

YOW ARE WE DOING IT?



Engineering –
Project Updates 2021-02-23



Public Works - General

Asset Management

**Districting Operations** 

Engineering

Fleet Management

Portland Downtown District

Trash and Recycling Collection

**Transportation Operations** 

Winter Operations

Water Resources

Public Works – Water Resources

Asset Management

**CCTV** of Sewers/ Storm Drain

Fats, Oils and Greases

Engineering

Green Infrastructure Programs

I/I, Sewer, Storm Investigations

**Pump Station Operations** 

Sewer Operations and Maintenance

Sewer Rehabilitation

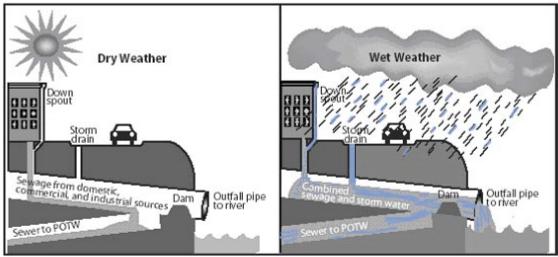
Stormwater Programs

Watershed Management

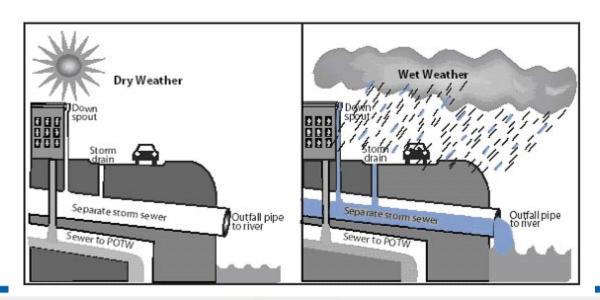


COMBINED SEWER
OVERFLOW (CSO)
DRY VS WET WEATHER

SINGLE PIPE-COMBINED SYSTEM



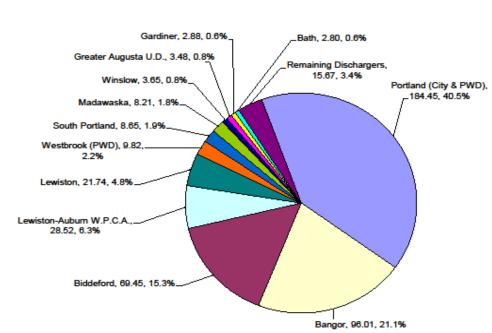
SEPARATE SEWER AND STORM DRAIN





### Maine 2019 CSO Flow Comparison 31 CSO Communities – 0.46 Billion Gallons





Five Communities without CSO Discharge in 2019: Bucksport Kennebec S.T.D. Paris U.D. Rookland Winterport S.D.

Remaining 15 Dischargers (Million Gallons, Percent of Total):

Bar Harbor, 2.76, 0.6% Saco, 2.88, 0.6% Calais, 2.40, 0.5% Hampden, 1.93, 0.4% Skowhegan, 1.71, 0.4% Auburn S.D., 1.00, 0.2% Brewer, 0.87, 0.2% Orono, 0.70, 0.2% Mechanic Falls S.D., 0.62, 0.1% Cape Elizabeth, 0.43, 0.1% Belfast, 0.33, 0.1% Machias, 0.15, 0.0% Old Town, 0.06, 0.0% Milford, 0.03, 0.0% Randolph, 0.004, 0.0% Given the outsized impact that
Portland's CSO discharge contribution
has on the State's total discharge
volume, it may be informative to
exclude Portland's data when
examining Maine's overall CSO
abatement progress. From 2018 to
2019, Portland's CSO discharge
volume decreased by 35% from 283.6
MG to 184.5 MG. The overflow
volume from the remaining thirty CSO
Communities increased by 27.8% from
211.9 million gallons in 2018, to 270.9
million gallons in 2019.

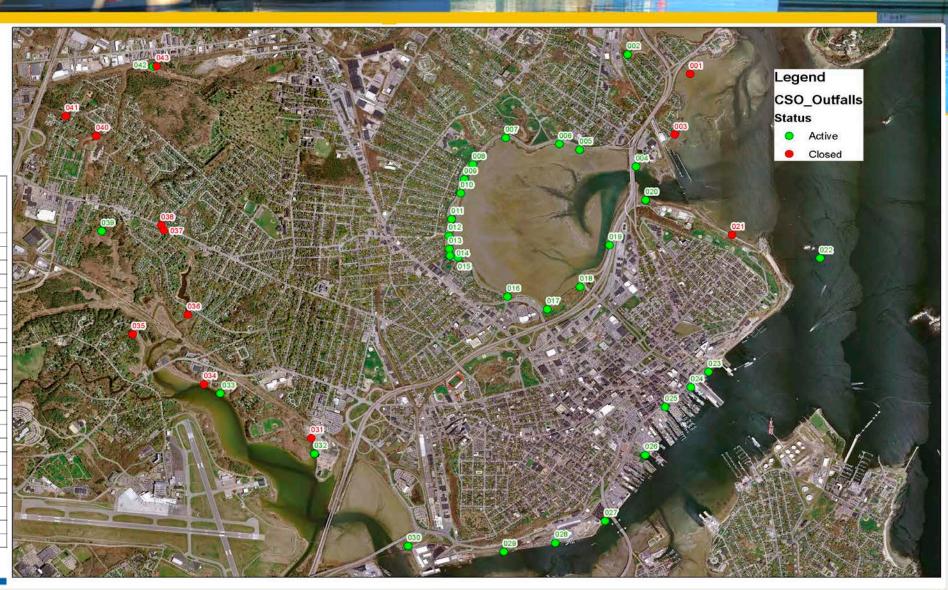
PORTLAND, ME

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



ALICE O

	YEARLY TOTAL PRECIP (INCHES)	YEARLY TOTAL CSO (GALLONS)
1966	40.0	719,800,000
1998	52.1	1,788,201,000
1999	33.3	740,737,000
2000	34.5	993,511,000
2001	29.5	807,157,162
2002	40.1	1,246,773,000
2003	40.7	454,680,000
2004	39.3	607,351,945
2005	66.2	1,296,310,464
2006	59.9	1,609,281,586
2007	41.6	589,203,712
2008	61.0	883,105,087
2009	61.0	872,751,281
2010	56.1	780,188,153
2011	56.2	496,288,000
2012	51.9	704,319,255
2013	43.6	191,949,901
2014	51.0	414,421,500
2015	39.8	254,663,330
2016	43.9	318,359,690
2017	40.3	175,675,000
2018	45.3	283,612,831
2019	50.9	184,453,600



#### CSO HISTORIC ACTIVITY AND VOLUMES

TOTAL CHIEFA ACCIDA SERVICK BROCE BANCALST CHIEFA COLORS MACHINERY COMMON VANARY POSEST AND REPORT ACCIDENT MACHINERY COMMON AT ST. AT LONG WARTS MACHINERY COMMON ST. AT LONG WARTS MACHINERY CONTROL ST. AT LONG	AT SCHARL POINT P.S. P.S. STREET ROAD OWERLOW AVENUE AVENUE AVE. VICT. AVE. 10 OWERLOW AVENUE AVENUE AVE. 10 OWERLOW AVENUE
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284 N.S.	40,305   10,505   10,711   57,427/W   10,002   23,003,002   201,012   207,214-95   203   303   403   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,004-95   403,00
	76,501   2035   2035   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025   2025
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207 41:0 2,000 13,07,000 4,041,00 43,000,00 73,000 73,000 73,000 1044,000 1044,000 1045,000 1045,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1044,000 1	24/50   1500,00   3640   0,0520   1441500   M300   27/11500   1/0500   1/0500   1/0500   20/21702   207
	Title   Million   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   4200   420
266 913	
20 941   379   7400 100 100 100 100 100 100 100 100 100	110377 1166030 2006 10774007 \$29700 777000 13050 76180 201 991 122540,50 7618103 6134 4254000 934 048 128 028 148 128 028 148 128 028 148 128 028 148 128 028 148 128 028 148 128 028 148 128 028 148 148 128 028 148 148 148 148 148 148 148 148 148 14
271   92   6   6   646(00	43-60   \$5-56.00   12/20   0,000   3,044,000   35-56.00   14/20   0,000   27/1   95/2   10,560.00   46/20.00   54/5   33/14/20   45/5   15/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5   12/5
22   914	
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Nate:

1 Yorky field Propipation does not equal CIO starm told prospitation (all bottom of the MOEP spreaddwed) -reporting armust can told and CIO contributing saleful told.

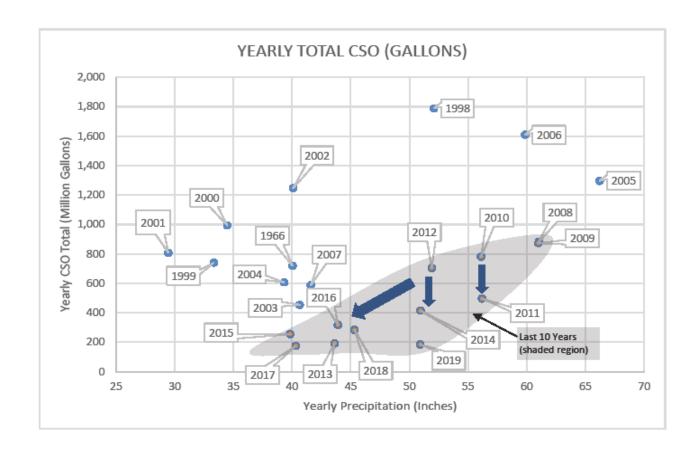
2 Your before case for specific are exists.

3 Result faller to be All Results of Profitation.



# HISTORIC CSO VOLUME VERSUS PRECIPITATION PORTLAND, MAINE

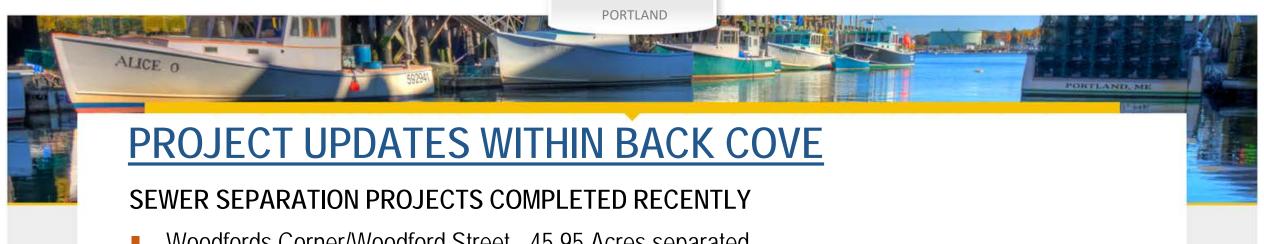
	YEARLY TOTAL PRECIP (INCHES)	YEARLY TOTAL CSO (GALLONS)						
1966	40.0	719,800,000						
1998	52.1	1,788,201,000						
1999	33.3	740,737,000						
2000	34.5	993,511,000						
2001	29.5	807,157,162						
2002	40.1	1,246,773,000						
2003	40.7	454,680,000						
2004	39.3	607,351,945						
2005	66.2	1,296,310,464						
2006	59.9	1,609,281,586						
2007	41.6	589,203,712						
2008	61.0	883,105,087						
2009	61.0	872,751,281						
2010	56.1	780,188,153						
2011	56.2	496,288,000						
2012	51.9	704,319,255						
2013	43.6	191,949,901						
2014	51.0	414,421,500						
2015	39.8	254,663,330						
2016	43.9	318,359,690						
2017	40.3	175,675,000						
2018	45.3	283,612,831						
2019	50.9	184,453,600						



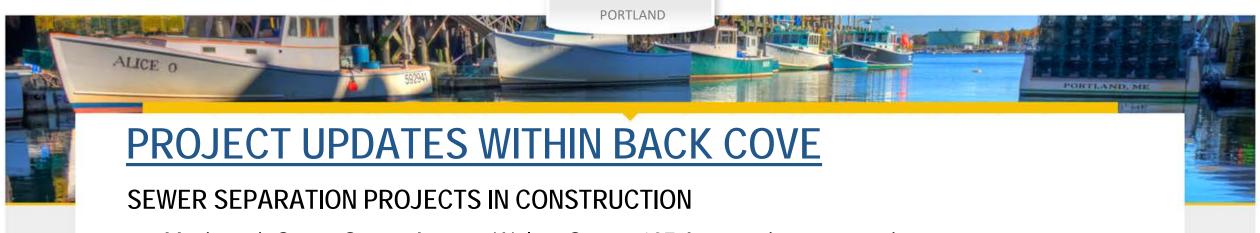




RECEIV	ING WATER		<b>*</b>						BACK COVE	2 2							
	YEARLY TOTAL PREC.	RANDALL ST. (WASH AVE)	JOHANSEN STREET	OCEAN AVE EAST SIDE INT.	CLIFTON STREET	GEORGE STREET	MACKWORTH STREET	CODMAN STREET	VANNAH STREET	FOREST AVE AT BELMONT		DARTMOUTH AT BAXTER	BANK ST. BEDFORD ST.	PREBLE ST. AT MARGINAL	FRANKLIN ST. AT MARGINAL	ANDERSON AT FOX	
		NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	NUMBER:	OVERFLOW
YEAR	INCHES	CSO 005	CSO 006	CSO 007	CSO 008	CSO 009	CSO 010	CSO 011	CSO 012	CSO 013	CSO 014	CSO 015	CSO 016	CSO 017	CSO 018	CSO 019	GALLONS
1966	40.04	100,000,000	1,600,000	100,000,000	4,100,000		8,200,000	600,000	26,000,000	4,600,000		400,000	14,000,000	110,000,000	46,000,000	200,000	719,600,000
		13.90%	0.22%	13.90%	0.57%		1.14%	0.08%	3.61%	0.64%		0.06%	1.95%	15.29%	6.39%	0.03%	100%
1998	52.07	78,907,000	3,531,000	458,452,000	3,111,000	300,000	86,456,000	1,650,000	69,000,000	14,816,000	230,000	8,300,000	44,393,000	211,662,000	79,886,000	2,656,000	1,786,114,000
		4.42%	0.20%	25.67%	0.17%	0.02%	4.84%	0.09%	3.86%	0.83%	0.01%	0.46%	2.49%	11.85%	4.47%	0.15%	100%
2015	39.84	7,081,000	5,989,270	13,400,000	0	3,130	7,075,000	637,290	3,011,500	6,277,000	834,100	9,923,500	3,328,600	68,470,100	29,870,600	591,000	254,663,330
,		2.78%	2.35%	5.26%		0.00%	2.78%	0.25%	1.18%	2.46%	0.33%	3.90%	1.31%	26.89%	11.73%	0.23%	100%
2016	43.92	6,897,000	135,990	12,373,000			9,580,000		4,125,000	5,215,000	360,000	9,826,000	3,363,000	122,751,700	34,240,000		318,359,690
		2.17%	0.04%	3.89%		7	3.01%	7	1.30%	1.64%	0.11%	3.09%	1.06%	38.56%	10.76%		100%
2017	40.33	4,635,000	42.000	9,763,000			17.971.000		4,819,000	3.293,000	215,000	5,249,000	2,374,000	66,693,000	20,235,000	209,000	175,675,000
		2.64%	0.02%	5.56%		9	10.23%	,	2.74%	1.87%	0.12%	2.99%	1.35%	37.96%	11.52%	0.12%	100%
2018	45.33	10,113,000	22,000	11,128,000			47,704,000		5,350,000	3,743,000	189,500	8,102,400	2,441,200	107,433,000	30,509,000		283,612,831
		3.57%	0.01%	3.92%			16.82%		1.89%	1.32%	0.07%	2.86%	0.86%	37.88%	10.76%		100%
2019	50.94	8,609,000	380,800	16,630,000			17,920,000		7,014,000	4,462,200	94,500	9,188,600	1,864,600	55,536,000	17,567,000		184,453,600
		4.67%	0.21%	9.02%		7	9.72%	7	3.80%	2.42%	0.05%	4.98%	1.01%	30.11%	9.52%	<del>1</del> 00	100%
							9.72%		76%	11%				41%			



- Woodfords Corner/Woodford Street 45.95 Acres separated
- Bedford Street 39.11 Acres separated & includes Green Infrastructure
- USM Roundabout Sewer Separation 15.81 Acres separated
- Preble Street 36.5 Acres separated
- Madison-Washington-Walnut 16.5 Acres separated



- Mackworth Street-Ocean Avenue-Walton Street- 127 Acres to be separated & includes Green Infrastructure resulting in the closure of CSO 10
- Back Cove South Storage Facility 3.5 MG storage tank
- Back Cove West Storage Conduit 2.25 MG storage conduit
- Dartmouth Street 55.73 Acres to be separated & includes Green Infrastructure
- Sewer Rehabilitation by CIPP



**A**ECOM







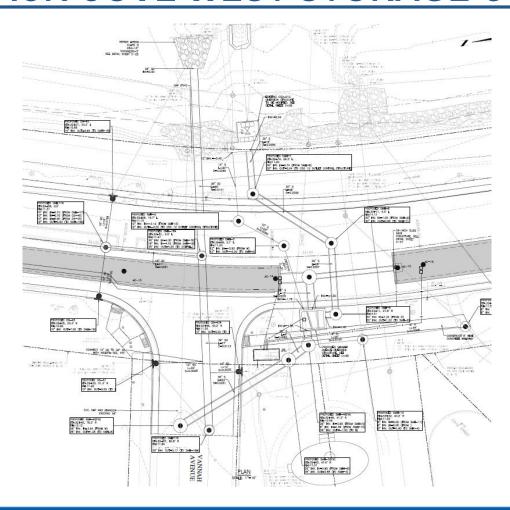






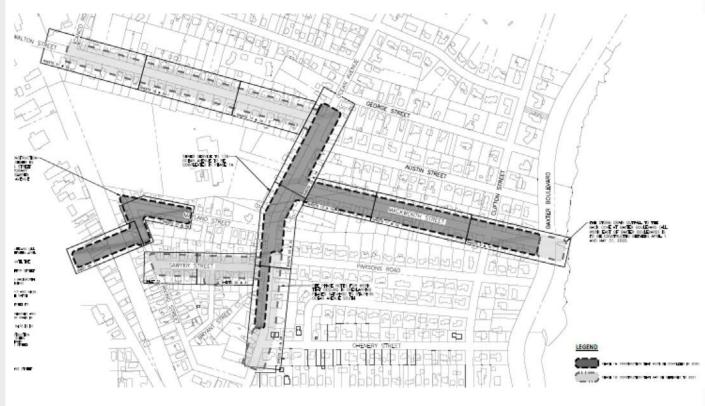














City of Portland, Maine Depart of Public Works

### MACKWORTH LOCATION MAP

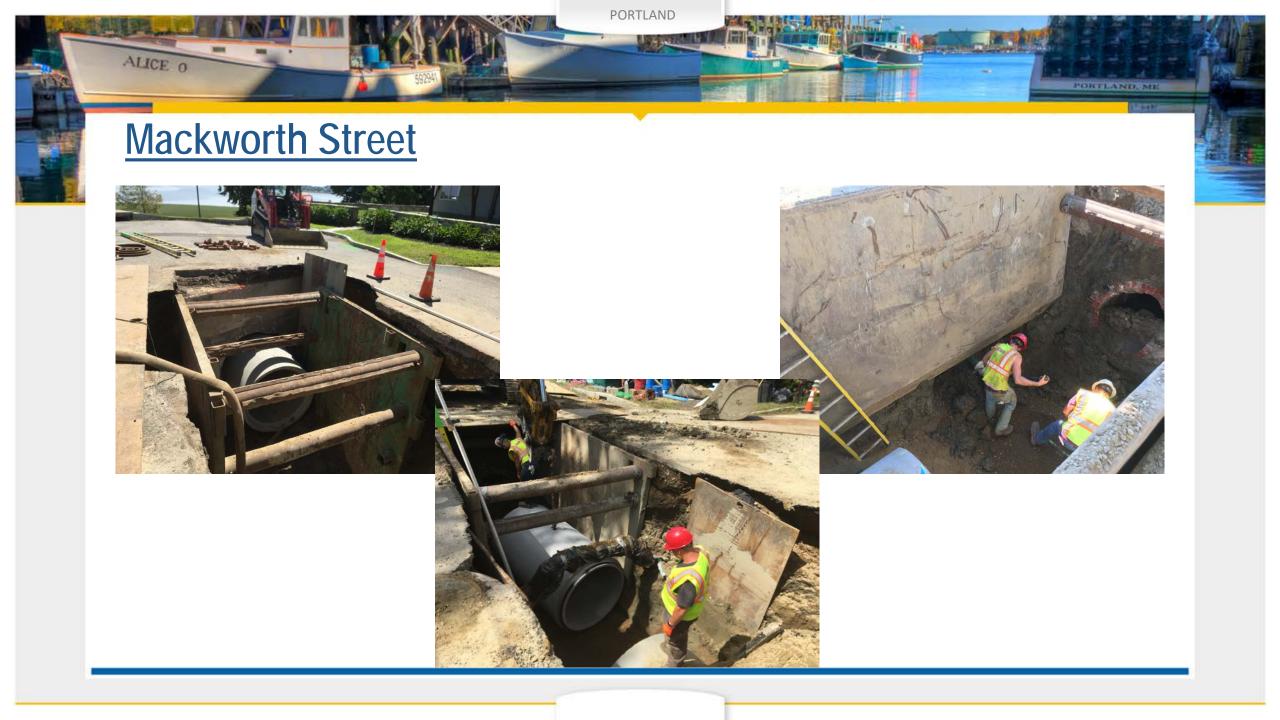


CSO SEPARATION PROJECT PHASE 1 PORTLAND, ME











## **SEWER SEPARATION PROJECTS IN DESIGN**

Vanna- Hersey/ Codman to Irving

ALICE O

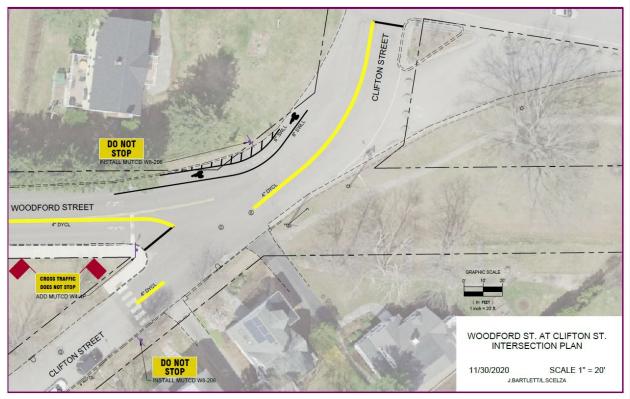
Franklin Street – Marginal Way to Congress







- TRANSFORTATION FROJECTS
- Vanna and Clifton Intersection Re-configuration
- Striping in Spring
- Funding for design/ construction





HOW ARE WE DOING IT?

