total	1,562,430	3,988,640	8,205,821	10,242
Total Annual Volume	305,344,353	499,553,793	463,502,900	370,073,939



Maine CSO Permittee Level of Treatment

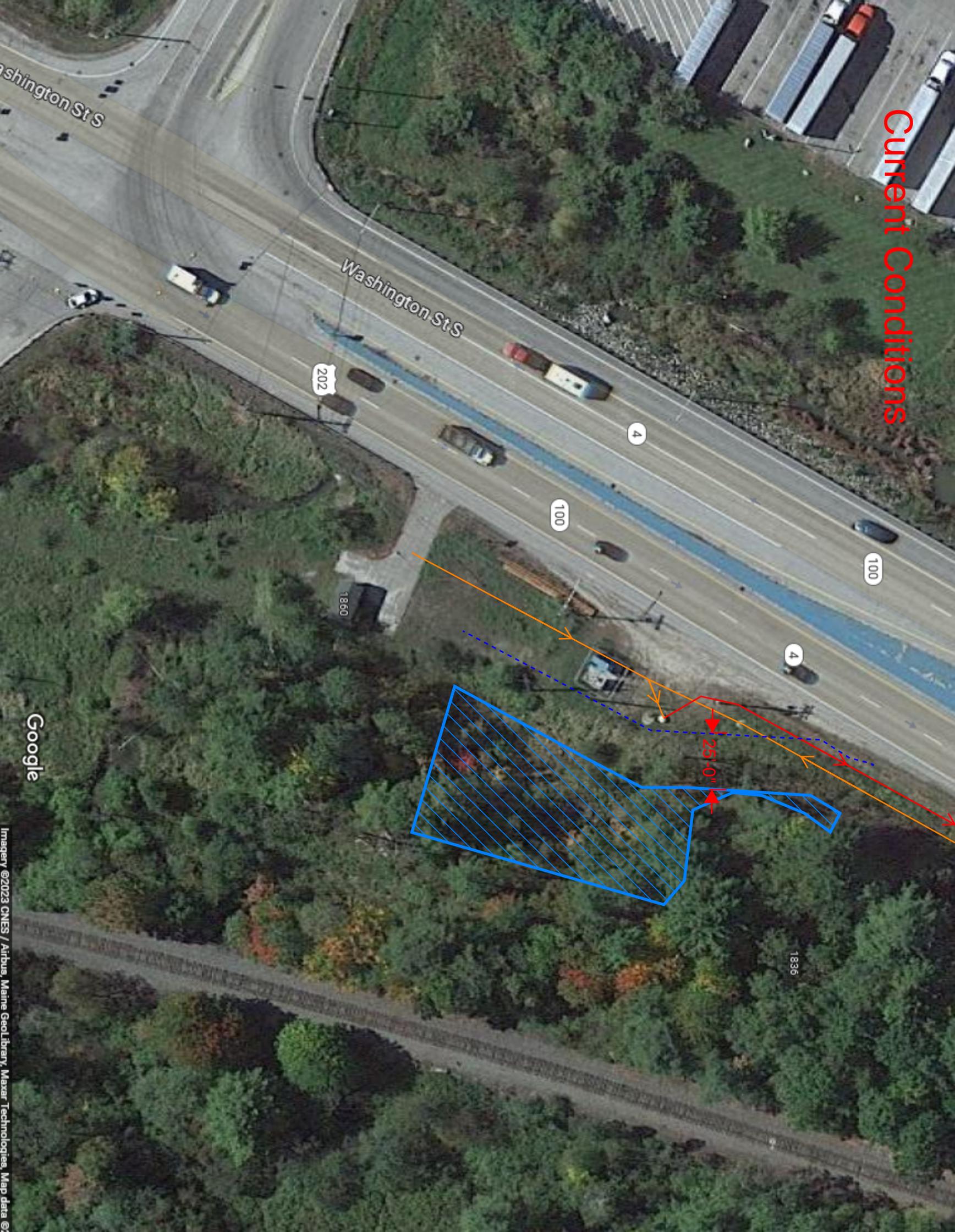
CSO Permittees	2018				2019				2020				2021				2022			
	Average Annual Rainfall (Inches): 46.25				Average Annual Rainfall (Inches): 45.57				Average Annual Rainfall (Inches): 40.88				Average Annual Rainfall (Inches): 44.19				Average Annual Rainfall (Inches): 45.24			
	Total Volume ^{1,2} (MG)	Secondary Treatment	Primary Treatment	CSO	Total Volume ^{1,2} (MG)	Secondary Treatment	Primary Treatment	CSO	Total Volume ^{1,2} (MG)	Secondary Treatment	Primary Treatment	CSO	Total Volume ^{1,2} (MG)	Secondary Treatment	Primary Treatment	CSO	Total Volume ^{1,2} (MG)	Secondary Treatment	Primary Treatment	CSO
Bangor & Hampden	3,300.6	97.57%	0.90%	1.53%	3,265.8	95.56%	1.50%	2.94%	2,851.3	96.44%	1.49%	2.07%	2,932.3	96.25%	1.09%	2.66%	3,319.0	96.87%	1.54%	1.59%
Bar Harbor	439.5	99.87%		0.13%	422.0	99.35%		0.65%	349.9	99.72%		0.28%	380.3	99.00%		1.00%	415.9	99.24%		0.76%
Bath	753.6	94.56%	4.94%	0.50%	782.5	95.24%	4.40%	0.36%	728.7	92.89%	6.72%	0.39%	711.4	92.36%	7.39%	0.25%	711.4	95.69%	4.08%	0.22%
Belfast	229.9	99.87%		0.13%	240.2	99.86%		0.14%	202.0	99.95%		0.05%	231.4	99.89%		0.11%	227.0	99.80%		0.20%
Biddeford	1,249.0	94.33%		5.67%	1,142.9	93.92%		6.08%	1,011.6	96.58%		3.42%	869.1	96.93%		3.07%	849.6	98.29%		1.71%
Brewer	652.2	99.95%	0.00%	0.05%	680.7	99.87%	0.00%	0.13%	680.4	99.99%	0.00%	0.01%	724.7	99.42%	0.00%	0.58%	854.9	99.91%	0.00%	0.09%
Bucksport ³	110.6	96.23%	3.77%	0.00%	97.3	99.15%	0.85%	0.00%	107.1	98.19%	1.81%	0.00%	120.5	96.52%	3.48%	0.00%	125.8	96.09%	3.91%	0.00%
Calais	258.3	91.97%	4.16%	3.87%	238.7	95.59%	3.40%	1.01%	202.2	92.15%	6.94%	0.91%	190.0	96.91%	2.78%	0.31%	235.4	94.98%	3.38%	1.63%
Gardiner & Randolph	433.1	97.46%	1.41%	1.13%	408.1	97.74%	1.55%	0.71%	371.1	95.00%	2.31%	2.69%	349.5	98.98%	0.45%	0.57%	399.4	99.37%	0.61%	0.02%
GAUD & Hallowell	1,424.0	97.18%	2.55%	0.26%	1,853.8	98.40%	1.41%	0.19%	1,650.3	98.22%	1.41%	0.37%	1,311.0	99.22%	0.54%	0.24%	2,213.8	99.26%	0.65%	0.09%
KSTD & Winslow	2,553.8	99.99%		0.01%	2,394.5	100.00%		0.00%	2,184.0	99.96%		0.04%	2,074.0	99.99%		0.01%	2,262.3	99.86%		0.14%
LAW/PCA, Lewiston & Auburn	3,379.6	98.64%	0.00%	1.36%	3,427.3	98.12%	0.39%	1.50%	3,434.3	97.53%	0.82%	1.65%	3,196.0	96.26%	3.01%	0.73%	3,419.2	98.41%	0.06%	1.53%
Machias	87.2	99.31%		0.69%	85.3	99.83%		0.17%	62.7	99.84%		0.16%	65.2	99.81%		0.19%	84.3	99.50%		0.50%
Madawaska	129.6	96.92%		3.08%	129.6	93.67%		6.33%	123.9	99.99%		0.01%	105.8	99.60%		0.40%	145.4	99.58%		0.42%
Mechanic Falls	81.1	99.76%		0.24%	86.2	99.29%		0.71%	79.7	99.52%		0.48%	64.0	99.90%		0.10%	70.4	99.81%		0.19%
Old Town & Milford	541.3	98.33%	1.62%	0.05%	579.3	99.11%	0.87%	0.02%	448.8	98.95%	1.04%	0.01%	471.8	99.05%	0.95%	0.00%	537.4	99.20%	0.79%	0.01%
Orono	470.1	99.69%		0.31%	500.8	99.86%		0.14%	400.1	99.70%		0.30%	419.9	99.78%		0.22%	455.5	99.76%		0.24%
Paris UD	107.6	100.00%		0.00%	121.8	100.00%		0.00%	110.3	100.00%		0.00%	96.3	100.00%		0.00%	108.2	100.00%		0.00%
Portland & PWD ³	6,955.5	90.94%	4.88%	4.18%	6,100.6	92.90%	4.07%	3.02%	5,938.0	92.75%	4.24%	3.01%	5,552.8	92.92%	3.58%	3.50%	5,218.8	92.22%	4.64%	3.14%
Rockland	973.9	81.99%	18.01%	0.00%	998.0	75.94%	24.06%	0.00%	820.4	84.74%	15.26%	0.00%	868.0	87.31%	12.69%	0.00%	816.1	91.81%	8.19%	0.00%
Saco	811.3	99.26%	0.48%	0.26%	776.2	99.22%	0.43%	0.34%	784.0	99.51%	0.36%	0.12%	800.9	99.18%	0.51%	0.31%	762.3	99.69%	0.28%	0.03%
Skowhegan	336.6	97.97%	0.73%	1.30%	326.1	97.26%	2.22%	0.52%	262.8	95.65%	3.94%	0.41%	223.6	99.47%	0.37%	0.16%	247.0	98.39%	0.91%	0.71%
South Portland & Cape Elizabeth	2,232.6	98.89%	0.95%	0.16%	2,052.6	98.67%	0.89%	0.44%	2,001.5	99.81%	0.14%	0.04%	1,909.5	99.48%	0.37%	0.14%	3,766.4	99.93%	0.03%	0.04%
Westbrook & PWD	1,211.7	99.87%		0.13%	1,157.2	99.15%		0.85%	1,115.1	99.71%		0.29%	1,081.8	99.90%		0.10%	1,122.7	99.92%		0.08%
SUM	28,722.9				27,867.4				25,920.2				24,750.0				28,368.0			
MEAN	1,196.8	97.11%	3.17%	1.04%	1,161.1	96.99%	3.29%	1.09%	1,080.0	97.37%	3.32%	0.70%	1,031.2	97.84%	2.66%	0.61%	1,182.0	98.23%	2.08%	0.56%
MEDIAN	596.7	98.48%	1.51%	0.26%	630.0	98.89%	1.46%	0.40%	564.6	99.23%	1.65%	0.28%	591.6	99.20%	1.02%	0.23%	624.4	99.32%	0.85%	0.19%

Notes: ¹Volume data was obtained from monthly Discharge Monitoring Reports entered and submitted through NetDMR by each Facility

²Total Volume: Total Volume Taken on by System = Secondary Treatment Volume + Primary Treatment Volume + CSO Volume + SSO Volume (SSO Volumes too small to affect Percentages, therefore not displayed)

³Updates were made to treatment volumes and percentages for 2018 and 2019 for Bucksport and for 2018-2021 for Portland & PWD

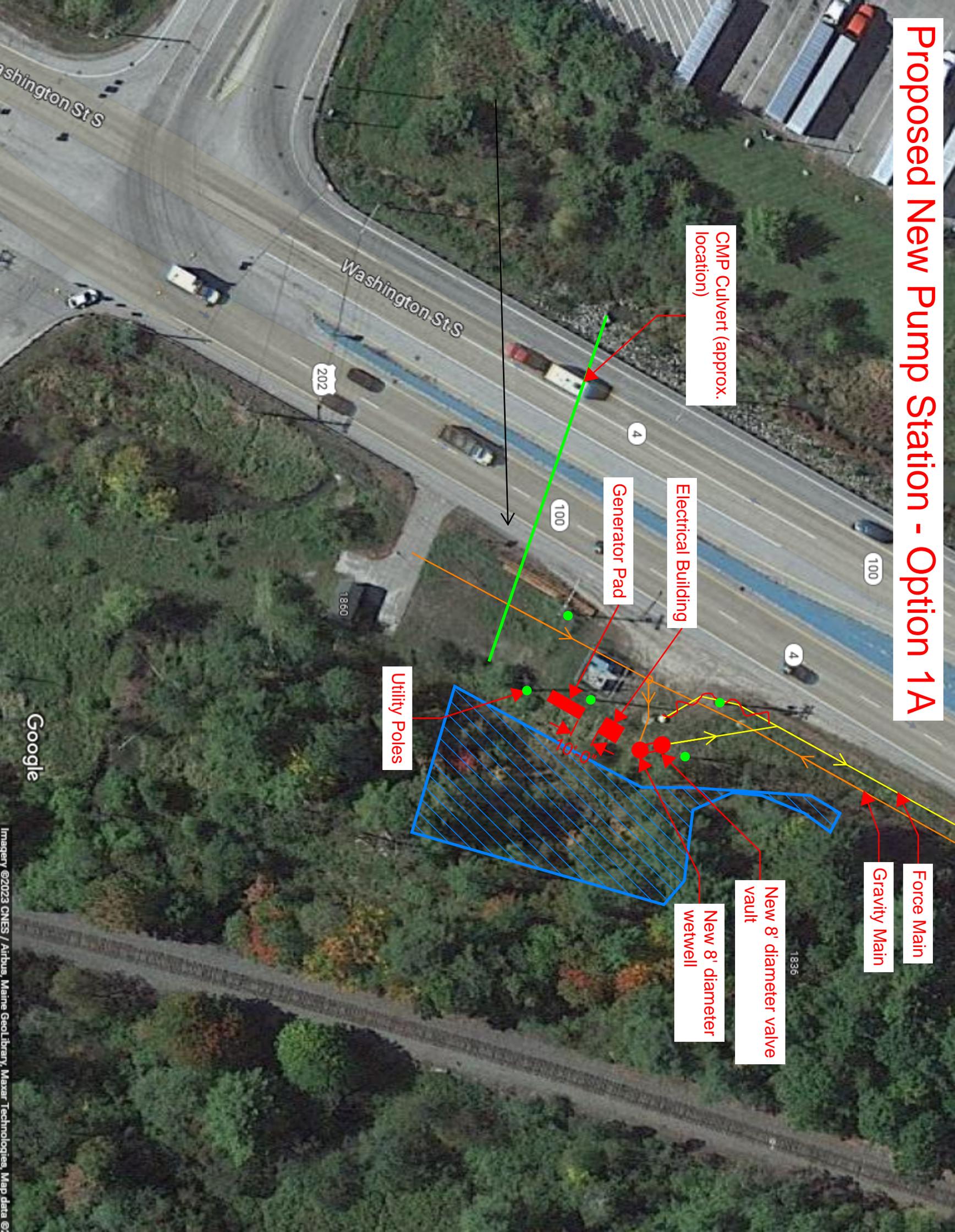
Current Conditions



Google

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Proposed New Pump Station - Option 1A



CMP Culvert (approx. location)

Electrical Building

Generator Pad

Utility Poles

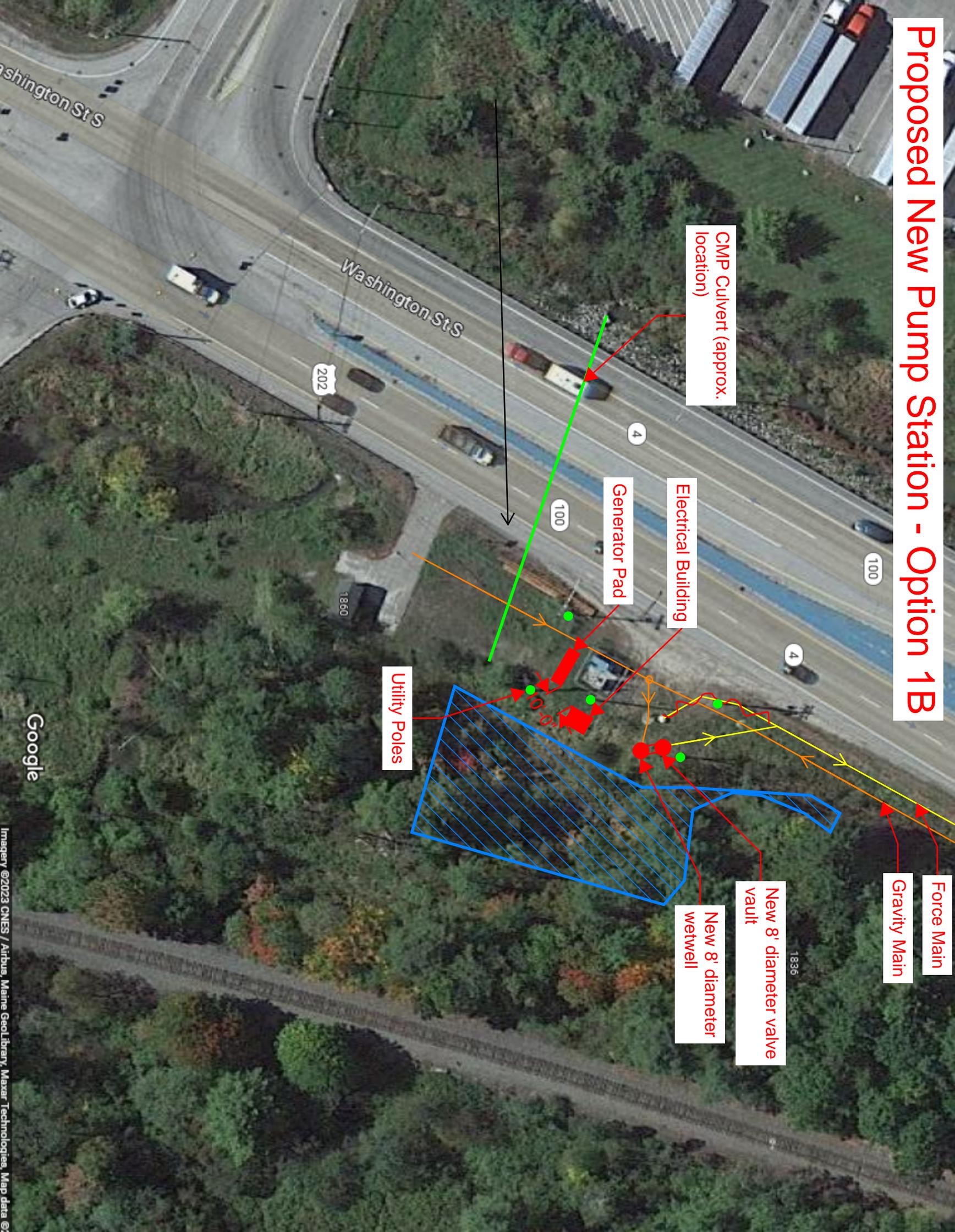
Force Main

Gravity Main

New 8' diameter valve vault

New 8' diameter wetwell

Proposed New Pump Station - Option 1B



CMP Culvert (approx. location)

Electrical Building

Generator Pad

Utility Poles

New 8' diameter valve vault

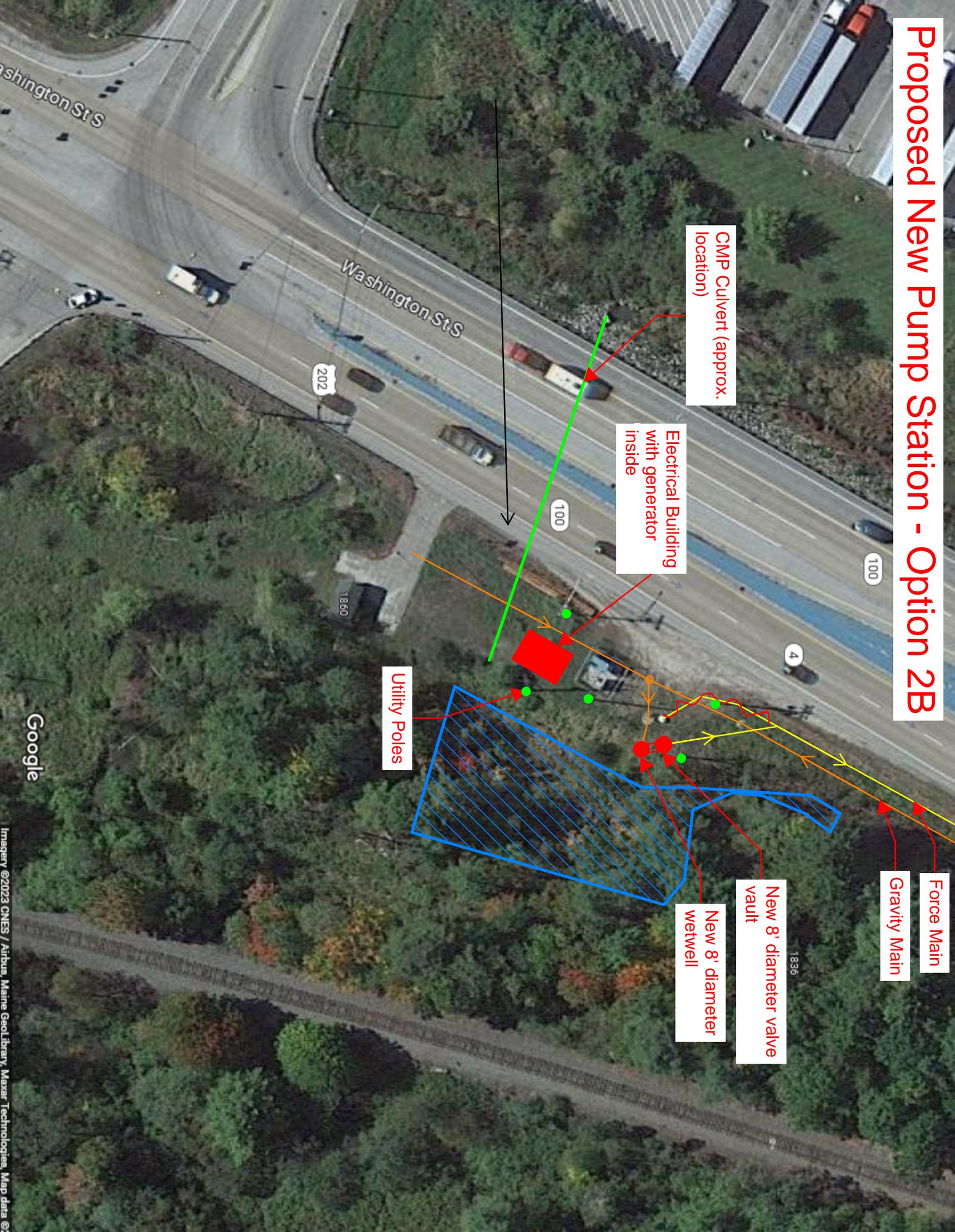
New 8' diameter wetwell

Force Main

Gravity Main

Google

Proposed New Pump Station - Option 2B



CMP Culvert (approx. location)

Electrical Building with generator inside

Utility Poles

Force Main
Gravity Main

New 8' diameter valve vault

New 8' diameter wetwell

Google

