Prepared by PFM Financial Advisors LLC

Massachusetts Water Clean Water Trust
Series 25 Swap
HAVERHILL Reamortization
CWP-21-40

		Loan Origination Fee ($0.00/1000)	0.00
Original Loan Amount	8,187,035.00	Loan Term (in years)	20
Loan Forgiveness*	(992,217.00)	Loan Rate	1.50%
Unused Principal Amount	(1,441,702.00)	Closing Date	11/21/2023
Net New Loan Obligation	5,753,116.00	Reamortization Date	11/21/2025
		First Interest	7/15/2024
		First Principal	1/15/2025

Date	Principal	Interest	Total Payments	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
11/21/2023							
7/15/2024		70,149.48	70,149.48	7,014.95		77,164.42	
1/15/2025	306,160.00	53,961.14	360,121.14	5,396.11		365,517.25	442,681.67
7/15/2025		51,664.94	51,664.94	5,166.49		56,831.43	
1/15/2026	246,112.83	48,421.11	294,533.94	4,842.11		299,376.05	356,207.48
7/15/2026		39,006.32	39,006.32	3,900.63		42,906.96	
1/15/2027	250,207.06	39,006.32	289,213.39	3,900.63		293,114.02	336,020.98
7/15/2027		37,129.77	37,129.77	3,712.98		40,842.75	
1/15/2028	254,370.26	37,129.77	291,500.03	3,712.98		295,213.01	336,055.76
7/15/2028		35,221.99	35,221.99	3,522.20		38,744.19	
1/15/2029	258,602.13	35,221.99	293,824.12	3,522.20		297,346.32	336,090.52
7/15/2029		33,282.48	33,282.48	3,328.25		36,610.73	
1/15/2030	262,904.36	33,282.48	296,186.84	3,328.25		299,515.09	336,125.81
7/15/2030		31,310.70	31,310.70	3,131.07		34,441.76	
1/15/2031	267,278.65	31,310.70	298,589.34	3,131.07		301,720.41	336,162.18
7/15/2031		29,306.11	29,306.11	2,930.61		32,236.72	
1/15/2032	271,725.67	29,306.11	301,031.78	2,930.61		303,962.39	336,199.10
7/15/2032		27,268.16	27,268.16	2,726.82		29,994.98	
1/15/2033	276,246.12	27,268.16	303,514.28	2,726.82		306,241.09	336,236.07
7/15/2033		25,196.32	25,196.32	2,519.63		27,715.95	
1/15/2034	280,841.65	25,196.32	306,037.97	2,519.63		308,557.60	336,273.55
7/15/2034		23,090.00	23,090.00	2,309.00		25,399.00	
1/15/2035	285,513.95	23,090.00	308,603.95	2,309.00		310,912.95	336,311.96
7/15/2035		20,948.65	20,948.65	2,094.86		23,043.51	
1/15/2036	290,264.67	20,948.65	311,213.32	2,094.86		313,308.18	336,351.70
7/15/2036		18,771.66	18,771.66	1,877.17		20,648.83	
1/15/2037	295,093.47	18,771.66	313,865.14	1,877.17		315,742.30	336,391.14
7/15/2037		16,558.46	16,558.46	1,655.85		18,214.31	
1/15/2038	300,003.01	16,558.46	316,561.48	1,655.85		318,217.32	336,431.63
7/15/2038		14,308.44	14,308.44	1,430.84		15,739.29	
1/15/2039	304,994.93	14,308.44	319,303.37	1,430.84		320,734.22	336,473.50
7/15/2039		12,020.98	12,020.98	1,202.10		13,223.08	
1/15/2040	310,068.87	12,020.98	322,089.85	1,202.10		323,291.95	336,515.02
7/15/2040		9,695.46	9,695.46	969.55		10,665.01	
1/15/2041	315,227.46	9,695.46	324,922.93	969.55		325,892.47	336,557.48
7/15/2041		7,331.26	7,331.26	733.13		8,064.38	
1/15/2042	320,472.34	7,331.26	327,803.60	733.13		328,536.72	336,601.11
7/15/2042		4,927.71	4,927.71	492.77		5,420.49	
1/15/2043	325,804.13	4,927.71	330,731.84	492.77		331,224.61	336,645.10
7/15/2043		2,484.18	2,484.18	248.42		2,732.60	
1/15/2044	331,224.43	2,484.18	333,708.61	248.42		333,957.03	336,689.63
7/15/2044							
	5,753,116.00	999,913.98	6,753,029.98	99,991.40		6,853,021.38	6,853,021.38

Notes:

*This project qualifies for loan forgiveness in accordance with Schedule B to the Financing Agreement

This Schedule Has Been Replaced Following Re-Amortization on November 21, 2025

Prepared by PFM Financial Advisors LLC

Massachusetts Clean Water Trust
Series 25
Haverhill Loan Amortization
CWP-21-40

Loan Amount Approved	8,187,035.00	Loan Origination Fee ($0.00/1000)	0.00
Loan Forgiveness*	992,217.00	Loan Term (in years)	20
		Loan Rate	1.50%
Amount to be Financed	7,194,818.00	Closing Date	11/21/2023
		First Interest Payment	7/15/2024
		First Principal Payment	1/15/2025

Date	Principal	Interest	Total Payments	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
11/21/2023							
7/15/2024		70,149.48	70,149.48	7,014.95		77,164.42	
1/15/2025	306,160.00	53,961.14	360,121.14	5,396.11		365,517.25	442,681.67
7/15/2025		51,664.94	51,664.94	5,166.49		56,831.43	
1/15/2026	311,254.00	51,664.94	362,918.94	5,166.49		368,085.43	424,916.86
7/15/2026		49,330.53	49,330.53	4,933.05		54,263.58	
1/15/2027	316,432.00	49,330.53	365,762.53	4,933.05		370,695.58	424,959.17
7/15/2027		46,957.29	46,957.29	4,695.73		51,653.02	
1/15/2028	321,697.00	46,957.29	368,654.29	4,695.73		373,350.02	425,003.04
7/15/2028		44,544.56	44,544.56	4,454.46		48,999.02	
1/15/2029	327,049.00	44,544.56	371,593.56	4,454.46		376,048.02	425,047.04
7/15/2029		42,091.70	42,091.70	4,209.17		46,300.86	
1/15/2030	332,490.00	42,091.70	374,581.70	4,209.17		378,790.86	425,091.73
7/15/2030		39,598.02	39,598.02	3,959.80		43,557.82	
1/15/2031	338,022.00	39,598.02	377,620.02	3,959.80		381,579.82	425,137.64
7/15/2031		37,062.86	37,062.86	3,706.29		40,769.14	
1/15/2032	343,646.00	37,062.86	380,708.86	3,706.29		384,415.14	425,184.28
7/15/2032		34,485.51	34,485.51	3,448.55		37,934.06	
1/15/2033	349,363.00	34,485.51	383,848.51	3,448.55		387,297.06	425,231.12
7/15/2033		31,865.29	31,865.29	3,186.53		35,051.82	
1/15/2034	355,175.00	31,865.29	387,040.29	3,186.53		390,226.82	425,278.63
7/15/2034		29,201.48	29,201.48	2,920.15		32,121.62	
1/15/2035	361,084.00	29,201.48	390,285.48	2,920.15		393,205.62	425,327.25
7/15/2035		26,493.35	26,493.35	2,649.33		29,142.68	
1/15/2036	367,092.00	26,493.35	393,585.35	2,649.33		396,234.68	425,377.36
7/15/2036		23,740.16	23,740.16	2,374.02		26,114.17	
1/15/2037	373,199.00	23,740.16	396,939.16	2,374.02		399,313.17	425,427.34
7/15/2037		20,941.16	20,941.16	2,094.12		23,035.28	
1/15/2038	379,408.00	20,941.16	400,349.16	2,094.12		402,443.28	425,478.56
7/15/2038		18,095.60	18,095.60	1,809.56		19,905.16	
1/15/2039	385,721.00	18,095.60	403,816.60	1,809.56		405,626.16	425,531.33
7/15/2039		15,202.70	15,202.70	1,520.27		16,722.96	
1/15/2040	392,138.00	15,202.70	407,340.70	1,520.27		408,860.96	425,583.93
7/15/2040		12,261.66	12,261.66	1,226.17		13,487.83	
1/15/2041	398,662.00	12,261.66	410,923.66	1,226.17		412,149.83	425,637.65
7/15/2041		9,271.70	9,271.70	927.17		10,198.86	
1/15/2042	405,295.00	9,271.70	414,566.70	927.17		415,493.86	425,692.73
7/15/2042		6,231.98	6,231.98	623.20		6,855.18	
1/15/2043	412,038.00	6,231.98	418,269.98	623.20		418,893.18	425,748.36
7/15/2043		3,141.70	3,141.70	314.17		3,455.87	
1/15/2044	418,893.00	3,141.70	422,034.70	314.17		422,348.87	425,804.73
7/15/2044							
	7,194,818.00	1,208,474.92	8,403,292.92	120,847.49		8,524,140.41	8,524,140.41

Notes:

*This project qualifies for loan forgiveness in accordance with Schedule B to the Financing Agreement

Massachusetts Clean Water Trust
Series 25
Haverhill Loan Amortization
CWP-21-40-A

Loan Amount Approved	753,965.00	Loan Origination Fee ($0.00/1000)	0.00
		Loan Term (in years)	20
		Loan Rate	1.50%
Amount to be Financed	753,965.00	Closing Date	11/21/2023
		First Interest Payment	7/15/2024
		First Principal Payment	1/15/2025

Date	Principal	Interest	Total Payments	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
11/21/2023							
7/15/2024		7,351.16	7,351.16	735.12		8,086.27	
1/15/2025	32,083.00	5,654.74	37,737.74	565.47		38,303.21	46,389.49
7/15/2025		5,414.12	5,414.12	541.41		5,955.53	
1/15/2026	32,617.00	5,414.12	38,031.12	541.41		38,572.53	44,528.05
7/15/2026		5,169.49	5,169.49	516.95		5,686.44	
1/15/2027	33,160.00	5,169.49	38,329.49	516.95		38,846.44	44,532.87
7/15/2027		4,920.79	4,920.79	492.08		5,412.87	
1/15/2028	33,711.00	4,920.79	38,631.79	492.08		39,123.87	44,536.73
7/15/2028		4,667.96	4,667.96	466.80		5,134.75	
1/15/2029	34,272.00	4,667.96	38,939.96	466.80		39,406.75	44,541.50
7/15/2029		4,410.92	4,410.92	441.09		4,852.01	
1/15/2030	34,842.00	4,410.92	39,252.92	441.09		39,694.01	44,546.01
7/15/2030		4,149.60	4,149.60	414.96		4,564.56	
1/15/2031	35,422.00	4,149.60	39,571.60	414.96		39,986.56	44,551.12
7/15/2031		3,883.94	3,883.94	388.39		4,272.33	
1/15/2032	36,012.00	3,883.94	39,895.94	388.39		40,284.33	44,556.66
7/15/2032		3,613.85	3,613.85	361.38		3,975.23	
1/15/2033	36,611.00	3,613.85	40,224.85	361.38		40,586.23	44,561.46
7/15/2033		3,339.26	3,339.26	333.93		3,673.19	
1/15/2034	37,220.00	3,339.26	40,559.26	333.93		40,893.19	44,566.38
7/15/2034		3,060.11	3,060.11	306.01		3,366.12	
1/15/2035	37,839.00	3,060.11	40,899.11	306.01		41,205.12	44,571.25
7/15/2035		2,776.32	2,776.32	277.63		3,053.95	
1/15/2036	38,469.00	2,776.32	41,245.32	277.63		41,522.95	44,576.90
7/15/2036		2,487.80	2,487.80	248.78		2,736.58	
1/15/2037	39,109.00	2,487.80	41,596.80	248.78		41,845.58	44,582.17
7/15/2037		2,194.49	2,194.49	219.45		2,413.93	
1/15/2038	39,759.00	2,194.49	41,953.49	219.45		42,172.93	44,586.87
7/15/2038		1,896.29	1,896.29	189.63		2,085.92	
1/15/2039	40,421.00	1,896.29	42,317.29	189.63		42,506.92	44,592.84
7/15/2039		1,593.14	1,593.14	159.31		1,752.45	
1/15/2040	41,093.00	1,593.14	42,686.14	159.31		42,845.45	44,597.90
7/15/2040		1,284.94	1,284.94	128.49		1,413.43	
1/15/2041	41,777.00	1,284.94	43,061.94	128.49		43,190.43	44,603.86
7/15/2041		971.61	971.61	97.16		1,068.77	
1/15/2042	42,472.00	971.61	43,443.61	97.16		43,540.77	44,609.54
7/15/2042		653.07	653.07	65.31		718.38	
1/15/2043	43,179.00	653.07	43,832.07	65.31		43,897.38	44,615.75
7/15/2043		329.23	329.23	32.92		362.15	
1/15/2044	43,897.00	329.23	44,226.23	32.92		44,259.15	44,621.30
7/15/2044							
	753,965.00	126,639.69	880,604.69	12,663.97		893,268.65	893,268.65

Massachusetts Clean Water Trust
Series 26
Haverhill Loan Amortization
DWP-21-15

Loan Amount Approved	7,362,750.00	Loan Origination Fee ($0.00/1000)	0.00
Loan Forgiveness*	1,588,893.00	Loan Term (in years)	20
		Loan Rate	1.50%
Amount to be Financed	5,773,857.00	Closing Date	2/6/2025
		First Interest Payment	7/15/2025
		First Principal Payment	1/15/2026

Date	Principal	Interest	Total Payments	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
2/6/2025							
7/15/2025		38,251.80	38,251.80	3,825.18		42,076.98	
1/15/2026	245,694.00	43,303.93	288,997.93	4,330.39		293,328.32	335,405.30
7/15/2026		41,461.22	41,461.22	4,146.12		45,607.34	
1/15/2027	249,782.00	41,461.22	291,243.22	4,146.12		295,389.34	340,996.69
7/15/2027		39,587.86	39,587.86	3,958.79		43,546.64	
1/15/2028	253,938.00	39,587.86	293,525.86	3,958.79		297,484.64	341,031.29
7/15/2028		37,683.32	37,683.32	3,768.33		41,451.65	
1/15/2029	258,162.00	37,683.32	295,845.32	3,768.33		299,613.65	341,065.31
7/15/2029		35,747.11	35,747.11	3,574.71		39,321.82	
1/15/2030	262,457.00	35,747.11	298,204.11	3,574.71		301,778.82	341,100.64
7/15/2030		33,778.68	33,778.68	3,377.87		37,156.55	
1/15/2031	266,824.00	33,778.68	300,602.68	3,377.87		303,980.55	341,137.10
7/15/2031		31,777.50	31,777.50	3,177.75		34,955.25	
1/15/2032	271,263.00	31,777.50	303,040.50	3,177.75		306,218.25	341,173.50
7/15/2032		29,743.03	29,743.03	2,974.30		32,717.33	
1/15/2033	275,776.00	29,743.03	305,519.03	2,974.30		308,493.33	341,210.66
7/15/2033		27,674.71	27,674.71	2,767.47		30,442.18	
1/15/2034	280,365.00	27,674.71	308,039.71	2,767.47		310,807.18	341,249.36
7/15/2034		25,571.97	25,571.97	2,557.20		28,129.17	
1/15/2035	285,029.00	25,571.97	310,600.97	2,557.20		313,158.17	341,287.33
7/15/2035		23,434.25	23,434.25	2,343.43		25,777.68	
1/15/2036	289,771.00	23,434.25	313,205.25	2,343.43		315,548.68	341,326.36
7/15/2036		21,260.97	21,260.97	2,126.10		23,387.07	
1/15/2037	294,592.00	21,260.97	315,852.97	2,126.10		317,979.07	341,366.13
7/15/2037		19,051.53	19,051.53	1,905.15		20,956.68	
1/15/2038	299,493.00	19,051.53	318,544.53	1,905.15		320,449.68	341,406.37
7/15/2038		16,805.33	16,805.33	1,680.53		18,485.87	
1/15/2039	304,476.00	16,805.33	321,281.33	1,680.53		322,961.87	341,447.73
7/15/2039		14,521.76	14,521.76	1,452.18		15,973.94	
1/15/2040	309,542.00	14,521.76	324,063.76	1,452.18		325,515.94	341,489.88
7/15/2040		12,200.20	12,200.20	1,220.02		13,420.22	
1/15/2041	314,692.00	12,200.20	326,892.20	1,220.02		328,112.22	341,532.43
7/15/2041		9,840.01	9,840.01	984.00		10,824.01	
1/15/2042	319,927.00	9,840.01	329,767.01	984.00		330,751.01	341,575.02
7/15/2042		7,440.56	7,440.56	744.06		8,184.61	
1/15/2043	325,250.00	7,440.56	332,690.56	744.06		333,434.61	341,619.22
7/15/2043		5,001.18	5,001.18	500.12		5,501.30	
1/15/2044	330,661.00	5,001.18	335,662.18	500.12		336,162.30	341,663.60
7/15/2044		2,521.22	2,521.22	252.12		2,773.34	
1/15/2045	336,163.00	2,521.22	338,684.22	252.12		338,936.34	341,709.69
7/15/2045							
	5,773,857.00	951,760.54	6,725,617.54	95,176.05		6,820,793.59	6,820,793.59

Notes:

*This project qualifies for loan forgiveness in accordance with Schedule B to the Financing Agreement

Massachusetts Water Clean Water Trust
Series 23 Swap
HAVERHILL Reamortization
CW-19-12

Original Loan Amount	1,534,800.00	Loan Origination Fee ($0.00/1000)	0.00
Principal Forgiveness	-	Loan Term (in years)	18
Principal Paid Down	131,707.00	Loan Rate	1.50%
Outstanding Loan Obligation	1,403,093.00	Closing Date	5/10/2023
Remaining Balance	(261,955.00)	First Payment	7/15/2023
Net New Loan Obligation	1,141,138.00		

Date	Principal	Interest	Total Payments	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
5/10/2023							
7/15/2023		9,813.74	9,813.74	981.37		10,795.11	
1/15/2024	54,898.61	8,558.54	63,457.15	855.85		64,313.00	75,108.11
7/15/2024		8,146.80	8,146.80	814.68		8,961.47	
1/15/2025	55,811.94	8,146.80	63,958.74	814.68		64,773.42	73,734.89
7/15/2025		7,728.21	7,728.21	772.82		8,501.03	
1/15/2026	56,740.79	7,728.21	64,468.99	772.82		65,241.81	73,742.84
7/15/2026		7,302.65	7,302.65	730.26		8,032.91	
1/15/2027	57,685.08	7,302.65	64,987.73	730.26		65,718.00	73,750.91
7/15/2027		6,870.01	6,870.01	687.00		7,557.01	
1/15/2028	58,644.77	6,870.01	65,514.78	687.00		66,201.79	73,758.80
7/15/2028		6,430.18	6,430.18	643.02		7,073.19	
1/15/2029	59,620.80	6,430.18	66,050.97	643.02		66,693.99	73,767.19
7/15/2029		5,983.02	5,983.02	598.30		6,581.32	
1/15/2030	60,612.10	5,983.02	66,595.12	598.30		67,193.42	73,774.74
7/15/2030		5,528.43	5,528.43	552.84		6,081.27	
1/15/2031	61,620.61	5,528.43	67,149.04	552.84		67,701.88	73,783.15
7/15/2031		5,066.27	5,066.27	506.63		5,572.90	
1/15/2032	62,646.27	5,066.27	67,712.54	506.63		68,219.17	73,792.07
7/15/2032		4,596.43	4,596.43	459.64		5,056.07	
1/15/2033	63,688.01	4,596.43	68,284.44	459.64		68,744.08	73,800.15
7/15/2033		4,118.77	4,118.77	411.88		4,530.64	
1/15/2034	64,747.78	4,118.77	68,866.54	411.88		69,278.42	73,809.06
7/15/2034		3,633.16	3,633.16	363.32		3,996.48	
1/15/2035	65,824.49	3,633.16	69,457.65	363.32		69,820.97	73,817.44
7/15/2035		3,139.48	3,139.48	313.95		3,453.42	
1/15/2036	66,920.09	3,139.48	70,059.57	313.95		70,373.52	73,826.94
7/15/2036		2,637.57	2,637.57	263.76		2,901.33	
1/15/2037	68,033.51	2,637.57	70,671.09	263.76		70,934.85	73,836.18
7/15/2037		2,127.32	2,127.32	212.73		2,340.06	
1/15/2038	69,165.68	2,127.32	71,293.01	212.73		71,505.74	73,845.79
7/15/2038		1,608.58	1,608.58	160.86		1,769.44	
1/15/2039	70,316.53	1,608.58	71,925.11	160.86		72,085.97	73,855.41
7/15/2039		1,081.21	1,081.21	108.12		1,189.33	
1/15/2040	71,485.98	1,081.21	72,567.18	108.12		72,675.31	73,864.63
7/15/2040		545.06	545.06	54.51		599.57	
1/15/2041	72,674.96	545.06	73,220.02	54.51		73,274.53	73,874.10
7/15/2041							
	1,141,138.00	171,458.56	1,312,596.56	17,145.86		1,329,742.41	1,329,742.41

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust, interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

Replaced by Debt Scheduled Dated May 10, 2023

Prepared by PFM Financial Advisors LLC

Massachusetts Clean Water Trust
Series 23
Haverhill Loan Amortization
CW-19-12

Loan Amount Approved	1,534,800.00	Loan Origination Fee ($5.00/1000)	0.00
Principal Forgiveness	-	Loan Term (in years)	20
Amount to be Financed	1,534,800.00	Loan Rate	1.50%
		Closing Date	5/11/2021
		First Interest Payment	7/15/2021
		First Principal Payment	1/15/2022

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/11/2021							
7/15/2021		4,092.80	4,092.80	409.28		4,502.08	
1/15/2022	65,310.00	11,511.00	76,821.00	1,151.10		77,972.10	82,474.18
7/15/2022		11,021.18	11,021.18	1,102.12		12,123.29	
1/15/2023	66,397.00	11,021.18	77,418.18	1,102.12		78,520.29	90,643.59
7/15/2023		10,523.20	10,523.20	1,052.32		11,575.52	
1/15/2024	67,501.00	10,523.20	78,024.20	1,052.32		79,076.52	90,652.03
7/15/2024		10,016.94	10,016.94	1,001.69		11,018.63	
1/15/2025	68,624.00	10,016.94	78,640.94	1,001.69		79,642.63	90,661.27
7/15/2025		9,502.26	9,502.26	950.23		10,452.49	
1/15/2026	69,766.00	9,502.26	79,268.26	950.23		80,218.49	90,670.97
7/15/2026		8,979.02	8,979.02	897.90		9,876.92	
1/15/2027	70,927.00	8,979.02	79,906.02	897.90		80,803.92	90,680.83
7/15/2027		8,447.06	8,447.06	844.71		9,291.77	
1/15/2028	72,107.00	8,447.06	80,554.06	844.71		81,398.77	90,690.54
7/15/2028		7,906.26	7,906.26	790.63		8,696.89	
1/15/2029	73,307.00	7,906.26	81,213.26	790.63		82,003.89	90,700.77
7/15/2029		7,356.46	7,356.46	735.65		8,092.10	
1/15/2030	74,526.00	7,356.46	81,882.46	735.65		82,618.10	90,710.21
7/15/2030		6,797.51	6,797.51	679.75		7,477.26	
1/15/2031	75,766.00	6,797.51	82,563.51	679.75		83,243.26	90,720.53
7/15/2031		6,229.27	6,229.27	622.93		6,852.19	
1/15/2032	77,027.00	6,229.27	83,256.27	622.93		83,879.19	90,731.39
7/15/2032		5,651.57	5,651.57	565.16		6,216.72	
1/15/2033	78,308.00	5,651.57	83,959.57	565.16		84,524.72	90,741.44
7/15/2033		5,064.26	5,064.26	506.43		5,570.68	
1/15/2034	79,611.00	5,064.26	84,675.26	506.43		85,181.68	90,752.36
7/15/2034		4,467.17	4,467.17	446.72		4,913.89	
1/15/2035	80,935.00	4,467.17	85,402.17	446.72		85,848.89	90,762.78
7/15/2035		3,860.16	3,860.16	386.02		4,246.18	
1/15/2036	82,282.00	3,860.16	86,142.16	386.02		86,528.18	90,774.35
7/15/2036		3,243.05	3,243.05	324.30		3,567.35	
1/15/2037	83,651.00	3,243.05	86,894.05	324.30		87,218.35	90,785.70
7/15/2037		2,615.66	2,615.66	261.57		2,877.23	
1/15/2038	85,043.00	2,615.66	87,658.66	261.57		87,920.23	90,797.46
7/15/2038		1,977.84	1,977.84	197.78		2,175.62	
1/15/2039	86,458.00	1,977.84	88,435.84	197.78		88,633.62	90,809.25
7/15/2039		1,329.41	1,329.41	132.94		1,462.35	
1/15/2040	87,896.00	1,329.41	89,225.41	132.94		89,358.35	90,820.69
7/15/2040		670.19	670.19	67.02		737.20	
1/15/2041	89,358.00	670.19	90,028.19	67.02		90,095.20	90,832.41
7/15/2041							
	1,534,800.00	246,920.68	1,781,720.68	24,692.07		1,806,412.74	1,806,412.74

Massachusetts Water Clean Water Trust
Series 23 Swap
HAVERHILL Reamortization
DWP-18-06

Original Loan Amount	8,547,666.00	Loan Origination Fee ($0.00/1000)	0.00
Principal Forgiveness	1,098,936.00	Loan Term (in years)	18
Principal Paid Down	609,166.00	Loan Rate	2.00%
Outstanding Loan Obligation	6,839,564.00	Closing Date	5/10/2023
Remaining Balance	(642,113.00)	First Payment	7/15/2023
Net New Loan Obligation	6,197,451.00		

Date	Principal	Interest	Total Payments	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
5/10/2023							
7/15/2023		66,076.90	66,076.90	4,955.77		71,032.67	
1/15/2024	285,017.56	61,974.51	346,992.07	4,648.09		351,640.16	422,672.82
7/15/2024		59,124.33	59,124.33	4,434.33		63,558.66	
1/15/2025	291,211.75	59,124.33	350,336.09	4,434.33		354,770.41	418,329.07
7/15/2025		56,212.22	56,212.22	4,215.92		60,428.13	
1/15/2026	297,541.00	56,212.22	353,753.22	4,215.92		357,969.13	418,397.27
7/15/2026		53,236.81	53,236.81	3,992.76		57,229.57	
1/15/2027	304,008.00	53,236.81	357,244.80	3,992.76		361,237.56	418,467.13
7/15/2027		50,196.73	50,196.73	3,764.75		53,961.48	
1/15/2028	310,615.43	50,196.73	360,812.16	3,764.75		364,576.91	418,538.39
7/15/2028		47,090.57	47,090.57	3,531.79		50,622.37	
1/15/2029	317,365.99	47,090.57	364,456.56	3,531.79		367,988.35	418,610.72
7/15/2029		43,916.91	43,916.91	3,293.77		47,210.68	
1/15/2030	324,263.34	43,916.91	368,180.25	3,293.77		371,474.02	418,684.70
7/15/2030		40,674.28	40,674.28	3,050.57		43,724.85	
1/15/2031	331,311.16	40,674.28	371,985.44	3,050.57		375,036.01	418,760.86
7/15/2031		37,361.17	37,361.17	2,802.09		40,163.26	
1/15/2032	338,511.12	37,361.17	375,872.28	2,802.09		378,674.37	418,837.63
7/15/2032		33,976.06	33,976.06	2,548.20		36,524.26	
1/15/2033	345,867.85	33,976.06	379,843.91	2,548.20		382,392.12	418,916.38
7/15/2033		30,517.38	30,517.38	2,288.80		32,806.18	
1/15/2034	353,385.03	30,517.38	383,902.40	2,288.80		386,191.21	418,997.39
7/15/2034		26,983.53	26,983.53	2,023.76		29,007.29	
1/15/2035	361,065.27	26,983.53	388,048.80	2,023.76		390,072.56	419,079.86
7/15/2035		23,372.88	23,372.88	1,752.97		25,125.84	
1/15/2036	368,913.22	23,372.88	392,286.10	1,752.97		394,039.06	419,164.90
7/15/2036		19,683.74	19,683.74	1,476.28		21,160.02	
1/15/2037	376,930.50	19,683.74	396,614.24	1,476.28		398,090.53	419,250.55
7/15/2037		15,914.44	15,914.44	1,193.58		17,108.02	
1/15/2038	385,122.73	15,914.44	401,037.17	1,193.58		402,230.75	419,338.77
7/15/2038		12,063.21	12,063.21	904.74		12,967.95	
1/15/2039	393,492.51	12,063.21	405,555.72	904.74		406,460.46	419,428.41
7/15/2039		8,128.29	8,128.29	609.62		8,737.91	
1/15/2040	402,045.44	8,128.29	410,173.72	609.62		410,783.34	419,521.25
7/15/2040		4,107.83	4,107.83	308.09		4,415.92	
1/15/2041	410,783.11	4,107.83	414,890.94	308.09		415,199.03	419,614.95
7/15/2041							
	6,197,451.00	1,253,172.13	7,450,623.13	93,987.91		7,544,611.04	7,544,611.04

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust, interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

Replaced by Debt Scheduled Dated May 10, 2023

Prepared by PFM Financial Advisors LLC

Massachusetts Clean Water Trust
Series 23
Haverhill Loan Amortization
DWP-18-06

Loan Amount Approved	8,547,666.00	Loan Origination Fee ($5.00/1000)	0.00
Principal Forgiveness*	1,098,936.00	Loan Term (in years)	20
Amount to be Financed	7,448,730.00	Loan Rate	2.00%
		Closing Date	5/11/2021
		First Interest Payment	7/15/2021
		First Principal Payment	1/15/2022

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/11/2021							
7/15/2021		26,484.37	26,484.37	1,986.33		28,470.70	
1/15/2022	301,309.00	74,487.30	375,796.30	5,586.55		381,382.85	409,853.55
7/15/2022		71,474.21	71,474.21	5,360.57		76,834.78	
1/15/2023	307,857.00	71,474.21	379,331.21	5,360.57		384,691.78	461,526.55
7/15/2023		68,395.64	68,395.64	5,129.67		73,525.31	
1/15/2024	314,548.00	68,395.64	382,943.64	5,129.67		388,073.31	461,598.63
7/15/2024		65,250.16	65,250.16	4,893.76		70,143.92	
1/15/2025	321,384.00	65,250.16	386,634.16	4,893.76		391,527.92	461,671.84
7/15/2025		62,036.32	62,036.32	4,652.72		66,689.04	
1/15/2026	328,369.00	62,036.32	390,405.32	4,652.72		395,058.04	461,747.09
7/15/2026		58,752.63	58,752.63	4,406.45		63,159.08	
1/15/2027	335,506.00	58,752.63	394,258.63	4,406.45		398,665.08	461,824.15
7/15/2027		55,397.57	55,397.57	4,154.82		59,552.39	
1/15/2028	342,798.00	55,397.57	398,195.57	4,154.82		402,350.39	461,902.78
7/15/2028		51,969.59	51,969.59	3,897.72		55,867.31	
1/15/2029	350,248.00	51,969.59	402,217.59	3,897.72		406,115.31	461,982.62
7/15/2029		48,467.11	48,467.11	3,635.03		52,102.14	
1/15/2030	357,860.00	48,467.11	406,327.11	3,635.03		409,962.14	462,064.29
7/15/2030		44,888.51	44,888.51	3,366.64		48,255.15	
1/15/2031	365,638.00	44,888.51	410,526.51	3,366.64		413,893.15	462,148.30
7/15/2031		41,232.13	41,232.13	3,092.41		44,324.54	
1/15/2032	373,584.00	41,232.13	414,816.13	3,092.41		417,908.54	462,233.08
7/15/2032		37,496.29	37,496.29	2,812.22		40,308.51	
1/15/2033	381,703.00	37,496.29	419,199.29	2,812.22		422,011.51	462,320.02
7/15/2033		33,679.26	33,679.26	2,525.94		36,205.20	
1/15/2034	389,999.00	33,679.26	423,678.26	2,525.94		426,204.20	462,409.41
7/15/2034		29,779.27	29,779.27	2,233.45		32,012.72	
1/15/2035	398,475.00	29,779.27	428,254.27	2,233.45		430,487.72	462,500.43
7/15/2035		25,794.52	25,794.52	1,934.59		27,729.11	
1/15/2036	407,136.00	25,794.52	432,930.52	1,934.59		434,865.11	462,594.22
7/15/2036		21,723.16	21,723.16	1,629.24		23,352.40	
1/15/2037	415,984.00	21,723.16	437,707.16	1,629.24		439,336.40	462,688.79
7/15/2037		17,563.32	17,563.32	1,317.25		18,880.57	
1/15/2038	425,025.00	17,563.32	442,588.32	1,317.25		443,905.57	462,786.14
7/15/2038		13,313.07	13,313.07	998.48		14,311.55	
1/15/2039	434,262.00	13,313.07	447,575.07	998.48		448,573.55	462,885.10
7/15/2039		8,970.45	8,970.45	672.78		9,643.23	
1/15/2040	443,701.00	8,970.45	452,671.45	672.78		453,344.23	462,987.47
7/15/2040		4,533.44	4,533.44	340.01		4,873.45	
1/15/2041	453,344.00	4,533.44	457,877.44	340.01		458,217.45	463,090.90
7/15/2041							
	7,448,730.00	1,622,404.97	9,071,134.97	121,680.37		9,192,815.35	9,192,815.35

Notes:

*This project may qualify for principal forgiveness in accordance with schedule B to the Loan Agreement. Principal forgiveness shown on this schedule is an estimate, and is not a guarantee.

Massachusetts Water Clean Water Trust
Series 23 Swap
HAVERHILL Reamortization
CW-17-14

Original Loan Amount	7,408,631.00	Loan Origination Fee ($0.00/1000)	0.00
Principal Forgiveness	-	Loan Term (in years)	18
Principal Paid Down	605,887.00	Loan Rate	2.00%
Outstanding Loan Obligation	6,802,744.00	Closing Date	5/10/2023
Remaining Balance	(13,007.00)	First Payment	7/15/2023
Net New Loan Obligation	6,789,737.00		

Date	Principal	Interest	Total Payments	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
5/10/2023							
7/15/2023		67,980.47	67,980.47	5,098.54		73,079.01	
1/15/2024	312,256.81	67,897.37	380,154.18	5,092.30		385,246.49	458,325.49
7/15/2024		64,774.80	64,774.80	4,858.11		69,632.91	
1/15/2025	319,042.81	64,774.80	383,817.62	4,858.11		388,675.73	458,308.64
7/15/2025		61,584.37	61,584.37	4,618.83		66,203.20	
1/15/2026	325,976.53	61,584.37	387,560.90	4,618.83		392,179.73	458,382.93
7/15/2026		58,324.61	58,324.61	4,374.35		62,698.95	
1/15/2027	333,061.96	58,324.61	391,386.57	4,374.35		395,760.91	458,459.87
7/15/2027		54,993.99	54,993.99	4,124.55		59,118.54	
1/15/2028	340,300.09	54,993.99	395,294.08	4,124.55		399,418.63	458,537.17
7/15/2028		51,590.99	51,590.99	3,869.32		55,460.31	
1/15/2029	347,695.92	51,590.99	399,286.91	3,869.32		403,156.24	458,616.55
7/15/2029		48,114.03	48,114.03	3,608.55		51,722.58	
1/15/2030	355,252.45	48,114.03	403,366.48	3,608.55		406,975.03	458,697.61
7/15/2030		44,561.50	44,561.50	3,342.11		47,903.62	
1/15/2031	362,973.66	44,561.50	407,535.16	3,342.11		410,877.27	458,780.89
7/15/2031		40,931.77	40,931.77	3,069.88		44,001.65	
1/15/2032	370,862.54	40,931.77	411,794.31	3,069.88		414,864.19	458,865.84
7/15/2032		37,223.14	37,223.14	2,791.74		40,014.88	
1/15/2033	378,923.10	37,223.14	416,146.25	2,791.74		418,937.98	458,952.86
7/15/2033		33,433.91	33,433.91	2,507.54		35,941.45	
1/15/2034	387,158.33	33,433.91	420,592.24	2,507.54		423,099.78	459,041.24
7/15/2034		29,562.33	29,562.33	2,217.17		31,779.50	
1/15/2035	395,572.21	29,562.33	425,134.54	2,217.17		427,351.71	459,131.21
7/15/2035		25,606.61	25,606.61	1,920.50		27,527.10	
1/15/2036	404,169.74	25,606.61	429,776.34	1,920.50		431,696.84	459,223.94
7/15/2036		21,564.91	21,564.91	1,617.37		23,182.28	
1/15/2037	412,953.91	21,564.91	434,518.82	1,617.37		436,136.19	459,318.46
7/15/2037		17,435.37	17,435.37	1,307.65		18,743.02	
1/15/2038	421,928.72	17,435.37	439,364.09	1,307.65		440,671.74	459,414.76
7/15/2038		13,216.08	13,216.08	991.21		14,207.29	
1/15/2039	431,099.15	13,216.08	444,315.23	991.21		445,306.44	459,513.73
7/15/2039		8,905.09	8,905.09	667.88		9,572.97	
1/15/2040	440,468.20	8,905.09	449,373.29	667.88		450,041.17	459,614.15
7/15/2040		4,500.41	4,500.41	337.53		4,837.94	
1/15/2041	450,040.86	4,500.41	454,541.27	337.53		454,878.80	459,716.74
7/15/2041							
	6,789,737.00	1,368,525.65	8,158,262.65	102,639.42		8,260,902.08	8,260,902.08

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust, interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

Replaced by Debt Scheduled Dated May 10, 2023

Massachusetts Clean Water Trust
Series 23
Haverhill Loan Amortization
CW-17-14

Loan Amount Approved	7,408,631.00	Loan Origination Fee ($5.00/1000)	0.00
Principal Forgiveness	-	Loan Term (in years)	20
Amount to be Financed	7,408,631.00	Loan Rate	2.00%
		Closing Date	5/11/2021
		First Interest Payment	7/15/2021
		First Principal Payment	1/15/2022

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/11/2021							
7/15/2021		26,341.80	26,341.80	1,975.63		28,317.43	
1/15/2022	299,687.00	74,086.31	373,773.31	5,556.47		379,329.78	407,647.22
7/15/2022		71,089.44	71,089.44	5,331.71		76,421.15	
1/15/2023	306,200.00	71,089.44	377,289.44	5,331.71		382,621.15	459,042.30
7/15/2023		68,027.44	68,027.44	5,102.06		73,129.50	
1/15/2024	312,855.00	68,027.44	380,882.44	5,102.06		385,984.50	459,114.00
7/15/2024		64,898.89	64,898.89	4,867.42		69,766.31	
1/15/2025	319,654.00	64,898.89	384,552.89	4,867.42		389,420.31	459,186.61
7/15/2025		61,702.35	61,702.35	4,627.68		66,330.03	
1/15/2026	326,601.00	61,702.35	388,303.35	4,627.68		392,931.03	459,261.05
7/15/2026		58,436.34	58,436.34	4,382.73		62,819.07	
1/15/2027	333,700.00	58,436.34	392,136.34	4,382.73		396,519.07	459,338.13
7/15/2027		55,099.34	55,099.34	4,132.45		59,231.79	
1/15/2028	340,952.00	55,099.34	396,051.34	4,132.45		400,183.79	459,415.58
7/15/2028		51,689.82	51,689.82	3,876.74		55,566.56	
1/15/2029	348,362.00	51,689.82	400,051.82	3,876.74		403,928.56	459,495.11
7/15/2029		48,206.20	48,206.20	3,615.47		51,821.67	
1/15/2030	355,933.00	48,206.20	404,139.20	3,615.47		407,754.67	459,576.33
7/15/2030		44,646.87	44,646.87	3,348.52		47,995.39	
1/15/2031	363,669.00	44,646.87	408,315.87	3,348.52		411,664.39	459,659.77
7/15/2031		41,010.18	41,010.18	3,075.76		44,085.94	
1/15/2032	371,573.00	41,010.18	412,583.18	3,075.76		415,658.94	459,744.89
7/15/2032		37,294.45	37,294.45	2,797.08		40,091.53	
1/15/2033	379,649.00	37,294.45	416,943.45	2,797.08		419,740.53	459,832.07
7/15/2033		33,497.96	33,497.96	2,512.35		36,010.31	
1/15/2034	387,900.00	33,497.96	421,397.96	2,512.35		423,910.31	459,920.61
7/15/2034		29,618.96	29,618.96	2,221.42		31,840.38	
1/15/2035	396,330.00	29,618.96	425,948.96	2,221.42		428,170.38	460,010.76
7/15/2035		25,655.66	25,655.66	1,924.17		27,579.83	
1/15/2036	404,944.00	25,655.66	430,599.66	1,924.17		432,523.83	460,103.67
7/15/2036		21,606.22	21,606.22	1,620.47		23,226.69	
1/15/2037	413,745.00	21,606.22	435,351.22	1,620.47		436,971.69	460,198.37
7/15/2037		17,468.77	17,468.77	1,310.16		18,778.93	
1/15/2038	422,737.00	17,468.77	440,205.77	1,310.16		441,515.93	460,294.86
7/15/2038		13,241.40	13,241.40	993.11		14,234.51	
1/15/2039	431,925.00	13,241.40	445,166.40	993.11		446,159.51	460,394.01
7/15/2039		8,922.15	8,922.15	669.16		9,591.31	
1/15/2040	441,312.00	8,922.15	450,234.15	669.16		450,903.31	460,494.62
7/15/2040		4,509.03	4,509.03	338.18		4,847.21	
1/15/2041	450,903.00	4,509.03	455,412.03	338.18		455,750.21	460,597.41
7/15/2041							
	7,408,631.00	1,613,671.05	9,022,302.05	121,025.33		9,143,327.38	9,143,327.38

Massachusetts Clean Water Trust
Series 21
Haverhill Loan Amortization
DWP-16-05

Loan Amount Approved	10,000,000.00
Principal Forgiveness*	(1,354,341.00)
Amount to be Financed	8,645,659.00

Loan Origination Fee ($5.00/1000)	43,228.30
Loan Term (in years)	20
Loan Rate	2.00%
Closing Date	9/12/2018
First Interest Payment	1/15/2019
First Principal Payment	7/15/2019

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
9/12/2018							
1/15/2019		59,078.67	59,078.67	4,430.90	43,228.30	106,737.87	106,737.87
7/15/2019	349,726.00	86,456.59	436,182.59	6,484.24		442,666.83	
1/15/2020		82,959.33	82,959.33	6,221.95		89,181.28	531,848.11
7/15/2020	357,326.00	82,959.33	440,285.33	6,221.95		446,507.28	
1/15/2021		79,386.07	79,386.07	5,953.96		85,340.03	531,847.31
7/15/2021	365,092.00	79,386.07	444,478.07	5,953.96		450,432.03	
1/15/2022		75,735.15	75,735.15	5,680.14		81,415.29	531,847.31
7/15/2022	373,027.00	75,735.15	448,762.15	5,680.14		454,442.29	
1/15/2023		72,004.88	72,004.88	5,400.37		77,405.25	531,847.53
7/15/2023	381,135.00	72,004.88	453,139.88	5,400.37		458,540.25	
1/15/2024		68,193.53	68,193.53	5,114.51		73,308.04	531,848.29
7/15/2024	389,418.00	68,193.53	457,611.53	5,114.51		462,726.04	
1/15/2025		64,299.35	64,299.35	4,822.45		69,121.80	531,847.85
7/15/2025	397,881.00	64,299.35	462,180.35	4,822.45		467,002.80	
1/15/2026		60,320.54	60,320.54	4,524.04		64,844.58	531,847.38
7/15/2026	406,529.00	60,320.54	466,849.54	4,524.04		471,373.58	
1/15/2027		56,255.25	56,255.25	4,219.14		60,474.39	531,847.97
7/15/2027	415,364.00	56,255.25	471,619.25	4,219.14		475,838.39	
1/15/2028		52,101.61	52,101.61	3,907.62		56,009.23	531,847.62
7/15/2028	424,392.00	52,101.61	476,493.61	3,907.62		480,401.23	
1/15/2029		47,857.69	47,857.69	3,589.33		51,447.02	531,848.25
7/15/2029	433,615.00	47,857.69	481,472.69	3,589.33		485,062.02	
1/15/2030		43,521.54	43,521.54	3,264.12		46,785.66	531,847.67
7/15/2030	443,039.00	43,521.54	486,560.54	3,264.12		489,824.66	
1/15/2031		39,091.15	39,091.15	2,931.84		42,022.99	531,847.64
7/15/2031	452,668.00	39,091.15	491,759.15	2,931.84		494,690.99	
1/15/2032		34,564.47	34,564.47	2,592.34		37,156.81	531,847.79
7/15/2032	462,506.00	34,564.47	497,070.47	2,592.34		499,662.81	
1/15/2033		29,939.41	29,939.41	2,245.46		32,184.87	531,847.67
7/15/2033	472,558.00	29,939.41	502,497.41	2,245.46		504,742.87	
1/15/2034		25,213.83	25,213.83	1,891.04		27,104.87	531,847.73
7/15/2034	482,828.00	25,213.83	508,041.83	1,891.04		509,932.87	
1/15/2035		20,385.55	20,385.55	1,528.92		21,914.47	531,847.33
7/15/2035	493,322.00	20,385.55	513,707.55	1,528.92		515,236.47	
1/15/2036		15,452.33	15,452.33	1,158.92		16,611.25	531,847.72
7/15/2036	504,044.00	15,452.33	519,496.33	1,158.92		520,655.25	
1/15/2037		10,411.89	10,411.89	780.89		11,192.78	531,848.04
7/15/2037	514,998.00	10,411.89	525,409.89	780.89		526,190.78	
1/15/2038		5,261.91	5,261.91	394.64		5,656.55	531,847.34
7/15/2038	526,191.00	5,261.91	531,452.91	394.64		531,847.55	
1/15/2039							531,847.55
	8,645,659.00	1,911,446.22	10,557,105.22	143,358.47	43,228.30	10,743,691.98	10,743,691.98

Notes:

*This project may qualify for principal forgiveness in accordance with Schedule B to the Loan Agreement.

Massachusetts Water Clean Water Trust
Series 22 Swap
HAVERHILL Reamortization
DWP-16-05-A

Original Loan Amount	31,094,762.00	Loan Origination Fee ($7.5/1000)	0.00
Principal Forgiveness	-	Loan Term (in years)	17
Principal Paid Down	3,856,047.00	Loan Rate	2.00%
Outstanding Loan Obligation	27,238,715.00	Closing Date	11/9/2022
Remaining Balance	(1,381,247.00)	First Payment	1/15/2023
Net New Loan Obligation	25,857,468.00		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Payments	Total Annual Payments
11/9/2022							
1/15/2023		267,322.58	267,322.58	20,049.19		287,371.77	
7/15/2023	1,273,587.82	258,574.68	1,532,162.50	19,393.10		1,551,555.60	
1/15/2024		245,838.80	245,838.80	18,437.91		264,276.71	1,815,832.32
7/15/2024	1,301,268.24	245,838.80	1,547,107.04	18,437.91		1,565,544.95	
1/15/2025		232,826.12	232,826.12	17,461.96		250,288.08	1,815,833.03
7/15/2025	1,329,549.52	232,826.12	1,562,375.63	17,461.96		1,579,837.59	
1/15/2026		219,530.62	219,530.62	16,464.80		235,995.42	1,815,833.01
7/15/2026	1,358,444.96	219,530.62	1,577,975.58	16,464.80		1,594,440.38	
1/15/2027		205,946.17	205,946.17	15,445.96		221,392.14	1,815,832.52
7/15/2027	1,387,968.86	205,946.17	1,593,915.03	15,445.96		1,609,361.00	
1/15/2028		192,066.49	192,066.49	14,404.99		206,471.47	1,815,832.47
7/15/2028	1,418,134.48	192,066.49	1,610,200.97	14,404.99		1,624,605.95	
1/15/2029		177,885.14	177,885.14	13,341.39		191,226.53	1,815,832.48
7/15/2029	1,448,956.08	177,885.14	1,626,841.22	13,341.39		1,640,182.61	
1/15/2030		163,395.58	163,395.58	12,254.67		175,650.25	1,815,832.86
7/15/2030	1,480,446.90	163,395.58	1,643,842.48	12,254.67		1,656,097.15	
1/15/2031		148,591.11	148,591.11	11,144.33		159,735.44	1,815,832.59
7/15/2031	1,512,622.16	148,591.11	1,661,213.27	11,144.33		1,672,357.60	
1/15/2032		133,464.89	133,464.89	10,009.87		143,474.76	1,815,832.36
7/15/2032	1,545,497.06	133,464.89	1,678,961.95	10,009.87		1,688,971.82	
1/15/2033		118,009.92	118,009.92	8,850.74		126,860.66	1,815,832.48
7/15/2033	1,579,086.80	118,009.92	1,697,096.72	8,850.74		1,705,947.46	
1/15/2034		102,219.05	102,219.05	7,666.43		109,885.48	1,815,832.94
7/15/2034	1,613,405.54	102,219.05	1,715,624.59	7,666.43		1,723,291.02	
1/15/2035		86,085.00	86,085.00	6,456.37		92,541.37	1,815,832.39
7/15/2035	1,648,471.44	86,085.00	1,734,556.43	6,456.37		1,741,012.81	
1/15/2036		69,600.28	69,600.28	5,220.02		74,820.30	1,815,833.11
7/15/2036	1,684,298.63	69,600.28	1,753,898.91	5,220.02		1,759,118.93	
1/15/2037		52,757.30	52,757.30	3,956.80		56,714.09	1,815,833.02
7/15/2037	1,720,904.22	52,757.30	1,773,661.52	3,956.80		1,777,618.31	
1/15/2038		35,548.25	35,548.25	2,666.12		38,214.37	1,815,832.69
7/15/2038	1,758,305.32	35,548.25	1,793,853.57	2,666.12		1,796,519.69	
1/15/2039		17,965.20	17,965.20	1,347.39		19,312.59	1,815,832.28
7/15/2039	1,796,519.99	17,965.20	1,814,485.19	1,347.39		1,815,832.58	
1/15/2040							1,815,832.58
	25,857,468.00	4,929,357.11	30,786,825.11	369,701.78		31,156,526.89	30,869,155.12

Replaced by Debt Schedule Dated November 9, 2022

Prepared by PFM Financial Advisors LLC

Massachusetts Clean Water Trust
Series 22
Haverhill Loan Amortization
DWP-16-05-A

Loan Amount Approved	31,094,762.00		Loan Origination Fee ($5.00/1000)	0.00
Principal Forgiveness	-		Loan Term (in years)	20
Amount to be Financed	31,094,762.00	-	Loan Rate	2.00%
			Closing Date	10/24/2019
			First Interest Payment	1/15/2020
			First Principal Payment	7/15/2020

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
10/24/2019							
1/15/2020		139,926.43	139,926.43	10,494.48		150,420.91	150,420.91
7/15/2020	1,257,814.00	310,947.62	1,568,761.62	23,321.07		1,592,082.69	
1/15/2021		298,369.48	298,369.48	22,377.71		320,747.19	1,912,829.88
7/15/2021	1,285,151.00	298,369.48	1,583,520.48	22,377.71		1,605,898.19	
1/15/2022		285,517.97	285,517.97	21,413.85		306,931.82	1,912,830.01
7/15/2022	1,313,082.00	285,517.97	1,598,599.97	21,413.85		1,620,013.82	
1/15/2023		272,387.15	272,387.15	20,429.04		292,816.19	1,912,830.00
7/15/2023	1,341,620.00	272,387.15	1,614,007.15	20,429.04		1,634,436.19	
1/15/2024		258,970.95	258,970.95	19,422.82		278,393.77	1,912,829.96
7/15/2024	1,370,779.00	258,970.95	1,629,749.95	19,422.82		1,649,172.77	
1/15/2025		245,263.16	245,263.16	18,394.74		263,657.90	1,912,830.67
7/15/2025	1,400,571.00	245,263.16	1,645,834.16	18,394.74		1,664,228.90	
1/15/2026		231,257.45	231,257.45	17,344.31		248,601.76	1,912,830.66
7/15/2026	1,431,010.00	231,257.45	1,662,267.45	17,344.31		1,679,611.76	
1/15/2027		216,947.35	216,947.35	16,271.05		233,218.40	1,912,830.16
7/15/2027	1,462,111.00	216,947.35	1,679,058.35	16,271.05		1,695,329.40	
1/15/2028		202,326.24	202,326.24	15,174.47		217,500.71	1,912,830.11
7/15/2028	1,493,888.00	202,326.24	1,696,214.24	15,174.47		1,711,388.71	
1/15/2029		187,387.36	187,387.36	14,054.05		201,441.41	1,912,830.12
7/15/2029	1,526,356.00	187,387.36	1,713,743.36	14,054.05		1,727,797.41	
1/15/2030		172,123.80	172,123.80	12,909.29		185,033.09	1,912,830.50
7/15/2030	1,559,529.00	172,123.80	1,731,652.80	12,909.29		1,744,562.09	
1/15/2031		156,528.51	156,528.51	11,739.64		168,268.15	1,912,830.23
7/15/2031	1,593,423.00	156,528.51	1,749,951.51	11,739.64		1,761,691.15	
1/15/2032		140,594.28	140,594.28	10,544.57		151,138.85	1,912,830.00
7/15/2032	1,628,054.00	140,594.28	1,768,648.28	10,544.57		1,779,192.85	
1/15/2033		124,313.74	124,313.74	9,323.53		133,637.27	1,912,830.12
7/15/2033	1,663,438.00	124,313.74	1,787,751.74	9,323.53		1,797,075.27	
1/15/2034		107,679.36	107,679.36	8,075.95		115,755.31	1,912,830.58
7/15/2034	1,699,590.00	107,679.36	1,807,269.36	8,075.95		1,815,345.31	
1/15/2035		90,683.46	90,683.46	6,801.26		97,484.72	1,912,830.03
7/15/2035	1,736,529.00	90,683.46	1,827,212.46	6,801.26		1,834,013.72	
1/15/2036		73,318.17	73,318.17	5,498.86		78,817.03	1,912,830.75
7/15/2036	1,774,270.00	73,318.17	1,847,588.17	5,498.86		1,853,087.03	
1/15/2037		55,575.47	55,575.47	4,168.16		59,743.63	1,912,830.66
7/15/2037	1,812,831.00	55,575.47	1,868,406.47	4,168.16		1,872,574.63	
1/15/2038		37,447.16	37,447.16	2,808.54		40,255.70	1,912,830.33
7/15/2038	1,852,230.00	37,447.16	1,889,677.16	2,808.54		1,892,485.70	
1/15/2039		18,924.86	18,924.86	1,419.36		20,344.22	1,912,829.92
7/15/2039	1,892,486.00	18,924.86	1,911,410.86	1,419.36		1,912,830.22	
1/15/2040							1,912,830.22
	31,094,762.00	6,802,105.89	37,896,867.89	510,157.94		38,407,025.83	38,407,025.83

Massachusetts Water Clean Water Trust
Series 21 Swap
HAVERHILL Reamortization
DWP-16-07

Original Loan Amount	2,636,000.00	Loan Origination Fee ($5.00/1000)	0.00
Principal Forgiveness	86,873.00	Loan Term (in years)	18
Principal Paid Down	208,471.00	Loan Rate	2.00%
Outstanding Loan Obligation	2,340,656.00	Closing Date	9/11/2020
Remaining Balance	(34,761.00)	First Payment	1/15/2021
Net New Loan Obligation	2,305,895.00		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
9/11/2020							
1/15/2021		23,167.10	23,167.10	1,737.53		24,904.63	
7/15/2021	106,047.36	23,058.95	129,106.31	1,729.42		130,835.73	
1/15/2022		21,998.48	21,998.48	1,649.89		23,648.36	154,484.09
7/15/2022	108,351.62	21,998.48	130,350.09	1,649.89		131,999.98	
1/15/2023		20,914.96	20,914.96	1,568.62		22,483.58	154,483.56
7/15/2023	110,706.12	20,914.96	131,621.08	1,568.62		133,189.70	
1/15/2024		19,807.90	19,807.90	1,485.59		21,293.49	154,483.19
7/15/2024	113,112.85	19,807.90	132,920.74	1,485.59		134,406.34	
1/15/2025		18,676.77	18,676.77	1,400.76		20,077.53	154,483.87
7/15/2025	115,570.79	18,676.77	134,247.56	1,400.76		135,648.31	
1/15/2026		17,521.06	17,521.06	1,314.08		18,835.14	154,483.46
7/15/2026	118,082.92	17,521.06	135,603.98	1,314.08		136,918.06	
1/15/2027		16,340.23	16,340.23	1,225.52		17,565.75	154,483.81
7/15/2027	120,649.23	16,340.23	136,989.47	1,225.52		138,214.98	
1/15/2028		15,133.74	15,133.74	1,135.03		16,268.77	154,483.76
7/15/2028	123,271.71	15,133.74	138,405.45	1,135.03		139,540.48	
1/15/2029		13,901.02	13,901.02	1,042.58		14,943.60	154,484.08
7/15/2029	125,950.32	13,901.02	139,851.34	1,042.58		140,893.92	
1/15/2030		12,641.52	12,641.52	948.11		13,589.64	154,483.55
7/15/2030	128,688.05	12,641.52	141,329.57	948.11		142,277.69	
1/15/2031		11,354.64	11,354.64	851.60		12,206.24	154,483.93
7/15/2031	131,484.89	11,354.64	142,839.53	851.60		143,691.13	
1/15/2032		10,039.79	10,039.79	752.98		10,792.78	154,483.90
7/15/2032	134,341.81	10,039.79	144,381.60	752.98		145,134.59	
1/15/2033		8,696.37	8,696.37	652.23		9,348.60	154,483.19
7/15/2033	137,261.80	8,696.37	145,958.17	652.23		146,610.40	
1/15/2034		7,323.76	7,323.76	549.28		7,873.04	154,483.44
7/15/2034	140,244.83	7,323.76	147,568.58	549.28		148,117.86	
1/15/2035		5,921.31	5,921.31	444.10		6,365.41	154,483.27
7/15/2035	143,292.88	5,921.31	149,214.18	444.10		149,658.28	
1/15/2036		4,488.38	4,488.38	336.63		4,825.01	154,483.29
7/15/2036	146,407.93	4,488.38	150,896.31	336.63		151,232.94	
1/15/2037		3,024.30	3,024.30	226.82		3,251.12	154,484.06
7/15/2037	149,588.96	3,024.30	152,613.26	226.82		152,840.08	
1/15/2038		1,528.41	1,528.41	114.63		1,643.04	154,483.12
7/15/2038	152,840.95	1,528.41	154,369.36	114.63		154,483.99	
1/15/2039							154,483.99
	2,305,895.00	464,851.33	2,770,746.33	34,863.85		2,805,610.18	2,780,705.56

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust, interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

Replaced by Debt Schedule Dated September 4, 2020

Prepared by PFM Financial Advisors LLC

Massachusetts Clean Water Trust
Series 21
Haverhill Loan Amortization
DWP-16-07

Loan Amount Approved	2,636,000.00	Loan Origination Fee ($5.00/1000)	12,745.64
Principal Forgiveness*	(86,873.00)	Loan Term (in years)	20
Amount to be Financed	2,549,127.00	Loan Rate	2.00%
		Closing Date	9/12/2018
		First Interest Payment	1/15/2019
		First Principal Payment	7/15/2019

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
9/12/2018							
1/15/2019		17,419.03	17,419.03	1,306.43	12,745.64	31,471.10	31,471.10
7/15/2019	103,115.00	25,491.27	128,606.27	1,911.85		130,518.12	
1/15/2020		24,460.12	24,460.12	1,834.51		26,294.63	156,812.74
7/15/2020	105,356.00	24,460.12	129,816.12	1,834.51		131,650.63	
1/15/2021		23,406.56	23,406.56	1,755.49		25,162.05	156,812.68
7/15/2021	107,646.00	23,406.56	131,052.56	1,755.49		132,808.05	
1/15/2022		22,330.10	22,330.10	1,674.76		24,004.86	156,812.91
7/15/2022	109,985.00	22,330.10	132,315.10	1,674.76		133,989.86	
1/15/2023		21,230.25	21,230.25	1,592.27		22,822.52	156,812.38
7/15/2023	112,375.00	21,230.25	133,605.25	1,592.27		135,197.52	
1/15/2024		20,106.50	20,106.50	1,507.99		21,614.49	156,812.01
7/15/2024	114,818.00	20,106.50	134,924.50	1,507.99		136,432.49	
1/15/2025		18,958.32	18,958.32	1,421.87		20,380.19	156,812.68
7/15/2025	117,313.00	18,958.32	136,271.32	1,421.87		137,693.19	
1/15/2026		17,785.19	17,785.19	1,333.89		19,119.08	156,812.27
7/15/2026	119,863.00	17,785.19	137,648.19	1,333.89		138,982.08	
1/15/2027		16,586.56	16,586.56	1,243.99		17,830.55	156,812.63
7/15/2027	122,468.00	16,586.56	139,054.56	1,243.99		140,298.55	
1/15/2028		15,361.88	15,361.88	1,152.14		16,514.02	156,812.57
7/15/2028	125,130.00	15,361.88	140,491.88	1,152.14		141,644.02	
1/15/2029		14,110.58	14,110.58	1,058.29		15,168.87	156,812.89
7/15/2029	127,849.00	14,110.58	141,959.58	1,058.29		143,017.87	
1/15/2030		12,832.09	12,832.09	962.41		13,794.50	156,812.37
7/15/2030	130,628.00	12,832.09	143,460.09	962.41		144,422.50	
1/15/2031		11,525.81	11,525.81	864.44		12,390.25	156,812.74
7/15/2031	133,467.00	11,525.81	144,992.81	864.44		145,857.25	
1/15/2032		10,191.14	10,191.14	764.34		10,955.48	156,812.72
7/15/2032	136,367.00	10,191.14	146,558.14	764.34		147,322.48	
1/15/2033		8,827.47	8,827.47	662.06		9,489.53	156,812.01
7/15/2033	139,331.00	8,827.47	148,158.47	662.06		148,820.53	
1/15/2034		7,434.16	7,434.16	557.56		7,991.72	156,812.25
7/15/2034	142,359.00	7,434.16	149,793.16	557.56		150,350.72	
1/15/2035		6,010.57	6,010.57	450.79		6,461.36	156,812.08
7/15/2035	145,453.00	6,010.57	151,463.57	450.79		151,914.36	
1/15/2036		4,556.04	4,556.04	341.70		4,897.74	156,812.11
7/15/2036	148,615.00	4,556.04	153,171.04	341.70		153,512.74	
1/15/2037		3,069.89	3,069.89	230.24		3,300.13	156,812.87
7/15/2037	151,844.00	3,069.89	154,913.89	230.24		155,144.13	
1/15/2038		1,551.45	1,551.45	116.36		1,667.81	156,811.94
7/15/2038	155,145.00	1,551.45	156,696.45	116.36		156,812.81	
1/15/2039							156,812.81
	2,549,127.00	563,579.66	3,112,706.66	42,268.47	12,745.64	3,167,720.77	3,167,720.77

Notes:

*This project may qualify for principal forgiveness in accordance with Schedule B to the Loan Agreement.

Massachusetts Water Clean Water Trust
Series 20 Swap
HAVERHILL Reamortization
CWP-14-15

Original Loan Amount	8,535,442.00	Loan Origination Fee ($5.50/1000)	0.00
Principal Forgiveness	169,023.00	Loan Term (in years)	17
Principal Paid Down	1,037,515.00	Loan Rate	2.00%
Outstanding Loan Obligation	7,328,904.00	Closing Date	6/15/2020
Remaining Balance	(89,657.00)	First Payment	7/15/2020
Net New Loan Obligation	7,239,247.00		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
6/15/2020							
7/15/2020		73,139.61	73,139.61	5,485.47		78,625.08	
1/15/2021	356,563.02	72,392.47	428,955.49	5,429.44		434,384.92	513,010.01
7/15/2021		68,826.84	68,826.84	5,162.01		73,988.85	
1/15/2022	364,312.04	68,826.84	433,138.88	5,162.01		438,300.90	512,289.75
7/15/2022		65,183.72	65,183.72	4,888.78		70,072.50	
1/15/2023	372,229.98	65,183.72	437,413.70	4,888.78		442,302.48	512,374.98
7/15/2023		61,461.42	61,461.42	4,609.61		66,071.03	
1/15/2024	380,319.79	61,461.42	441,781.21	4,609.61		446,390.82	512,461.84
7/15/2024		57,658.22	57,658.22	4,324.37		61,982.59	
1/15/2025	388,586.42	57,658.22	446,244.64	4,324.37		450,569.01	512,551.60
7/15/2025		53,772.36	53,772.36	4,032.93		57,805.28	
1/15/2026	397,031.82	53,772.36	450,804.18	4,032.93		454,837.11	512,642.39
7/15/2026		49,802.04	49,802.04	3,735.15		53,537.19	
1/15/2027	405,659.96	49,802.04	455,462.00	3,735.15		459,197.15	512,734.34
7/15/2027		45,745.44	45,745.44	3,430.91		49,176.35	
1/15/2028	414,476.77	45,745.44	460,222.21	3,430.91		463,653.11	512,829.46
7/15/2028		41,600.67	41,600.67	3,120.05		44,720.72	
1/15/2029	423,485.20	41,600.67	465,085.87	3,120.05		468,205.92	512,926.65
7/15/2029		37,365.82	37,365.82	2,802.44		40,168.26	
1/15/2030	432,689.21	37,365.82	470,055.03	2,802.44		472,857.47	513,025.73
7/15/2030		33,038.93	33,038.93	2,477.92		35,516.85	
1/15/2031	442,092.75	33,038.93	475,131.68	2,477.92		477,609.60	513,126.44
7/15/2031		28,618.00	28,618.00	2,146.35		30,764.35	
1/15/2032	451,700.75	28,618.00	480,318.75	2,146.35		482,465.10	513,229.45
7/15/2032		24,100.99	24,100.99	1,807.57		25,908.57	
1/15/2033	461,518.17	24,100.99	485,619.16	1,807.57		487,426.73	513,335.30
7/15/2033		19,485.81	19,485.81	1,461.44		20,947.25	
1/15/2034	471,548.94	19,485.81	491,034.75	1,461.44		492,496.19	513,443.44
7/15/2034		14,770.32	14,770.32	1,107.77		15,878.10	
1/15/2035	481,797.02	14,770.32	496,567.34	1,107.77		497,675.11	513,553.21
7/15/2035		9,952.35	9,952.35	746.43		10,698.78	
1/15/2036	492,268.33	9,952.35	502,220.68	746.43		502,967.11	513,665.89
7/15/2036		5,029.67	5,029.67	377.23		5,406.89	
1/15/2037	502,966.83	5,029.67	507,996.50	377.23		508,373.72	513,780.62
	7,239,247.00	1,378,357.29	8,617,604.29	103,376.80		8,720,981.08	8,720,981.08

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust, interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

Prepared by Public Financial Management, Inc.

Massachusetts Clean Water Trust
Series 20
Haverhill Loan Amortization
CWP-14-15

Loan Amount Approved	8,535,442.00	Loan Origination Fee ($5.50/1000)	46,015.30
Principal Forgiveness	169,023.00	Loan Term (in years)	20
Amount to be Financed	8,366,419.00	Loan Rate	2.00%
	-	Closing Date	4/13/2017
		First Interest Payment	7/15/2017
		First Principal Payment	1/15/2018

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
4/13/2017							
7/15/2017		42,761.70	42,761.70	3,207.13	46,015.30	91,984.13	
1/15/2018	338,429.00	83,664.19	422,093.19	6,274.81		428,368.00	520,352.13
7/15/2018		80,279.90	80,279.90	6,020.99		86,300.89	
1/15/2019	345,785.00	80,279.90	426,064.90	6,020.99		432,085.89	518,386.79
7/15/2019		76,822.05	76,822.05	5,761.65		82,583.70	
1/15/2020	353,301.00	76,822.05	430,123.05	5,761.65		435,884.70	518,468.41
7/15/2020		73,289.04	73,289.04	5,496.68		78,785.72	
1/15/2021	360,979.00	73,289.04	434,268.04	5,496.68		439,764.72	518,550.44
7/15/2021		69,679.25	69,679.25	5,225.94		74,905.19	
1/15/2022	368,824.00	69,679.25	438,503.25	5,225.94		443,729.19	518,634.39
7/15/2022		65,991.01	65,991.01	4,949.33		70,940.34	
1/15/2023	376,840.00	65,991.01	442,831.01	4,949.33		447,780.34	518,720.67
7/15/2023		62,222.61	62,222.61	4,666.70		66,889.31	
1/15/2024	385,030.00	62,222.61	447,252.61	4,666.70		451,919.31	518,808.61
7/15/2024		58,372.31	58,372.31	4,377.92		62,750.23	
1/15/2025	393,399.00	58,372.31	451,771.31	4,377.92		456,149.23	518,899.47
7/15/2025		54,438.32	54,438.32	4,082.87		58,521.19	
1/15/2026	401,949.00	54,438.32	456,387.32	4,082.87		460,470.19	518,991.39
7/15/2026		50,418.83	50,418.83	3,781.41		54,200.24	
1/15/2027	410,684.00	50,418.83	461,102.83	3,781.41		464,884.24	519,084.48
7/15/2027		46,311.99	46,311.99	3,473.40		49,785.39	
1/15/2028	419,610.00	46,311.99	465,921.99	3,473.40		469,395.39	519,180.78
7/15/2028		42,115.89	42,115.89	3,158.69		45,274.58	
1/15/2029	428,730.00	42,115.89	470,845.89	3,158.69		474,004.58	519,279.16
7/15/2029		37,828.59	37,828.59	2,837.14		40,665.73	
1/15/2030	438,048.00	37,828.59	475,876.59	2,837.14		478,713.73	519,379.47
7/15/2030		33,448.11	33,448.11	2,508.61		35,956.72	
1/15/2031	447,568.00	33,448.11	481,016.11	2,508.61		483,524.72	519,481.44
7/15/2031		28,972.43	28,972.43	2,172.93		31,145.36	
1/15/2032	457,295.00	28,972.43	486,267.43	2,172.93		488,440.36	519,585.72
7/15/2032		24,399.48	24,399.48	1,829.96		26,229.44	
1/15/2033	467,234.00	24,399.48	491,633.48	1,829.96		493,463.44	519,692.88
7/15/2033		19,727.14	19,727.14	1,479.54		21,206.68	
1/15/2034	477,389.00	19,727.14	497,116.14	1,479.54		498,595.68	519,802.35
7/15/2034		14,953.25	14,953.25	1,121.49		16,074.74	
1/15/2035	487,764.00	14,953.25	502,717.25	1,121.49		503,838.74	519,913.49
7/15/2035		10,075.61	10,075.61	755.67		10,831.28	
1/15/2036	498,365.00	10,075.61	508,440.61	755.67		509,196.28	520,027.56
7/15/2036		5,091.96	5,091.96	381.90		5,473.86	
1/15/2037	509,196.00	5,091.96	514,287.96	381.90		514,669.86	520,143.71
7/15/2037							
	8,366,419.00	1,835,301.43	10,201,720.43	137,647.61	46,015.30	10,385,383.34	10,385,383.34

Notes:

**This project may qualify for principal forgiveness in accordance with schedule B to the Loan Agreement. Principal forgiveness shown on this schedule is an estimate, and is not a guarantee.

Massachusetts Water Clean Water Trust
Series 20 Swap
HAVERHILL Reamortization
CW-14-18

Original Loan Amount	3,283,090.00	Loan Origination Fee ($5.50/1000)	0.00
Principal Forgiveness	-	Loan Term (in years)	17
Principal Paid Down	407,134.00	Loan Rate	2.00%
Outstanding Loan Obligation	2,875,956.00	Closing Date	6/15/2020
Remaining Balance	(292,451.39)	First Payment	7/15/2020
Net New Loan Obligation	2,583,504.61		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
6/15/2020							
7/15/2020		28,272.14	28,272.14	2,120.41		30,392.55	
1/15/2021	127,248.55	25,835.05	153,083.60	1,937.63		155,021.22	185,413.78
7/15/2021		24,562.56	24,562.56	1,842.19		26,404.75	
1/15/2022	130,013.49	24,562.56	154,576.05	1,842.19		156,418.24	182,822.99
7/15/2022		23,262.43	23,262.43	1,744.68		25,007.11	
1/15/2023	132,839.62	23,262.43	156,102.05	1,744.68		157,846.73	182,853.84
7/15/2023		21,934.03	21,934.03	1,645.05		23,579.08	
1/15/2024	135,726.81	21,934.03	157,660.84	1,645.05		159,305.89	182,884.97
7/15/2024		20,576.76	20,576.76	1,543.26		22,120.02	
1/15/2025	138,676.89	20,576.76	159,253.65	1,543.26		160,796.90	182,916.92
7/15/2025		19,189.99	19,189.99	1,439.25		20,629.24	
1/15/2026	141,690.71	19,189.99	160,880.70	1,439.25		162,319.95	182,949.19
7/15/2026		17,773.09	17,773.09	1,332.98		19,106.07	
1/15/2027	144,770.12	17,773.09	162,543.20	1,332.98		163,876.18	182,982.25
7/15/2027		16,325.38	16,325.38	1,224.40		17,549.79	
1/15/2028	147,915.95	16,325.38	164,241.33	1,224.40		165,465.74	183,015.52
7/15/2028		14,846.22	14,846.22	1,113.47		15,959.69	
1/15/2029	151,131.04	14,846.22	165,977.26	1,113.47		167,090.73	183,050.42
7/15/2029		13,334.91	13,334.91	1,000.12		14,335.03	
1/15/2030	154,415.22	13,334.91	167,750.14	1,000.12		168,750.25	183,085.29
7/15/2030		11,790.76	11,790.76	884.31		12,675.07	
1/15/2031	157,771.32	11,790.76	169,562.08	884.31		170,446.39	183,121.46
7/15/2031		10,213.05	10,213.05	765.98		10,979.03	
1/15/2032	161,201.17	10,213.05	171,414.22	765.98		172,180.19	183,159.22
7/15/2032		8,601.04	8,601.04	645.08		9,246.12	
1/15/2033	164,704.57	8,601.04	173,305.61	645.08		173,950.69	183,196.80
7/15/2033		6,953.99	6,953.99	521.55		7,475.54	
1/15/2034	168,283.36	6,953.99	175,237.36	521.55		175,758.90	183,234.45
7/15/2034		5,271.16	5,271.16	395.34		5,666.49	
1/15/2035	171,941.35	5,271.16	177,212.50	395.34		177,607.84	183,274.34
7/15/2035		3,551.74	3,551.74	266.38		3,818.13	
1/15/2036	175,678.33	3,551.74	179,230.07	266.38		179,496.45	183,314.58
7/15/2036		1,794.96	1,794.96	134.62		1,929.58	
1/15/2037	179,496.12	1,794.96	181,291.08	134.62		181,425.70	183,355.29
	2,583,504.61	494,071.35	3,077,575.96	37,055.35		3,114,631.31	3,114,631.31

REPLACED BY DEBT SCHEDULE DATED JUNE 1, 2020

Prepared by Public Financial Management, Inc.

Massachusetts Clean Water Trust
Series 20
Haverhill Loan Amortization
CW-14-18

Loan Amount Approved	3,283,090.00		Loan Origination Fee ($5.50/1000)	18,057.00
Principal Forgiveness			Loan Term (in years)	20
Amount to be Financed	3,283,090.00	-	Loan Rate	2.00%
			Closing Date	4/13/2017
			First Interest Payment	7/15/2017
			First Principal Payment	1/15/2018

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
4/13/2017							
7/15/2017		16,780.24	16,780.24	1,258.52	18,057.00	36,095.75	
1/15/2018	132,803.00	32,830.90	165,633.90	2,462.32		168,096.22	204,191.97
7/15/2018		31,502.87	31,502.87	2,362.72		33,865.59	
1/15/2019	135,691.00	31,502.87	167,193.87	2,362.72		169,556.59	203,422.17
7/15/2019		30,145.96	30,145.96	2,260.95		32,406.91	
1/15/2020	138,640.00	30,145.96	168,785.96	2,260.95		171,046.91	203,453.81
7/15/2020		28,759.56	28,759.56	2,156.97		30,916.53	
1/15/2021	141,653.00	28,759.56	170,412.56	2,156.97		172,569.53	203,486.05
7/15/2021		27,343.03	27,343.03	2,050.73		29,393.76	
1/15/2022	144,731.00	27,343.03	172,074.03	2,050.73		174,124.76	203,518.51
7/15/2022		25,895.72	25,895.72	1,942.18		27,837.90	
1/15/2023	147,877.00	25,895.72	173,772.72	1,942.18		175,714.90	203,552.80
7/15/2023		24,416.95	24,416.95	1,831.27		26,248.22	
1/15/2024	151,091.00	24,416.95	175,507.95	1,831.27		177,339.22	203,587.44
7/15/2024		22,906.04	22,906.04	1,717.95		24,623.99	
1/15/2025	154,375.00	22,906.04	177,281.04	1,717.95		178,998.99	203,622.99
7/15/2025		21,362.29	21,362.29	1,602.17		22,964.46	
1/15/2026	157,730.00	21,362.29	179,092.29	1,602.17		180,694.46	203,658.92
7/15/2026		19,784.99	19,784.99	1,483.87		21,268.86	
1/15/2027	161,158.00	19,784.99	180,942.99	1,483.87		182,426.86	203,695.73
7/15/2027		18,173.41	18,173.41	1,363.01		19,536.42	
1/15/2028	164,660.00	18,173.41	182,833.41	1,363.01		184,196.42	203,732.83
7/15/2028		16,526.81	16,526.81	1,239.51		17,766.32	
1/15/2029	168,239.00	16,526.81	184,765.81	1,239.51		186,005.32	203,771.64
7/15/2029		14,844.42	14,844.42	1,113.33		15,957.75	
1/15/2030	171,895.00	14,844.42	186,739.42	1,113.33		187,852.75	203,810.50
7/15/2030		13,125.47	13,125.47	984.41		14,109.88	
1/15/2031	175,631.00	13,125.47	188,756.47	984.41		189,740.88	203,850.76
7/15/2031		11,369.16	11,369.16	852.69		12,221.85	
1/15/2032	179,449.00	11,369.16	190,818.16	852.69		191,670.85	203,892.69
7/15/2032		9,574.67	9,574.67	718.10		10,292.77	
1/15/2033	183,349.00	9,574.67	192,923.67	718.10		193,641.77	203,934.54
7/15/2033		7,741.18	7,741.18	580.59		8,321.77	
1/15/2034	187,333.00	7,741.18	195,074.18	580.59		195,654.77	203,976.54
7/15/2034		5,867.85	5,867.85	440.09		6,307.94	
1/15/2035	191,405.00	5,867.85	197,272.85	440.09		197,712.94	204,020.88
7/15/2035		3,953.80	3,953.80	296.54		4,250.34	
1/15/2036	195,565.00	3,953.80	199,518.80	296.54		199,815.34	204,065.67
7/15/2036		1,998.15	1,998.15	149.86		2,148.01	
1/15/2037	199,815.00	1,998.15	201,813.15	149.86		201,963.01	204,111.02
7/15/2037							
	3,283,090.00	720,195.80	4,003,285.80	54,014.68	18,057.00	4,075,357.48	4,075,357.48

Notes:

**This project may qualify for principal forgiveness in accordance with schedule B to the Loan Agreement. Principal forgiveness shown on this schedule is an estimate, and is not a guarantee.

Massachusetts Clean Water Trust
Pool 18-2016 Swap
HAVERHILL Reamortization
CWP-12-14

Original Loan Amount	5,397,132.00	Loan Origination Fee ($7.5/1000)	0.00
Principal Forgiveness	220,461.00	Loan Term (in years)	18
Principal Paid Down	209,401.00	Loan Rate	2.00%
Outstanding Loan Obligation	4,967,270.00	Closing Date	12/16/2016
Remaining Balance	(1,325,002.26)	First Payment	1/15/2017
Net New Loan Obligation	3,642,267.74		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
12/16/2016							
1/15/2017	156,881.87	47,537.97	204,419.84	3,565.35		207,985.19	
7/15/2017		34,853.86	34,853.86	2,614.04		37,467.90	
1/15/2018	160,291.51	34,853.86	195,145.37	2,614.04		197,759.41	235,227.30
7/15/2018		33,250.94	33,250.94	2,493.82		35,744.76	
1/15/2019	163,775.19	33,250.94	197,026.13	2,493.82		199,519.95	235,264.72
7/15/2019		31,613.19	31,613.19	2,370.99		33,984.18	
1/15/2020	167,334.32	31,613.19	198,947.51	2,370.99		201,318.50	235,302.68
7/15/2020		29,939.85	29,939.85	2,245.49		32,185.34	
1/15/2021	170,971.32	29,939.85	200,911.16	2,245.49		203,156.65	235,341.99
7/15/2021		28,230.14	28,230.14	2,117.26		30,347.40	
1/15/2022	174,686.56	28,230.14	202,916.69	2,117.26		205,033.95	235,381.35
7/15/2022		26,483.27	26,483.27	1,986.25		28,469.52	
1/15/2023	178,483.42	26,483.27	204,966.69	1,986.25		206,952.93	235,422.45
7/15/2023		24,698.44	24,698.44	1,852.38		26,550.82	
1/15/2024	182,362.26	24,698.44	207,060.70	1,852.38		208,913.08	235,463.90
7/15/2024		22,874.81	22,874.81	1,715.61		24,590.42	
1/15/2025	186,325.44	22,874.81	209,200.25	1,715.61		210,915.86	235,506.28
7/15/2025		21,011.56	21,011.56	1,575.87		22,587.43	
1/15/2026	190,375.27	21,011.56	211,386.83	1,575.87		212,962.70	235,550.13
7/15/2026		19,107.81	19,107.81	1,433.09		20,540.89	
1/15/2027	194,513.10	19,107.81	213,620.90	1,433.09		215,053.99	235,594.88
7/15/2027		17,162.67	17,162.67	1,287.20		18,449.88	
1/15/2028	198,740.20	17,162.67	215,902.88	1,287.20		217,190.08	235,639.95
7/15/2028		15,175.27	15,175.27	1,138.15		16,313.42	
1/15/2029	203,059.89	15,175.27	218,235.16	1,138.15		219,373.31	235,686.72
7/15/2029		13,144.67	13,144.67	985.85		14,130.52	
1/15/2030	207,473.42	13,144.67	220,618.10	985.85		221,603.95	235,734.47
7/15/2030		11,069.94	11,069.94	830.25		11,900.19	
1/15/2031	211,982.06	11,069.94	223,052.00	830.25		223,882.25	235,782.43
7/15/2031		8,950.12	8,950.12	671.26		9,621.38	
1/15/2032	216,589.05	8,950.12	225,539.17	671.26		226,210.43	235,831.81
7/15/2032		6,784.23	6,784.23	508.82		7,293.05	
1/15/2033	221,296.62	6,784.23	228,080.85	508.82		228,589.66	235,882.71
7/15/2033		4,571.26	4,571.26	342.84		4,914.11	
1/15/2034	226,105.96	4,571.26	230,677.23	342.84		231,020.07	235,934.18
7/15/2034		2,310.20	2,310.20	173.27		2,483.47	
1/15/2035	231,020.29	2,310.20	233,330.49	173.27		233,503.75	235,987.22
	3,642,267.74	750,002.45	4,392,270.19	56,250.18		4,448,520.37	4,240,535.18

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust, interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

Prepared by Public Financial Management, Inc.

Massachusetts Clean Water Trust
Series 18
Haverhill Loan Amortization
CWP-12-14

Initial Loan Amount	5,397,132.00	Loan Origination Fee ($5.50/1000)	28,471.69
Principal Forgiveness	(220,461.00)	Loan Term (in years)	20
Net Loan Obligation	5,176,671.00	Loan Rate	2.00%
		Closing Date	1/7/2015
		First Interest Payment	7/15/2015
		First Principal Payment	1/15/2016

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
1/7/2015							
7/15/2015		54,067.45	54,067.45	4,055.06	28,471.69	86,594.20	
1/15/2016	209,401.00	51,766.71	261,167.71	3,882.50		265,050.21	351,644.42
7/15/2016		49,672.70	49,672.70	3,725.45		53,398.15	
1/15/2017	213,953.00	49,672.70	263,625.70	3,725.45		267,351.15	320,749.31
7/15/2017		47,533.17	47,533.17	3,564.99		51,098.16	
1/15/2018	218,603.00	47,533.17	266,136.17	3,564.99		269,701.16	320,799.32
7/15/2018		45,347.14	45,347.14	3,401.04		48,748.18	
1/15/2019	223,354.00	45,347.14	268,701.14	3,401.04		272,102.18	320,850.35
7/15/2019		43,113.60	43,113.60	3,233.52		46,347.12	
1/15/2020	228,208.00	43,113.60	271,321.60	3,233.52		274,555.12	320,902.24
7/15/2020		40,831.52	40,831.52	3,062.36		43,893.88	
1/15/2021	233,168.00	40,831.52	273,999.52	3,062.36		277,061.88	320,955.77
7/15/2021		38,499.84	38,499.84	2,887.49		41,387.33	
1/15/2022	238,235.00	38,499.84	276,734.84	2,887.49		279,622.33	321,009.66
7/15/2022		36,117.49	36,117.49	2,708.81		38,826.30	
1/15/2023	243,413.00	36,117.49	279,530.49	2,708.81		282,239.30	321,065.60
7/15/2023		33,683.36	33,683.36	2,526.25		36,209.61	
1/15/2024	248,703.00	33,683.36	282,386.36	2,526.25		284,912.61	321,122.22
7/15/2024		31,196.33	31,196.33	2,339.72		33,536.05	
1/15/2025	254,108.00	31,196.33	285,304.33	2,339.72		287,644.05	321,180.11
7/15/2025		28,655.25	28,655.25	2,149.14		30,804.39	
1/15/2026	259,631.00	28,655.25	288,286.25	2,149.14		290,435.39	321,239.79
7/15/2026		26,058.94	26,058.94	1,954.42		28,013.36	
1/15/2027	265,274.00	26,058.94	291,332.94	1,954.42		293,287.36	321,300.72
7/15/2027		23,406.20	23,406.20	1,755.47		25,161.67	
1/15/2028	271,039.00	23,406.20	294,445.20	1,755.47		296,200.67	321,362.33
7/15/2028		20,695.81	20,695.81	1,552.19		22,248.00	
1/15/2029	276,930.00	20,695.81	297,625.81	1,552.19		299,178.00	321,425.99
7/15/2029		17,926.51	17,926.51	1,344.49		19,271.00	
1/15/2030	282,949.00	17,926.51	300,875.51	1,344.49		302,220.00	321,491.00
7/15/2030		15,097.02	15,097.02	1,132.28		16,229.30	
1/15/2031	289,098.00	15,097.02	304,195.02	1,132.28		305,327.30	321,556.59
7/15/2031		12,206.04	12,206.04	915.45		13,121.49	
1/15/2032	295,381.00	12,206.04	307,587.04	915.45		308,502.49	321,623.99
7/15/2032		9,252.23	9,252.23	693.92		9,946.15	
1/15/2033	301,801.00	9,252.23	311,053.23	693.92		311,747.15	321,693.29
7/15/2033		6,234.22	6,234.22	467.57		6,701.79	
1/15/2034	308,360.00	6,234.22	314,594.22	467.57		315,061.79	321,763.57
7/15/2034		3,150.62	3,150.62	236.30		3,386.92	
1/15/2035	315,062.00	3,150.62	318,212.62	236.30		318,448.92	321,835.83
7/15/2035							
	5,176,671.00	1,163,190.14	6,339,861.14	87,239.26	28,471.69	6,455,572.09	6,455,572.09

Notes:
**This project may qualify for principal forgiveness in accordance with schedule B to the Loan Agreement.

Massachusetts Clean Water Trust
Pool 17 - 2015 Swap
HAVERHILL Reamortization
CWP-10-23

Original Loan Amount	4,300,000.00	Loan Origination Fee ($7.5/1000)	0.00
Principal Forgiveness	999,043.00	Loan Term (in years)	18
Principal Paid Down	269,956.00	Loan Rate	2.00%
Outstanding Loan Obligation	3,031,001.00	Closing Date	5/14/2015
Remaining Balance	(435,053.34)	First Payment	7/15/2015
Net New Loan Obligation	2,595,947.66		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/14/2015							
7/15/2015		28,835.66	28,835.66	1,946.96		30,782.62	
1/15/2016	119,386.12	25,959.48	145,345.60	1,946.96		147,292.56	178,075.18
7/15/2016		24,765.62	24,765.62	1,857.42		26,623.04	
1/15/2017	121,981.28	24,765.62	146,746.89	1,857.42		148,604.32	175,227.35
7/15/2017		23,545.80	23,545.80	1,765.94		25,311.74	
1/15/2018	124,631.98	23,545.80	148,177.79	1,765.94		149,943.72	175,255.46
7/15/2018		22,299.48	22,299.48	1,672.46		23,971.94	
1/15/2019	127,341.03	22,299.48	149,640.52	1,672.46		151,312.98	175,284.92
7/15/2019		21,026.07	21,026.07	1,576.96		22,603.03	
1/15/2020	130,108.22	21,026.07	151,134.29	1,576.96		152,711.25	175,314.27
7/15/2020		19,724.99	19,724.99	1,479.37		21,204.36	
1/15/2021	132,936.32	19,724.99	152,661.31	1,479.37		154,140.68	175,345.05
7/15/2021		18,395.63	18,395.63	1,379.67		19,775.30	
1/15/2022	135,825.12	18,395.63	154,220.75	1,379.67		155,600.42	175,375.72
7/15/2022		17,037.38	17,037.38	1,277.80		18,315.18	
1/15/2023	138,777.40	17,037.38	155,814.78	1,277.80		157,092.58	175,407.76
7/15/2023		15,649.60	15,649.60	1,173.72		16,823.32	
1/15/2024	141,792.93	15,649.60	157,442.53	1,173.72		158,616.25	175,439.57
7/15/2024		14,231.67	14,231.67	1,067.38		15,299.05	
1/15/2025	144,875.47	14,231.67	159,107.15	1,067.38		160,174.52	175,473.57
7/15/2025		12,782.92	12,782.92	958.72		13,741.64	
1/15/2026	148,023.79	12,782.92	160,806.71	958.72		161,765.43	175,507.06
7/15/2026		11,302.68	11,302.68	847.70		12,150.38	
1/15/2027	151,240.64	11,302.68	162,543.32	847.70		163,391.02	175,541.40
7/15/2027		9,790.27	9,790.27	734.27		10,524.54	
1/15/2028	154,527.77	9,790.27	164,318.04	734.27		165,052.32	175,576.86
7/15/2028		8,245.00	8,245.00	618.37		8,863.37	
1/15/2029	157,885.93	8,245.00	166,130.93	618.37		166,749.30	175,612.67
7/15/2029		6,666.14	6,666.14	499.96		7,166.10	
1/15/2030	161,317.86	6,666.14	167,983.99	499.96		168,483.95	175,650.05
7/15/2030		5,052.96	5,052.96	378.97		5,431.93	
1/15/2031	164,823.28	5,052.96	169,876.24	378.97		170,255.21	175,687.14
7/15/2031		3,404.72	3,404.72	255.35		3,660.08	
1/15/2032	168,405.94	3,404.72	171,810.67	255.35		172,066.02	175,726.10
7/15/2032		1,720.67	1,720.67	129.05		1,849.72	
1/15/2033	172,066.55	1,720.67	173,787.22	129.05		173,916.27	175,765.98
7/15/2033							
	2,595,947.66	526,078.32	3,122,025.98	39,240.16		3,161,266.14	3,161,266.14

Massachusetts Water Pollution Abatement Trust
Series 17A
HAVERHILL Loan Amortization
CWP-10-23

Initial Loan Amount	4,300,000.00
Principal Forgiveness	(999,043.00)
Net Loan Obligation	3,300,957.00

Loan Origination Fee ($5.50/1000)	18,155.26
Loan Term (in years)	20
Loan Rate	2.00%
Closing Date	5/22/2013
First Interest Payment	7/15/2013
First Principal Payment	1/15/2014

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/22/2013							
7/15/2013		9,719.48	9,719.48	728.96	18,155.26	28,603.71	
1/15/2014	133,527.00	33,009.57	166,536.57	2,475.72		169,012.29	197,616.00
7/15/2014		31,674.30	31,674.30	2,375.57		34,049.87	
1/15/2015	136,429.00	31,674.30	168,103.30	2,375.57		170,478.87	204,528.75
7/15/2015		30,310.01	30,310.01	2,273.25		32,583.26	
1/15/2016	139,394.00	30,310.01	169,704.01	2,273.25		171,977.26	204,560.52
7/15/2016		28,916.07	28,916.07	2,168.71		31,084.78	
1/15/2017	142,424.00	28,916.07	171,340.07	2,168.71		173,508.78	204,593.55
7/15/2017		27,491.83	27,491.83	2,061.89		29,553.72	
1/15/2018	145,519.00	27,491.83	173,010.83	2,061.89		175,072.72	204,626.43
7/15/2018		26,036.64	26,036.64	1,952.75		27,989.39	
1/15/2019	148,682.00	26,036.64	174,718.64	1,952.75		176,671.39	204,660.78
7/15/2019		24,549.82	24,549.82	1,841.24		26,391.06	
1/15/2020	151,913.00	24,549.82	176,462.82	1,841.24		178,304.06	204,695.11
7/15/2020		23,030.69	23,030.69	1,727.30		24,757.99	
1/15/2021	155,215.00	23,030.69	178,245.69	1,727.30		179,972.99	204,730.98
7/15/2021		21,478.54	21,478.54	1,610.89		23,089.43	
1/15/2022	158,588.00	21,478.54	180,066.54	1,610.89		181,677.43	204,766.86
7/15/2022		19,892.66	19,892.66	1,491.95		21,384.61	
1/15/2023	162,035.00	19,892.66	181,927.66	1,491.95		183,419.61	204,804.22
7/15/2023		18,272.31	18,272.31	1,370.42		19,642.73	
1/15/2024	165,556.00	18,272.31	183,828.31	1,370.42		185,198.73	204,841.47
7/15/2024		16,616.75	16,616.75	1,246.26		17,863.01	
1/15/2025	169,155.00	16,616.75	185,771.75	1,246.26		187,018.01	204,881.01
7/15/2025		14,925.20	14,925.20	1,119.39		16,044.59	
1/15/2026	172,831.00	14,925.20	187,756.20	1,119.39		188,875.59	204,920.18
7/15/2026		13,196.89	13,196.89	989.77		14,186.66	
1/15/2027	176,587.00	13,196.89	189,783.89	989.77		190,773.66	204,960.31
7/15/2027		11,431.02	11,431.02	857.33		12,288.35	
1/15/2028	180,425.00	11,431.02	191,856.02	857.33		192,713.35	205,001.69
7/15/2028		9,626.77	9,626.77	722.01		10,348.78	
1/15/2029	184,346.00	9,626.77	193,972.77	722.01		194,694.78	205,043.56
7/15/2029		7,783.31	7,783.31	583.75		8,367.06	
1/15/2030	188,353.00	7,783.31	196,136.31	583.75		196,720.06	205,087.12
7/15/2030		5,899.78	5,899.78	442.48		6,342.26	
1/15/2031	192,446.00	5,899.78	198,345.78	442.48		198,788.26	205,130.53
7/15/2031		3,975.32	3,975.32	298.15		4,273.47	
1/15/2032	196,629.00	3,975.32	200,604.32	298.15		200,902.47	205,175.94
7/15/2032		2,009.03	2,009.03	150.68		2,159.71	
1/15/2033	200,903.00	2,009.03	202,912.03	150.68		203,062.71	205,222.41
7/15/2033							
	3,300,957.00	716,962.93	4,017,919.93	53,772.22	18,155.26	4,089,847.42	4,089,847.42

Notes:

**This project may qualify for principal forgiveness in accordance with schedule B to the Loan Agreement. Principal forgiveness shown on this schedule is an estimate, and is not a guarantee.

Massachusetts Water Pollution Abatement Trust
Pool 15-2012 Swap
HAVERHILL Reamortization
CW-09-05

Original Loan Amount	1,756,067.00	Loan Origination Fee ($7.5/1000)	0.00
Principal Forgiveness (ARRA)	-	Loan Term (in years)	18
Principal Paid Down	72,129.00	Loan Rate	2.00%
Outstanding Loan Obligation	1,683,938.00	Closing Date	6/6/2012
Remaining Balance	(556,076.12)	First Payment	7/15/2012
Net New Loan Obligation	1,127,861.88		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
6/6/2012							
7/15/2012	49,634.42	15,634.55	65,268.97	845.90		66,114.87	
1/15/2013		10,782.27	10,782.27	808.67		11,590.95	77,705.81
7/15/2013	50,599.87	10,782.27	61,382.14	808.67		62,190.81	
1/15/2014		10,276.28	10,276.28	770.72		11,047.00	73,237.81
7/15/2014	51,585.00	10,276.28	61,861.28	770.72		62,632.00	
1/15/2015		9,760.43	9,760.43	732.03		10,492.46	73,124.46
7/15/2015	52,588.57	9,760.43	62,349.00	732.03		63,081.03	
1/15/2016		9,234.54	9,234.54	692.59		9,927.13	73,008.16
7/15/2016	53,612.33	9,234.54	62,846.87	692.59		63,539.47	
1/15/2017		8,698.42	8,698.42	652.38		9,350.80	72,890.26
7/15/2017	54,655.03	8,698.42	63,353.45	652.38		64,005.83	
1/15/2018		8,151.87	8,151.87	611.39		8,763.26	72,769.08
7/15/2018	55,718.39	8,151.87	63,870.26	611.39		64,481.65	
1/15/2019		7,594.68	7,594.68	569.60		8,164.28	72,645.93
7/15/2019	56,802.16	7,594.68	64,396.84	569.60		64,966.44	
1/15/2020		7,026.66	7,026.66	527.00		7,553.66	72,520.10
7/15/2020	57,907.06	7,026.66	64,933.72	527.00		65,460.72	
1/15/2021		6,447.59	6,447.59	483.57		6,931.16	72,391.88
7/15/2021	59,033.80	6,447.59	65,481.39	483.57		65,964.96	
1/15/2022		5,857.25	5,857.25	439.29		6,296.55	72,261.51
7/15/2022	60,182.11	5,857.25	66,039.36	439.29		66,478.65	
1/15/2023		5,255.43	5,255.43	394.16		5,649.59	72,128.24
7/15/2023	61,351.69	5,255.43	66,607.12	394.16		67,001.27	
1/15/2024		4,641.91	4,641.91	348.14		4,990.06	71,991.33
7/15/2024	62,545.24	4,641.91	67,187.15	348.14		67,535.30	
1/15/2025		4,016.46	4,016.46	301.23		4,317.70	71,852.99
7/15/2025	63,761.46	4,016.46	67,777.92	301.23		68,079.15	
1/15/2026		3,378.85	3,378.85	253.41		3,632.26	71,711.41
7/15/2026	65,001.03	3,378.85	68,379.88	253.41		68,633.29	
1/15/2027		2,728.84	2,728.84	204.66		2,933.50	71,566.79
7/15/2027	66,263.64	2,728.84	68,992.48	204.66		69,197.14	
1/15/2028		2,066.20	2,066.20	154.97		2,221.17	71,418.31
7/15/2028	67,551.97	2,066.20	69,618.17	154.97		69,773.14	
1/15/2029		1,390.68	1,390.68	104.30		1,494.98	71,268.12
7/15/2029	68,864.68	1,390.68	70,255.36	104.30		70,359.66	
1/15/2030		702.03	702.03	52.65		754.69	71,114.35
7/15/2030	70,203.43	702.03	70,905.46	52.65		70,958.11	
1/15/2031							70,958.11
	1,127,861.88	231,655.34	1,359,517.22	17,047.46		1,376,564.67	1,376,564.67

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust, interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

FINAL

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
State Revolving Fund Bonds
Series 15

SCHEDULE C

Haverhill	
CW-09-05	
Loan Interest Rate	2.00%

Final Structuring Analysis

Schedule of Loan Repayments

Initial Loan Obligation:	$1,756,067.00

	Schedule of Loan Repayments			Admin. Fee	Loan	Total
Date	Principal	Interest	Total	0.00075	Origination Fee	Due
08-Jul-10						
15-Jan-11	$0.00	$18,243.58	$18,243.58	$1,317.05	11,677.85	$31,238.48
15-Jul-11	72,129.00	17,560.67	89,689.67	1,317.05		91,006.72
15-Jan-12	0.00	16,839.38	16,839.38	1,262.95		18,102.33
15-Jul-12	73,586.00	16,839.38	90,425.38	1,262.95		91,688.33
15-Jan-13	0.00	16,103.52	16,103.52	1,207.76		17,311.28
15-Jul-13	75,072.00	16,103.52	91,175.52	1,207.76		92,383.28
15-Jan-14	0.00	15,352.80	15,352.80	1,151.46		16,504.26
15-Jul-14	76,589.00	15,352.80	91,941.80	1,151.46		93,093.26
15-Jan-15	0.00	14,586.91	14,586.91	1,094.02		15,680.93
15-Jul-15	78,136.00	14,586.91	92,722.91	1,094.02		93,816.93
15-Jan-16	0.00	13,805.55	13,805.55	1,035.42		14,840.97
15-Jul-16	79,715.00	13,805.55	93,520.55	1,035.42		94,555.97
15-Jan-17	0.00	13,008.40	13,008.40	975.63		13,984.03
15-Jul-17	81,325.00	13,008.40	94,333.40	975.63		95,309.03
15-Jan-18	0.00	12,195.15	12,195.15	914.64		13,109.79
15-Jul-18	82,968.00	12,195.15	95,163.15	914.64		96,077.79
15-Jan-19	0.00	11,365.47	11,365.47	852.41		12,217.88
15-Jul-19	84,644.00	11,365.47	96,009.47	852.41		96,861.88
15-Jan-20	0.00	10,519.03	10,519.03	788.93		11,307.96
15-Jul-20	86,354.00	10,519.03	96,873.03	788.93		97,661.96
15-Jan-21	0.00	9,655.49	9,655.49	724.16		10,379.65
15-Jul-21	88,099.00	9,655.49	97,754.49	724.16		98,478.65
15-Jan-22	0.00	8,774.50	8,774.50	658.09		9,432.59
15-Jul-22	89,879.00	8,774.50	98,653.50	658.09		99,311.59
15-Jan-23	0.00	7,875.71	7,875.71	590.68		8,466.39
15-Jul-23	91,694.00	7,875.71	99,569.71	590.68		100,160.39
15-Jan-24	0.00	6,958.77	6,958.77	521.91		7,480.68
15-Jul-24	93,547.00	6,958.77	100,505.77	521.91		101,027.68
15-Jan-25	0.00	6,023.30	6,023.30	451.75		6,475.05
15-Jul-25	95,437.00	6,023.30	101,460.30	451.75		101,912.05
15-Jan-26	0.00	5,068.93	5,068.93	380.17		5,449.10
15-Jul-26	97,365.00	5,068.93	102,433.93	380.17		102,814.10
15-Jan-27	0.00	4,095.28	4,095.28	307.15		4,402.43
15-Jul-27	99,331.00	4,095.28	103,426.28	307.15		103,733.43
15-Jan-28	0.00	3,101.97	3,101.97	232.65		3,334.62
15-Jul-28	101,338.00	3,101.97	104,439.97	232.65		104,672.62
15-Jan-29	0.00	2,088.59	2,088.59	156.64		2,245.23
15-Jul-29	103,385.00	2,088.59	105,473.59	156.64		105,630.23
15-Jan-30	0.00	1,054.74	1,054.74	79.11		1,133.85
15-Jul-30	105,474.00	1,054.74	106,528.74	79.11		106,607.85
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
15-Jul-38	0.00	0.00	0.00	0.00		0.00
15-Jan-39	0.00	0.00	0.00	0.00		0.00
15-Jul-39	0.00	0.00	0.00	0.00		0.00
15-Jan-40	0.00	0.00	0.00	0.00		0.00
15-Jul-40	0.00	0.00	0.00	0.00		0.00
15-Jan-41	0.00	0.00	0.00	0.00		0.00
15-Jul-41	0.00	0.00	0.00	0.00		0.00
	$1,756,067.00	$392,751.23	$2,148,818.23	$29,405.16	$11,677.85	$2,189,901.24

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
State Revolving Fund Bonds
Series 15
Haverhill
CW-08-28
Final Structuring Analysis

SCHEDULE C

Loan Interest Rate **2.00%**

Schedule of Loan Repayments

Initial Loan Obligation: **$743,851.00**

Date	Schedule of Loan Repayments: Principal	Interest	Total	Admin. Fee 0.00075	Loan Origination Fee	Total Due
08-Jul-10						
15-Jan-11	$0.00	$7,727.79	$7,727.79	$557.89	4,946.61	$13,232.29
15-Jul-11	30,553.00	7,438.51	37,991.51	557.89		38,549.40
15-Jan-12	0.00	7,132.98	7,132.98	534.97		7,667.95
15-Jul-12	31,170.00	7,132.98	38,302.98	534.97		38,837.95
15-Jan-13	0.00	6,821.28	6,821.28	511.60		7,332.88
15-Jul-13	31,800.00	6,821.28	38,621.28	511.60		39,132.88
15-Jan-14	0.00	6,503.28	6,503.28	487.75		6,991.03
15-Jul-14	32,442.00	6,503.28	38,945.28	487.75		39,433.03
15-Jan-15	0.00	6,178.86	6,178.86	463.41		6,642.27
15-Jul-15	33,098.00	6,178.86	39,276.86	463.41		39,740.27
15-Jan-16	0.00	5,847.88	5,847.88	438.59		6,286.47
15-Jul-16	33,766.00	5,847.88	39,613.88	438.59		40,052.47
15-Jan-17	0.00	5,510.22	5,510.22	413.27		5,923.49
15-Jul-17	34,448.00	5,510.22	39,958.22	413.27		40,371.49
15-Jan-18	0.00	5,165.74	5,165.74	387.43		5,553.17
15-Jul-18	35,144.00	5,165.74	40,309.74	387.43		40,697.17
15-Jan-19	0.00	4,814.30	4,814.30	361.07		5,175.37
15-Jul-19	35,854.00	4,814.30	40,668.30	361.07		41,029.37
15-Jan-20	0.00	4,455.76	4,455.76	334.18		4,789.94
15-Jul-20	36,579.00	4,455.76	41,034.76	334.18		41,368.94
15-Jan-21	0.00	4,089.97	4,089.97	306.75		4,396.72
15-Jul-21	37,318.00	4,089.97	41,407.97	306.75		41,714.72
15-Jan-22	0.00	3,716.79	3,716.79	278.76		3,995.55
15-Jul-22	38,072.00	3,716.79	41,788.79	278.76		42,067.55
15-Jan-23	0.00	3,336.07	3,336.07	250.21		3,586.28
15-Jul-23	38,841.00	3,336.07	42,177.07	250.21		42,427.28
15-Jan-24	0.00	2,947.66	2,947.66	221.07		3,168.73
15-Jul-24	39,625.00	2,947.66	42,572.66	221.07		42,793.73
15-Jan-25	0.00	2,551.41	2,551.41	191.36		2,742.77
15-Jul-25	40,426.00	2,551.41	42,977.41	191.36		43,168.77
15-Jan-26	0.00	2,147.15	2,147.15	161.04		2,308.19
15-Jul-26	41,242.00	2,147.15	43,389.15	161.04		43,550.19
15-Jan-27	0.00	1,734.73	1,734.73	130.10		1,864.83
15-Jul-27	42,076.00	1,734.73	43,810.73	130.10		43,940.83
15-Jan-28	0.00	1,313.97	1,313.97	98.55		1,412.52
15-Jul-28	42,926.00	1,313.97	44,239.97	98.55		44,338.52
15-Jan-29	0.00	884.71	884.71	66.35		951.06
15-Jul-29	43,793.00	884.71	44,677.71	66.35		44,744.06
15-Jan-30	0.00	446.78	446.78	33.51		480.29
15-Jul-30	44,678.00	446.78	45,124.78	33.51		45,158.29
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
15-Jul-38	0.00	0.00	0.00	0.00		0.00
15-Jan-39	0.00	0.00	0.00	0.00		0.00
15-Jul-39	0.00	0.00	0.00	0.00		0.00
15-Jan-40	0.00	0.00	0.00	0.00		0.00
15-Jul-40	0.00	0.00	0.00	0.00		0.00
15-Jan-41	0.00	0.00	0.00	0.00		0.00
15-Jul-41	0.00	0.00	0.00	0.00		0.00
	$743,851.00	$166,365.38	$910,216.38	$12,455.72	$4,946.61	$927,618.71

Massachusetts Water Pollution Abatement Trust
Series 17A
HAVERHILL Loan Amortization
CW-08-28-A

Initial Loan Amount	71,925.00	Loan Origination Fee ($5.50/1000)	395.59
Principal Forgiveness	-	Loan Term (in years)	18
Net Loan Obligation	71,925.00	Loan Rate	2.00%
		Closing Date	5/22/2013
		First Interest Payment	7/15/2013
		First Principal Payment	1/15/2014

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/22/2013							
7/15/2013		211.78	211.78	15.88	395.59	623.25	
1/15/2014	3,308.00	719.25	4,027.25	53.94		4,081.19	4,704.44
7/15/2014		686.17	686.17	51.46		737.63	
1/15/2015	3,380.00	686.17	4,066.17	51.46		4,117.63	4,855.27
7/15/2015		652.37	652.37	48.93		701.30	
1/15/2016	3,453.00	652.37	4,105.37	48.93		4,154.30	4,855.60
7/15/2016		617.84	617.84	46.34		664.18	
1/15/2017	3,528.00	617.84	4,145.84	46.34		4,192.18	4,856.36
7/15/2017		582.56	582.56	43.69		626.25	
1/15/2018	3,605.00	582.56	4,187.56	43.69		4,231.25	4,857.50
7/15/2018		546.51	546.51	40.99		587.50	
1/15/2019	3,683.00	546.51	4,229.51	40.99		4,270.50	4,858.00
7/15/2019		509.68	509.68	38.23		547.91	
1/15/2020	3,763.00	509.68	4,272.68	38.23		4,310.91	4,858.81
7/15/2020		472.05	472.05	35.40		507.45	
1/15/2021	3,845.00	472.05	4,317.05	35.40		4,352.45	4,859.91
7/15/2021		433.60	433.60	32.52		466.12	
1/15/2022	3,929.00	433.60	4,362.60	32.52		4,395.12	4,861.24
7/15/2022		394.31	394.31	29.57		423.88	
1/15/2023	4,014.00	394.31	4,408.31	29.57		4,437.88	4,861.77
7/15/2023		354.17	354.17	26.56		380.73	
1/15/2024	4,101.00	354.17	4,455.17	26.56		4,481.73	4,862.47
7/15/2024		313.16	313.16	23.49		336.65	
1/15/2025	4,190.00	313.16	4,503.16	23.49		4,526.65	4,863.29
7/15/2025		271.26	271.26	20.34		291.60	
1/15/2026	4,281.00	271.26	4,552.26	20.34		4,572.60	4,864.21
7/15/2026		228.45	228.45	17.13		245.58	
1/15/2027	4,375.00	228.45	4,603.45	17.13		4,620.58	4,866.17
7/15/2027		184.70	184.70	13.85		198.55	
1/15/2028	4,470.00	184.70	4,654.70	13.85		4,668.55	4,867.11
7/15/2028		140.00	140.00	10.50		150.50	
1/15/2029	4,567.00	140.00	4,707.00	10.50		4,717.50	4,868.00
7/15/2029		94.33	94.33	7.07		101.40	
1/15/2030	4,666.00	94.33	4,760.33	7.07		4,767.40	4,868.81
7/15/2030		47.67	47.67	3.58		51.25	
1/15/2031	4,767.00	47.67	4,814.67	3.58		4,818.25	4,869.49
7/15/2031							
	71,925.00	13,988.69	85,913.69	1,049.15	395.59	87,358.43	87,358.43

Massachusetts Water Pollution Abatement Trust
Series 16
Haverhill Loan Amortization
CW-06-38

Initial Loan Amount	551,805.00	Loan Origination Fee ($5.57/1000)	3,073.55
Principal Forgiveness	-	Loan Term (in years)	18
Net Loan Obligation	551,805.00	Loan Rate	2.00%
		Closing Date	6/13/2012
		First Payment	1/15/2013

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
6/13/2012							
1/15/2013		6,499.04	6,499.04	413.85	3,073.55	9,986.44	9,986.44
7/15/2013	25,377.00	5,518.05	30,895.05	413.85		31,308.90	
1/15/2014		5,264.28	5,264.28	394.82		5,659.10	36,968.00
7/15/2014	25,929.00	5,264.28	31,193.28	394.82		31,588.10	
1/15/2015		5,004.99	5,004.99	375.37		5,380.36	36,968.47
7/15/2015	26,492.00	5,004.99	31,496.99	375.37		31,872.36	
1/15/2016		4,740.07	4,740.07	355.51		5,095.58	36,967.94
7/15/2016	27,068.00	4,740.07	31,808.07	355.51		32,163.58	
1/15/2017		4,469.39	4,469.39	335.20		4,804.59	36,968.17
7/15/2017	27,656.00	4,469.39	32,125.39	335.20		32,460.59	
1/15/2018		4,192.83	4,192.83	314.46		4,507.29	36,967.89
7/15/2018	28,258.00	4,192.83	32,450.83	314.46		32,765.29	
1/15/2019		3,910.25	3,910.25	293.27		4,203.52	36,968.81
7/15/2019	28,872.00	3,910.25	32,782.25	293.27		33,075.52	
1/15/2020		3,621.53	3,621.53	271.61		3,893.14	36,968.66
7/15/2020	29,499.00	3,621.53	33,120.53	271.61		33,392.14	
1/15/2021		3,326.54	3,326.54	249.49		3,576.03	36,968.18
7/15/2021	30,140.00	3,326.54	33,466.54	249.49		33,716.03	
1/15/2022		3,025.14	3,025.14	226.89		3,252.03	36,968.06
7/15/2022	30,795.00	3,025.14	33,820.14	226.89		34,047.03	
1/15/2023		2,717.19	2,717.19	203.79		2,920.98	36,968.00
7/15/2023	31,465.00	2,717.19	34,182.19	203.79		34,385.98	
1/15/2024		2,402.54	2,402.54	180.19		2,582.73	36,968.71
7/15/2024	32,148.00	2,402.54	34,550.54	180.19		34,730.73	
1/15/2025		2,081.06	2,081.06	156.08		2,237.14	36,967.87
7/15/2025	32,847.00	2,081.06	34,928.06	156.08		35,084.14	
1/15/2026		1,752.59	1,752.59	131.44		1,884.03	36,968.17
7/15/2026	33,561.00	1,752.59	35,313.59	131.44		35,445.03	
1/15/2027		1,416.98	1,416.98	106.27		1,523.25	36,968.29
7/15/2027	34,290.00	1,416.98	35,706.98	106.27		35,813.25	
1/15/2028		1,074.08	1,074.08	80.56		1,154.64	36,967.89
7/15/2028	35,036.00	1,074.08	36,110.08	80.56		36,190.64	
1/15/2029		723.72	723.72	54.28		778.00	36,968.64
7/15/2029	35,797.00	723.72	36,520.72	54.28		36,575.00	
1/15/2030		365.75	365.75	27.43		393.18	36,968.18
7/15/2030	36,575.00	365.75	36,940.75	27.43		36,968.18	
1/15/2031							36,968.18
	551,805.00	112,194.95	663,999.95	8,341.05	3,073.55	675,414.55	675,414.55

Notes:

* Not withstanding the schedule of Loan Repayments set forth above, until the Loan is refinanced with proceeds of bonds to be issued by the Trust interest shall accrue at the Discount Rate set forth in the Loan Agreement only on that portion of the Loan that has been disbursed to or for the account of the Borrower, payable on the date of such refinancing. Thereafter, Loan Repayments shall be payable on the Loan in accordance.

**This project may qualify for principal forgiveness in accordance with schedule B to the Loan Agreement. Principal forgiveness shown on this schedule is an estimate, and is not a guarantee.

CW-06-38 ✓

Massachusetts Water Pollution Abatement Trust
Direct Loan

SCHEDULE C

Haverhill
CW-06-38
Final Structuring Analysis

Loan Interest Rate 2.00%

Schedule of Loan Repayments

Initial Loan Obligation: $575,500.00

	Schedule of Loan Repayments			Admin. Fee	Loan	Total
Date	Principal	Interest	Total	0.00075	Origination Fee	Due
08-Jul-10						
15-Jan-11	$0.00	$5,978.81	$5,978.81	$431.63	3,827.08	$10,237.52
15-Jul-11	23,638.00	5,755.00	29,393.00	431.63		29,824.63
15-Jan-12	0.00	5,518.62	5,518.62	413.90		5,932.52
15-Jul-12	24,116.00	5,518.62	29,634.62	413.90		30,048.52
15-Jan-13	0.00	5,277.46	5,277.46	395.81		5,673.27
15-Jul-13	24,603.00	5,277.46	29,880.46	395.81		30,276.27
15-Jan-14	0.00	5,031.43	5,031.43	377.36		5,408.79
15-Jul-14	25,100.00	5,031.43	30,131.43	377.36		30,508.79
15-Jan-15	0.00	4,780.43	4,780.43	358.53		5,138.96
15-Jul-15	25,607.00	4,780.43	30,387.43	358.53		30,745.96
15-Jan-16	0.00	4,524.36	4,524.36	339.33		4,863.69
15-Jul-16	26,124.00	4,524.36	30,648.36	339.33		30,987.69
15-Jan-17	0.00	4,263.12	4,263.12	319.73		4,582.85
15-Jul-17	26,652.00	4,263.12	30,915.12	319.73		31,234.85
15-Jan-18	0.00	3,996.60	3,996.60	299.75		4,296.35
15-Jul-18	27,190.00	3,996.60	31,186.60	299.75		31,486.35
15-Jan-19	0.00	3,724.70	3,724.70	279.35		4,004.05
15-Jul-19	27,740.00	3,724.70	31,464.70	279.35		31,744.05
15-Jan-20	0.00	3,447.30	3,447.30	258.55		3,705.85
15-Jul-20	28,300.00	3,447.30	31,747.30	258.55		32,005.85
15-Jan-21	0.00	3,164.30	3,164.30	237.32		3,401.62
15-Jul-21	28,872.00	3,164.30	32,036.30	237.32		32,273.62
15-Jan-22	0.00	2,875.58	2,875.58	215.67		3,091.25
15-Jul-22	29,455.00	2,875.58	32,330.58	215.67		32,546.25
15-Jan-23	0.00	2,581.03	2,581.03	193.58		2,774.61
15-Jul-23	30,050.00	2,581.03	32,631.03	193.58		32,824.61
15-Jan-24	0.00	2,280.53	2,280.53	171.04		2,451.57
15-Jul-24	30,657.00	2,280.53	32,937.53	171.04		33,108.57
15-Jan-25	0.00	1,973.96	1,973.96	148.05		2,122.01
15-Jul-25	31,276.00	1,973.96	33,249.96	148.05		33,398.01
15-Jan-26	0.00	1,661.20	1,661.20	124.59		1,785.79
15-Jul-26	31,908.00	1,661.20	33,569.20	124.59		33,693.79
15-Jan-27	0.00	1,342.12	1,342.12	100.66		1,442.78
15-Jul-27	32,553.00	1,342.12	33,895.12	100.66		33,995.78
15-Jan-28	0.00	1,016.59	1,016.59	76.24		1,092.83
15-Jul-28	33,211.00	1,016.59	34,227.59	76.24		34,303.83
15-Jan-29	0.00	684.48	684.48	51.34		735.82
15-Jul-29	33,882.00	684.48	34,566.48	51.34		34,617.82
15-Jan-30	0.00	345.66	345.66	25.92		371.58
15-Jul-30	34,566.00	345.66	34,911.66	25.92		34,937.58
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
15-Jul-38	0.00	0.00	0.00	0.00		0.00
15-Jan-39	0.00	0.00	0.00	0.00		0.00
15-Jul-39	0.00	0.00	0.00	0.00		0.00
15-Jan-40	0.00	0.00	0.00	0.00		0.00
15-Jul-40	0.00	0.00	0.00	0.00		0.00
15-Jan-41	0.00	0.00	0.00	0.00		0.00
15-Jul-41	0.00	0.00	0.00	0.00		0.00
	$575,500.00	$128,712.75	$704,212.75	$9,636.70	$3,827.08	$717,676.53

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 13
Haverhill
CW-05-06
Final Structuring Analysis

SCHEDULE C

Loan Interest Rate 2.00%

Schedule of Loan Repayments

Initial Loan Obligation: $2,150,381.00

Date	Principal	Interest	Total	Admin. Fee 0.00075	Loan Origination Fee	Total Due
18-Dec-07						
15-Jul-08	$85,262.00	$24,729.38	$109,991.38	$1,612.79	13,762.44	$125,366.61
15-Jan-09	0.00	20,651.19	20,651.19	1,548.84		22,200.03
15-Jul-09	90,243.00	20,651.19	110,894.19	1,548.84		112,443.03
15-Jan-10	0.00	19,748.76	19,748.76	1,481.16		21,229.92
15-Jul-10	92,066.00	19,748.76	111,814.76	1,481.16		113,295.92
15-Jan-11	0.00	18,828.10	18,828.10	1,412.11		20,240.21
15-Jul-11	93,926.00	18,828.10	112,754.10	1,412.11		114,166.21
15-Jan-12	0.00	17,888.84	17,888.84	1,341.66		19,230.50
15-Jul-12	95,823.00	17,888.84	113,711.84	1,341.66		115,053.50
15-Jan-13	0.00	16,930.61	16,930.61	1,269.80		18,200.41
15-Jul-13	97,759.00	16,930.61	114,689.61	1,269.80		115,959.41
15-Jan-14	0.00	15,953.02	15,953.02	1,196.48		17,149.50
15-Jul-14	99,734.00	15,953.02	115,687.02	1,196.48		116,883.50
15-Jan-15	0.00	14,955.68	14,955.68	1,121.68		16,077.36
15-Jul-15	101,749.00	14,955.68	116,704.68	1,121.68		117,826.36
15-Jan-16	0.00	13,938.19	13,938.19	1,045.36		14,983.55
15-Jul-16	103,805.00	13,938.19	117,743.19	1,045.36		118,788.55
15-Jan-17	0.00	12,900.14	12,900.14	967.51		13,867.65
15-Jul-17	105,902.00	12,900.14	118,802.14	967.51		119,769.65
15-Jan-18	0.00	11,841.12	11,841.12	888.08		12,729.20
15-Jul-18	108,041.00	11,841.12	119,882.12	888.08		120,770.20
15-Jan-19	0.00	10,760.71	10,760.71	807.05		11,567.76
15-Jul-19	110,224.00	10,760.71	120,984.71	807.05		121,791.76
15-Jan-20	0.00	9,658.47	9,658.47	724.39		10,382.86
15-Jul-20	112,451.00	9,658.47	122,109.47	724.39		122,833.86
15-Jan-21	0.00	8,533.96	8,533.96	640.05		9,174.01
15-Jul-21	114,722.00	8,533.96	123,255.96	640.05		123,896.01
15-Jan-22	0.00	7,386.74	7,386.74	554.01		7,940.75
15-Jul-22	117,040.00	7,386.74	124,426.74	554.01		124,980.75
15-Jan-23	0.00	6,216.34	6,216.34	466.23		6,682.57
15-Jul-23	119,404.00	6,216.34	125,620.34	466.23		126,086.57
15-Jan-24	0.00	5,022.30	5,022.30	376.67		5,398.97
15-Jul-24	121,816.00	5,022.30	126,838.30	376.67		127,214.97
15-Jan-25	0.00	3,804.14	3,804.14	285.31		4,089.45
15-Jul-25	124,277.00	3,804.14	128,081.14	285.31		128,366.45
15-Jan-26	0.00	2,561.37	2,561.37	192.10		2,753.47
15-Jul-26	126,788.00	2,561.37	129,349.37	192.10		129,541.47
15-Jan-27	0.00	1,293.49	1,293.49	97.01		1,390.50
15-Jul-27	129,349.00	1,293.49	130,642.49	97.01		130,739.50
15-Jan-28	0.00	0.00	0.00	0.00		0.00
15-Jul-28	0.00	0.00	0.00	0.00		0.00
15-Jan-29	0.00	0.00	0.00	0.00		0.00
15-Jul-29	0.00	0.00	0.00	0.00		0.00
15-Jan-30	0.00	0.00	0.00	0.00		0.00
15-Jul-30	0.00	0.00	0.00	0.00		0.00
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
15-Jul-38	0.00	0.00	0.00	0.00		0.00
15-Jan-39	0.00	0.00	0.00	0.00		0.00
	$2,150,381.00	$462,475.72	$2,612,856.72	$34,443.79	$13,762.44	$2,661,062.95

Massachusetts Water Pollution Abatement Trust
Direct Loan

SCHEDULE C

Haverhill	Loan Interest Rate 2.00%
CW-05-17	

Final Structuring Analysis

Schedule of Loan Repayments

Initial Loan Obligation:	$978,574.00

	Schedule of Loan Repayments			Admin. Fee	Loan	Total
Date	Principal	Interest	Total	0.00075	Origination Fee	Due
08-Jul-10						
15-Jan-11	$0.00	$10,166.30	$10,166.30	$733.93	6,507.52	$17,407.75
15-Jul-11	40,194.00	9,785.74	49,979.74	733.93		50,713.67
15-Jan-12	0.00	9,383.80	9,383.80	703.79		10,087.59
15-Jul-12	41,006.00	9,383.80	50,389.80	703.79		51,093.59
15-Jan-13	0.00	8,973.74	8,973.74	673.03		9,646.77
15-Jul-13	41,834.00	8,973.74	50,807.74	673.03		51,480.77
15-Jan-14	0.00	8,555.40	8,555.40	641.66		9,197.06
15-Jul-14	42,680.00	8,555.40	51,235.40	641.66		51,877.06
15-Jan-15	0.00	8,128.60	8,128.60	609.65		8,738.25
15-Jul-15	43,542.00	8,128.60	51,670.60	609.65		52,280.25
15-Jan-16	0.00	7,693.18	7,693.18	576.99		8,270.17
15-Jul-16	44,421.00	7,693.18	52,114.18	576.99		52,691.17
15-Jan-17	0.00	7,248.97	7,248.97	543.67		7,792.64
15-Jul-17	45,319.00	7,248.97	52,567.97	543.67		53,111.64
15-Jan-18	0.00	6,795.78	6,795.78	509.68		7,305.46
15-Jul-18	46,234.00	6,795.78	53,029.78	509.68		53,539.46
15-Jan-19	0.00	6,333.44	6,333.44	475.01		6,808.45
15-Jul-19	47,168.00	6,333.44	53,501.44	475.01		53,976.45
15-Jan-20	0.00	5,861.76	5,861.76	439.63		6,301.39
15-Jul-20	48,121.00	5,861.76	53,982.76	439.63		54,422.39
15-Jan-21	0.00	5,380.55	5,380.55	403.54		5,784.09
15-Jul-21	49,093.00	5,380.55	54,473.55	403.54		54,877.09
15-Jan-22	0.00	4,889.62	4,889.62	366.72		5,256.34
15-Jul-22	50,085.00	4,889.62	54,974.62	366.72		55,341.34
15-Jan-23	0.00	4,388.77	4,388.77	329.16		4,717.93
15-Jul-23	51,097.00	4,388.77	55,485.77	329.16		55,814.93
15-Jan-24	0.00	3,877.80	3,877.80	290.84		4,168.64
15-Jul-24	52,129.00	3,877.80	56,006.80	290.84		56,297.64
15-Jan-25	0.00	3,356.51	3,356.51	251.74		3,608.25
15-Jul-25	53,182.00	3,356.51	56,538.51	251.74		56,790.25
15-Jan-26	0.00	2,824.69	2,824.69	211.85		3,036.54
15-Jul-26	54,257.00	2,824.69	57,081.69	211.85		57,293.54
15-Jan-27	0.00	2,282.12	2,282.12	171.16		2,453.28
15-Jul-27	55,353.00	2,282.12	57,635.12	171.16		57,806.28
15-Jan-28	0.00	1,728.59	1,728.59	129.64		1,858.23
15-Jul-28	56,471.00	1,728.59	58,199.59	129.64		58,329.23
15-Jan-29	0.00	1,163.88	1,163.88	87.29		1,251.17
15-Jul-29	57,612.00	1,163.88	58,775.88	87.29		58,863.17
15-Jan-30	0.00	587.76	587.76	44.08		631.84
15-Jul-30	58,776.00	587.76	59,363.76	44.08		59,407.84
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
15-Jul-38	0.00	0.00	0.00	0.00		0.00
15-Jan-39	0.00	0.00	0.00	0.00		0.00
15-Jul-39	0.00	0.00	0.00	0.00		0.00
15-Jan-40	0.00	0.00	0.00	0.00		0.00
15-Jul-40	0.00	0.00	0.00	0.00		0.00
15-Jan-41	0.00	0.00	0.00	0.00		0.00
15-Jul-41	0.00	0.00	0.00	0.00		0.00
	$978,574.00	$218,861.96	$1,197,435.96	$16,386.12	$6,507.52	$1,220,329.60

Massachusetts Water Pollution Abatement Trust
Direct Loan

SCHEDULE C

Haverhill		Loan Interest Rate	2.00%
CW-05-17			

Final Structuring Analysis

Schedule of Loan Repayments

Initial Loan Obligation: $1,188,000.00

Date	Schedule of Loan Repayments Principal	Interest	Total	Admin. Fee 0.00075	Loan Origination Fee	Total Due
08-Jul-10						
15-Jan-11	$0.00	$12,342.00	$12,342.00	$891.00	7,900.20	$21,133.20
15-Jul-11	48,796.00	11,880.00	60,676.00	891.00		61,567.00
15-Jan-12	0.00	11,392.04	11,392.04	854.40		12,246.44
15-Jul-12	49,782.00	11,392.04	61,174.04	854.40		62,028.44
15-Jan-13	0.00	10,894.22	10,894.22	817.07		11,711.29
15-Jul-13	50,787.00	10,894.22	61,681.22	817.07		62,498.29
15-Jan-14	0.00	10,386.35	10,386.35	778.98		11,165.33
15-Jul-14	51,813.00	10,386.35	62,199.35	778.98		62,978.33
15-Jan-15	0.00	9,868.22	9,868.22	740.12		10,608.34
15-Jul-15	52,860.00	9,868.22	62,728.22	740.12		63,468.34
15-Jan-16	0.00	9,339.62	9,339.62	700.47		10,040.09
15-Jul-16	53,928.00	9,339.62	63,267.62	700.47		63,968.09
15-Jan-17	0.00	8,800.34	8,800.34	660.03		9,460.37
15-Jul-17	55,017.00	8,800.34	63,817.34	660.03		64,477.37
15-Jan-18	0.00	8,250.17	8,250.17	618.76		8,868.93
15-Jul-18	56,129.00	8,250.17	64,379.17	618.76		64,997.93
15-Jan-19	0.00	7,688.88	7,688.88	576.67		8,265.55
15-Jul-19	57,263.00	7,688.88	64,951.88	576.67		65,528.55
15-Jan-20	0.00	7,116.25	7,116.25	533.72		7,649.97
15-Jul-20	58,420.00	7,116.25	65,536.25	533.72		66,069.97
15-Jan-21	0.00	6,532.05	6,532.05	489.90		7,021.95
15-Jul-21	59,600.00	6,532.05	66,132.05	489.90		66,621.95
15-Jan-22	0.00	5,936.05	5,936.05	445.20		6,381.25
15-Jul-22	60,804.00	5,936.05	66,740.05	445.20		67,185.25
15-Jan-23	0.00	5,328.01	5,328.01	399.60		5,727.61
15-Jul-23	62,032.00	5,328.01	67,360.01	399.60		67,759.61
15-Jan-24	0.00	4,707.69	4,707.69	353.08		5,060.77
15-Jul-24	63,285.00	4,707.69	67,992.69	353.08		68,345.77
15-Jan-25	0.00	4,074.84	4,074.84	305.61		4,380.45
15-Jul-25	64,564.00	4,074.84	68,638.84	305.61		68,944.45
15-Jan-26	0.00	3,429.20	3,429.20	257.19		3,686.39
15-Jul-26	65,868.00	3,429.20	69,297.20	257.19		69,554.39
15-Jan-27	0.00	2,770.52	2,770.52	207.79		2,978.31
15-Jul-27	67,199.00	2,770.52	69,969.52	207.79		70,177.31
15-Jan-28	0.00	2,098.53	2,098.53	157.39		2,255.92
15-Jul-28	68,557.00	2,098.53	70,655.53	157.39		70,812.92
15-Jan-29	0.00	1,412.96	1,412.96	105.97		1,518.93
15-Jul-29	69,942.00	1,412.96	71,354.96	105.97		71,460.93
15-Jan-30	0.00	713.54	713.54	53.52		767.06
15-Jul-30	71,354.00	713.54	72,067.54	53.52		72,121.06
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
15-Jul-38	0.00	0.00	0.00	0.00		0.00
15-Jan-39	0.00	0.00	0.00	0.00		0.00
15-Jul-39	0.00	0.00	0.00	0.00		0.00
15-Jan-40	0.00	0.00	0.00	0.00		0.00
15-Jul-40	0.00	0.00	0.00	0.00		0.00
15-Jan-41	0.00	0.00	0.00	0.00		0.00
15-Jul-41	0.00	0.00	0.00	0.00		0.00
	$1,188,000.00	$265,700.96	$1,453,700.96	$19,892.94	$7,900.20	$1,481,494.10

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 13

Revised SCHEDULE C

Haverhill
DW-05-10

Final Loan Structuring Analysis
Revised Schedule of Loan Repayments

Outstanding Loan Obligation:	$1,049,821.16

	Schedule of Loan Repayments			*Admin. Fee*	*Total*
	Principal	Interest	Total	*0.07500%*	*Due*
15-Dec-09					
15-Jan-10	-	10,680.09	10,680.09	801.01	11,481.10
15-Jul-10	48,941.48	10,498.21	59,439.69	787.37	60,227.06
15-Jan-11	-	10,008.80	10,008.80	750.66	10,759.46
15-Jul-11	49,929.95	10,008.80	59,938.75	750.66	60,689.41
15-Jan-12	-	9,509.50	9,509.50	713.21	10,222.71
15-Jul-12	50,938.98	9,509.50	60,448.48	713.21	61,161.69
15-Jan-13	-	9,000.11	9,000.11	675.01	9,675.12
15-Jul-13	51,967.59	9,000.11	60,967.70	675.01	61,642.71
15-Jan-14	-	8,480.43	8,480.43	636.03	9,116.46
15-Jul-14	53,017.76	8,480.43	61,498.19	636.03	62,134.22
15-Jan-15	-	7,950.25	7,950.25	596.27	8,546.52
15-Jul-15	54,088.50	7,950.25	62,038.75	596.27	62,635.02
15-Jan-16	-	7,409.37	7,409.37	555.70	7,965.07
15-Jul-16	55,181.77	7,409.37	62,591.14	555.70	63,146.84
15-Jan-17	-	6,857.55	6,857.55	514.32	7,371.87
15-Jul-17	56,295.61	6,857.55	63,153.16	514.32	63,667.48
15-Jan-18	-	6,294.60	6,294.60	472.09	6,766.69
15-Jul-18	57,432.97	6,294.60	63,727.57	472.09	64,199.66
15-Jan-19	-	5,720.27	5,720.27	429.02	6,149.29
15-Jul-19	58,593.83	5,720.27	64,314.10	429.02	64,743.12
15-Jan-20	-	5,134.33	5,134.33	385.07	5,519.40
15-Jul-20	59,777.23	5,134.33	64,911.56	385.07	65,296.63
15-Jan-21	-	4,536.55	4,536.55	340.24	4,876.79
15-Jul-21	60,985.12	4,536.55	65,521.67	340.24	65,861.91
15-Jan-22	-	3,926.70	3,926.70	294.50	4,221.20
15-Jul-22	62,216.52	3,926.70	66,143.22	294.50	66,437.72
15-Jan-23	-	3,304.54	3,304.54	247.84	3,552.38
15-Jul-23	63,474.36	3,304.54	66,778.90	247.84	67,026.74
15-Jan-24	-	2,669.79	2,669.79	200.23	2,870.02
15-Jul-24	64,755.72	2,669.79	67,425.51	200.23	67,625.74
15-Jan-25	-	2,022.24	2,022.24	151.67	2,173.91
15-Jul-25	66,064.52	2,022.24	68,086.76	151.67	68,238.43
15-Jan-26	-	1,361.59	1,361.59	102.12	1,463.71
15-Jul-26	67,398.78	1,361.59	68,760.37	102.12	68,862.49
15-Jan-27	-	687.60	687.60	51.57	739.17
15-Jul-27	68,760.47	687.60	69,448.07	51.57	69,499.64
15-Jan-28	-	-	-	-	-
15-Jul-28	-	-	-	-	-
15-Jan-29	-	-	-	-	-
15-Jul-29	-	-	-	-	-
15-Jan-30	-	-	-	-	-
15-Jul-30	-	-	-	-	-
15-Jan-31	-	-	-	-	-
15-Jul-31	-	-	-	-	-
15-Jan-32	-	-	-	-	-
15-Jul-32	-	-	-	-	-
15-Jan-33	-	-	-	-	-
15-Jul-33	-	-	-	-	-
15-Jan-34	-	-	-	-	-
15-Jul-34	-	-	-	-	-
15-Jan-35	-	-	-	-	-
15-Jul-35	-	-	-	-	-
15-Jan-36	-	-	-	-	-
15-Jul-36	-	-	-	-	-
15-Jan-37	-	-	-	-	-
15-Jul-37	-	-	-	-	-
15-Jan-38	-	-	-	-	-
	$1,049,821.16	$210,926.74	$1,260,747.90	$15,819.48	$1,276,567.38

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 13
Haverhill
DW-05-10
Final Structuring Analysis

SCHEDULE C

Loan Interest Rate 2.00%

Schedule of Loan Repayments

Initial Loan Obligation: $1,166,883.00

Date	Principal	Interest	Total	Admin. Fee 0.00075	Loan Origination Fee	Total Due
	Schedule of Loan Repayments					
18-Dec-07						
15-Jul-08	$46,267.00	$13,419.15	$59,686.15	$875.16	7,468.05	$68,029.36
15-Jan-09	0.00	11,206.16	11,206.16	840.46		12,046.62
15-Jul-09	48,969.00	11,206.16	60,175.16	840.46		61,015.62
15-Jan-10	0.00	10,716.47	10,716.47	803.74		11,520.21
15-Jul-10	49,959.00	10,716.47	60,675.47	803.74		61,479.21
15-Jan-11	0.00	10,216.88	10,216.88	766.27		10,983.15
15-Jul-11	50,968.00	10,216.88	61,184.88	766.27		61,951.15
15-Jan-12	0.00	9,707.20	9,707.20	728.04		10,435.24
15-Jul-12	51,998.00	9,707.20	61,705.20	728.04		62,433.24
15-Jan-13	0.00	9,187.22	9,187.22	689.04		9,876.26
15-Jul-13	53,048.00	9,187.22	62,235.22	689.04		62,924.26
15-Jan-14	0.00	8,656.74	8,656.74	649.26		9,306.00
15-Jul-14	54,120.00	8,656.74	62,776.74	649.26		63,426.00
15-Jan-15	0.00	8,115.54	8,115.54	608.67		8,724.21
15-Jul-15	55,213.00	8,115.54	63,328.54	608.67		63,937.21
15-Jan-16	0.00	7,563.41	7,563.41	567.26		8,130.67
15-Jul-16	56,329.00	7,563.41	63,892.41	567.26		64,459.67
15-Jan-17	0.00	7,000.12	7,000.12	525.01		7,525.13
15-Jul-17	57,466.00	7,000.12	64,466.12	525.01		64,991.13
15-Jan-18	0.00	6,425.46	6,425.46	481.91		6,907.37
15-Jul-18	58,627.00	6,425.46	65,052.46	481.91		65,534.37
15-Jan-19	0.00	5,839.19	5,839.19	437.94		6,277.13
15-Jul-19	59,812.00	5,839.19	65,651.19	437.94		66,089.13
15-Jan-20	0.00	5,241.07	5,241.07	393.08		5,634.15
15-Jul-20	61,020.00	5,241.07	66,261.07	393.08		66,654.15
15-Jan-21	0.00	4,630.87	4,630.87	347.32		4,978.19
15-Jul-21	62,253.00	4,630.87	66,883.87	347.32		67,231.19
15-Jan-22	0.00	4,008.34	4,008.34	300.63		4,308.97
15-Jul-22	63,510.00	4,008.34	67,518.34	300.63		67,818.97
15-Jan-23	0.00	3,373.24	3,373.24	252.99		3,626.23
15-Jul-23	64,794.00	3,373.24	68,167.24	252.99		68,420.23
15-Jan-24	0.00	2,725.30	2,725.30	204.40		2,929.70
15-Jul-24	66,102.00	2,725.30	68,827.30	204.40		69,031.70
15-Jan-25	0.00	2,064.28	2,064.28	154.82		2,219.10
15-Jul-25	67,438.00	2,064.28	69,502.28	154.82		69,657.10
15-Jan-26	0.00	1,389.90	1,389.90	104.24		1,494.14
15-Jul-26	68,800.00	1,389.90	70,189.90	104.24		70,294.14
15-Jan-27	0.00	701.90	701.90	52.64		754.54
15-Jul-27	70,190.00	701.90	70,891.90	52.64		70,944.54
15-Jan-28	0.00	0.00	0.00	0.00		0.00
15-Jul-28	0.00	0.00	0.00	0.00		0.00
15-Jan-29	0.00	0.00	0.00	0.00		0.00
15-Jul-29	0.00	0.00	0.00	0.00		0.00
15-Jan-30	0.00	0.00	0.00	0.00		0.00
15-Jul-30	0.00	0.00	0.00	0.00		0.00
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
15-Jul-38	0.00	0.00	0.00	0.00		0.00
15-Jan-39	0.00	0.00	0.00	0.00		0.00
	$1,166,883.00	$250,957.73	$1,417,840.73	$18,690.60	$7,468.05	$1,443,999.38

Massachusetts Clean Water Trust
Pool 17 - 2015 Swap
HAVERHILL Reamortization
DW-05-10A

Original Loan Amount	2,200,000.00	Loan Origination Fee ($7.5/1000)	0.00
Principal Forgiveness	-	Loan Term (in years)	18
Principal Paid Down	179,918.00	Loan Rate	2.00%
Outstanding Loan Obligation	2,020,082.00	Closing Date	5/14/2015
Remaining Balance	(283,222.13)	First Payment	7/15/2015
Net New Loan Obligation	1,736,859.87		

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/14/2015							
7/15/2015		19,241.01	19,241.01	1,302.64		20,543.66	
1/15/2016	79,876.76	17,368.60	97,245.36	1,302.64		98,548.01	119,091.66
7/15/2016		16,569.83	16,569.83	1,242.74		17,812.57	
1/15/2017	81,613.68	16,569.83	98,183.51	1,242.74		99,426.24	117,238.81
7/15/2017		15,753.69	15,753.69	1,181.53		16,935.22	
1/15/2018	83,387.44	15,753.69	99,141.13	1,181.53		100,322.66	117,257.88
7/15/2018		14,919.82	14,919.82	1,118.99		16,038.81	
1/15/2019	85,198.91	14,919.82	100,118.73	1,118.99		101,237.72	117,276.53
7/15/2019		14,067.83	14,067.83	1,055.09		15,122.92	
1/15/2020	87,050.97	14,067.83	101,118.80	1,055.09		102,173.88	117,296.80
7/15/2020		13,197.32	13,197.32	989.80		14,187.12	
1/15/2021	88,943.46	13,197.32	102,140.78	989.80		103,130.58	117,317.70
7/15/2021		12,307.89	12,307.89	923.09		13,230.98	
1/15/2022	90,876.24	12,307.89	103,184.13	923.09		104,107.22	117,338.20
7/15/2022		11,399.12	11,399.12	854.93		12,254.06	
1/15/2023	92,851.18	11,399.12	104,250.30	854.93		105,105.23	117,359.29
7/15/2023		10,470.61	10,470.61	785.30		11,255.91	
1/15/2024	94,869.11	10,470.61	105,339.72	785.30		106,125.02	117,380.93
7/15/2024		9,521.92	9,521.92	714.14		10,236.07	
1/15/2025	96,930.89	9,521.92	106,452.82	714.14		107,166.96	117,403.02
7/15/2025		8,552.61	8,552.61	641.45		9,194.06	
1/15/2026	99,037.37	8,552.61	107,589.98	641.45		108,231.43	117,425.49
7/15/2026		7,562.24	7,562.24	567.17		8,129.41	
1/15/2027	101,190.38	7,562.24	108,752.62	567.17		109,319.79	117,449.19
7/15/2027		6,550.33	6,550.33	491.28		7,041.61	
1/15/2028	103,389.76	6,550.33	109,940.10	491.28		110,431.37	117,472.98
7/15/2028		5,516.44	5,516.44	413.73		5,930.17	
1/15/2029	105,636.35	5,516.44	111,152.79	413.73		111,566.52	117,496.69
7/15/2029		4,460.07	4,460.07	334.51		4,794.58	
1/15/2030	107,931.97	4,460.07	112,392.05	334.51		112,726.55	117,521.13
7/15/2030		3,380.75	3,380.75	253.56		3,634.31	
1/15/2031	110,277.46	3,380.75	113,658.21	253.56		113,911.77	117,546.08
7/15/2031		2,277.98	2,277.98	170.85		2,448.83	
1/15/2032	112,674.63	2,277.98	114,952.61	170.85		115,123.46	117,572.29
7/15/2032		1,151.23	1,151.23	86.34		1,237.58	
1/15/2033	115,123.31	1,151.23	116,274.55	86.34		116,360.89	117,598.46
7/15/2033							
	1,736,859.87	351,929.02	2,088,788.89	26,254.25		2,115,043.14	2,115,043.14

Massachusetts Water Pollution Abatement Trust
Series 17A
HAVERHILL Loan Amortization
DW-05-10A

Initial Loan Amount	2,200,000.00
Principal Forgiveness	-
Net Loan Obligation	2,200,000.00

Loan Origination Fee ($5.50/1000)	12,100.00
Loan Term (in years)	20
Loan Rate	2.00%
Closing Date	5/22/2013
First Interest Payment	7/15/2013
First Principal Payment	1/15/2014

Date	Principal	Interest	Total Debt Service	Admin Fee (0.15%)	Loan Origination Fee	Total Debt Service	Annual Debt Service
5/22/2013							
7/15/2013		6,477.78	6,477.78	485.83	12,100.00	19,063.61	
1/15/2014	88,992.00	22,000.00	110,992.00	1,650.00		112,642.00	131,705.61
7/15/2014		21,110.08	21,110.08	1,583.26		22,693.34	
1/15/2015	90,926.00	21,110.08	112,036.08	1,583.26		113,619.34	136,312.67
7/15/2015		20,200.82	20,200.82	1,515.06		21,715.88	
1/15/2016	92,902.00	20,200.82	113,102.82	1,515.06		114,617.88	136,333.76
7/15/2016		19,271.80	19,271.80	1,445.39		20,717.19	
1/15/2017	94,922.00	19,271.80	114,193.80	1,445.39		115,639.19	136,356.37
7/15/2017		18,322.58	18,322.58	1,374.19		19,696.77	
1/15/2018	96,985.00	18,322.58	115,307.58	1,374.19		116,681.77	136,378.55
7/15/2018		17,352.73	17,352.73	1,301.45		18,654.18	
1/15/2019	99,092.00	17,352.73	116,444.73	1,301.45		117,746.18	136,400.37
7/15/2019		16,361.81	16,361.81	1,227.14		17,588.95	
1/15/2020	101,246.00	16,361.81	117,607.81	1,227.14		118,834.95	136,423.89
7/15/2020		15,349.35	15,349.35	1,151.20		16,500.55	
1/15/2021	103,447.00	15,349.35	118,796.35	1,151.20		119,947.55	136,448.10
7/15/2021		14,314.88	14,314.88	1,073.62		15,388.50	
1/15/2022	105,695.00	14,314.88	120,009.88	1,073.62		121,083.50	136,471.99
7/15/2022		13,257.93	13,257.93	994.34		14,252.27	
1/15/2023	107,992.00	13,257.93	121,249.93	994.34		122,244.27	136,496.55
7/15/2023		12,178.01	12,178.01	913.35		13,091.36	
1/15/2024	110,339.00	12,178.01	122,517.01	913.35		123,430.36	136,521.72
7/15/2024		11,074.62	11,074.62	830.60		11,905.22	
1/15/2025	112,737.00	11,074.62	123,811.62	830.60		124,642.22	136,547.43
7/15/2025		9,947.25	9,947.25	746.04		10,693.29	
1/15/2026	115,187.00	9,947.25	125,134.25	746.04		125,880.29	136,573.59
7/15/2026		8,795.38	8,795.38	659.65		9,455.03	
1/15/2027	117,691.00	8,795.38	126,486.38	659.65		127,146.03	136,601.07
7/15/2027		7,618.47	7,618.47	571.39		8,189.86	
1/15/2028	120,249.00	7,618.47	127,867.47	571.39		128,438.86	136,628.71
7/15/2028		6,415.98	6,415.98	481.20		6,897.18	
1/15/2029	122,862.00	6,415.98	129,277.98	481.20		129,759.18	136,656.36
7/15/2029		5,187.36	5,187.36	389.05		5,576.41	
1/15/2030	125,532.00	5,187.36	130,719.36	389.05		131,108.41	136,684.82
7/15/2030		3,932.04	3,932.04	294.90		4,226.94	
1/15/2031	128,260.00	3,932.04	132,192.04	294.90		132,486.94	136,713.89
7/15/2031		2,649.44	2,649.44	198.71		2,848.15	
1/15/2032	131,048.00	2,649.44	133,697.44	198.71		133,896.15	136,744.30
7/15/2032		1,338.96	1,338.96	100.42		1,439.38	
1/15/2033	133,896.00	1,338.96	135,234.96	100.42		135,335.38	136,774.76
7/15/2033							
	2,200,000.00	477,836.76	2,677,836.76	35,837.76	12,100.00	2,725,774.51	2,725,774.51

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 12

SCHEDULE C

Haverhill
CW-04-09
Final Structuring Analysis

Loan Interest Rate 2.00%

Schedule of Loan Repayments

Initial Loan Obligation: $4,730,937.00

Date	Principal	Interest	Total	Admin. Fee 0.0750%	Loan Origination Fee	Total Due
14-Dec-06						
15-Jul-07	$186,583.00	$55,457.09	$242,040.09	$3,548.20	26,528.19	$272,116.48
15-Jan-08	0.00	45,443.54	45,443.54	3,408.27		48,851.81
15-Jul-08	198,582.00	45,443.54	244,025.54	3,408.27		247,433.81
15-Jan-09	0.00	43,457.72	43,457.72	3,259.33		46,717.05
15-Jul-09	202,594.00	43,457.72	246,051.72	3,259.33		249,311.05
15-Jan-10	0.00	41,431.78	41,431.78	3,107.38		44,539.16
15-Jul-10	206,687.00	41,431.78	248,118.78	3,107.38		251,226.16
15-Jan-11	0.00	39,364.91	39,364.91	2,952.37		42,317.28
15-Jul-11	210,862.00	39,364.91	250,226.91	2,952.37		253,179.28
15-Jan-12	0.00	37,256.29	37,256.29	2,794.22		40,050.51
15-Jul-12	215,122.00	37,256.29	252,378.29	2,794.22		255,172.51
15-Jan-13	0.00	35,105.07	35,105.07	2,632.88		37,737.95
15-Jul-13	219,468.00	35,105.07	254,573.07	2,632.88		257,205.95
15-Jan-14	0.00	32,910.39	32,910.39	2,468.28		35,378.67
15-Jul-14	223,902.00	32,910.39	256,812.39	2,468.28		259,280.67
15-Jan-15	0.00	30,671.37	30,671.37	2,300.35		32,971.72
15-Jul-15	228,425.00	30,671.37	259,096.37	2,300.35		261,396.72
15-Jan-16	0.00	28,387.12	28,387.12	2,129.03		30,516.15
15-Jul-16	233,040.00	28,387.12	261,427.12	2,129.03		263,556.15
15-Jan-17	0.00	26,056.72	26,056.72	1,954.25		28,010.97
15-Jul-17	237,747.00	26,056.72	263,803.72	1,954.25		265,757.97
15-Jan-18	0.00	23,679.25	23,679.25	1,775.94		25,455.19
15-Jul-18	242,550.00	23,679.25	266,229.25	1,775.94		268,005.19
15-Jan-19	0.00	21,253.75	21,253.75	1,594.03		22,847.78
15-Jul-19	247,450.00	21,253.75	268,703.75	1,594.03		270,297.78
15-Jan-20	0.00	18,779.25	18,779.25	1,408.44		20,187.69
15-Jul-20	252,449.00	18,779.25	271,228.25	1,408.44		272,636.69
15-Jan-21	0.00	16,254.76	16,254.76	1,219.11		17,473.87
15-Jul-21	257,549.00	16,254.76	273,803.76	1,219.11		275,022.87
15-Jan-22	0.00	13,679.27	13,679.27	1,025.95		14,705.22
15-Jul-22	262,752.00	13,679.27	276,431.27	1,025.95		277,457.22
15-Jan-23	0.00	11,051.75	11,051.75	828.88		11,880.63
15-Jul-23	268,061.00	11,051.75	279,112.75	828.88		279,941.63
15-Jan-24	0.00	8,371.14	8,371.14	627.84		8,998.98
15-Jul-24	273,476.00	8,371.14	281,847.14	627.84		282,474.98
15-Jan-25	0.00	5,636.38	5,636.38	422.73		6,059.11
15-Jul-25	279,001.00	5,636.38	284,637.38	422.73		285,060.11
15-Jan-26	0.00	2,846.37	2,846.37	213.48		3,059.85
15-Jul-26	284,637.00	2,846.37	287,483.37	213.48		287,696.85
15-Jan-27	0.00	0.00	0.00	0.00		0.00
15-Jul-27	0.00	0.00	0.00	0.00		0.00
15-Jan-28	0.00	0.00	0.00	0.00		0.00
15-Jul-28	0.00	0.00	0.00	0.00		0.00
15-Jan-29	0.00	0.00	0.00	0.00		0.00
15-Jul-29	0.00	0.00	0.00	0.00		0.00
15-Jan-30	0.00	0.00	0.00	0.00		0.00
15-Jul-30	0.00	0.00	0.00	0.00		0.00
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
	$4,730,937.00	$1,018,730.75	$5,749,667.75	$75,793.72	$26,528.19	$5,851,989.66

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 10
Haverhill
CW-03-34
Final Structuring Analysis

AMENDED SCHEDULE C

Net Borrower Savings due to 2006 Refunding:	815,647.55
G.E.	2.00%

:hedule of Payments

Initial Principal Amount: 11,002,482.00

	Schedule of Payments			Subsidy Amounts			Net Payments		
Date	**Principal**	**Interest**	**Total**	**Equity Earnings**	**Commonwealth Subsidies**	**Total**	**Principal**	**Interest**	**Total**
01-Feb-07	0.00	269,236.27	269,236.27	71,864.69	11,032.03	82,896.72	0.00	186,339.55	186,339.55
01-Aug-07	238,620.00	258,950.28	497,570.28	71,864.69	46,591.22	118,455.91	238,620.00	140,494.37	379,114.37
01-Feb-08	0.00	252,984.78	252,984.78	70,306.10	9,062.55	79,368.65	0.00	173,616.13	173,616.13
01-Aug-08	247,604.00	252,984.78	500,588.78	70,306.10	46,591.22	116,897.32	247,604.00	136,087.46	383,691.46
01-Feb-09	0.00	246,794.68	246,794.68	68,688.83	9,062.55	77,751.38	0.00	169,043.30	169,043.30
01-Aug-09	254,334.00	246,794.68	501,128.68	68,688.83	46,591.22	115,280.05	254,334.00	131,514.63	385,848.63
01-Feb-10	0.00	242,979.67	242,979.67	67,027.60	9,062.55	76,090.15	0.00	166,889.52	166,889.52
01-Aug-10	258,681.00	242,979.67	501,660.67	67,027.60	46,591.22	113,618.82	258,681.00	129,360.85	388,041.85
01-Feb-11	0.00	239,099.45	239,099.45	65,337.98	9,062.55	74,400.53	0.00	164,698.92	164,698.92
01-Aug-11	265,784.00	239,099.45	504,883.45	65,337.98	46,591.22	111,929.20	265,784.00	127,170.25	392,954.25
01-Feb-12	0.00	232,454.85	232,454.85	63,601.97	9,062.55	72,664.52	0.00	159,790.33	159,790.33
01-Aug-12	273,284.00	232,454.85	505,738.85	63,601.97	46,591.22	110,193.19	273,284.00	122,261.66	395,545.66
01-Feb-13	0.00	228,082.31	228,082.31	61,816.96	9,062.55	70,879.51	0.00	157,202.80	157,202.80
01-Aug-13	281,424.00	228,082.31	509,506.31	61,816.96	46,591.22	108,408.18	281,424.00	119,674.13	401,098.13
01-Feb-14	0.00	220,694.93	220,694.93	59,978.79	9,062.55	69,041.34	0.00	151,653.59	151,653.59
01-Aug-14	292,751.00	220,694.93	513,445.93	59,978.79	46,591.22	106,570.01	292,751.00	114,124.92	406,875.92
01-Feb-15	0.00	213,010.21	213,010.21	58,066.64	9,062.55	67,129.19	0.00	145,881.03	145,881.03
01-Aug-15	305,000.00	213,010.21	518,010.21	58,066.64	46,591.22	104,657.86	305,000.00	108,352.36	413,352.36
01-Feb-16	0.00	205,003.96	205,003.96	56,074.47	9,062.55	65,137.02	0.00	139,866.94	139,866.94
01-Aug-16	315,000.00	202,555.13	517,555.13	56,074.47	46,095.51	102,169.98	315,000.00	100,385.15	415,385.15
01-Feb-17	0.00	197,256.34	197,256.34	54,016.99	9,168.04	63,185.04	0.00	134,071.30	134,071.30
01-Aug-17	330,000.00	194,054.89	524,054.89	54,016.99	46,048.65	100,065.64	330,000.00	93,989.25	423,989.25
01-Feb-18	0.00	188,496.58	188,496.58	51,861.54	9,148.35	61,009.89	0.00	127,486.69	127,486.69
01-Aug-18	340,000.00	185,806.24	525,806.24	51,861.54	46,132.42	97,993.96	340,000.00	87,812.27	427,812.27
01-Feb-19	0.00	179,093.06	179,093.06	49,640.77	8,965.46	58,606.22	0.00	120,486.84	120,486.84
01-Aug-19	355,000.00	177,622.73	532,622.73	49,640.77	46,196.49	95,837.26	355,000.00	81,785.47	436,785.47
01-Feb-20	0.00	169,091.81	169,091.81	47,322.02	8,737.47	56,059.49	0.00	113,032.32	113,032.32
01-Aug-20	370,000.00	169,224.55	539,224.55	47,322.02	46,293.01	93,615.03	370,000.00	75,609.52	445,609.52
01-Feb-21	0.00	158,389.52	158,389.52	44,905.30	8,443.48	53,348.78	0.00	105,040.73	105,040.73
01-Aug-21	385,000.00	160,390.11	545,390.11	44,905.30	46,377.13	91,282.43	385,000.00	69,107.68	454,107.68
01-Feb-22	0.00	146,839.71	146,839.71	42,390.60	8,053.85	50,444.45	0.00	96,395.26	96,395.26
01-Aug-22	395,000.00	148,304.14	543,304.14	42,390.60	45,878.96	88,269.56	395,000.00	60,034.57	455,034.57
01-Feb-23	0.00	141,100.10	141,100.10	39,810.59	8,890.97	48,701.56	0.00	92,398.54	92,398.54
01-Aug-23	410,000.00	135,895.67	545,895.67	39,810.59	45,366.11	85,176.70	410,000.00	50,718.97	460,718.97
01-Feb-24	0.00	136,361.68	136,361.68	37,132.60	10,006.67	47,139.27	0.00	89,222.41	89,222.41
01-Aug-24	425,000.00	125,632.31	550,632.31	37,132.60	45,363.41 *	82,496.01	425,000.00	43,136.30	468,136.30
01-Feb-25	0.00	125,238.76	125,238.76	34,356.64	11,173.33	45,529.97	0.00	79,708.80	79,708.80
01-Aug-25	445,000.00	92,041.76	537,041.76	34,356.64	48,702.00	83,058.64	445,000.00	8,983.13	453,983.13
01-Feb-26	0.00	114,626.32	114,626.32	31,450.04	11,173.33	42,623.37	0.00	72,002.95	72,002.95
01-Aug-26	460,000.00	80,465.83	540,465.83	31,450.04	48,702.00	80,152.04	460,000.00	313.79	460,313.79
01-Feb-27	0.00	103,646.53	103,646.53	28,445.47	11,173.33	39,618.80	0.00	64,027.73	64,027.73
01-Aug-27	480,000.00	17,760.61	497,760.61	28,445.47	48,702.00	77,147.47	420,613.14	0.00	420,613.14
01-Feb-28	0.00	92,839.94	92,839.94	25,310.26	11,173.33	36,483.59	0.00	56,356.35	56,356.35
01-Aug-28	495,000.00	55,988.28	550,988.28	25,310.26	48,702.00	74,012.26	476,976.02	0.00	476,976.02
01-Feb-29	0.00	81,031.82	81,031.82	22,077.08	11,173.33	33,250.41	0.00	47,781.41	47,781.41
01-Aug-29	515,000.00	43,025.36	558,025.36	22,077.08	48,702.00	70,779.08	487,246.28	0.00	487,246.28
01-Feb-30	0.00	68,732.45	68,732.45	18,713.26	11,173.33	29,886.59	0.00	38,845.85	38,845.85
01-Aug-30	535,000.00	29,633.06	564,633.06	18,713.26	48,702.00	67,415.26	497,217.80	0.00	497,217.80
01-Feb-31	0.00	55,939.57	55,939.57	15,218.81	11,173.33	26,392.14	0.00	29,547.43	29,547.43
01-Aug-31	555,000.00	15,900.92	570,900.92	15,218.81	48,702.00	63,920.81	506,980.10	0.00	506,980.10
01-Feb-32	0.00	42,648.45	42,648.45	11,593.73	11,173.33	22,767.06	0.00	19,881.38	19,881.38
01-Aug-32	575,000.00	1,193.02	576,193.02	11,593.73	48,702.00	60,295.73	515,897.29	0.00	515,897.29
01-Feb-33	0.00	28,870.79	28,870.79	7,838.02	11,173.33	19,011.35	0.00	9,859.45	9,859.45
01-Aug-33	595,000.00	0.00	595,000.00	7,838.02	62,757.64	70,595.66	524,404.34	0.00	524,404.34
01-Feb-34	0.00	15,125.00	15,125.00	3,951.67	11,173.33	15,125.00	0.00	0.00	0.00
01-Aug-34	605,000.00	0.00	605,000.00	3,951.67	74,702.19	78,653.86	526,346.14	0.00	526,346.14
	$11,002,482.00	$8,366,215.32	$19,368,697.32	$2,417,598.89	$1,635,891.07	$4,053,489.96	$10,603,163.12	$4,712,044.23	$15,315,207.36

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 10
Haverhill
W-03-34
nal Structuring Analysis

SCHEDULE C

Financial Equivalent Interest Rate: 2.51%

Schedule of Payments

Initial Principal Amount: $11,463,447.00

	Schedule of payments			Subsidy Amounts			Net Payments		
Date	Principal	Interest	Total	Equity Earnings	Commonwealth Subsidies	Total	Principal	Interest	Total
23-Nov-04									
01-Feb-05	$0.00	$104,160.98	$104,160.98	$28,286.33	$11,173.33	$39,459.66	$0.00	$64,701.32	$64,701.32
01-Aug-05	228,722.00	275,720.24	504,442.24	74,875.57	48,702.00	123,577.57	228,722.00	152,142.67	380,864.67
01-Feb-06	0.00	272,861.21	272,861.21	73,381.63	11,173.33	84,554.96	0.00	188,306.25	188,306.25
01-Aug-06	232,243.00	272,861.21	505,104.21	73,381.63	48,702.00	122,083.63	232,243.00	150,777.58	383,020.58
01-Feb-07	0.00	269,377.57	269,377.57	71,864.69	11,173.33	83,038.02	0.00	186,339.55	186,339.55
01-Aug-07	238,620.00	269,377.57	507,997.57	71,864.69	48,702.00	120,566.69	238,620.00	148,810.88	387,430.88
01-Feb-08	0.00	263,412.07	263,412.07	70,306.10	11,173.33	81,479.43	0.00	181,932.64	181,932.64
01-Aug-08	247,604.00	263,412.07	511,016.07	70,306.10	48,702.00	119,008.10	247,604.00	144,403.97	392,007.97
01-Feb-09	0.00	257,221.97	257,221.97	68,688.83	11,173.33	79,862.16	0.00	177,359.81	177,359.81
01-Aug-09	254,334.00	257,221.97	511,555.97	68,688.83	48,702.00	117,390.83	254,334.00	139,831.14	394,165.14
01-Feb-10	0.00	253,406.96	253,406.96	67,027.60	11,173.33	78,200.93	0.00	175,206.03	175,206.03
01-Aug-10	258,681.00	253,406.96	512,087.96	67,027.60	48,702.00	115,729.60	258,681.00	137,677.36	396,358.36
01-Feb-11	0.00	249,526.74	249,526.74	65,337.98	11,173.33	76,511.31	0.00	173,015.43	173,015.43
01-Aug-11	265,784.00	249,526.74	515,310.74	65,337.98	48,702.00	114,039.98	265,784.00	135,486.76	401,270.76
01-Feb-12	0.00	242,882.14	242,882.14	63,601.97	11,173.33	74,775.30	0.00	168,106.84	168,106.84
01-Aug-12	273,284.00	242,882.14	516,166.14	63,601.97	48,702.00	112,303.97	273,284.00	130,578.17	403,862.17
01-Feb-13	0.00	238,509.60	238,509.60	61,816.96	11,173.33	72,990.29	0.00	165,519.31	165,519.31
01-Aug-13	281,424.00	238,509.60	519,933.60	61,816.96	48,702.00	110,518.96	281,424.00	127,990.64	409,414.64
01-Feb-14	0.00	231,122.22	231,122.22	59,978.79	11,173.33	71,152.12	0.00	159,970.10	159,970.10
01-Aug-14	292,751.00	231,122.22	523,873.22	59,978.79	48,702.00	108,680.79	292,751.00	122,441.43	415,192.43
01-Feb-15	0.00	223,437.50	223,437.50	58,066.64	11,173.33	69,239.97	0.00	154,197.53	154,197.53
01-Aug-15	305,000.00	223,437.50	528,437.50	58,066.64	48,702.00	106,768.64	305,000.00	116,668.86	421,668.86
01-Feb-16	0.00	215,431.25	215,431.25	56,074.47	11,173.33	67,247.80	0.00	148,183.45	148,183.45
01-Aug-16	315,000.00	215,431.25	530,431.25	56,074.47	48,702.00	104,776.47	315,000.00	110,654.78	425,654.78
01-Feb-17	0.00	207,162.50	207,162.50	54,016.99	11,173.33	65,190.32	0.00	141,972.18	141,972.18
01-Aug-17	330,000.00	207,162.50	537,162.50	54,016.99	48,702.00	102,718.99	330,000.00	104,443.51	434,443.51
01-Feb-18	0.00	198,500.00	198,500.00	51,861.54	11,173.33	63,034.87	0.00	135,465.13	135,465.13
01-Aug-18	340,000.00	198,500.00	538,500.00	51,861.54	48,702.00	100,563.54	340,000.00	97,936.46	437,936.46
01-Feb-19	0.00	190,000.00	190,000.00	49,640.77	11,173.33	60,814.10	0.00	129,185.90	129,185.90
01-Aug-19	355,000.00	190,000.00	545,000.00	49,640.77	48,702.00	98,342.77	355,000.00	91,657.23	446,657.23
01-Feb-20	0.00	181,125.00	181,125.00	47,322.02	11,173.33	58,495.35	0.00	122,629.65	122,629.65
01-Aug-20	370,000.00	181,125.00	551,125.00	47,322.02	48,702.00	96,024.02	370,000.00	85,100.98	455,100.98
01-Feb-21	0.00	171,875.00	171,875.00	44,905.30	11,173.33	56,078.63	0.00	115,796.37	115,796.37
01-Aug-21	385,000.00	171,875.00	556,875.00	44,905.30	48,702.00	93,607.30	385,000.00	78,267.70	463,267.70
01-Feb-22	0.00	162,250.00	162,250.00	42,390.60	11,173.33	53,563.93	0.00	108,686.07	108,686.07
01-Aug-22	395,000.00	162,250.00	557,250.00	42,390.60	48,702.00	91,092.60	395,000.00	71,157.40	466,157.40
01-Feb-23	0.00	152,375.00	152,375.00	39,810.59	11,173.33	50,983.92	0.00	101,391.08	101,391.08
01-Aug-23	410,000.00	152,375.00	562,375.00	39,810.59	48,702.00	88,512.59	410,000.00	63,862.41	473,862.41
01-Feb-24	0.00	142,125.00	142,125.00	37,132.60	11,173.33	48,305.93	0.00	93,819.07	93,819.07
01-Aug-24	425,000.00	142,125.00	567,125.00	37,132.60	48,702.00	85,834.60	425,000.00	56,290.40	481,290.40
01-Feb-25	0.00	131,500.00	131,500.00	34,356.64	11,173.33	45,529.97	0.00	85,970.03	85,970.03
01-Aug-25	445,000.00	131,500.00	576,500.00	34,356.64	48,702.00	83,058.64	445,000.00	48,441.36	493,441.36
01-Feb-26	0.00	120,375.00	120,375.00	31,450.04	11,173.33	42,623.37	0.00	77,751.63	77,751.63
01-Aug-26	460,000.00	120,375.00	580,375.00	31,450.04	48,702.00	80,152.04	460,000.00	40,222.96	500,222.96
01-Feb-27	0.00	108,875.00	108,875.00	28,445.47	11,173.33	39,618.80	0.00	69,256.20	69,256.20
01-Aug-27	480,000.00	108,875.00	588,875.00	28,445.47	48,702.00	77,147.47	480,000.00	31,727.53	511,727.53
01-Feb-28	0.00	96,875.00	96,875.00	25,310.26	11,173.33	36,483.59	0.00	60,391.41	60,391.41
01-Aug-28	495,000.00	96,875.00	591,875.00	25,310.26	48,702.00	74,012.26	495,000.00	22,862.74	517,862.74
01-Feb-29	0.00	84,500.00	84,500.00	22,077.08	11,173.33	33,250.41	0.00	51,249.59	51,249.59
01-Aug-29	515,000.00	84,500.00	599,500.00	22,077.08	48,702.00	70,779.08	515,000.00	13,720.92	528,720.92
01-Feb-30	0.00	71,625.00	71,625.00	18,713.26	11,173.33	29,886.59	0.00	41,738.41	41,738.41
01-Aug-30	535,000.00	71,625.00	606,625.00	18,713.26	48,702.00	67,415.26	535,000.00	4,209.74	539,209.74
01-Feb-31	0.00	58,250.00	58,250.00	15,218.81	11,173.33	26,392.14	0.00	31,857.86	31,857.86
01-Aug-31	555,000.00	58,250.00	613,250.00	15,218.81	48,702.00	63,920.81	549,329.19	0.00	549,329.19
01-Feb-32	0.00	44,375.00	44,375.00	11,593.73	11,173.33	22,767.06	0.00	21,607.94	21,607.94
01-Aug-32	575,000.00	44,375.00	619,375.00	11,593.73	48,702.00	60,295.73	559,079.27	0.00	559,079.27
01-Feb-33	0.00	30,000.00	30,000.00	7,838.02	11,173.33	19,011.35	0.00	10,988.65	10,988.65
01-Aug-33	595,000.00	30,000.00	625,000.00	7,838.02	48,702.00	56,540.02	568,459.98	0.00	568,459.98
01-Feb-34	0.00	15,125.00	15,125.00	3,951.67	11,173.33	15,125.00	0.00	0.00	0.00
01-Aug-34	605,000.00	15,125.00	620,125.00	3,951.67	48,702.00	52,653.67	567,471.33	0.00	567,471.33
01-Feb-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$11,463,447.00	$10,148,084.68	$21,611,531.68	$2,667,524.00	$1,796,259.90	$4,463,783.90	$11,377,786.77	$5,769,961.01	$17,147,747.78

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 10
ᴴaverhill
V-03-34
inal Structuring Analysis

Estimated Net Borrower Debt Service

Date	Principal Outstanding	Debt Service [Net of Accrued Interest]	LESS DSRF Earnings @ 3.919400%	LESS Contract Assistance	Estimated Net Debt Service	PLUS Administrative Fee Payable @ 0.075%	Estimated Total Payment	Estimated Total Payment [Fiscal Year ending] 30-Jun
23-Nov-04								
01-Feb-05	$11,463,447.00	$104,160.98	28,286.33	$11,173.33	$64,701.32	$3,247.98	$67,949.30	$67,949.30
01-Aug-05	11,463,447.00	504,442.24	74,875.57	48,702.00	380,864.67	8,597.59	389,462.26	--
01-Feb-06	11,234,725.00	272,861.21	73,381.63	11,173.33	188,306.25	8,426.04	196,732.29	586,194.55
01-Aug-06	11,234,725.00	505,104.21	73,381.63	48,702.00	383,020.58	8,426.04	391,446.62	--
01-Feb-07	11,002,482.00	269,377.57	71,864.69	11,173.33	186,339.55	8,251.86	194,591.41	586,038.03
01-Aug-07	11,002,482.00	507,997.57	71,864.69	48,702.00	387,430.88	8,251.86	395,682.74	--
01-Feb-08	10,763,862.00	263,412.07	70,306.10	11,173.33	181,932.64	8,072.90	190,005.54	585,688.28
01-Aug-08	10,763,862.00	511,016.07	70,306.10	48,702.00	392,007.97	8,072.90	400,080.87	--
01-Feb-09	10,516,258.00	257,221.97	68,688.83	11,173.33	177,359.81	7,887.19	185,247.00	585,327.87
01-Aug-09	10,516,258.00	511,555.97	68,688.83	48,702.00	394,165.14	7,887.19	402,052.33	--
01-Feb-10	10,261,924.00	253,406.96	67,027.60	11,173.33	175,206.03	7,696.44	182,902.47	584,954.80
01-Aug-10	10,261,924.00	512,087.96	67,027.60	48,702.00	396,358.36	7,696.44	404,054.80	--
01-Feb-11	10,003,243.00	249,526.74	65,337.98	11,173.33	173,015.43	7,502.43	180,517.86	584,572.66
01-Aug-11	10,003,243.00	515,310.74	65,337.98	48,702.00	401,270.76	7,502.43	408,773.19	--
01-Feb-12	9,737,459.00	242,882.14	63,601.97	11,173.33	168,106.84	7,303.09	175,409.93	584,183.12
01-Aug-12	9,737,459.00	516,166.14	63,601.97	48,702.00	403,862.17	7,303.09	411,165.26	--
01-Feb-13	9,464,175.00	238,509.60	61,816.96	11,173.33	165,519.31	7,098.13	172,617.44	583,782.70
01-Aug-13	9,464,175.00	519,933.60	61,816.96	48,702.00	409,414.64	7,098.13	416,512.77	--
01-Feb-14	9,182,751.00	231,122.22	59,978.79	11,173.33	159,970.10	6,887.06	166,857.16	583,369.93
01-Aug-14	9,182,751.00	523,873.22	59,978.79	48,702.00	415,192.43	6,887.06	422,079.49	--
01-Feb-15	8,890,000.00	223,437.50	58,066.64	11,173.33	154,197.53	6,667.50	160,865.03	582,944.52
01-Aug-15	8,890,000.00	528,437.50	58,066.64	48,702.00	421,668.86	6,667.50	428,336.36	--
01-Feb-16	8,585,000.00	215,431.25	56,074.47	11,173.33	148,183.45	6,438.75	154,622.20	582,958.56
01-Aug-16	8,585,000.00	530,431.25	56,074.47	48,702.00	425,654.78	6,438.75	432,093.53	--
01-Feb-17	8,270,000.00	207,162.50	54,016.99	11,173.33	141,972.18	6,202.50	148,174.68	580,268.21
01-Aug-17	8,270,000.00	537,162.50	54,016.99	48,702.00	434,443.51	6,202.50	440,646.01	--
01-Feb-18	7,940,000.00	198,500.00	51,861.54	11,173.33	135,465.13	5,955.00	141,420.13	582,066.14
01-Aug-18	7,940,000.00	538,500.00	51,861.54	48,702.00	437,936.46	5,955.00	443,891.46	--
01-Feb-19	7,600,000.00	190,000.00	49,640.77	11,173.33	129,185.90	5,700.00	134,885.90	578,777.36
01-Aug-19	7,600,000.00	545,000.00	49,640.77	48,702.00	446,657.23	5,700.00	452,357.23	--
01-Feb-20	7,245,000.00	181,125.00	47,322.02	11,173.33	122,629.65	5,433.75	128,063.40	580,420.63
01-Aug-20	7,245,000.00	551,125.00	47,322.02	48,702.00	455,100.98	5,433.75	460,534.73	--
01-Feb-21	6,875,000.00	171,875.00	44,905.30	11,173.33	115,796.37	5,156.25	120,952.62	581,487.35
01-Aug-21	6,875,000.00	556,875.00	44,905.30	48,702.00	463,267.70	5,156.25	468,423.95	--
01-Feb-22	6,490,000.00	162,250.00	42,390.60	11,173.33	108,686.07	4,867.50	113,553.57	581,977.52
01-Aug-22	6,490,000.00	557,250.00	42,390.60	48,702.00	466,157.40	4,867.50	471,024.90	--
01-Feb-23	6,095,000.00	152,375.00	39,810.59	11,173.33	101,391.08	4,571.25	105,962.33	576,987.23
01-Aug-23	6,095,000.00	562,375.00	39,810.59	48,702.00	473,862.41	4,571.25	478,433.66	--
01-Feb-24	5,685,000.00	142,125.00	37,132.60	11,173.33	93,819.07	4,263.75	98,082.82	576,516.48
01-Aug-24	5,685,000.00	567,125.00	37,132.60	48.702.00	481,290.40	4,263.75	485,554.15	--
01-Feb-25	5,260,000.00	131,500.00	34,356.64	11,173.33	85,970.03	3,945.00	89,915.03	575,469.18
01-Aug-25	5,260,000.00	576,500.00	34,356.64	48,702.00	493,441.36	3,945.00	497,386.36	--
01-Feb-26	4,815,000.00	120,375.00	31,450.04	11,173.33	77,751.63	3,611.25	81,362.88	578,749.24
01-Aug-26	4,815,000.00	580,375.00	31,450.04	48,702.00	500,222.96	3,611.25	503,834.21	--
01-Feb-27	4,355,000.00	108,875.00	28,445.47	11,173.33	69,256.20	3,266.25	72,522.45	576,356.66
01-Aug-27	4,355,000.00	588,875.00	28,445.47	48,702.00	511,727.53	3,266.25	514,993.78	--
01-Feb-28	3,875,000.00	96,875.00	25,310.26	11,173.33	60,391.41	2,906.25	63,297.66	578,291.44
01-Aug-28	3,875,000.00	591,875.00	25,310.26	48,702.00	517,862.74	2,906.25	520,768.99	--
01-Feb-29	3,380,000.00	84,500.00	22,077.08	11,173.33	51,249.59	2,535.00	53,784.59	574,553.58
01-Aug-29	3,380,000.00	599,500.00	22,077.08	48,702.00	528,720.92	2,535.00	531,255.92	--
01-Feb-30	2,865,000.00	71,625.00	18,713.26	11,173.33	41,738.41	2,148.75	43,887.16	575,143.08
01-Aug-30	2,865,000.00	606,625.00	18,713.26	48,702.00	539,209.74	2,148.75	541,358.49	--
01-Feb-31	2,330,000.00	58,250.00	15,218.81	11,173.33	31,857.86	1,747.50	33,605.36	574,963.85
01-Aug-31	2,330,000.00	613,250.00	15,218.81	48,702.00	549,329.19	1,747.50	551,076.69	--
01-Feb-32	1,775,000.00	44,375.00	11,593.73	11,173.33	21,607.94	1,331.25	22,939.19	574,015.88
01-Aug-32	1,775,000.00	619,375.00	11,593.73	48,702.00	559,079.27	1,331.25	560,410.52	--
01-Feb-33	1,200,000.00	30,000.00	7,838.02	11,173.33	10,988.65	900.00	11,888.65	572,299.17
01-Aug-33	1,200,000.00	625,000.00	7,838.02	48,702.00	568,459.98	900.00	569,359.98	--
01-Feb-34	605,000.00	15,125.00	3,951.67	11,173.33	0.00	453.75	453.75	569,813.73
01-Aug-34	605,000.00	620,125.00	3,951.67	48,702.00	567,471.33	453.75	567,925.08	--
01-Feb-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	567,925.08
01-Aug-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
		$21,611,531.68	$2,667,524.00	$1,796,259.90	$17,147,747.78	$306,298.35	$17,454,046.13	$17,454,046.13

Average Annual Net Debt Service:	$577,581.32

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 8
Haverhill
CW-02-01
Final Loan Structuring Analysis

AMENDED SCHEDULE C

G.E.	2.00%

chedule of Loan Repayments

itial Loan Obligation: 1,186,120.60

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayment		
Date	Principal	Interest	Total	DSRF Earnings	Contract Assistance	Total	Principal	Interest	Total
01-Feb-05	0.00	26,755.07	26,755.07	8,879.73	0.00	8,879.73	0.00	17,875.34	17,875.34
01-Aug-05	49,845.43	27,660.57	77,506.00	8,539.80	10,538.65	19,078.45	49,845.43	8,582.12	58,427.55
01-Feb-06	0.00	26,912.90	26,912.90	8,180.93	65.47	8,246.40	0.00	18,666.50	18,666.50
01-Aug-06	50,673.62	26,912.90	77,586.52	8,180.93	10,538.65	18,719.58	50,673.62	8,193.32	58,866.94
01-Feb-07	0.00	26,152.79	26,152.79	7,816.10	65.47	7,881.57	0.00	18,271.22	18,271.22
01-Aug-07	51,515.65	26,152.79	77,668.44	7,816.10	10,538.65	18,354.75	51,515.65	7,798.04	59,313.69
01-Feb-08	0.00	25,380.05	25,380.05	7,445.19	65.47	7,510.66	0.00	17,869.39	17,869.39
01-Aug-08	52,639.88	25,576.94	78,216.82	7,445.19	10,599.77	18,044.96	52,639.88	7,531.98	60,171.86
01-Feb-09	0.00	24,324.31	24,324.31	7,066.20	65.47	7,131.67	0.00	17,192.64	17,192.64
01-Aug-09	54,334.08	24,324.31	78,658.39	7,066.20	10,536.79	17,602.99	54,334.08	6,721.32	61,055.40
01-Feb-10	0.00	22,965.95	22,965.95	6,675.00	65.47	6,740.47	0.00	16,225.48	16,225.48
01-Aug-10	56,361.20	22,965.95	79,327.15	6,675.00	10,536.79	17,211.79	56,361.20	5,754.16	62,115.36
01-Feb-11	0.00	21,556.92	21,556.92	6,269.22	65.47	6,334.69	0.00	15,222.23	15,222.23
01-Aug-11	58,463.04	21,556.92	80,019.96	6,269.22	10,536.79	16,806.01	58,463.04	4,750.91	63,213.95
01-Feb-12	0.00	20,095.35	20,095.35	5,848.30	65.47	5,913.77	0.00	14,181.58	14,181.58
01-Aug-12	60,645.11	20,095.35	80,740.46	5,848.30	10,764.18	16,612.48	60,645.11	3,482.87	64,127.98
01-Feb-13	0.00	19,300.80	19,300.80	5,411.66	65.47	5,477.13	0.00	13,823.67	13,823.67
01-Aug-13	64,558.26	14,785.01	79,343.27	5,411.66	9,399.97	14,811.63	64,531.64	0.00	64,531.64
01-Feb-14	0.00	17,071.30	17,071.30	4,946.86	65.47	5,012.33	0.00	12,058.97	12,058.97
01-Aug-14	64,558.26	12,988.44	77,546.70	4,946.86	9,367.43	14,314.29	63,232.41	0.00	63,232.41
01-Feb-15	0.00	15,375.31	15,375.31	4,482.05	65.47	4,547.52	0.00	10,827.79	10,827.79
01-Aug-15	69,169.56	11,339.45	80,509.01	4,482.05	9,387.88	13,869.93	66,639.08	0.00	66,639.08
01-Feb-16	0.00	13,665.29	13,665.29	3,984.05	65.47	4,049.52	0.00	9,615.77	9,615.77
01-Aug-16	69,169.56	9,578.29	78,747.85	3,984.05	9,392.99	13,377.04	65,370.81	0.00	65,370.81
01-Feb-17	0.00	11,984.18	11,984.18	3,486.04	65.47	3,551.51	0.00	8,432.67	8,432.67
01-Aug-17	73,780.87	8,964.06	82,744.93	3,486.04	9,750.29	13,236.33	69,508.60	0.00	69,508.60
01-Feb-18	0.00	10,158.46	10,158.46	2,954.83	65.47	3,020.30	0.00	7,138.16	7,138.16
01-Aug-18	78,392.17	9,357.65	87,749.82	2,954.83	10,461.92	13,416.75	74,333.06	0.00	74,333.06
01-Feb-19	0.00	8,218.79	8,218.79	2,390.43	65.47	2,455.90	0.00	5,762.89	5,762.89
01-Aug-19	78,392.17	5,008.21	83,400.38	2,390.43	9,726.62	12,117.05	71,283.33	0.00	71,283.33
01-Feb-20	0.00	6,315.29	6,315.29	1,826.02	65.47	1,891.49	0.00	4,423.80	4,423.80
01-Aug-20	83,003.48	4,375.05	87,378.53	1,826.02	10,152.65	11,978.67	75,399.86	0.00	75,399.86
01-Feb-21	0.00	4,265.46	4,265.46	1,228.41	65.47	1,293.88	0.00	2,971.58	2,971.58
01-Aug-21	83,003.48	4,265.46	87,268.94	1,228.41	10,772.03	12,000.44	75,268.50	0.00	75,268.50
01-Feb-22	0.00	2,190.37	2,190.37	630.81	65.47	696.28	0.00	1,494.09	1,494.09
01-Aug-22	87,614.78	2,190.37	89,805.15	630.81	10,772.03	11,402.84	78,402.31	0.00	78,402.31
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,186,120.60	580,786.36	1,766,906.96	178,703.73	184,887.10	363,590.83	1,138,447.61	264,868.51	1,403,316.13

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 8

CW-02-01

Haverhill
CW-02-01

Financial Equivalent Interest Rate: 2.00%

Preliminary Structuring Analysis

Schedule of Loan Repayments

Initial Loan Obligation: $1,391,554.00

Date	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
26-Nov-02	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
01-Feb-03	$0.00	$11,546.69	$11,546.69	$3,617.93	$70.99	$3,688.92	$0.00	$7,857.77	$7,857.77
01-Aug-03	52,290.00	31,975.44	84,265.44	10,018.88	11,680.02	21,698.90	52,290.00	10,276.54	62,566.54
01-Feb-04	0.00	31,191.09	31,191.09	9,642.41	70.99	9,713.40	0.00	21,477.69	21,477.69
01-Aug-04	53,163.00	31,191.09	84,354.09	9,642.41	11,680.02	21,322.43	53,163.00	9,868.66	63,031.66
01-Feb-05	0.00	30,393.64	30,393.64	9,259.64	70.99	9,330.63	0.00	21,063.01	21,063.01
01-Aug-05	54,047.00	30,393.64	84,440.64	9,259.64	11,680.02	20,939.66	54,047.00	9,453.98	63,500.98
01-Feb-06	0.00	29,582.94	29,582.94	8,870.52	70.99	8,941.51	0.00	20,641.43	20,641.43
01-Aug-06	54,945.00	29,582.94	84,527.94	8,870.52	11,680.02	20,550.54	54,945.00	9,032.40	63,977.40
01-Feb-07	0.00	28,758.76	28,758.76	8,474.93	70.99	8,545.92	0.00	20,212.84	20,212.84
01-Aug-07	55,858.00	28,758.76	84,616.76	8,474.93	11,680.02	20,154.95	55,858.00	8,603.81	64,461.81
01-Feb-08	0.00	27,920.89	27,920.89	8,072.76	70.99	8,143.75	0.00	19,777.14	19,777.14
01-Aug-08	57,077.00	27,920.89	84,997.89	8,072.76	11,680.02	19,752.78	57,077.00	8,168.11	65,245.11
01-Feb-09	0.00	26,779.35	26,779.35	7,661.82	70.99	7,732.81	0.00	19,046.54	19,046.54
01-Aug-09	58,914.00	26,779.35	85,693.35	7,661.82	11,680.02	19,341.84	58,914.00	7,437.51	66,351.51
01-Feb-10	0.00	25,306.50	25,306.50	7,237.65	70.99	7,308.64	0.00	17,997.86	17,997.86
01-Aug-10	61,112.00	25,306.50	86,418.50	7,237.65	11,680.02	18,917.67	61,112.00	6,388.83	67,500.83
01-Feb-11	0.00	23,778.70	23,778.70	6,797.66	70.99	6,868.65	0.00	16,910.05	16,910.05
01-Aug-11	63,391.00	23,778.70	87,169.70	6,797.66	11,680.02	18,477.68	63,391.00	5,301.02	68,692.02
01-Feb-12	0.00	22,193.93	22,193.93	6,341.26	70.99	6,412.25	0.00	15,781.68	15,781.68
01-Aug-12	65,757.00	22,193.93	87,950.93	6,341.26	11,680.02	18,021.28	65,757.00	4,172.65	69,929.65
01-Feb-13	0.00	20,550.00	20,550.00	5,867.82	70.99	5,938.81	0.00	14,611.19	14,611.19
01-Aug-13	70,000.00	20,550.00	90,550.00	5,867.82	11,680.02	17,547.84	70,000.00	3,002.16	73,002.16
01-Feb-14	0.00	18,712.50	18,712.50	5,363.84	70.99	5,434.83	0.00	13,277.67	13,277.67
01-Aug-14	70,000.00	18,712.50	88,712.50	5,363.84	11,680.02	17,043.86	70,000.00	1,668.64	71,668.64
01-Feb-15	0.00	16,875.00	16,875.00	4,859.85	70.99	4,930.84	0.00	11,944.16	11,944.16
01-Aug-15	75,000.00	16,875.00	91,875.00	4,859.85	11,680.02	16,539.87	75,000.00	335.13	75,335.13
01-Feb-16	0.00	15,000.00	15,000.00	4,319.87	70.99	4,390.86	0.00	10,609.14	10,609.14
01-Aug-16	75,000.00	15,000.00	90,000.00	4,319.87	11,680.02	15,999.89	74,000.11	0.00	74,000.11
01-Feb-17	0.00	13,125.00	13,125.00	3,779.88	70.99	3,850.87	0.00	9,274.13	9,274.13
01-Aug-17	80,000.00	13,125.00	93,125.00	3,779.88	11,680.02	15,459.90	77,665.10	0.00	77,665.10
01-Feb-18	0.00	11,125.00	11,125.00	3,203.90	70.99	3,274.89	0.00	7,850.11	7,850.11
01-Aug-18	85,000.00	11,125.00	96,125.00	3,203.90	11,680.02	14,883.92	81,241.08	0.00	81,241.08
01-Feb-19	0.00	9,000.00	9,000.00	2,591.92	70.99	2,662.91	0.00	6,337.09	6,337.09
01-Aug-19	85,000.00	9,000.00	94,000.00	2,591.92	11,680.02	14,271.94	79,728.06	0.00	79,728.06
01-Feb-20	0.00	6,875.00	6,875.00	1,979.94	70.99	2,050.93	0.00	4,824.07	4,824.07
01-Aug-20	90,000.00	6,875.00	96,875.00	1,979.94	11,680.02	13,659.96	83,215.04	0.00	83,215.04
01-Feb-21	0.00	4,625.00	4,625.00	1,331.96	70.99	1,402.95	0.00	3,222.05	3,222.05
01-Aug-21	90,000.00	4,625.00	94,625.00	1,331.96	11,680.02	13,011.98	81,613.02	0.00	81,613.02
01-Feb-22	0.00	2,375.00	2,375.00	683.98	70.99	754.97	0.00	1,620.03	1,620.03
01-Aug-22	95,000.00	2,375.00	97,375.00	683.98	11,680.02	12,364.00	85,011.00	0.00	85,011.00
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$1,391,554.00	$771,858.73	$2,163,412.73	$226,320.03	$235,020.18	$461,340.21	$1,354,027.42	$348,045.10	$1,702,072.52

Pool 8 Swap Loans: Administrative Fees				
Borrower	Loan Number	Loan Due Date	Loan Gross Prin Bal	Administrative Fees
Haverhill	CW-02-01	01-Feb-05	$1,186,120.60	$925.00
Haverhill	CW-02-01	01-Aug-05	1,136,275.17	$889.59
Haverhill	CW-02-01	01-Feb-06	1,136,275.17	$852.21
Haverhill	CW-02-01	01-Aug-06	1,085,601.55	$852.21
Haverhill	CW-02-01	01-Feb-07	1,085,601.55	$814.20
Haverhill	CW-02-01	01-Aug-07	1,034,085.90	$814.20
Haverhill	CW-02-01	01-Feb-08	1,034,085.90	$775.56
Haverhill	CW-02-01	01-Aug-08	981,446.02	$775.56
Haverhill	CW-02-01	01-Feb-09	981,446.02	$736.08
Haverhill	CW-02-01	01-Aug-09	927,111.94	$736.08
Haverhill	CW-02-01	01-Feb-10	927,111.94	$695.33
Haverhill	CW-02-01	01-Aug-10	870,750.74	$695.33
Haverhill	CW-02-01	01-Feb-11	870,750.74	$653.06
Haverhill	CW-02-01	01-Aug-11	812,287.70	$653.06
Haverhill	CW-02-01	01-Feb-12	812,287.70	$609.22
Haverhill	CW-02-01	01-Aug-12	751,642.59	$609.22
Haverhill	CW-02-01	01-Feb-13	751,642.59	$563.73
Haverhill	CW-02-01	01-Aug-13	687,084.33	$563.73
Haverhill	CW-02-01	01-Feb-14	687,084.33	$515.31
Haverhill	CW-02-01	01-Aug-14	622,526.07	$515.31
Haverhill	CW-02-01	01-Feb-15	622,526.07	$466.89
Haverhill	CW-02-01	01-Aug-15	553,356.51	$466.89
Haverhill	CW-02-01	01-Feb-16	553,356.51	$415.02
Haverhill	CW-02-01	01-Aug-16	484,186.95	$415.02
Haverhill	CW-02-01	01-Feb-17	484,186.95	$363.14
Haverhill	CW-02-01	01-Aug-17	410,406.08	$363.14
Haverhill	CW-02-01	01-Feb-18	410,406.08	$307.80
Haverhill	CW-02-01	01-Aug-18	332,013.91	$307.80
Haverhill	CW-02-01	01-Feb-19	332,013.91	$249.01
Haverhill	CW-02-01	01-Aug-19	253,621.74	$249.01
Haverhill	CW-02-01	01-Feb-20	253,621.74	$190.22
Haverhill	CW-02-01	01-Aug-20	170,618.26	$190.22
Haverhill	CW-02-01	01-Feb-21	170,618.26	$127.96
Haverhill	CW-02-01	01-Aug-21	87,614.78	$127.96
Haverhill	CW-02-01	01-Feb-22	87,614.78	$65.71
Haverhill	CW-02-01	01-Aug-22	0.00	$65.71
Haverhill	CW-02-01	01-Feb-23	0.00	$0.00
Haverhill	CW-02-01	01-Aug-23	0.00	$0.00
Haverhill	CW-02-01	01-Feb-24	0.00	$0.00
Haverhill	CW-02-01	01-Aug-24	0.00	$0.00
Haverhill	CW-02-01	01-Feb-25	0.00	$0.00
Haverhill	CW-02-01	01-Aug-25	0.00	$0.00
Haverhill	CW-02-01	01-Feb-26	0.00	$0.00
Haverhill	CW-02-01	01-Aug-26	0.00	$0.00
Haverhill	CW-02-01	01-Feb-27	0.00	$0.00
Haverhill	CW-02-01	01-Aug-27	0.00	$0.00
Haverhill	CW-02-01	01-Feb-28	0.00	$0.00
Haverhill	CW-02-01	01-Aug-28	0.00	$0.00
Haverhill	CW-02-01	01-Feb-29	0.00	$0.00
Haverhill	CW-02-01	01-Aug-29	0.00	$0.00
Haverhill	CW-02-01	01-Feb-30	0.00	$0.00
Haverhill	CW-02-01	01-Aug-30	0.00	$0.00
Haverhill	CW-02-01	01-Feb-31	0.00	$0.00
Haverhill	CW-02-01	01-Aug-31	0.00	$0.00
Haverhill	CW-02-01	01-Feb-32	0.00	$0.00
Haverhill	CW-02-01	01-Aug-32	0.00	$0.00
Haverhill	CW-02-01	01-Feb-33	0.00	$0.00
Haverhill	CW-02-01	01-Aug-33	0.00	$0.00
Haverhill	CW-02-01	01-Feb-34	0.00	$0.00
Haverhill	CW-02-01	01-Aug-34	0.00	$0.00
Haverhill	CW-02-01	01-Feb-35	0.00	$0.00
Haverhill	CW-02-01	01-Aug-35	0.00	$0.00

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 9
Haverhill
CW-02-10
Final Loan Structuring Analysis

AMENDED SCHEDULE C

Net Borrower Savings due to 2006 Refunding:	1,948.58
G.E.	2.00%

Schedule of Loan Repayments

Initial Loan Obligation:	81,806.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayment		
Date	Principal	Interest	Total	DSRF Earnings	Contract Assistance	Total	Principal	Interest	Total
01-Feb-07	0.00	1,958.31	1,958.31	570.98	89.25	660.23	0.00	1,298.08	1,298.08
01-Aug-07	4,232.00	1,897.49	6,129.49	570.98	304.12	875.10	4,232.00	1,022.39	5,254.39
01-Feb-08	0.00	1,855.17	1,855.17	541.44	81.17	622.60	0.00	1,232.56	1,232.56
01-Aug-08	4,265.00	1,855.17	6,120.17	541.44	304.12	845.56	4,265.00	1,009.61	5,274.61
01-Feb-09	0.00	1,806.12	1,806.12	511.67	81.17	592.84	0.00	1,213.28	1,213.28
01-Aug-09	4,366.00	1,806.12	6,172.12	511.67	304.12	815.79	4,366.00	990.32	5,356.32
01-Feb-10	0.00	1,696.97	1,696.97	481.20	81.17	562.36	0.00	1,134.60	1,134.60
01-Aug-10	4,484.00	1,696.97	6,180.97	481.20	304.12	785.32	4,484.00	911.65	5,395.65
01-Feb-11	0.00	1,629.71	1,629.71	449.90	81.17	531.07	0.00	1,098.64	1,098.64
01-Aug-11	4,618.00	1,629.71	6,247.71	449.90	304.12	754.02	4,618.00	875.68	5,493.68
01-Feb-12	0.00	1,502.71	1,502.71	417.67	81.17	498.83	0.00	1,003.87	1,003.87
01-Aug-12	4,817.00	1,502.71	6,319.71	417.67	304.12	721.79	4,817.00	780.92	5,597.92
01-Feb-13	0.00	1,370.24	1,370.24	384.05	81.17	465.21	0.00	905.02	905.02
01-Aug-13	5,024.00	1,370.24	6,394.24	384.05	304.12	688.17	5,024.00	682.07	5,706.07
01-Feb-14	0.00	1,232.08	1,232.08	348.98	81.17	430.15	0.00	801.93	801.93
01-Aug-14	5,000.00	1,232.08	6,232.08	348.98	304.12	653.10	5,000.00	578.97	5,578.97
01-Feb-15	0.00	1,094.58	1,094.58	314.08	81.17	395.25	0.00	699.33	699.33
01-Aug-15	5,000.00	1,094.58	6,094.58	314.08	304.12	618.20	5,000.00	476.37	5,476.37
01-Feb-16	0.00	957.08	957.08	279.19	81.17	360.35	0.00	596.72	596.72
01-Aug-16	5,000.00	957.08	5,957.08	279.19	304.12	583.31	5,000.00	373.77	5,373.77
01-Feb-17	0.00	825.83	825.83	244.29	81.17	325.45	0.00	500.37	500.37
01-Aug-17	5,000.00	774.00	5,774.00	244.29	296.61	540.90	5,000.00	233.10	5,233.10
01-Feb-18	0.00	698.22	698.22	209.39	81.69	291.08	0.00	407.14	407.14
01-Aug-18	5,000.00	618.47	5,618.47	209.39	293.10	502.49	5,000.00	115.98	5,115.98
01-Feb-19	0.00	573.10	573.10	174.49	82.58	257.07	0.00	316.02	316.02
01-Aug-19	5,000.00	522.86	5,522.86	174.49	298.26	472.75	5,000.00	50.11	5,050.11
01-Feb-20	0.00	449.58	449.58	139.59	82.80	222.39	0.00	227.19	227.19
01-Aug-20	5,000.00	405.20	5,405.20	139.59	299.32	438.92	4,966.29	0.00	4,966.29
01-Feb-21	0.00	327.73	327.73	104.69	83.25	187.95	0.00	139.78	139.78
01-Aug-21	5,000.00	289.65	5,289.65	104.69	300.69	405.39	4,884.26	0.00	4,884.26
01-Feb-22	0.00	208.95	208.95	69.80	84.15	153.95	0.00	55.00	55.00
01-Aug-22	5,000.00	140.59	5,140.59	69.80	313.11	382.90	4,757.68	0.00	4,757.68
01-Feb-23	0.00	106.40	106.40	34.90	71.50	106.40	0.00	0.00	0.00
01-Aug-23	5,000.00	0.00	5,000.00	34.90	303.43	338.33	4,661.67	0.00	4,661.67
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$81,806.00	$36,085.61	$117,891.61	$10,552.59	$6,532.63	$17,085.22	$81,075.90	$19,730.49	$100,806.39

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 9

Haverhill
CW-02-10

Final Structuring Analysis

Estimated Net Borrower Debt Service

Date	Principal Outstanding	Debt Service [Net of Accrued Interest]	LESS DSRF Earnings @ 4.188200%	LESS Contract Assistance	Estimated Net Debt Service	PLUS Administrative Fee Payable @ 0.075%	Estimated Total Payment	Estimated Total Payment [Fiscal Year ending] 30-Jun
06-Nov-03								
01-Feb-04	$94,022.00	$1,012.16	309.89	$90.10	$612.17	$33.30	$645.47	$645.47
01-Aug-04	94,022.00	6,167.40	656.24	313.06	5,198.10	70.52	5,268.62	--
01-Feb-05	89,998.00	2,103.16	628.15	90.10	1,384.91	67.50	1,452.41	6,721.03
01-Aug-05	89,998.00	6,156.16	628.15	313.06	5,214.95	67.50	5,282.45	--
01-Feb-06	85,945.00	2,062.63	599.86	90.10	1,372.67	64.46	1,437.13	6,719.58
01-Aug-06	85,945.00	6,201.63	599.86	313.06	5,288.71	64.46	5,353.17	--
01-Feb-07	81,806.00	1,959.16	570.98	90.10	1,298.08	61.35	1,359.43	6,712.60
01-Aug-07	81,806.00	6,191.16	570.98	313.06	5,307.12	61.35	5,368.47	--
01-Feb-08	77,574.00	1,916.84	541.44	90.10	1,285.30	58.18	1,343.48	6,711.95
01-Aug-08	77,574.00	6,181.84	541.44	313.06	5,327.34	58.18	5,385.52	--
01-Feb-09	73,309.00	1,867.79	511.67	90.10	1,266.02	54.98	1,321.00	6,706.52
01-Aug-09	73,309.00	6,233.79	511.67	313.06	5,409.06	54.98	5,464.04	--
01-Feb-10	68,943.00	1,758.64	481.20	90.10	1,187.34	51.71	1,239.05	6,703.09
01-Aug-10	68,943.00	6,242.64	481.20	313.06	5,448.38	51.71	5,500.09	--
01-Feb-11	64,459.00	1,691.38	449.90	90.10	1,151.38	48.34	1,199.72	6,699.81
01-Aug-11	64,459.00	6,309.38	449.90	313.06	5,546.42	48.34	5,594.76	--
01-Feb-12	59,841.00	1,564.38	417.67	90.10	1,056.61	44.88	1,101.49	6,696.25
01-Aug-12	59,841.00	6,381.38	417.67	313.06	5,650.65	44.88	5,695.53	--
01-Feb-13	55,024.00	1,431.91	384.05	90.10	957.76	41.27	999.03	6,694.56
01-Aug-13	55,024.00	6,455.91	384.05	313.06	5,758.80	41.27	5,800.07	--
01-Feb-14	50,000.00	1,293.75	348.98	90.10	854.67	37.50	892.17	6,692.24
01-Aug-14	50,000.00	6,293.75	348.98	313.06	5,631.71	37.50	5,669.21	--
01-Feb-15	45,000.00	1,156.25	314.08	90.10	752.07	33.75	785.82	6,455.03
01-Aug-15	45,000.00	6,156.25	314.08	313.06	5,529.11	33.75	5,562.86	--
01-Feb-16	40,000.00	1,018.75	279.19	90.10	649.46	30.00	679.46	6,242.32
01-Aug-16	40,000.00	6,018.75	279.19	313.06	5,426.50	30.00	5,456.50	--
01-Feb-17	35,000.00	887.50	244.29	90.10	553.11	26.25	579.36	6,035.86
01-Aug-17	35,000.00	5,887.50	244.29	313.06	5,330.15	26.25	5,356.40	--
01-Feb-18	30,000.00	756.25	209.39	90.10	456.76	22.50	479.26	5,835.66
01-Aug-18	30,000.00	5,756.25	209.39	313.06	5,233.80	22.50	5,256.30	--
01-Feb-19	25,000.00	625.00	174.49	90.10	360.41	18.75	379.16	5,635.46
01-Aug-19	25,000.00	5,625.00	174.49	313.06	5,137.45	18.75	5,156.20	--
01-Feb-20	20,000.00	500.00	139.59	90.10	270.31	15.00	285.31	5,441.51
01-Aug-20	20,000.00	5,500.00	139.59	313.06	5,047.35	15.00	5,062.35	--
01-Feb-21	15,000.00	375.00	104.69	90.10	180.21	11.25	191.46	5,253.81
01-Aug-21	15,000.00	5,375.00	104.69	313.06	4,957.25	11.25	4,968.50	--
01-Feb-22	10,000.00	250.00	69.80	90.10	90.10	7.50	97.60	5,066.10
01-Aug-22	10,000.00	5,250.00	69.80	313.06	4,867.14	7.50	4,874.64	--
01-Feb-23	5,000.00	125.00	34.90	90.10	0.00	3.75	3.75	4,878.39
01-Aug-23	5,000.00	5,125.00	34.90	313.06	4,777.04	3.75	4,780.79	--
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,780.79
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
		$143,864.34	$13,974.77	$8,063.10	$121,826.37	$1,501.66	$123,328.03	$123,328.03

Average Annual Net Debt Service:	$6,172.76

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 9
Haverhill
W-02-10
inal Structuring Analysis

SCHEDULE C

Schedule of Loan Repayments

Initial Loan Obligation: $94,022.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
Date	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
06-Nov-03									
01-Feb-04	$0.00	$1,012.16	$1,012.16	$309.89	$90.10	$399.99	$0.00	$612.17	$612.17
01-Aug-04	4,024.00	2,143.40	6,167.40	656.24	313.06	969.30	4,024.00	1,174.10	5,198.10
01-Feb-05	0.00	2,103.16	2,103.16	628.15	90.10	718.25	0.00	1,384.91	1,384.91
01-Aug-05	4,053.00	2,103.16	6,156.16	628.15	313.06	941.21	4,053.00	1,161.95	5,214.95
01-Feb-06	0.00	2,062.63	2,062.63	599.86	90.10	689.96	0.00	1,372.67	1,372.67
01-Aug-06	4,139.00	2,062.63	6,201.63	599.86	313.06	912.92	4,139.00	1,149.71	5,288.71
01-Feb-07	0.00	1,959.16	1,959.16	570.98	90.10	661.08	0.00	1,298.08	1,298.08
01-Aug-07	4,232.00	1,959.16	6,191.16	570.98	313.06	884.04	4,232.00	1,075.12	5,307.12
01-Feb-08	0.00	1,916.84	1,916.84	541.44	90.10	631.54	0.00	1,285.30	1,285.30
01-Aug-08	4,265.00	1,916.84	6,181.84	541.44	313.06	854.50	4,265.00	1,062.34	5,327.34
01-Feb-09	0.00	1,867.79	1,867.79	511.67	90.10	601.77	0.00	1,266.02	1,266.02
01-Aug-09	4,366.00	1,867.79	6,233.79	511.67	313.06	824.73	4,366.00	1,043.06	5,409.06
01-Feb-10	0.00	1,758.64	1,758.64	481.20	90.10	571.30	0.00	1,187.34	1,187.34
01-Aug-10	4,484.00	1,758.64	6,242.64	481.20	313.06	794.26	4,484.00	964.38	5,448.38
01-Feb-11	0.00	1,691.38	1,691.38	449.90	90.10	540.00	0.00	1,151.38	1,151.38
01-Aug-11	4,618.00	1,691.38	6,309.38	449.90	313.06	762.96	4,618.00	928.42	5,546.42
01-Feb-12	0.00	1,564.38	1,564.38	417.67	90.10	507.77	0.00	1,056.61	1,056.61
01-Aug-12	4,817.00	1,564.38	6,381.38	417.67	313.06	730.73	4,817.00	833.65	5,650.65
01-Feb-13	0.00	1,431.91	1,431.91	384.05	90.10	474.15	0.00	957.76	957.76
01-Aug-13	5,024.00	1,431.91	6,455.91	384.05	313.06	697.11	5,024.00	734.80	5,758.80
01-Feb-14	0.00	1,293.75	1,293.75	348.98	90.10	439.08	0.00	854.67	854.67
01-Aug-14	5,000.00	1,293.75	6,293.75	348.98	313.06	662.04	5,000.00	631.71	5,631.71
01-Feb-15	0.00	1,156.25	1,156.25	314.08	90.10	404.18	0.00	752.07	752.07
01-Aug-15	5,000.00	1,156.25	6,156.25	314.08	313.06	627.14	5,000.00	529.11	5,529.11
01-Feb-16	0.00	1,018.75	1,018.75	279.19	90.10	369.29	0.00	649.46	649.46
01-Aug-16	5,000.00	1,018.75	6,018.75	279.19	313.06	592.25	5,000.00	426.50	5,426.50
01-Feb-17	0.00	887.50	887.50	244.29	90.10	334.39	0.00	553.11	553.11
01-Aug-17	5,000.00	887.50	5,887.50	244.29	313.06	557.35	5,000.00	330.15	5,330.15
01-Feb-18	0.00	756.25	756.25	209.39	90.10	299.49	0.00	456.76	456.76
01-Aug-18	5,000.00	756.25	5,756.25	209.39	313.06	522.45	5,000.00	233.80	5,233.80
01-Feb-19	0.00	625.00	625.00	174.49	90.10	264.59	0.00	360.41	360.41
01-Aug-19	5,000.00	625.00	5,625.00	174.49	313.06	487.55	5,000.00	137.45	5,137.45
01-Feb-20	0.00	500.00	500.00	139.59	90.10	229.69	0.00	270.31	270.31
01-Aug-20	5,000.00	500.00	5,500.00	139.59	313.06	452.65	5,000.00	47.35	5,047.35
01-Feb-21	0.00	375.00	375.00	104.69	90.10	194.79	0.00	180.21	180.21
01-Aug-21	5,000.00	375.00	5,375.00	104.69	313.06	417.75	4,957.25	0.00	4,957.25
01-Feb-22	0.00	250.00	250.00	69.80	90.10	159.90	0.00	90.10	90.10
01-Aug-22	5,000.00	250.00	5,250.00	69.80	313.06	382.86	4,867.14	0.00	4,867.14
01-Feb-23	0.00	125.00	125.00	34.90	90.10	125.00	0.00	0.00	0.00
01-Aug-23	5,000.00	125.00	5,125.00	34.90	313.06	347.96	4,777.04	0.00	4,777.04
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$94,022.00	$49,842.34	$143,864.34	$13,974.77	$8,063.10	$22,037.87	$93,623.44	$28,203.02	$121,826.47

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 9
Haverhill
CW-02-11
Final Loan Structuring Analysis

AMENDED SCHEDULE C

Net Borrower Savings due to 2006 Refunding:	9,691.98
G.E.	2.00%

Schedule of Loan Repayments

Initial Loan Obligation:	360,077.60

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayment		
Date	Principal	Interest	Total	DSRF Earnings	Contract Assistance	Total	Principal	Interest	Total
01-Feb-07	0.00	8,681.24	8,681.24	2,513.21	518.13	3,031.34	0.00	5,649.90	5,649.90
01-Aug-07	16,225.93	8,373.52	24,599.45	2,513.21	1,799.16	4,312.37	16,225.93	4,061.15	20,287.08
01-Feb-08	0.00	8,211.26	8,211.26	2,399.96	470.43	2,870.39	0.00	5,340.87	5,340.87
01-Aug-08	16,348.98	8,211.26	24,560.24	2,399.96	1,799.16	4,199.12	16,348.98	4,012.14	20,361.12
01-Feb-09	0.00	8,023.24	8,023.24	2,285.85	470.43	2,756.28	0.00	5,266.96	5,266.96
01-Aug-09	16,724.56	8,023.24	24,747.80	2,285.85	1,799.16	4,085.01	16,724.56	3,938.23	20,662.79
01-Feb-10	0.00	7,605.13	7,605.13	2,169.12	470.43	2,639.55	0.00	4,965.58	4,965.58
01-Aug-10	17,164.56	7,605.13	24,769.69	2,169.12	1,799.16	3,968.28	17,164.56	3,636.85	20,801.41
01-Feb-11	0.00	7,347.66	7,347.66	2,049.32	470.43	2,519.75	0.00	4,827.92	4,827.92
01-Aug-11	17,665.76	7,347.66	25,013.42	2,049.32	1,799.16	3,848.48	17,665.76	3,499.19	21,164.95
01-Feb-12	0.00	6,861.85	6,861.85	1,926.02	470.43	2,396.44	0.00	4,465.41	4,465.41
01-Aug-12	18,407.26	6,861.85	25,269.11	1,926.02	1,799.16	3,725.17	18,407.26	3,136.68	21,543.94
01-Feb-13	0.00	6,355.65	6,355.65	1,797.54	470.43	2,267.97	0.00	4,087.68	4,087.68
01-Aug-13	19,179.68	6,355.65	25,535.33	1,797.54	1,799.16	3,596.70	19,179.68	2,758.95	21,938.63
01-Feb-14	0.00	5,828.21	5,828.21	1,663.67	470.43	2,134.10	0.00	3,694.11	3,694.11
01-Aug-14	19,326.56	5,828.21	25,154.77	1,663.67	1,799.16	3,462.83	19,326.56	2,365.38	21,691.94
01-Feb-15	0.00	5,296.73	5,296.73	1,528.78	470.43	1,999.21	0.00	3,297.52	3,297.52
01-Aug-15	19,326.56	5,296.73	24,623.29	1,528.78	1,799.16	3,327.94	19,326.56	1,968.79	21,295.35
01-Feb-16	0.00	4,765.25	4,765.25	1,393.89	470.43	1,864.32	0.00	2,900.93	2,900.93
01-Aug-16	22,547.65	4,765.25	27,312.90	1,393.89	1,799.16	3,193.05	22,547.65	1,572.20	24,119.85
01-Feb-17	0.00	4,173.37	4,173.37	1,236.51	470.43	1,706.94	0.00	2,466.43	2,466.43
01-Aug-17	22,547.65	3,963.71	26,511.36	1,236.51	1,764.23	3,000.74	22,547.65	962.97	23,510.62
01-Feb-18	0.00	3,594.75	3,594.75	1,079.14	472.64	1,551.78	0.00	2,042.98	2,042.98
01-Aug-18	22,547.65	3,260.92	25,808.57	1,079.14	1,745.75	2,824.89	22,547.65	436.03	22,983.68
01-Feb-19	0.00	3,027.17	3,027.17	921.76	476.69	1,398.45	0.00	1,628.72	1,628.72
01-Aug-19	25,768.74	2,773.63	28,542.37	921.76	1,763.17	2,684.94	25,768.74	88.69	25,857.43
01-Feb-20	0.00	2,389.20	2,389.20	741.91	477.73	1,219.63	0.00	1,169.56	1,169.56
01-Aug-20	25,768.74	2,167.37	27,936.11	741.91	1,769.50	2,511.41	25,424.71	0.00	25,424.71
01-Feb-21	0.00	1,759.18	1,759.18	562.05	480.09	1,042.14	0.00	717.03	717.03
01-Aug-21	25,768.74	1,571.98	27,340.72	562.05	1,777.63	2,339.69	25,001.03	0.00	25,001.03
01-Feb-22	0.00	1,143.99	1,143.99	382.19	484.93	867.12	0.00	276.87	276.87
01-Aug-22	25,768.74	803.35	26,572.09	382.19	1,846.76	2,228.96	24,343.13	0.00	24,343.13
01-Feb-23	0.00	616.93	616.93	202.34	414.59	616.93	0.00	0.00	0.00
01-Aug-23	28,989.84	0.00	28,989.84	202.34	1,778.31	1,980.65	27,009.19	0.00	27,009.19
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$360,077.60	$168,890.27	$528,967.87	$49,706.51	$38,466.04	$88,172.55	$355,559.59	$85,235.72	$440,795.31

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 9

Haverhill
CW-02-11

Schedule of Administrative Fee [After October 26, 2004]

Date	Principal Outstanding	Administrative Fee Payable @ 0.075%
03-Nov-05		
01-Feb-06	375,965.96	361.57
01-Aug-06	375,965.96	281.97
01-Feb-07	360,077.60	270.06
01-Aug-07	360,077.60	270.06
01-Feb-08	343,851.67	257.89
01-Aug-08	343,851.67	257.89
01-Feb-09	327,502.69	245.63
01-Aug-09	327,502.69	245.63
01-Feb-10	310,778.13	233.08
01-Aug-10	310,778.13	233.08
01-Feb-11	293,613.57	220.21
01-Aug-11	293,613.57	220.21
01-Feb-12	275,947.81	206.96
01-Aug-12	275,947.81	206.96
01-Feb-13	257,540.55	193.16
01-Aug-13	257,540.55	193.16
01-Feb-14	238,360.87	178.77
01-Aug-14	238,360.87	178.77
01-Feb-15	219,034.31	164.28
01-Aug-15	219,034.31	164.28
01-Feb-16	199,707.75	149.78
01-Aug-16	199,707.75	149.78
01-Feb-17	177,160.10	132.87
01-Aug-17	177,160.10	132.87
01-Feb-18	154,612.45	115.96
01-Aug-18	154,612.45	115.96
01-Feb-19	132,064.80	99.05
01-Aug-19	132,064.80	99.05
01-Feb-20	106,296.06	79.72
01-Aug-20	106,296.06	79.72
01-Feb-21	80,527.32	60.40
01-Aug-21	80,527.32	60.40
01-Feb-22	54,758.58	41.07
01-Aug-22	54,758.58	41.07
01-Feb-23	28,989.84	21.74
01-Aug-23	28,989.84	21.74
01-Feb-24	0.00	0.00
01-Aug-24	0.00	0.00
01-Feb-25	0.00	0.00
01-Aug-25	0.00	0.00
01-Feb-26	0.00	0.00
01-Aug-26	0.00	0.00
01-Feb-27	0.00	0.00
		$5,984.80

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 9

Revised SCHEDULE C

Haverhill
CW-02-11

Final Loan Structuring Analysis

Revised Schedule of Loan Repayments

Outstanding Loan Obligation:	**$375,965.96**

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
03-Nov-05									
01-Feb-06	$0.00	$11,646.51	$11,646.51	$3,364.82	$669.87	$4,034.69	$0.00	$7,611.82	$7,611.82
01-Aug-06	15,888.36	9,082.72	24,971.08	2,624.11	1,851.14	4,475.25	15,888.36	4,607.47	20,495.83
01-Feb-07	0.00	8,685.52	8,685.52	2,513.21	522.41	3,035.62	0.00	5,649.90	5,649.90
01-Aug-07	16,225.93	8,685.52	24,911.45	2,513.21	1,851.14	4,364.35	16,225.93	4,321.17	20,547.10
01-Feb-08	0.00	8,523.26	8,523.26	2,399.96	522.41	2,922.37	0.00	5,600.89	5,600.89
01-Aug-08	16,348.98	8,523.26	24,872.24	2,399.96	1,851.14	4,251.10	16,348.98	4,272.16	20,621.14
01-Feb-09	0.00	8,335.24	8,335.24	2,285.85	522.41	2,808.26	0.00	5,526.98	5,526.98
01-Aug-09	16,724.56	8,335.24	25,059.80	2,285.85	1,851.14	4,136.99	16,724.56	4,198.25	20,922.81
01-Feb-10	0.00	7,917.13	7,917.13	2,169.12	522.41	2,691.53	0.00	5,225.60	5,225.60
01-Aug-10	17,164.56	7,917.13	25,081.69	2,169.12	1,851.14	4,020.26	17,164.56	3,896.87	21,061.43
01-Feb-11	0.00	7,659.66	7,659.66	2,049.32	522.41	2,571.73	0.00	5,087.93	5,087.93
01-Aug-11	17,665.76	7,659.66	25,325.42	2,049.32	1,851.14	3,900.46	17,665.76	3,759.20	21,424.96
01-Feb-12	0.00	7,173.85	7,173.85	1,926.01	522.41	2,448.42	0.00	4,725.43	4,725.43
01-Aug-12	18,407.26	7,173.85	25,581.11	1,926.01	1,851.14	3,777.15	18,407.26	3,396.70	21,803.96
01-Feb-13	0.00	6,667.65	6,667.65	1,797.54	522.41	2,319.95	0.00	4,347.70	4,347.70
01-Aug-13	19,179.68	6,667.65	25,847.33	1,797.54	1,851.14	3,648.68	19,179.68	3,018.97	22,198.65
01-Feb-14	0.00	6,140.21	6,140.21	1,663.67	522.41	2,186.08	0.00	3,954.13	3,954.13
01-Aug-14	19,326.56	6,140.21	25,466.77	1,663.67	1,851.14	3,514.81	19,326.56	2,625.40	21,951.96
01-Feb-15	0.00	5,608.73	5,608.73	1,528.78	522.41	2,051.19	0.00	3,557.54	3,557.54
01-Aug-15	19,326.56	5,608.73	24,935.29	1,528.78	1,851.14	3,379.92	19,326.56	2,228.81	21,555.37
01-Feb-16	0.00	5,077.25	5,077.25	1,393.89	522.41	1,916.30	0.00	3,160.95	3,160.95
01-Aug-16	22,547.65	5,077.25	27,624.90	1,393.89	1,851.14	3,245.03	22,547.65	1,832.22	24,379.87
01-Feb-17	0.00	4,485.37	4,485.37	1,236.51	522.41	1,758.92	0.00	2,726.45	2,726.45
01-Aug-17	22,547.65	4,485.37	27,033.02	1,236.51	1,851.14	3,087.65	22,547.65	1,397.72	23,945.37
01-Feb-18	0.00	3,893.50	3,893.50	1,079.14	522.41	1,601.55	0.00	2,291.95	2,291.95
01-Aug-18	22,547.65	3,893.50	26,441.15	1,079.14	1,851.14	2,930.28	22,547.65	963.22	23,510.87
01-Feb-19	0.00	3,301.62	3,301.62	921.77	522.41	1,444.18	0.00	1,857.44	1,857.44
01-Aug-19	25,768.74	3,301.62	29,070.36	921.77	1,851.14	2,772.91	25,768.74	528.71	26,297.45
01-Feb-20	0.00	2,657.40	2,657.40	741.91	522.41	1,264.32	0.00	1,393.08	1,393.08
01-Aug-20	25,768.74	2,657.40	28,426.14	741.91	1,851.14	2,593.05	25,768.74	64.35	25,833.09
01-Feb-21	0.00	2,013.18	2,013.18	562.05	522.41	1,084.46	0.00	928.72	928.72
01-Aug-21	25,768.74	2,013.18	27,781.92	562.05	1,851.14	2,413.19	25,368.73	0.00	25,368.73
01-Feb-22	0.00	1,368.96	1,368.96	382.20	522.41	904.61	0.00	464.35	464.35
01-Aug-22	25,768.74	1,368.96	27,137.70	382.20	1,851.14	2,233.34	24,904.36	0.00	24,904.36
01-Feb-23	0.00	724.75	724.75	202.34	522.41	724.75	0.00	0.00	0.00
01-Aug-23	28,989.84	724.75	29,714.59	202.34	1,851.14	2,053.48	27,661.11	0.00	27,661.11
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$375,965.96	$201,195.79	$577,161.75	$55,695.47	$42,871.38	$98,566.85	$373,372.84	$105,222.06	$478,594.90

* Note: Interest, Equity Earnings and Contract Assistance Payments reflect partial first period.

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 9

CW-02-11

Revised SCHEDULE C

Haverhill
CW-02-11

Final Loan Structuring Analysis

Revised Schedule of Loan Repayments

Outstanding Loan Obligation:	$375,965.96

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
03-Nov-05									
01-Feb-06	$0.00	$11,646.51	$11,646.51	$3,364.82	$669.87	$4,034.69	$0.00	$7,611.82	$7,611.82
01-Aug-04	15,888.36	9,082.72	24,971.08	2,624.11	1,851.14	4,475.25	15,888.36	4,607.47	20,495.83
01-Feb-05	0.00	8,685.52	8,685.52	2,513.21	522.41	3,035.62	0.00	5,649.90	5,649.90
01-Aug-05	16,225.93	8,685.52	24,911.45	2,513.21	1,851.14	4,364.35	16,225.93	4,321.17	20,547.10
01-Feb-06	0.00	8,523.26	8,523.26	2,399.96	522.41	2,922.37	0.00	5,600.89	5,600.89
01-Aug-06	16,348.98	8,523.26	24,872.24	2,399.96	1,851.14	4,251.10	16,348.98	4,272.16	20,621.14
01-Feb-07	0.00	8,335.24	8,335.24	2,285.85	522.41	2,808.26	0.00	5,526.98	5,526.98
01-Aug-07	16,724.56	8,335.24	25,059.80	2,285.85	1,851.14	4,136.99	16,724.56	4,198.25	20,922.81
01-Feb-08	0.00	7,917.13	7,917.13	2,169.12	522.41	2,691.53	0.00	5,225.60	5,225.60
01-Aug-08	17,164.56	7,917.13	25,081.69	2,169.12	1,851.14	4,020.26	17,164.56	3,896.87	21,061.43
01-Feb-09	0.00	7,659.66	7,659.66	2,049.32	522.41	2,571.73	0.00	5,087.93	5,087.93
01-Aug-09	17,665.76	7,659.66	25,325.42	2,049.32	1,851.14	3,900.46	17,665.76	3,759.20	21,424.96
01-Feb-10	0.00	7,173.85	7,173.85	1,926.01	522.41	2,448.42	0.00	4,725.43	4,725.43
01-Aug-10	18,407.26	7,173.85	25,581.11	1,926.01	1,851.14	3,777.15	18,407.26	3,396.70	21,803.96
01-Feb-11	0.00	6,667.65	6,667.65	1,797.54	522.41	2,319.95	0.00	4,347.70	4,347.70
01-Aug-11	19,179.68	6,667.65	25,847.33	1,797.54	1,851.14	3,648.68	19,179.68	3,018.97	22,198.65
01-Feb-12	0.00	6,140.21	6,140.21	1,663.67	522.41	2,186.08	0.00	3,954.13	3,954.13
01-Aug-12	19,326.56	6,140.21	25,466.77	1,663.67	1,851.14	3,514.81	19,326.56	2,625.40	21,951.96
01-Feb-13	0.00	5,608.73	5,608.73	1,528.78	522.41	2,051.19	0.00	3,557.54	3,557.54
01-Aug-13	19,326.56	5,608.73	24,935.29	1,528.78	1,851.14	3,379.92	19,326.56	2,228.81	21,555.37
01-Feb-14	0.00	5,077.25	5,077.25	1,393.89	522.41	1,916.30	0.00	3,160.95	3,160.95
01-Aug-14	22,547.65	5,077.25	27,624.90	1,393.89	1,851.14	3,245.03	22,547.65	1,832.22	24,379.87
01-Feb-15	0.00	4,485.37	4,485.37	1,236.51	522.41	1,758.92	0.00	2,726.45	2,726.45
01-Aug-15	22,547.65	4,485.37	27,033.02	1,236.51	1,851.14	3,087.65	22,547.65	1,397.72	23,945.37
01-Feb-16	0.00	3,893.50	3,893.50	1,079.14	522.41	1,601.55	0.00	2,291.95	2,291.95
01-Aug-16	22,547.65	3,893.50	26,441.15	1,079.14	1,851.14	2,930.28	22,547.65	963.22	23,510.87
01-Feb-17	0.00	3,301.62	3,301.62	921.77	522.41	1,444.18	0.00	1,857.44	1,857.44
01-Aug-17	25,768.74	3,301.62	29,070.36	921.77	1,851.14	2,772.91	25,768.74	528.71	26,297.45
01-Feb-18	0.00	2,657.40	2,657.40	741.91	522.41	1,264.32	0.00	1,393.08	1,393.08
01-Aug-18	25,768.74	2,657.40	28,426.14	741.91	1,851.14	2,593.05	25,768.74	64.35	25,833.09
01-Feb-19	0.00	2,013.18	2,013.18	562.05	522.41	1,084.46	0.00	928.72	928.72
01-Aug-19	25,768.74	2,013.18	27,781.92	562.05	1,851.14	2,413.19	25,368.73	0.00	25,368.73
01-Feb-20	0.00	1,368.96	1,368.96	382.20	522.41	904.61	0.00	464.35	464.35
01-Aug-20	25,768.74	1,368.96	27,137.70	382.20	1,851.14	2,233.34	24,904.36	0.00	24,904.36
01-Feb-21	0.00	724.75	724.75	202.34	522.41	724.75	0.00	0.00	0.00
01-Aug-21	28,989.84	724.75	29,714.59	202.34	1,851.14	2,053.48	27,661.11	0.00	27,661.11
01-Feb-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$375,965.96	$201,195.79	$577,161.75	$55,695.47	$42,871.38	$98,566.85	$373,372.84	$105,222.06	$478,594.90

* Note: Interest, Equity Earnings and Contract Assistance Payments reflect partial first period.

SCHEDULE C

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 9
Haverhill
CW-02-11
Final Structuring Analysis

CW-02-11

Schedule of Loan Repayments

Initial Loan Obligation: $631,729.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
Date	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
06-Nov-03									
01-Feb-04	$0.00	$6,885.06	$6,885.06	$2,082.14	$810.92	$2,893.06	$0.00	$3,992.00	$3,992.00
01-Aug-04	23,982.00	14,580.11	38,562.11	4,409.24	2,873.47	7,282.71	23,982.00	7,297.40	31,279.40
01-Feb-05	0.00	14,340.29	14,340.29	4,241.85	810.92	5,052.77	0.00	9,287.52	9,287.52
01-Aug-05	24,147.00	14,340.29	38,487.29	4,241.85	2,873.47	7,115.32	24,147.00	7,224.97	31,371.97
01-Feb-06	0.00	14,098.82	14,098.82	4,073.32	810.92	4,884.24	0.00	9,214.58	9,214.58
01-Aug-06	24,663.00	14,098.82	38,761.82	4,073.32	2,873.47	6,946.79	24,663.00	7,152.03	31,815.03
01-Feb-07	0.00	13,482.25	13,482.25	3,901.18	810.92	4,712.10	0.00	8,770.15	8,770.15
01-Aug-07	25,187.00	13,482.25	38,669.25	3,901.18	2,873.47	6,774.65	25,187.00	6,707.60	31,894.60
01-Feb-08	0.00	13,230.38	13,230.38	3,725.38	810.92	4,536.30	0.00	8,694.08	8,694.08
01-Aug-08	25,378.00	13,230.38	38,608.38	3,725.38	2,873.47	6,598.85	25,378.00	6,631.53	32,009.53
01-Feb-09	0.00	12,938.53	12,938.53	3,548.25	810.92	4,359.17	0.00	8,579.36	8,579.36
01-Aug-09	25,961.00	12,938.53	38,899.53	3,548.25	2,873.47	6,421.72	25,961.00	6,516.81	32,477.81
01-Feb-10	0.00	12,289.51	12,289.51	3,367.05	810.92	4,177.97	0.00	8,111.54	8,111.54
01-Aug-10	26,644.00	12,289.51	38,933.51	3,367.05	2,873.47	6,240.52	26,644.00	6,048.99	32,692.99
01-Feb-11	0.00	11,889.85	11,889.85	3,181.09	810.92	3,992.01	0.00	7,897.84	7,897.84
01-Aug-11	27,422.00	11,889.85	39,311.85	3,181.09	2,873.47	6,054.56	27,422.00	5,835.29	33,257.29
01-Feb-12	0.00	11,135.74	11,135.74	2,989.69	810.92	3,800.61	0.00	7,335.13	7,335.13
01-Aug-12	28,573.00	11,135.74	39,708.74	2,989.69	2,873.47	5,863.16	28,573.00	5,272.58	33,845.58
01-Feb-13	0.00	10,349.98	10,349.98	2,790.26	810.92	3,601.18	0.00	6,748.80	6,748.80
01-Aug-13	29,772.00	10,349.98	40,121.98	2,790.26	2,873.47	5,663.73	29,772.00	4,686.25	34,458.25
01-Feb-14	0.00	9,531.25	9,531.25	2,582.46	810.92	3,393.38	0.00	6,137.87	6,137.87
01-Aug-14	30,000.00	9,531.25	39,531.25	2,582.46	2,873.47	5,455.93	30,000.00	4,075.32	34,075.32
01-Feb-15	0.00	8,706.25	8,706.25	2,373.08	810.92	3,184.00	0.00	5,522.25	5,522.25
01-Aug-15	30,000.00	8,706.25	38,706.25	2,373.08	2,873.47	5,246.55	30,000.00	3,459.70	33,459.70
01-Feb-16	0.00	7,881.25	7,881.25	2,163.69	810.92	2,974.61	0.00	4,906.64	4,906.64
01-Aug-16	35,000.00	7,881.25	42,881.25	2,163.69	2,873.47	5,037.16	35,000.00	2,844.09	37,844.09
01-Feb-17	0.00	6,962.50	6,962.50	1,919.40	810.92	2,730.32	0.00	4,232.18	4,232.18
01-Aug-17	35,000.00	6,962.50	41,962.50	1,919.40	2,873.47	4,792.87	35,000.00	2,169.63	37,169.63
01-Feb-18	0.00	6,043.75	6,043.75	1,675.11	810.92	2,486.03	0.00	3,557.72	3,557.72
01-Aug-18	35,000.00	6,043.75	41,043.75	1,675.11	2,873.47	4,548.58	35,000.00	1,495.17	36,495.17
01-Feb-19	0.00	5,125.00	5,125.00	1,430.83	810.92	2,241.75	0.00	2,883.25	2,883.25
01-Aug-19	40,000.00	5,125.00	45,125.00	1,430.83	2,873.47	4,304.30	40,000.00	820.70	40,820.70
01-Feb-20	0.00	4,125.00	4,125.00	1,151.64	810.92	1,962.56	0.00	2,162.44	2,162.44
01-Aug-20	40,000.00	4,125.00	44,125.00	1,151.64	2,873.47	4,025.11	40,000.00	99.89	40,099.89
01-Feb-21	0.00	3,125.00	3,125.00	872.45	810.92	1,683.37	0.00	1,441.63	1,441.63
01-Aug-21	40,000.00	3,125.00	43,125.00	872.45	2,873.47	3,745.92	39,379.08	0.00	39,379.08
01-Feb-22	0.00	2,125.00	2,125.00	593.27	810.92	1,404.19	0.00	720.81	720.81
01-Aug-22	40,000.00	2,125.00	42,125.00	593.27	2,873.47	3,466.74	38,658.26	0.00	38,658.26
01-Feb-23	0.00	1,125.00	1,125.00	314.08	810.92	1,125.00	0.00	0.00	0.00
01-Aug-23	45,000.00	1,125.00	46,125.00	314.08	2,873.47	3,187.55	42,937.45	0.00	42,937.45
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$631,729.00	$358,475.87	$990,204.87	$100,279.54	$73,687.82	$173,967.36	$627,703.79	$188,533.72	$816,237.51

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 12

Revised SCHEDULE C

Haverhill
CW-02-11A

Final Loan Structuring Analysis
Revised Schedule of Loan Repayments

Outstanding Loan Obligation:	$191,046.63

	Schedule of Loan Repayments			*Admin. Fee*	*Total*
	Principal	Interest	Total	*0.07500%*	*Due*
09-Dec-08					
15-Jan-09	-	1,968.95	1,968.95	147.67	2,116.62
15-Jul-09	11,030.91	1,910.47	12,941.38	143.28	13,084.66
15-Jan-10	-	1,800.16	1,800.16	135.01	1,935.17
15-Jul-10	11,254.35	1,800.16	13,054.51	135.01	13,189.52
15-Jan-11	-	1,687.61	1,687.61	126.57	1,814.18
15-Jul-11	11,481.66	1,687.61	13,169.27	126.57	13,295.84
15-Jan-12	-	1,572.80	1,572.80	117.96	1,690.76
15-Jul-12	11,713.77	1,572.80	13,286.57	117.96	13,404.53
15-Jan-13	-	1,455.66	1,455.66	109.17	1,564.83
15-Jul-13	11,949.74	1,455.66	13,405.40	109.17	13,514.57
15-Jan-14	-	1,336.16	1,336.16	100.21	1,436.37
15-Jul-14	12,191.49	1,336.16	13,527.65	100.21	13,627.86
15-Jan-15	-	1,214.25	1,214.25	91.07	1,305.32
15-Jul-15	12,438.06	1,214.25	13,652.31	91.07	13,743.38
15-Jan-16	-	1,089.87	1,089.87	81.74	1,171.61
15-Jul-16	12,689.44	1,089.87	13,779.31	81.74	13,861.05
15-Jan-17	-	962.97	962.97	72.22	1,035.19
15-Jul-17	12,945.64	962.97	13,908.61	72.22	13,980.83
15-Jan-18	-	833.52	833.52	62.51	896.03
15-Jul-18	13,206.65	833.52	14,040.17	62.51	14,102.68
15-Jan-19	-	701.45	701.45	52.61	754.06
15-Jul-19	13,473.44	701.45	14,174.89	52.61	14,227.50
15-Jan-20	-	566.71	566.71	42.50	609.21
15-Jul-20	13,746.01	566.71	14,312.72	42.50	14,355.22
15-Jan-21	-	429.25	429.25	32.19	461.44
15-Jul-21	14,023.40	429.25	14,452.65	32.19	14,484.84
15-Jan-22	-	289.02	289.02	21.68	310.70
15-Jul-22	14,306.56	289.02	14,595.58	21.68	14,617.26
15-Jan-23	-	145.96	145.96	10.95	156.91
15-Jul-23	14,595.51	145.96	14,741.47	10.95	14,752.42
15-Jan-24	-	-	-	-	-
15-Jul-24	-	-	-	-	-
15-Jan-25	-	-	-	-	-
15-Jul-25	-	-	-	-	-
15-Jan-26	-	-	-	-	-
15-Jul-26	-	-	-	-	-
15-Jan-27	-	-	-	-	-
15-Jul-27	-	-	-	-	-
15-Jan-28	-	-	-	-	-
15-Jul-28	-	-	-	-	-
15-Jan-29	-	-	-	-	-
15-Jul-29	-	-	-	-	-
15-Jan-30	-	-	-	-	-
15-Jul-30	-	-	-	-	-
15-Jan-31	-	-	-	-	-
15-Jul-31	-	-	-	-	-
15-Jan-32	-	-	-	-	-
15-Jul-32	-	-	-	-	-
15-Jan-33	-	-	-	-	-
15-Jul-33	-	-	-	-	-
15-Jan-34	-	-	-	-	-
15-Jul-34	-	-	-	-	-
15-Jan-35	-	-	-	-	-
15-Jul-35	-	-	-	-	-
15-Jan-36	-	-	-	-	-
15-Jul-36	-	-	-	-	-
15-Jan-37	-	-	-	-	-
	$191,046.63	$32,050.20	$223,096.83	$2,403.73	$225,500.56

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 12

SCHEDULE C

Haverhill
CW-02-11A
Final Structuring Analysis

Loan Interest Rate 2.00%

Schedule of Loan Repayments

Remaining Loan Obligation: $220,213.00

Date	Schedule of Loan Repayments: Principal	Interest	Total	Admin. Fee 0.0750%	Loan Origination Fee	Total Due
14-Dec-06						
15-Jul-07	$10,629.00	$2,581.39	$13,210.39	$165.16	1,234.82	$14,610.37
15-Jan-08	0.00	2,095.84	2,095.84	157.19		2,253.03
15-Jul-08	11,227.00	2,095.84	13,322.84	157.19		13,480.03
15-Jan-09	0.00	1,983.57	1,983.57	148.77		2,132.34
15-Jul-09	11,453.00	1,983.57	13,436.57	148.77		13,585.34
15-Jan-10	0.00	1,869.04	1,869.04	140.18		2,009.22
15-Jul-10	11,685.00	1,869.04	13,554.04	140.18		13,694.22
15-Jan-11	0.00	1,752.19	1,752.19	131.41		1,883.60
15-Jul-11	11,921.00	1,752.19	13,673.19	131.41		13,804.60
15-Jan-12	0.00	1,632.98	1,632.98	122.47		1,755.45
15-Jul-12	12,162.00	1,632.98	13,794.98	122.47		13,917.45
15-Jan-13	0.00	1,511.36	1,511.36	113.35		1,624.71
15-Jul-13	12,407.00	1,511.36	13,918.36	113.35		14,031.71
15-Jan-14	0.00	1,387.29	1,387.29	104.05		1,491.34
15-Jul-14	12,658.00	1,387.29	14,045.29	104.05		14,149.34
15-Jan-15	0.00	1,260.71	1,260.71	94.55		1,355.26
15-Jul-15	12,914.00	1,260.71	14,174.71	94.55		14,269.26
15-Jan-16	0.00	1,131.57	1,131.57	84.87		1,216.44
15-Jul-16	13,175.00	1,131.57	14,306.57	84.87		14,391.44
15-Jan-17	0.00	999.82	999.82	74.99		1,074.81
15-Jul-17	13,441.00	999.82	14,440.82	74.99		14,515.81
15-Jan-18	0.00	865.41	865.41	64.91		930.32
15-Jul-18	13,712.00	865.41	14,577.41	64.91		14,642.32
15-Jan-19	0.00	728.29	728.29	54.62		782.91
15-Jul-19	13,989.00	728.29	14,717.29	54.62		14,771.91
15-Jan-20	0.00	588.40	588.40	44.13		632.53
15-Jul-20	14,272.00	588.40	14,860.40	44.13		14,904.53
15-Jan-21	0.00	445.68	445.68	33.43		479.11
15-Jul-21	14,560.00	445.68	15,005.68	33.43		15,039.11
15-Jan-22	0.00	300.08	300.08	22.51		322.59
15-Jul-22	14,854.00	300.08	15,154.08	22.51		15,176.59
15-Jan-23	0.00	151.54	151.54	11.37		162.91
15-Jul-23	15,154.00	151.54	15,305.54	11.37		15,316.91
15-Jan-24	0.00	0.00	0.00	0.00		0.00
15-Jul-24	0.00	0.00	0.00	0.00		0.00
15-Jan-25	0.00	0.00	0.00	0.00		0.00
15-Jul-25	0.00	0.00	0.00	0.00		0.00
15-Jan-26	0.00	0.00	0.00	0.00		0.00
15-Jul-26	0.00	0.00	0.00	0.00		0.00
15-Jan-27	0.00	0.00	0.00	0.00		0.00
15-Jul-27	0.00	0.00	0.00	0.00		0.00
15-Jan-28	0.00	0.00	0.00	0.00		0.00
15-Jul-28	0.00	0.00	0.00	0.00		0.00
15-Jan-29	0.00	0.00	0.00	0.00		0.00
15-Jul-29	0.00	0.00	0.00	0.00		0.00
15-Jan-30	0.00	0.00	0.00	0.00		0.00
15-Jul-30	0.00	0.00	0.00	0.00		0.00
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
	$220,213.00	$39,988.93	$260,201.93	$2,970.76	$1,234.82	$264,407.51

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 8
Haverhill
CW-00-54
Final Loan Structuring Analysis

AMENDED SCHEDULE C

G.E.	50.00%

Schedule of Loan Repayments

Initial Loan Obligation: 428,719.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayment		
Date	Principal	Interest	Total	DSRF Earnings	Contract Assistance	Total	Principal	Interest	Total
01-Feb-05	0.00	9,292.96	9,292.96	4,630.49	0.00	4,630.49	0.00	4,662.47	4,662.47
01-Aug-05	18,625.00	9,985.57	28,610.57	4,630.49	8,477.04	13,107.53	15,503.04	0.00	15,503.04
01-Feb-06	0.00	9,706.19	9,706.19	4,429.32	212.98	4,642.30	0.00	5,063.89	5,063.89
01-Aug-06	18,815.00	9,706.19	28,521.19	4,429.32	8,477.04	12,906.36	15,614.83	0.00	15,614.83
01-Feb-07	0.00	9,423.97	9,423.97	4,226.11	212.98	4,439.09	0.00	4,984.89	4,984.89
01-Aug-07	19,007.00	9,423.97	28,430.97	4,226.11	8,477.04	12,703.15	15,727.82	0.00	15,727.82
01-Feb-08	0.00	9,138.86	9,138.86	4,020.82	212.98	4,233.80	0.00	4,905.07	4,905.07
01-Aug-08	19,300.00	9,210.08	28,510.08	4,020.82	8,512.12	12,532.93	15,977.15	0.00	15,977.15
01-Feb-09	0.00	8,751.79	8,751.79	3,812.36	212.98	4,025.34	0.00	4,726.45	4,726.45
01-Aug-09	19,801.00	8,751.79	28,552.79	3,812.36	8,475.97	12,288.34	16,264.46	0.00	16,264.46
01-Feb-10	0.00	8,256.77	8,256.77	3,598.50	212.98	3,811.48	0.00	4,445.30	4,445.30
01-Aug-10	20,416.00	8,256.77	28,672.77	3,598.50	8,475.97	12,074.47	16,598.30	0.00	16,598.30
01-Feb-11	0.00	7,746.37	7,746.37	3,377.99	212.98	3,590.97	0.00	4,155.41	4,155.41
01-Aug-11	21,051.00	7,746.37	28,797.37	3,377.99	8,475.97	11,853.96	16,943.41	0.00	16,943.41
01-Feb-12	0.00	7,220.09	7,220.09	3,150.62	212.98	3,363.60	0.00	3,856.49	3,856.49
01-Aug-12	21,704.00	7,220.09	28,924.09	3,150.62	8,606.48	11,757.10	17,167.00	0.00	17,167.00
01-Feb-13	0.00	6,938.50	6,938.50	2,916.20	212.98	3,129.18	0.00	3,809.32	3,809.32
01-Aug-13	25,000.00	5,218.39	30,218.39	2,916.20	7,780.50	10,696.70	19,521.68	0.00	19,521.68
01-Feb-14	0.00	6,089.41	6,089.41	2,646.18	212.98	2,859.16	0.00	3,230.24	3,230.24
01-Aug-14	25,000.00	4,523.59	29,523.59	2,646.18	7,761.40	10,407.58	19,116.01	0.00	19,116.01
01-Feb-15	0.00	5,433.49	5,433.49	2,376.17	212.98	2,589.15	0.00	2,844.35	2,844.35
01-Aug-15	25,000.00	3,977.80	28,977.80	2,376.17	7,820.14	10,196.31	18,781.49	0.00	18,781.49
01-Feb-16	0.00	4,815.52	4,815.52	2,106.15	212.98	2,319.13	0.00	2,496.40	2,496.40
01-Aug-16	25,000.00	3,341.39	28,341.39	2,106.15	7,823.04	9,929.19	18,412.20	0.00	18,412.20
01-Feb-17	0.00	4,207.73	4,207.73	1,836.13	212.98	2,049.11	0.00	2,158.62	2,158.62
01-Aug-17	25,000.00	3,182.23	28,182.23	1,836.13	8,059.07	9,895.20	18,287.03	0.00	18,287.03
01-Feb-18	0.00	3,588.95	3,588.95	1,566.11	212.98	1,779.09	0.00	1,809.87	1,809.87
01-Aug-18	25,000.00	3,334.90	28,334.90	1,566.11	8,450.77	10,016.88	18,318.02	0.00	18,318.02
01-Feb-19	0.00	2,969.68	2,969.68	1,296.09	212.98	1,509.07	0.00	1,460.61	1,460.61
01-Aug-19	30,000.00	1,741.89	31,741.89	1,296.09	7,977.36	9,273.45	22,468.44	0.00	22,468.44
01-Feb-20	0.00	2,240.87	2,240.87	972.07	212.98	1,185.05	0.00	1,055.83	1,055.83
01-Aug-20	30,000.00	1,539.61	31,539.61	972.07	8,255.79	9,227.85	22,311.76	0.00	22,311.76
01-Feb-21	0.00	1,500.00	1,500.00	648.05	212.98	861.03	0.00	638.98	638.98
01-Aug-21	30,000.00	1,500.00	31,500.00	648.05	8,610.98	9,259.02	22,240.98	0.00	22,240.98
01-Feb-22	0.00	750.00	750.00	324.02	212.98	537.00	0.00	213.00	213.00
01-Aug-22	30,000.00	750.00	30,750.00	324.02	8,610.98	8,935.00	21,815.00	0.00	21,815.00
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	428,719.00	207,481.85	636,200.85	95,866.72	152,748.33	248,615.05	331,068.62	56,517.17	387,585.79

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 8
Haverhill
CW-00-54
Preliminary Structuring Analysis

Estimated Net Borrower Debt Service

Date	Principal Outstanding	Debt Service [Net of Accrued Interest]	LESS DSRF Earnings @ 4.320300%	LESS Contract Assistance	Estimated Net Debt Service	PLUS Administrative Fee Payable @ 0.075000%	Estimated Total Payment	Estimated Total Payment [Fiscal Year ending] 30-Jun
26-Nov-02								
01-Feb-03	$465,418.00	$3,853.05	$1,815.26	$212.98	$1,824.81	$126.05	$1,950.86	$1,950.86
01-Aug-03	465,418.00	28,931.99	5,026.86	8,610.98	15,294.15	349.06	15,643.21	--
01-Feb-04	447,156.00	10,396.06	4,829.62	212.98	5,353.46	335.37	5,688.83	21,332.04
01-Aug-04	447,156.00	28,833.06	4,829.62	8,610.98	15,392.46	335.37	15,727.83	--
01-Feb-05	428,719.00	10,119.51	4,630.49	212.98	5,276.04	321.54	5,597.58	21,325.41
01-Aug-05	428,719.00	28,744.51	4,630.49	8,610.98	15,503.04	321.54	15,824.58	--
01-Feb-06	410,094.00	9,840.13	4,429.32	212.98	5,197.83	307.57	5,505.40	21,329.98
01-Aug-06	410,094.00	28,655.13	4,429.32	8,610.98	15,614.83	307.57	15,922.40	--
01-Feb-07	391,279.00	9,557.91	4,226.11	212.98	5,118.82	293.46	5,412.28	21,334.68
01-Aug-07	391,279.00	28,564.91	4,226.11	8,610.98	15,727.82	293.46	16,021.28	--
01-Feb-08	372,272.00	9,272.80	4,020.82	212.98	5,039.00	279.20	5,318.20	21,339.48
01-Aug-08	372,272.00	28,572.80	4,020.82	8,610.98	15,941.00	279.20	16,220.20	--
01-Feb-09	352,972.00	8,886.80	3,812.36	212.98	4,861.46	264.73	5,126.19	21,346.39
01-Aug-09	352,972.00	28,687.80	3,812.36	8,610.98	16,264.46	264.73	16,529.19	--
01-Feb-10	333,171.00	8,391.78	3,598.50	212.98	4,580.30	249.88	4,830.18	21,359.37
01-Aug-10	333,171.00	28,807.78	3,598.50	8,610.98	16,598.30	249.88	16,848.18	--
01-Feb-11	312,755.00	7,881.38	3,377.99	212.98	4,290.41	234.57	4,524.98	21,373.16
01-Aug-11	312,755.00	28,932.38	3,377.99	8,610.98	16,943.41	234.57	17,177.98	--
01-Feb-12	291,704.00	7,355.10	3,150.62	212.98	3,991.50	218.78	4,210.28	21,388.26
01-Aug-12	291,704.00	29,059.10	3,150.62	8,610.98	17,297.50	218.78	17,516.28	--
01-Feb-13	270,000.00	6,812.50	2,916.20	212.98	3,683.32	202.50	3,885.82	21,402.10
01-Aug-13	270,000.00	31,812.50	2,916.20	8,610.98	20,285.32	202.50	20,487.82	--
01-Feb-14	245,000.00	6,156.25	2,646.18	212.98	3,297.09	183.75	3,480.84	23,968.66
01-Aug-14	245,000.00	31,156.25	2,646.18	8,610.98	19,899.09	183.75	20,082.84	--
01-Feb-15	220,000.00	5,500.00	2,376.17	212.98	2,910.85	165.00	3,075.85	23,158.69
01-Aug-15	220,000.00	30,500.00	2,376.17	8,610.98	19,512.85	165.00	19,677.85	--
01-Feb-16	195,000.00	4,875.00	2,106.15	212.98	2,555.87	146.25	2,702.12	22,379.97
01-Aug-16	195,000.00	29,875.00	2,106.15	8,610.98	19,157.87	146.25	19,304.12	--
01-Feb-17	170,000.00	4,250.00	1,836.13	212.98	2,200.89	127.50	2,328.39	21,632.51
01-Aug-17	170,000.00	29,250.00	1,836.13	8,610.98	18,802.89	127.50	18,930.39	--
01-Feb-18	145,000.00	3,625.00	1,566.11	212.98	1,845.91	108.75	1,954.66	20,885.05
01-Aug-18	145,000.00	28,625.00	1,566.11	8,610.98	18,447.91	108.75	18,556.66	--
01-Feb-19	120,000.00	3,000.00	1,296.09	212.98	1,490.93	90.00	1,580.93	20,137.59
01-Aug-19	120,000.00	33,000.00	1,296.09	8,610.98	23,092.93	90.00	23,182.93	--
01-Feb-20	90,000.00	2,250.00	972.07	212.98	1,064.95	67.50	1,132.45	24,315.38
01-Aug-20	90,000.00	32,250.00	972.07	8,610.98	22,666.95	67.50	22,734.45	--
01-Feb-21	60,000.00	1,500.00	648.05	212.98	638.97	45.00	683.97	23,418.42
01-Aug-21	60,000.00	31,500.00	648.05	8,610.98	22,240.97	45.00	22,285.97	--
01-Feb-22	30,000.00	750.00	324.02	212.98	213.00	22.50	235.50	22,521.47
01-Aug-22	30,000.00	30,750.00	324.02	8,610.98	21,815.00	22.50	21,837.50	--
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21,837.50
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
		$720,781.48	$112,368.12	$176,479.19	$431,934.17	$7,802.81	$439,736.98	$439,736.98

Average Annual Net Debt Service	$21,946.86

CW-00-54

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 8
Haverhill
CW-00-54
Preliminary Structuring Analysis

Grant Equivalency: 50.00%

Schedule of Loan Repayments

Initial Loan Obligation: $465,418.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
Date	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
26-Nov-02									
01-Feb-03	$0.00	$3,853.05	$3,853.05	$1,815.26	$212.98	$2,028.24	$0.00	$1,824.81	$1,824.81
01-Aug-03	18,262.00	10,669.99	28,931.99	5,026.86	8,610.98	13,637.84	15,294.15	0.00	15,294.15
01-Feb-04	0.00	10,396.06	10,396.06	4,829.62	212.98	5,042.60	0.00	5,353.46	5,353.46
01-Aug-04	18,437.00	10,396.06	28,833.06	4,829.62	8,610.98	13,440.60	15,392.46	0.00	15,392.46
01-Feb-05	0.00	10,119.51	10,119.51	4,630.49	212.98	4,843.47	0.00	5,276.04	5,276.04
01-Aug-05	18,625.00	10,119.51	28,744.51	4,630.49	8,610.98	13,241.47	15,503.04	0.00	15,503.04
01-Feb-06	0.00	9,840.13	9,840.13	4,429.32	212.98	4,642.30	0.00	5,197.83	5,197.83
01-Aug-06	18,815.00	9,840.13	28,655.13	4,429.32	8,610.98	13,040.30	15,614.83	0.00	15,614.83
01-Feb-07	0.00	9,557.91	9,557.91	4,226.11	212.98	4,439.09	0.00	5,118.82	5,118.82
01-Aug-07	19,007.00	9,557.91	28,564.91	4,226.11	8,610.98	12,837.09	15,727.82	0.00	15,727.82
01-Feb-08	0.00	9,272.80	9,272.80	4,020.82	212.98	4,233.80	0.00	5,039.00	5,039.00
01-Aug-08	19,300.00	9,272.80	28,572.80	4,020.82	8,610.98	12,631.80	15,941.00	0.00	15,941.00
01-Feb-09	0.00	8,886.80	8,886.80	3,812.36	212.98	4,025.34	0.00	4,861.46	4,861.46
01-Aug-09	19,801.00	8,886.80	28,687.80	3,812.36	8,610.98	12,423.34	16,264.46	0.00	16,264.46
01-Feb-10	0.00	8,391.78	8,391.78	3,598.50	212.98	3,811.48	0.00	4,580.30	4,580.30
01-Aug-10	20,416.00	8,391.78	28,807.78	3,598.50	8,610.98	12,209.48	16,598.30	0.00	16,598.30
01-Feb-11	0.00	7,881.38	7,881.38	3,377.99	212.98	3,590.97	0.00	4,290.41	4,290.41
01-Aug-11	21,051.00	7,881.38	28,932.38	3,377.99	8,610.98	11,988.97	16,943.41	0.00	16,943.41
01-Feb-12	0.00	7,355.10	7,355.10	3,150.62	212.98	3,363.60	0.00	3,991.50	3,991.50
01-Aug-12	21,704.00	7,355.10	29,059.10	3,150.62	8,610.98	11,761.60	17,297.50	0.00	17,297.50
01-Feb-13	0.00	6,812.50	6,812.50	2,916.20	212.98	3,129.18	0.00	3,683.32	3,683.32
01-Aug-13	25,000.00	6,812.50	31,812.50	2,916.20	8,610.98	11,527.18	20,285.32	0.00	20,285.32
01-Feb-14	0.00	6,156.25	6,156.25	2,646.18	212.98	2,859.16	0.00	3,297.09	3,297.09
01-Aug-14	25,000.00	6,156.25	31,156.25	2,646.18	8,610.98	11,257.16	19,899.09	0.00	19,899.09
01-Feb-15	0.00	5,500.00	5,500.00	2,376.17	212.98	2,589.15	0.00	2,910.85	2,910.85
01-Aug-15	25,000.00	5,500.00	30,500.00	2,376.17	8,610.98	10,987.15	19,512.85	0.00	19,512.85
01-Feb-16	0.00	4,875.00	4,875.00	2,106.15	212.98	2,319.13	0.00	2,555.87	2,555.87
01-Aug-16	25,000.00	4,875.00	29,875.00	2,106.15	8,610.98	10,717.13	19,157.87	0.00	19,157.87
01-Feb-17	0.00	4,250.00	4,250.00	1,836.13	212.98	2,049.11	0.00	2,200.89	2,200.89
01-Aug-17	25,000.00	4,250.00	29,250.00	1,836.13	8,610.98	10,447.11	18,802.89	0.00	18,802.89
01-Feb-18	0.00	3,625.00	3,625.00	1,566.11	212.98	1,779.09	0.00	1,845.91	1,845.91
01-Aug-18	25,000.00	3,625.00	28,625.00	1,566.11	8,610.98	10,177.09	18,447.91	0.00	18,447.91
01-Feb-19	0.00	3,000.00	3,000.00	1,296.09	212.98	1,509.07	0.00	1,490.93	1,490.93
01-Aug-19	30,000.00	3,000.00	33,000.00	1,296.09	8,610.98	9,907.07	23,092.93	0.00	23,092.93
01-Feb-20	0.00	2,250.00	2,250.00	972.07	212.98	1,185.05	0.00	1,064.95	1,064.95
01-Aug-20	30,000.00	2,250.00	32,250.00	972.07	8,610.98	9,583.05	22,666.95	0.00	22,666.95
01-Feb-21	0.00	1,500.00	1,500.00	648.05	212.98	861.03	0.00	638.97	638.97
01-Aug-21	30,000.00	1,500.00	31,500.00	648.05	8,610.98	9,259.03	22,240.97	0.00	22,240.97
01-Feb-22	0.00	750.00	750.00	324.02	212.98	537.00	0.00	213.00	213.00
01-Aug-22	30,000.00	750.00	30,750.00	324.02	8,610.98	8,935.00	21,815.00	0.00	21,815.00
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$465,418.00	$255,363.48	$720,781.48	$112,368.12	$176,479.19	$288,847.31	$366,498.76	$65,435.41	$431,934.17

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 10
Haverhill
CW-00-54A
Final Loan Structuring Analysis

AMENDED SCHEDULE C

Net Borrower Savings due to 2006 Refunding:	5,225.14
G.E.	50.00%

Schedule of Loan Repayments

Initial Loan Obligation:	623,608.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayment		
Date	Principal	Interest	Total	DSRF Earnings	Contract Assistance	Total	Principal	Interest	Total
01-Feb-07	0.00	15,230.23	15,230.23	6,110.42	680.95	6,791.37	0.00	8,438.86	8,438.86
01-Aug-07	26,685.00	15,003.09	41,688.09	6,110.42	12,758.72	18,869.14	22,818.95	0.00	22,818.95
01-Feb-08	0.00	14,335.96	14,335.96	5,848.95	568.94	6,417.89	0.00	7,918.07	7,918.07
01-Aug-08	27,282.00	14,335.96	41,617.96	5,848.95	12,758.72	18,607.67	23,010.29	0.00	23,010.29
01-Feb-09	0.00	13,926.73	13,926.73	5,581.63	568.94	6,150.57	0.00	7,776.16	7,776.16
01-Aug-09	27,896.00	13,926.73	41,822.73	5,581.63	12,758.72	18,340.34	23,482.38	0.00	23,482.38
01-Feb-10	0.00	13,229.33	13,229.33	5,308.29	568.94	5,877.23	0.00	7,352.10	7,352.10
01-Aug-10	28,809.00	13,229.33	42,038.33	5,308.29	12,758.72	18,067.00	23,971.32	0.00	23,971.32
01-Feb-11	0.00	12,509.11	12,509.11	5,026.00	568.94	5,594.94	0.00	6,914.17	6,914.17
01-Aug-11	29,450.00	12,509.11	41,959.11	5,026.00	12,758.72	17,784.72	24,174.39	0.00	24,174.39
01-Feb-12	0.00	12,067.36	12,067.36	4,737.44	568.94	5,306.38	0.00	6,760.98	6,760.98
01-Aug-12	30,112.00	12,067.36	42,179.36	4,737.44	12,758.72	17,496.15	24,683.20	0.00	24,683.20
01-Feb-13	0.00	11,314.56	11,314.56	4,442.39	568.94	5,011.32	0.00	6,303.23	6,303.23
01-Aug-13	31,137.00	11,314.56	42,451.56	4,442.39	12,758.72	17,201.10	25,250.46	0.00	25,250.46
01-Feb-14	0.00	10,497.21	10,497.21	4,137.29	568.94	4,706.23	0.00	5,790.98	5,790.98
01-Aug-14	32,237.00	10,497.21	42,734.21	4,137.29	12,758.72	16,896.01	25,838.20	0.00	25,838.20
01-Feb-15	0.00	9,650.99	9,650.99	3,821.42	568.94	4,390.35	0.00	5,260.63	5,260.63
01-Aug-15	35,000.00	9,650.99	44,650.99	3,821.42	12,758.72	16,580.13	28,070.86	0.00	28,070.86
01-Feb-16	0.00	8,732.24	8,732.24	3,478.47	568.94	4,047.41	0.00	4,684.83	4,684.83
01-Aug-16	35,000.00	8,421.61	43,421.61	3,478.47	12,603.40	16,081.87	27,339.74	0.00	27,339.74
01-Feb-17	0.00	7,838.32	7,838.32	3,135.52	581.35	3,716.87	0.00	4,121.44	4,121.44
01-Aug-17	35,000.00	7,509.63	42,509.63	3,135.52	12,606.79	15,742.31	26,767.32	0.00	26,767.32
01-Feb-18	0.00	6,931.95	6,931.95	2,792.57	587.55	3,380.12	0.00	3,551.83	3,551.83
01-Aug-18	35,000.00	6,619.11	41,619.11	2,792.57	12,620.90	15,413.47	26,205.63	0.00	26,205.63
01-Feb-19	0.00	6,055.77	6,055.77	2,449.63	586.95	3,036.58	0.00	3,019.19	3,019.19
01-Aug-19	40,000.00	5,713.90	45,713.90	2,449.63	12,605.80	15,055.42	30,658.48	0.00	30,658.48
01-Feb-20	0.00	5,059.57	5,059.57	2,057.69	588.86	2,646.54	0.00	2,413.03	2,413.03
01-Aug-20	40,000.00	4,749.76	44,749.76	2,057.69	12,623.72	14,681.41	30,068.35	0.00	30,068.35
01-Feb-21	0.00	4,066.25	4,066.25	1,665.75	592.20	2,257.94	0.00	1,808.31	1,808.31
01-Aug-21	40,000.00	3,782.28	43,782.28	1,665.75	12,639.98	14,305.73	29,476.55	0.00	29,476.55
01-Feb-22	0.00	3,078.09	3,078.09	1,273.81	598.11	1,871.92	0.00	1,206.17	1,206.17
01-Aug-22	40,000.00	2,693.64	42,693.64	1,273.81	12,595.67	13,869.47	28,824.17	0.00	28,824.17
01-Feb-23	0.00	2,156.18	2,156.18	881.87	637.16	1,519.02	0.00	637.15	637.15
01-Aug-23	45,000.00	1,536.80	46,536.80	881.87	12,530.30	13,412.16	33,124.64	0.00	33,124.64
01-Feb-24	0.00	1,098.90	1,098.90	440.93	657.97	1,098.90	0.00	0.00	0.00
01-Aug-24	45,000.00	432.69	45,432.69	440.93	12,527.69	12,968.62	32,464.07	0.00	32,464.07
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$623,608.00	$311,772.45	$935,380.45	$126,380.07	$238,814.24	$365,194.31	$486,228.99	$83,957.14	$570,186.13

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 10

SCHEDULE C

Haverhill
CW-00-54A

Grant Equivalency: 50.00%

nal Structuring Analysis

Schedule of Loan Repayments

Initial Loan Obligation: $675,579.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
Date	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
23-Nov-04									
01-Feb-05	$0.00	$6,024.89	$6,024.89	$2,500.76	$684.07	$3,184.83	$0.00	$2,840.06	$2,840.06
01-Aug-05	25,870.00	15,948.24	41,818.24	6,619.66	12,873.85	19,493.51	22,324.73	0.00	22,324.73
01-Feb-06	0.00	15,624.86	15,624.86	6,366.17	684.07	7,050.24	0.00	8,574.62	8,574.62
01-Aug-06	26,101.00	15,624.86	41,725.86	6,366.17	12,873.85	19,240.02	22,485.84	0.00	22,485.84
01-Feb-07	0.00	15,233.35	15,233.35	6,110.42	684.07	6,794.49	0.00	8,438.86	8,438.86
01-Aug-07	26,685.00	15,233.35	41,918.35	6,110.42	12,873.85	18,984.27	22,934.08	0.00	22,934.08
01-Feb-08	0.00	14,566.22	14,566.22	5,848.95	684.07	6,533.02	0.00	8,033.20	8,033.20
01-Aug-08	27,282.00	14,566.22	41,848.22	5,848.95	12,873.85	18,722.80	23,125.42	0.00	23,125.42
01-Feb-09	0.00	14,156.99	14,156.99	5,581.63	684.07	6,265.70	0.00	7,891.29	7,891.29
01-Aug-09	27,896.00	14,156.99	42,052.99	5,581.63	12,873.85	18,455.48	23,597.51	0.00	23,597.51
01-Feb-10	0.00	13,459.59	13,459.59	5,308.29	684.07	5,992.36	0.00	7,467.23	7,467.23
01-Aug-10	28,809.00	13,459.59	42,268.59	5,308.29	12,873.85	18,182.14	24,086.45	0.00	24,086.45
01-Feb-11	0.00	12,739.37	12,739.37	5,026.00	684.07	5,710.07	0.00	7,029.30	7,029.30
01-Aug-11	29,450.00	12,739.37	42,189.37	5,026.00	12,873.85	17,899.85	24,289.52	0.00	24,289.52
01-Feb-12	0.00	12,297.62	12,297.62	4,737.44	684.07	5,421.51	0.00	6,876.11	6,876.11
01-Aug-12	30,112.00	12,297.62	42,409.62	4,737.44	12,873.85	17,611.29	24,798.33	0.00	24,798.33
01-Feb-13	0.00	11,544.82	11,544.82	4,442.39	684.07	5,126.46	0.00	6,418.36	6,418.36
01-Aug-13	31,137.00	11,544.82	42,681.82	4,442.39	12,873.85	17,316.24	25,365.58	0.00	25,365.58
01-Feb-14	0.00	10,727.47	10,727.47	4,137.29	684.07	4,821.36	0.00	5,906.11	5,906.11
01-Aug-14	32,237.00	10,727.47	42,964.47	4,137.29	12,873.85	17,011.14	25,953.33	0.00	25,953.33
01-Feb-15	0.00	9,881.25	9,881.25	3,821.42	684.07	4,505.49	0.00	5,375.76	5,375.76
01-Aug-15	35,000.00	9,881.25	44,881.25	3,821.42	12,873.85	16,695.27	28,185.98	0.00	28,185.98
01-Feb-16	0.00	8,962.50	8,962.50	3,478.47	684.07	4,162.54	0.00	4,799.96	4,799.96
01-Aug-16	35,000.00	8,962.50	43,962.50	3,478.47	12,873.85	16,352.32	27,610.18	0.00	27,610.18
01-Feb-17	0.00	8,043.75	8,043.75	3,135.52	684.07	3,819.59	0.00	4,224.16	4,224.16
01-Aug-17	35,000.00	8,043.75	43,043.75	3,135.52	12,873.85	16,009.37	27,034.38	0.00	27,034.38
01-Feb-18	0.00	7,125.00	7,125.00	2,792.57	684.07	3,476.64	0.00	3,648.36	3,648.36
01-Aug-18	35,000.00	7,125.00	42,125.00	2,792.57	12,873.85	15,666.42	26,458.58	0.00	26,458.58
01-Feb-19	0.00	6,250.00	6,250.00	2,449.63	684.07	3,133.70	0.00	3,116.30	3,116.30
01-Aug-19	40,000.00	6,250.00	46,250.00	2,449.63	12,873.85	15,323.48	30,926.52	0.00	30,926.52
01-Feb-20	0.00	5,250.00	5,250.00	2,057.69	684.07	2,741.76	0.00	2,508.24	2,508.24
01-Aug-20	40,000.00	5,250.00	45,250.00	2,057.69	12,873.85	14,931.54	30,318.46	0.00	30,318.46
01-Feb-21	0.00	4,250.00	4,250.00	1,665.75	684.07	2,349.82	0.00	1,900.18	1,900.18
01-Aug-21	40,000.00	4,250.00	44,250.00	1,665.75	12,873.85	14,539.60	29,710.40	0.00	29,710.40
01-Feb-22	0.00	3,250.00	3,250.00	1,273.81	684.07	1,957.88	0.00	1,292.12	1,292.12
01-Aug-22	40,000.00	3,250.00	43,250.00	1,273.81	12,873.85	14,147.66	29,102.34	0.00	29,102.34
01-Feb-23	0.00	2,250.00	2,250.00	881.87	684.07	1,565.94	0.00	684.06	684.06
01-Aug-23	45,000.00	2,250.00	47,250.00	881.87	12,873.85	13,755.72	33,494.28	0.00	33,494.28
01-Feb-24	0.00	1,125.00	1,125.00	440.93	684.07	1,125.00	0.00	0.00	0.00
01-Aug-24	45,000.00	1,125.00	46,125.00	440.93	12,873.85	13,314.78	32,810.22	0.00	32,810.22
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$675,579.00	$375,448.71	$1,051,027.71	$148,232.90	$271,158.34	$419,391.24	$534,612.19	$97,024.28	$631,636.47

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 10

iverhill
.V-00-54A

inal Structuring Analysis

Estimated Net Borrower Debt Service

Date	Principal Outstanding	Debt Service [Net of Accrued Interest]	LESS DSRF Earnings @ 3.919400%	LESS Contract Assistance	Estimated Net Debt Service	PLUS Administrative Fee Payable @ 0.075%	Estimated Total Payment	Estimated Total Payment [Fiscal Year ending] 30-Jun
23-Nov-04								
01-Feb-05	$675,579.00	$6,024.89	2,500.76	$684.07	$2,840.06	$191.41	$3,031.47	$3,031.47
01-Aug-05	675,579.00	41,818.24	6,619.66	12,873.85	22,324.73	506.68	22,831.41	--
01-Feb-06	649,709.00	15,624.86	6,366.17	684.07	8,574.62	487.28	9,061.90	31,893.31
01-Aug-06	649,709.00	41,725.86	6,366.17	12,873.85	22,485.84	487.28	22,973.12	--
01-Feb-07	623,608.00	15,233.35	6,110.42	684.07	8,438.86	467.71	8,906.57	31,879.69
01-Aug-07	623,608.00	41,918.35	6,110.42	12,873.85	22,934.08	467.71	23,401.79	--
01-Feb-08	596,923.00	14,566.22	5,848.95	684.07	8,033.20	447.69	8,480.89	31,882.68
01-Aug-08	596,923.00	41,848.22	5,848.95	12,873.85	23,125.42	447.69	23,573.11	--
01-Feb-09	569,641.00	14,156.99	5,581.63	684.07	7,891.29	427.23	8,318.52	31,891.63
01-Aug-09	569,641.00	42,052.99	5,581.63	12,873.85	23,597.51	427.23	24,024.74	--
01-Feb-10	541,745.00	13,459.59	5,308.29	684.07	7,467.23	406.31	7,873.54	31,898.28
01-Aug-10	541,745.00	42,268.59	5,308.29	12,873.85	24,086.45	406.31	24,492.76	--
01-Feb-11	512,936.00	12,739.37	5,026.00	684.07	7,029.30	384.70	7,414.00	31,906.76
01-Aug-11	512,936.00	42,189.37	5,026.00	12,873.85	24,289.52	384.70	24,674.22	--
01-Feb-12	483,486.00	12,297.62	4,737.44	684.07	6,876.11	362.61	7,238.72	31,912.94
01-Aug-12	483,486.00	42,409.62	4,737.44	12,873.85	24,798.33	362.61	25,160.94	--
01-Feb-13	453,374.00	11,544.82	4,442.39	684.07	6,418.36	340.03	6,758.39	31,919.33
01-Aug-13	453,374.00	42,681.82	4,442.39	12,873.85	25,365.58	340.03	25,705.61	--
01-Feb-14	422,237.00	10,727.47	4,137.29	684.07	5,906.11	316.68	6,222.79	31,928.40
01-Aug-14	422,237.00	42,964.47	4,137.29	12,873.85	25,953.33	316.68	26,270.01	--
01-Feb-15	390,000.00	9,881.25	3,821.42	684.07	5,375.76	292.50	5,668.26	31,938.27
01-Aug-15	390,000.00	44,881.25	3,821.42	12,873.85	28,185.98	292.50	28,478.48	--
01-Feb-16	355,000.00	8,962.50	3,478.47	684.07	4,799.96	266.25	5,066.21	33,544.69
01-Aug-16	355,000.00	43,962.50	3,478.47	12,873.85	27,610.18	266.25	27,876.43	--
01-Feb-17	320,000.00	8,043.75	3,135.52	684.07	4,224.16	240.00	4,464.16	32,340.59
01-Aug-17	320,000.00	43,043.75	3,135.52	12,873.85	27,034.38	240.00	27,274.38	--
01-Feb-18	285,000.00	7,125.00	2,792.57	684.07	3,648.36	213.75	3,862.11	31,136.49
01-Aug-18	285,000.00	42,125.00	2,792.57	12,873.85	26,458.58	213.75	26,672.33	--
01-Feb-19	250,000.00	6,250.00	2,449.63	684.07	3,116.30	187.50	3,303.80	29,976.13
01-Aug-19	250,000.00	46,250.00	2,449.63	12,873.85	30,926.52	187.50	31,114.02	--
01-Feb-20	210,000.00	5,250.00	2,057.69	684.07	2,508.24	157.50	2,665.74	33,779.76
01-Aug-20	210,000.00	45,250.00	2,057.69	12,873.85	30,318.46	157.50	30,475.96	--
01-Feb-21	170,000.00	4,250.00	1,665.75	684.07	1,900.18	127.50	2,027.68	32,503.64
01-Aug-21	170,000.00	44,250.00	1,665.75	12,873.85	29,710.40	127.50	29,837.90	--
01-Feb-22	130,000.00	3,250.00	1,273.81	684.07	1,292.12	97.50	1,389.62	31,227.52
01-Aug-22	130,000.00	43,250.00	1,273.81	12,873.85	29,102.34	97.50	29,199.84	--
01-Feb-23	90,000.00	2,250.00	881.87	684.07	684.06	67.50	751.56	29,951.40
01-Aug-23	90,000.00	47,250.00	881.87	12,873.85	33,494.28	67.50	33,561.78	--
01-Feb-24	45,000.00	1,125.00	440.93	684.07	0.00	33.75	33.75	33,595.53
01-Aug-24	45,000.00	46,125.00	440.93	12,873.85	32,810.22	33.75	32,843.97	--
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32,843.97
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
01-Feb-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
		$1,051,027.71	$148,232.90	$271,158.34	$631,636.41	$11,346.07	$642,982.48	$642,982.48

Average Annual Net Debt Service:	$32,080.86

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 12

SCHEDULE C

Haverhill
CW-00-54B
Final Structuring Analysis

Loan Interest Rate 0.00%

Schedule of Loan Repayments

Initial Loan Obligation: $1,500,000.00

Date	Principal	Interest	Total	Admin. Fee 0.0750%	Loan Origination Fee	Total Due
14-Dec-06						
15-Jul-07	$75,000.00	$0.00	$75,000.00	$1,125.00	8,411.08	$84,536.08
15-Jan-08	0.00	0.00	0.00	1,068.75		1,068.75
15-Jul-08	75,000.00	0.00	75,000.00	1,068.75		76,068.75
15-Jan-09	0.00	0.00	0.00	1,012.50		1,012.50
15-Jul-09	75,000.00	0.00	75,000.00	1,012.50		76,012.50
15-Jan-10	0.00	0.00	0.00	956.25		956.25
15-Jul-10	75,000.00	0.00	75,000.00	956.25		75,956.25
15-Jan-11	0.00	0.00	0.00	900.00		900.00
15-Jul-11	75,000.00	0.00	75,000.00	900.00		75,900.00
15-Jan-12	0.00	0.00	0.00	843.75		843.75
15-Jul-12	75,000.00	0.00	75,000.00	843.75		75,843.75
15-Jan-13	0.00	0.00	0.00	787.50		787.50
15-Jul-13	75,000.00	0.00	75,000.00	787.50		75,787.50
15-Jan-14	0.00	0.00	0.00	731.25		731.25
15-Jul-14	75,000.00	0.00	75,000.00	731.25		75,731.25
15-Jan-15	0.00	0.00	0.00	675.00		675.00
15-Jul-15	75,000.00	0.00	75,000.00	675.00		75,675.00
15-Jan-16	0.00	0.00	0.00	618.75		618.75
15-Jul-16	75,000.00	0.00	75,000.00	618.75		75,618.75
15-Jan-17	0.00	0.00	0.00	562.50		562.50
15-Jul-17	75,000.00	0.00	75,000.00	562.50		75,562.50
15-Jan-18	0.00	0.00	0.00	506.25		506.25
15-Jul-18	75,000.00	0.00	75,000.00	506.25		75,506.25
15-Jan-19	0.00	0.00	0.00	450.00		450.00
15-Jul-19	75,000.00	0.00	75,000.00	450.00		75,450.00
15-Jan-20	0.00	0.00	0.00	393.75		393.75
15-Jul-20	75,000.00	0.00	75,000.00	393.75		75,393.75
15-Jan-21	0.00	0.00	0.00	337.50		337.50
15-Jul-21	75,000.00	0.00	75,000.00	337.50		75,337.50
15-Jan-22	0.00	0.00	0.00	281.25		281.25
15-Jul-22	75,000.00	0.00	75,000.00	281.25		75,281.25
15-Jan-23	0.00	0.00	0.00	225.00		225.00
15-Jul-23	75,000.00	0.00	75,000.00	225.00		75,225.00
15-Jan-24	0.00	0.00	0.00	168.75		168.75
15-Jul-24	75,000.00	0.00	75,000.00	168.75		75,168.75
15-Jan-25	0.00	0.00	0.00	112.50		112.50
15-Jul-25	75,000.00	0.00	75,000.00	112.50		75,112.50
15-Jan-26	0.00	0.00	0.00	56.25		56.25
15-Jul-26	75,000.00	0.00	75,000.00	56.25		75,056.25
15-Jan-27	0.00	0.00	0.00	0.00		0.00
15-Jul-27	0.00	0.00	0.00	0.00		0.00
15-Jan-28	0.00	0.00	0.00	0.00		0.00
15-Jul-28	0.00	0.00	0.00	0.00		0.00
15-Jan-29	0.00	0.00	0.00	0.00		0.00
15-Jul-29	0.00	0.00	0.00	0.00		0.00
15-Jan-30	0.00	0.00	0.00	0.00		0.00
15-Jul-30	0.00	0.00	0.00	0.00		0.00
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
	$1,500,000.00	$0.00	$1,500,000.00	$22,500.00	$8,411.08	$1,530,911.08

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 12

Revised SCHEDULE C

Haverhill
CW-00-54C

Final Loan Structuring Analysis
Revised Schedule of Loan Repayments

Outstanding Loan Obligation:	$269,625.58

	Schedule of Loan Repayments			*Admin. Fee*	*Total*
	Principal	Interest	Total	*0.07500%*	*Due*
09-Dec-08					
15-Jan-09	-	-	-	202.44	202.44
15-Jul-09	14,979.18	-	14,979.18	202.22	15,181.40
15-Jan-10	-	-	-	190.98	190.98
15-Jul-10	14,979.20	-	14,979.20	190.98	15,170.18
15-Jan-11	-	-	-	179.75	179.75
15-Jul-11	14,979.20	-	14,979.20	179.75	15,158.95
15-Jan-12	-	-	-	168.52	168.52
15-Jul-12	14,979.20	-	14,979.20	168.52	15,147.72
15-Jan-13	-	-	-	157.28	157.28
15-Jul-13	14,979.20	-	14,979.20	157.28	15,136.48
15-Jan-14	-	-	-	146.05	146.05
15-Jul-14	14,979.20	-	14,979.20	146.05	15,125.25
15-Jan-15	-	-	-	134.81	134.81
15-Jul-15	14,979.20	-	14,979.20	134.81	15,114.01
15-Jan-16	-	-	-	123.58	123.58
15-Jul-16	14,979.20	-	14,979.20	123.58	15,102.78
15-Jan-17	-	-	-	112.34	112.34
15-Jul-17	14,979.20	-	14,979.20	112.34	15,091.54
15-Jan-18	-	-	-	101.11	101.11
15-Jul-18	14,979.20	-	14,979.20	101.11	15,080.31
15-Jan-19	-	-	-	89.88	89.88
15-Jul-19	14,979.20	-	14,979.20	89.88	15,069.08
15-Jan-20	-	-	-	78.64	78.64
15-Jul-20	14,979.20	-	14,979.20	78.64	15,057.84
15-Jan-21	-	-	-	67.41	67.41
15-Jul-21	14,979.20	-	14,979.20	67.41	15,046.61
15-Jan-22	-	-	-	56.17	56.17
15-Jul-22	14,979.20	-	14,979.20	56.17	15,035.37
15-Jan-23	-	-	-	44.94	44.94
15-Jul-23	14,979.20	-	14,979.20	44.94	15,024.14
15-Jan-24	-	-	-	33.70	33.70
15-Jul-24	14,979.20	-	14,979.20	33.70	15,012.90
15-Jan-25	-	-	-	22.47	22.47
15-Jul-25	14,979.20	-	14,979.20	22.47	15,001.67
15-Jan-26	-	-	-	11.23	11.23
15-Jul-26	14,979.20	-	14,979.20	11.23	14,990.43
15-Jan-27	-	-	-	-	-
15-Jul-27	-	-	-	-	-
15-Jan-28	-	-	-	-	-
15-Jul-28	-	-	-	-	-
15-Jan-29	-	-	-	-	-
15-Jul-29	-	-	-	-	-
15-Jan-30	-	-	-	-	-
15-Jul-30	-	-	-	-	-
15-Jan-31	-	-	-	-	-
15-Jul-31	-	-	-	-	-
15-Jan-32	-	-	-	-	-
15-Jul-32	-	-	-	-	-
15-Jan-33	-	-	-	-	-
15-Jul-33	-	-	-	-	-
15-Jan-34	-	-	-	-	-
15-Jul-34	-	-	-	-	-
15-Jan-35	-	-	-	-	-
15-Jul-35	-	-	-	-	-
15-Jan-36	-	-	-	-	-
15-Jul-36	-	-	-	-	-
15-Jan-37	-	-	-	-	-
	$269,625.58	$0.00	$269,625.58	$3,842.38	$273,467.96

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 12

SCHEDULE C

Haverhill
CW-00-54C
Final Structuring Analysis

Loan Interest Rate 0.00%

Schedule of Loan Repayments

Initial Loan Obligation: $300,000.00

Date	Principal	Interest	Total	Admin. Fee 0.0750%	Loan Origination Fee	Total Due
14-Dec-06						
15-Jul-07	$15,000.00	$0.00	$15,000.00	$225.00	1,682.22	$16,907.22
15-Jan-08	0.00	0.00	0.00	213.75		213.75
15-Jul-08	15,000.00	0.00	15,000.00	213.75		15,213.75
15-Jan-09	0.00	0.00	0.00	202.50		202.50
15-Jul-09	15,000.00	0.00	15,000.00	202.50		15,202.50
15-Jan-10	0.00	0.00	0.00	191.25		191.25
15-Jul-10	15,000.00	0.00	15,000.00	191.25		15,191.25
15-Jan-11	0.00	0.00	0.00	180.00		180.00
15-Jul-11	15,000.00	0.00	15,000.00	180.00		15,180.00
15-Jan-12	0.00	0.00	0.00	168.75		168.75
15-Jul-12	15,000.00	0.00	15,000.00	168.75		15,168.75
15-Jan-13	0.00	0.00	0.00	157.50		157.50
15-Jul-13	15,000.00	0.00	15,000.00	157.50		15,157.50
15-Jan-14	0.00	0.00	0.00	146.25		146.25
15-Jul-14	15,000.00	0.00	15,000.00	146.25		15,146.25
15-Jan-15	0.00	0.00	0.00	135.00		135.00
15-Jul-15	15,000.00	0.00	15,000.00	135.00		15,135.00
15-Jan-16	0.00	0.00	0.00	123.75		123.75
15-Jul-16	15,000.00	0.00	15,000.00	123.75		15,123.75
15-Jan-17	0.00	0.00	0.00	112.50		112.50
15-Jul-17	15,000.00	0.00	15,000.00	112.50		15,112.50
15-Jan-18	0.00	0.00	0.00	101.25		101.25
15-Jul-18	15,000.00	0.00	15,000.00	101.25		15,101.25
15-Jan-19	0.00	0.00	0.00	90.00		90.00
15-Jul-19	15,000.00	0.00	15,000.00	90.00		15,090.00
15-Jan-20	0.00	0.00	0.00	78.75		78.75
15-Jul-20	15,000.00	0.00	15,000.00	78.75		15,078.75
15-Jan-21	0.00	0.00	0.00	67.50		67.50
15-Jul-21	15,000.00	0.00	15,000.00	67.50		15,067.50
15-Jan-22	0.00	0.00	0.00	56.25		56.25
15-Jul-22	15,000.00	0.00	15,000.00	56.25		15,056.25
15-Jan-23	0.00	0.00	0.00	45.00		45.00
15-Jul-23	15,000.00	0.00	15,000.00	45.00		15,045.00
15-Jan-24	0.00	0.00	0.00	33.75		33.75
15-Jul-24	15,000.00	0.00	15,000.00	33.75		15,033.75
15-Jan-25	0.00	0.00	0.00	22.50		22.50
15-Jul-25	15,000.00	0.00	15,000.00	22.50		15,022.50
15-Jan-26	0.00	0.00	0.00	11.25		11.25
15-Jul-26	15,000.00	0.00	15,000.00	11.25		15,011.25
15-Jan-27	0.00	0.00	0.00	0.00		0.00
15-Jul-27	0.00	0.00	0.00	0.00		0.00
15-Jan-28	0.00	0.00	0.00	0.00		0.00
15-Jul-28	0.00	0.00	0.00	0.00		0.00
15-Jan-29	0.00	0.00	0.00	0.00		0.00
15-Jul-29	0.00	0.00	0.00	0.00		0.00
15-Jan-30	0.00	0.00	0.00	0.00		0.00
15-Jul-30	0.00	0.00	0.00	0.00		0.00
15-Jan-31	0.00	0.00	0.00	0.00		0.00
15-Jul-31	0.00	0.00	0.00	0.00		0.00
15-Jan-32	0.00	0.00	0.00	0.00		0.00
15-Jul-32	0.00	0.00	0.00	0.00		0.00
15-Jan-33	0.00	0.00	0.00	0.00		0.00
15-Jul-33	0.00	0.00	0.00	0.00		0.00
15-Jan-34	0.00	0.00	0.00	0.00		0.00
15-Jul-34	0.00	0.00	0.00	0.00		0.00
15-Jan-35	0.00	0.00	0.00	0.00		0.00
15-Jul-35	0.00	0.00	0.00	0.00		0.00
15-Jan-36	0.00	0.00	0.00	0.00		0.00
15-Jul-36	0.00	0.00	0.00	0.00		0.00
15-Jan-37	0.00	0.00	0.00	0.00		0.00
15-Jul-37	0.00	0.00	0.00	0.00		0.00
15-Jan-38	0.00	0.00	0.00	0.00		0.00
	$300,000.00	$0.00	$300,000.00	$4,500.00	$1,682.22	$306,182.22

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 6
Haverhill
98-90
Final Loan Structuring Analysis

AMENDED SCHEDULE C

G.E.	50.00%

Schedule of Loan Repayments

Initial Loan Obligation:	416,108.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayment		
Date	Principal	Interest	Total	DSRF Earnings	Contract Assistance	Total	Principal	Interest	Total
01-Feb-05	0.00	9,702.81	9,702.81	5,467.97	0.00	5,467.97	0.00	4,234.84	4,234.84
01-Aug-05	21,342.00	10,506.72	31,848.72	5,467.97	9,506.35	14,974.33	16,874.39	0.00	16,874.39
01-Feb-06	0.00	10,253.18	10,253.18	5,187.52	257.70	5,445.22	0.00	4,807.96	4,807.96
01-Aug-06	21,837.00	10,258.24	32,095.24	5,187.52	9,650.93	14,838.45	17,256.80	0.00	17,256.80
01-Feb-07	0.00	10,035.84	10,035.84	4,900.57	393.28	5,293.85	0.00	4,741.99	4,741.99
01-Aug-07	22,357.00	9,095.44	31,452.44	4,900.57	9,508.77	14,409.33	17,043.10	0.00	17,043.10
01-Feb-08	0.00	9,851.40	9,851.40	4,606.78	393.28	5,000.06	0.00	4,851.34	4,851.34
01-Aug-08	22,889.00	8,656.44	31,545.44	4,606.78	9,719.95	14,326.73	17,218.70	0.00	17,218.70
01-Feb-09	0.00	9,623.54	9,623.54	4,306.00	393.28	4,699.28	0.00	4,924.26	4,924.26
01-Aug-09	23,509.00	7,195.12	30,704.12	4,306.00	9,664.78	13,970.78	16,733.33	0.00	16,733.33
01-Feb-10	0.00	9,785.18	9,785.18	3,997.07	393.28	4,390.35	0.00	5,394.82	5,394.82
01-Aug-10	24,174.00	6,429.29	30,603.29	3,997.07	9,701.71	13,698.79	16,904.50	0.00	16,904.50
01-Feb-11	0.00	9,373.19	9,373.19	3,679.41	393.28	4,072.69	0.00	5,300.50	5,300.50
01-Aug-11	25,000.00	5,684.21	30,684.21	3,679.41	9,633.42	13,312.83	17,371.38	0.00	17,371.38
01-Feb-12	0.00	8,690.87	8,690.87	3,350.89	393.28	3,744.17	0.00	4,946.69	4,946.69
01-Aug-12	25,000.00	4,607.63	29,607.63	3,350.89	9,120.83	12,471.72	17,135.91	0.00	17,135.91
01-Feb-13	0.00	7,461.00	7,461.00	3,022.37	393.28	3,415.65	0.00	4,045.35	4,045.35
01-Aug-13	25,000.00	4,737.48	29,737.48	3,022.37	9,445.92	12,468.29	17,269.19	0.00	17,269.19
01-Feb-14	0.00	6,653.22	6,653.22	2,693.85	393.28	3,087.13	0.00	3,566.09	3,566.09
01-Aug-14	25,000.00	4,316.05	29,316.05	2,693.85	9,460.20	12,154.05	17,162.00	0.00	17,162.00
01-Feb-15	0.00	5,696.95	5,696.95	2,365.34	393.28	2,758.62	0.00	2,938.34	2,938.34
01-Aug-15	30,000.00	3,740.81	33,740.81	2,365.34	9,407.17	11,772.50	21,968.30	0.00	21,968.30
01-Feb-16	0.00	4,619.26	4,619.26	1,971.11	393.28	2,364.39	0.00	2,254.87	2,254.87
01-Aug-16	30,000.00	3,264.59	33,264.59	1,971.11	9,466.70	11,437.81	21,826.78	0.00	21,826.78
01-Feb-17	0.00	3,527.03	3,527.03	1,576.89	393.28	1,970.17	0.00	1,556.86	1,556.86
01-Aug-17	30,000.00	2,723.72	32,723.72	1,576.89	9,485.87	11,062.76	21,660.96	0.00	21,660.96
01-Feb-18	0.00	2,411.86	2,411.86	1,182.67	389.83	1,572.50	0.00	839.36	839.36
01-Aug-18	30,000.00	2,193.77	32,193.77	1,182.67	9,642.77	10,825.44	21,368.33	0.00	21,368.33
01-Feb-19	0.00	1,451.98	1,451.98	788.45	331.77	1,120.22	0.00	331.77	331.77
01-Aug-19	30,000.00	1,575.00	31,575.00	788.45	9,803.09	10,591.54	20,983.46	0.00	20,983.46
01-Feb-20	0.00	691.84	691.84	394.22	297.62	691.84	0.00	0.00	0.00
01-Aug-20	30,000.00	787.50	30,787.50	394.22	9,755.26	10,149.48	20,638.02	0.00	20,638.02
01-Feb-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	416,108.00	195,601.15	611,709.15	98,982.23	158,576.73	257,558.95	299,415.16	54,735.04	354,150.20

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Series 6

Haverhill
98-90

Final Structuring Analysis

Estimated Net Borrower Debt Service

Date	Principal Outstanding	Debt Service [Net of Accrued Interest]	LESS DSRF Earnings @ 5.256300%	LESS Contract Assistance	Estimated Net Debt Service	PLUS Administrative Fee Payable @ 0.075%	Estimated Total Payment	Estimated Total Payment [Fiscal Year ending] 30-Jun
08-Nov-00								
01-Feb-01	$497,038.00	$5,948.55	$3,011.73	$393.28	$2,543.54	$171.89	$2,715.43	$2,715.43
01-Aug-01	497,038.00	32,457.48	6,531.45	9,755.26	16,170.77	372.78	16,543.55	–
01-Feb-02	477,481.00	12,436.00	6,274.46	393.28	5,768.26	358.11	6,126.37	22,669.92
01-Aug-02	477,481.00	32,435.00	6,274.46	9,755.26	16,405.28	358.11	16,763.39	–
01-Feb-03	457,482.00	11,961.03	6,011.66	393.28	5,556.09	343.11	5,899.20	22,662.59
01-Aug-03	457,482.00	32,424.03	6,011.66	9,755.26	16,657.11	343.11	17,000.22	–
01-Feb-04	437,019.00	11,475.03	5,742.76	393.28	5,338.99	327.76	5,666.75	22,666.97
01-Aug-04	437,019.00	32,386.03	5,742.76	9,755.26	16,888.01	327.76	17,215.77	–
01-Feb-05	416,108.00	11,004.53	5,467.97	393.28	5,143.28	312.08	5,455.36	22,671.13
01-Aug-05	416,108.00	32,346.53	5,467.97	9,755.26	17,123.30	312.08	17,435.38	–
01-Feb-06	394,766.00	10,524.34	5,187.52	393.28	4,943.54	296.07	5,239.61	22,674.99
01-Aug-06	394,766.00	32,361.34	5,187.52	9,755.26	17,418.56	296.07	17,714.63	–
01-Feb-07	372,929.00	9,978.41	4,900.57	393.28	4,684.56	279.70	4,964.26	22,678.89
01-Aug-07	372,929.00	32,335.41	4,900.57	9,755.26	17,679.58	279.70	17,959.28	–
01-Feb-08	350,572.00	9,461.41	4,606.78	393.28	4,461.35	262.93	4,724.28	22,683.56
01-Aug-08	350,572.00	32,350.41	4,606.78	9,755.26	17,988.37	262.93	18,251.30	–
01-Feb-09	327,683.00	8,889.18	4,306.00	393.28	4,189.90	245.76	4,435.66	22,686.96
01-Aug-09	327,683.00	32,398.18	4,306.00	9,755.26	18,336.92	245.76	18,582.68	–
01-Feb-10	304,174.00	8,272.07	3,997.07	393.28	3,881.72	228.13	4,109.85	22,692.53
01-Aug-10	304,174.00	32,446.07	3,997.07	9,755.26	18,693.74	228.13	18,921.87	–
01-Feb-11	280,000.00	7,637.50	3,679.41	393.28	3,564.81	210.00	3,774.81	22,696.68
01-Aug-11	280,000.00	32,637.50	3,679.41	9,755.26	19,202.83	210.00	19,412.83	–
01-Feb-12	255,000.00	6,981.25	3,350.89	393.28	3,237.08	191.25	3,428.33	22,841.16
01-Aug-12	255,000.00	31,981.25	3,350.89	9,755.26	18,875.10	191.25	19,066.35	–
01-Feb-13	230,000.00	6,356.25	3,022.37	393.28	2,940.60	172.50	3,113.10	22,179.45
01-Aug-13	230,000.00	31,356.25	3,022.37	9,755.26	18,578.62	172.50	18,751.12	–
01-Feb-14	205,000.00	5,653.13	2,693.85	393.28	2,566.00	153.75	2,719.75	21,470.87
01-Aug-14	205,000.00	30,653.13	2,693.85	9,755.26	18,204.02	153.75	18,357.77	–
01-Feb-15	180,000.00	4,950.00	2,365.34	393.28	2,191.38	135.00	2,326.38	20,684.15
01-Aug-15	180,000.00	34,950.00	2,365.34	9,755.26	22,829.40	135.00	22,964.40	–
01-Feb-16	150,000.00	4,106.25	1,971.11	393.28	1,741.86	112.50	1,854.36	24,818.76
01-Aug-16	150,000.00	34,106.25	1,971.11	9,755.26	22,379.88	112.50	22,492.38	–
01-Feb-17	120,000.00	3,262.50	1,576.89	393.28	1,292.33	90.00	1,382.33	23,874.71
01-Aug-17	120,000.00	33,262.50	1,576.89	9,755.26	21,930.35	90.00	22,020.35	–
01-Feb-18	90,000.00	2,418.75	1,182.67	393.28	842.80	67.50	910.30	22,930.65
01-Aug-18	90,000.00	32,418.75	1,182.67	9,755.26	21,480.82	67.50	21,548.32	–
01-Feb-19	60,000.00	1,575.00	788.45	393.28	393.27	45.00	438.27	21,986.59
01-Aug-19	60,000.00	31,575.00	788.45	9,755.26	21,031.29	45.00	21,076.29	–
01-Feb-20	30,000.00	787.50	394.22	393.28	0.00	22.50	22.50	21,098.79
01-Aug-20	30,000.00	30,787.50	394.22	9,755.26	20,638.02	22.50	20,660.52	–
01-Feb-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20,660.52
01-Aug-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	–
		$791,347.29	$144,583.16	$202,970.80	$443,793.33	$8,251.97	$452,045.30	$452,045.30

Average Annual Net Debt Service:	$22,492.69

Max:	24,818.76
Min:	20,660.52
Span:	4,158.24

Pool 8 Swap Loans: Administrative Fees				
Borrower	Loan Number	Loan Due Date	Loan Gross Prin Bal	Administrative Fees
Haverhill	CW-98-90-A	01-Feb-05	$78,696.06	$61.90
Haverhill	CW-98-90-A	01-Aug-05	74,798.02	$59.02
Haverhill	CW-98-90-A	01-Feb-06	74,798.02	$56.10
Haverhill	CW-98-90-A	01-Aug-06	70,857.37	$56.10
Haverhill	CW-98-90-A	01-Feb-07	70,857.37	$53.14
Haverhill	CW-98-90-A	01-Aug-07	66,873.21	$53.14
Haverhill	CW-98-90-A	01-Feb-08	66,873.21	$50.15
Haverhill	CW-98-90-A	01-Aug-08	62,823.78	$50.15
Haverhill	CW-98-90-A	01-Feb-09	62,823.78	$47.12
Haverhill	CW-98-90-A	01-Aug-09	58,661.94	$47.12
Haverhill	CW-98-90-A	01-Feb-10	58,661.94	$44.00
Haverhill	CW-98-90-A	01-Aug-10	54,361.40	$44.00
Haverhill	CW-98-90-A	01-Feb-11	54,361.40	$40.77
Haverhill	CW-98-90-A	01-Aug-11	49,918.54	$40.77
Haverhill	CW-98-90-A	01-Feb-12	49,918.54	$37.44
Haverhill	CW-98-90-A	01-Aug-12	45,326.10	$37.44
Haverhill	CW-98-90-A	01-Feb-13	45,326.10	$33.99
Haverhill	CW-98-90-A	01-Aug-13	40,793.49	$33.99
Haverhill	CW-98-90-A	01-Feb-14	40,793.49	$30.60
Haverhill	CW-98-90-A	01-Aug-14	36,260.88	$30.60
Haverhill	CW-98-90-A	01-Feb-15	36,260.88	$27.20
Haverhill	CW-98-90-A	01-Aug-15	31,728.27	$27.20
Haverhill	CW-98-90-A	01-Feb-16	31,728.27	$23.80
Haverhill	CW-98-90-A	01-Aug-16	27,195.66	$23.80
Haverhill	CW-98-90-A	01-Feb-17	27,195.66	$20.40
Haverhill	CW-98-90-A	01-Aug-17	22,663.05	$20.40
Haverhill	CW-98-90-A	01-Feb-18	22,663.05	$17.00
Haverhill	CW-98-90-A	01-Aug-18	18,130.44	$17.00
Haverhill	CW-98-90-A	01-Feb-19	18,130.44	$13.60
Haverhill	CW-98-90-A	01-Aug-19	13,597.83	$13.60
Haverhill	CW-98-90-A	01-Feb-20	13,597.83	$10.20
Haverhill	CW-98-90-A	01-Aug-20	9,065.22	$10.20
Haverhill	CW-98-90-A	01-Feb-21	9,065.22	$6.80
Haverhill	CW-98-90-A	01-Aug-21	4,532.61	$6.80
Haverhill	CW-98-90-A	01-Feb-22	4,532.61	$3.40
Haverhill	CW-98-90-A	01-Aug-22	0.00	$3.40
Haverhill	CW-98-90-A	01-Feb-23	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-23	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-24	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-24	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-25	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-25	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-26	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-26	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-27	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-27	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-28	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-28	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-29	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-29	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-30	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-30	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-31	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-31	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-32	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-32	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-33	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-33	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-34	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-34	0.00	$0.00
Haverhill	CW-98-90-A	01-Feb-35	0.00	$0.00
Haverhill	CW-98-90-A	01-Aug-35	0.00	$0.00

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 8
Haverhill
CW-98-90-A
Final Loan Structuring Analysis

AMENDED SCHEDULE C

G.E.	50.00%

Schedule of Loan Repayments

Initial Loan Obligation:	78,696.06

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayment		
Date	Principal	Interest	Total	DSRF Earnings	Contract Assistance	Total	Principal	Interest	Total
01-Feb-05	0.00	1,756.37	1,756.37	891.36	0.00	891.36	0.00	865.01	865.01
01-Aug-05	3,898.04	1,817.12	5,715.16	849.97	1,549.44	2,399.41	3,315.75	0.00	3,315.75
01-Feb-06	0.00	1,758.65	1,758.65	807.87	64.35	872.22	0.00	886.43	886.43
01-Aug-06	3,940.65	1,758.65	5,699.30	807.87	1,549.44	2,357.31	3,341.99	0.00	3,341.99
01-Feb-07	0.00	1,699.54	1,699.54	765.31	64.35	829.66	0.00	869.88	869.88
01-Aug-07	3,984.16	1,699.54	5,683.70	765.31	1,549.44	2,314.75	3,368.95	0.00	3,368.95
01-Feb-08	0.00	1,639.77	1,639.77	722.28	64.35	786.63	0.00	853.14	853.14
01-Aug-08	4,049.43	1,652.07	5,701.50	722.28	1,555.50	2,277.78	3,423.72	0.00	3,423.72
01-Feb-09	0.00	1,558.60	1,558.60	678.54	64.35	742.89	0.00	815.71	815.71
01-Aug-09	4,161.84	1,558.60	5,720.44	678.54	1,549.25	2,227.79	3,492.65	0.00	3,492.65
01-Feb-10	0.00	1,454.55	1,454.55	633.59	64.35	697.94	0.00	756.61	756.61
01-Aug-10	4,300.54	1,454.55	5,755.09	633.59	1,549.25	2,182.84	3,572.25	0.00	3,572.25
01-Feb-11	0.00	1,347.04	1,347.04	587.14	64.35	651.49	0.00	695.55	695.55
01-Aug-11	4,442.86	1,347.04	5,789.90	587.14	1,549.25	2,136.39	3,653.51	0.00	3,653.51
01-Feb-12	0.00	1,235.96	1,235.96	539.15	64.35	603.50	0.00	632.46	632.46
01-Aug-12	4,592.44	1,235.96	5,828.40	539.15	1,571.80	2,110.95	3,717.45	0.00	3,717.45
01-Feb-13	0.00	1,166.25	1,166.25	489.56	64.35	553.91	0.00	612.34	612.34
01-Aug-13	4,532.61	857.84	5,390.45	489.56	1,423.53	1,913.09	3,477.37	0.00	3,477.37
01-Feb-14	0.00	1,014.03	1,014.03	440.60	64.35	504.95	0.00	509.08	509.08
01-Aug-14	4,532.61	731.99	5,264.60	440.60	1,420.17	1,860.77	3,403.83	0.00	3,403.83
01-Feb-15	0.00	895.22	895.22	391.64	64.35	455.99	0.00	439.23	439.23
01-Aug-15	4,532.61	632.92	5,165.53	391.64	1,430.79	1,822.43	3,343.10	0.00	3,343.10
01-Feb-16	0.00	783.23	783.23	342.69	64.35	407.04	0.00	376.19	376.19
01-Aug-16	4,532.61	517.61	5,050.22	342.69	1,431.30	1,773.99	3,276.23	0.00	3,276.23
01-Feb-17	0.00	672.92	672.92	293.73	64.35	358.08	0.00	314.84	314.84
01-Aug-17	4,532.61	488.04	5,020.65	293.73	1,473.77	1,767.50	3,253.15	0.00	3,253.15
01-Feb-18	0.00	560.81	560.81	244.78	64.35	309.13	0.00	251.68	251.68
01-Aug-18	4,532.61	514.47	5,047.08	244.78	1,544.23	1,789.01	3,258.07	0.00	3,258.07
01-Feb-19	0.00	448.68	448.68	195.83	64.35	260.18	0.00	188.50	188.50
01-Aug-19	4,532.61	263.18	4,795.79	195.83	1,476.85	1,672.68	3,123.11	0.00	3,123.11
01-Feb-20	0.00	338.57	338.57	146.87	64.35	211.22	0.00	127.35	127.35
01-Aug-20	4,532.61	232.62	4,765.23	146.87	1,518.91	1,665.78	3,099.44	0.00	3,099.44
01-Feb-21	0.00	226.63	226.63	97.91	64.35	162.26	0.00	64.37	64.37
01-Aug-21	4,532.61	226.63	4,759.24	97.91	1,572.58	1,670.49	3,088.75	0.00	3,088.75
01-Feb-22	0.00	113.32	113.32	48.95	64.35	113.30	0.00	0.02	0.02
01-Aug-22	4,532.61	113.32	4,645.93	48.95	1,572.58	1,621.53	3,024.40	0.00	3,024.40
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	78,696.06	35,772.32	114,468.38	16,594.21	28,382.05	44,976.26	60,233.72	9,258.41	69,492.13

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Pool Program Bonds, Pool 8

CW-98-90-A

Haverhill
CW-98-90-A
Preliminary Structuring Analysis

Grant Equivalency: 50.00%

Schedule of Loan Repayments

Initial Loan Obligation: $95,275.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
Date 26-Nov-02	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
01-Feb-03	$0.00	$778.91	$778.91	$371.60	$70.99	$442.59	$0.00	$336.32	$336.32
01-Aug-03	4,210.00	2,156.98	6,366.98	1,029.04	1,734.74	2,763.78	3,603.20	0.00	3,603.20
01-Feb-04	0.00	2,093.83	2,093.83	983.57	70.99	1,054.56	0.00	1,039.27	1,039.27
01-Aug-04	4,254.00	2,093.83	6,347.83	983.57	1,734.74	2,718.31	3,629.52	0.00	3,629.52
01-Feb-05	0.00	2,030.02	2,030.02	937.62	70.99	1,008.61	0.00	1,021.41	1,021.41
01-Aug-05	4,300.00	2,030.02	6,330.02	937.62	1,734.74	2,672.36	3,657.66	0.00	3,657.66
01-Feb-06	0.00	1,965.52	1,965.52	891.18	70.99	962.17	0.00	1,003.35	1,003.35
01-Aug-06	4,347.00	1,965.52	6,312.52	891.18	1,734.74	2,625.92	3,686.60	0.00	3,686.60
01-Feb-07	0.00	1,900.32	1,900.32	844.23	70.99	915.22	0.00	985.10	985.10
01-Aug-07	4,395.00	1,900.32	6,295.32	844.23	1,734.74	2,578.97	3,716.35	0.00	3,716.35
01-Feb-08	0.00	1,834.39	1,834.39	796.76	70.99	867.75	0.00	966.64	966.64
01-Aug-08	4,467.00	1,834.39	6,301.39	796.76	1,734.74	2,531.50	3,769.89	0.00	3,769.89
01-Feb-09	0.00	1,745.05	1,745.05	748.51	70.99	819.50	0.00	925.55	925.55
01-Aug-09	4,591.00	1,745.05	6,336.05	748.51	1,734.74	2,483.25	3,852.80	0.00	3,852.80
01-Feb-10	0.00	1,630.28	1,630.28	698.93	70.99	769.92	0.00	860.36	860.36
01-Aug-10	4,744.00	1,630.28	6,374.28	698.93	1,734.74	2,433.67	3,940.61	0.00	3,940.61
01-Feb-11	0.00	1,511.68	1,511.68	647.69	70.99	718.68	0.00	793.00	793.00
01-Aug-11	4,901.00	1,511.68	6,412.68	647.69	1,734.74	2,382.43	4,030.25	0.00	4,030.25
01-Feb-12	0.00	1,389.15	1,389.15	594.75	70.99	665.74	0.00	723.41	723.41
01-Aug-12	5,066.00	1,389.15	6,455.15	594.75	1,734.74	2,329.49	4,125.66	0.00	4,125.66
01-Feb-13	0.00	1,262.50	1,262.50	540.04	70.99	611.03	0.00	651.47	651.47
01-Aug-13	5,000.00	1,262.50	6,262.50	540.04	1,734.74	2,274.78	3,987.72	0.00	3,987.72
01-Feb-14	0.00	1,131.25	1,131.25	486.03	70.99	557.02	0.00	574.23	574.23
01-Aug-14	5,000.00	1,131.25	6,131.25	486.03	1,734.74	2,220.77	3,910.48	0.00	3,910.48
01-Feb-15	0.00	1,000.00	1,000.00	432.03	70.99	503.02	0.00	496.98	496.98
01-Aug-15	5,000.00	1,000.00	6,000.00	432.03	1,734.74	2,166.77	3,833.23	0.00	3,833.23
01-Feb-16	0.00	875.00	875.00	378.03	70.99	449.02	0.00	425.98	425.98
01-Aug-16	5,000.00	875.00	5,875.00	378.03	1,734.74	2,112.77	3,762.23	0.00	3,762.23
01-Feb-17	0.00	750.00	750.00	324.02	70.99	395.01	0.00	354.99	354.99
01-Aug-17	5,000.00	750.00	5,750.00	324.02	1,734.74	2,058.76	3,691.24	0.00	3,691.24
01-Feb-18	0.00	625.00	625.00	270.02	70.99	341.01	0.00	283.99	283.99
01-Aug-18	5,000.00	625.00	5,625.00	270.02	1,734.74	2,004.76	3,620.24	0.00	3,620.24
01-Feb-19	0.00	500.00	500.00	216.02	70.99	287.01	0.00	212.99	212.99
01-Aug-19	5,000.00	500.00	5,500.00	216.02	1,734.74	1,950.76	3,549.24	0.00	3,549.24
01-Feb-20	0.00	375.00	375.00	162.01	70.99	233.00	0.00	142.00	142.00
01-Aug-20	5,000.00	375.00	5,375.00	162.01	1,734.74	1,896.75	3,478.25	0.00	3,478.25
01-Feb-21	0.00	250.00	250.00	108.01	70.99	179.00	0.00	71.00	71.00
01-Aug-21	5,000.00	250.00	5,250.00	108.01	1,734.74	1,842.75	3,407.25	0.00	3,407.25
01-Feb-22	0.00	125.00	125.00	54.00	70.99	124.99	0.00	0.01	0.01
01-Aug-22	5,000.00	125.00	5,125.00	54.00	1,734.74	1,788.74	3,336.26	0.00	3,336.26
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$95,275.00	$48,923.87	$144,198.87	$21,627.54	$36,114.61	$57,742.15	$74,588.67	$11,868.05	$86,456.72

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement Revenue Bonds
(Pool Loan Program Bonds)
Series 5

SCHEDULE C

Title V Loan
Iaverhill 97-1075

Preliminary Loan Structuring Analysis

Schedule of Loan Repayments

Outstanding Loan Obligati	$143,100.00

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
01-Aug-01	7,524.00						7,524.00		7,524.00
01-Feb-02	$0.00	$3,469.15	$3,469.15	$1,795.23	$1,673.92	$3,469.15	(0.00)	$0.00	(0.00)
01-Aug-02	7,544.00	3,488.53	11,032.53	1,805.26	1,683.27	3,488.53	7,544.00	0.00	7,544.00
01-Feb-03	0.00	3,333.93	3,333.93	1,704.84	1,629.09	3,333.93	0.00	0.00	0.00
01-Aug-03	7,541.00	3,333.93	10,874.93	1,704.84	1,629.09	3,333.93	7,541.00	0.00	7,541.00
01-Feb-04	0.00	3,173.68	3,173.68	1,604.43	1,569.25	3,173.68	0.00	0.00	0.00
01-Aug-04	7,541.00	3,173.68	10,714.68	1,604.43	1,569.25	3,173.68	7,541.00	0.00	7,541.00
01-Feb-05	0.00	3,008.71	3,008.71	1,504.01	1,504.70	3,008.71	0.00	0.00	0.00
01-Aug-05	7,541.00	3,008.71	10,549.71	1,504.01	1,504.70	3,008.71	7,541.00	0.00	7,541.00
01-Feb-06	0.00	2,839.02	2,839.02	1,403.59	1,435.43	2,839.02	(0.00)	0.00	(0.00)
01-Aug-06	7,541.00	2,839.02	10,380.02	1,403.59	1,435.43	2,839.02	7,541.00	0.00	7,541.00
01-Feb-07	0.00	2,641.06	2,641.06	1,303.17	1,337.89	2,641.06	0.00	0.00	0.00
01-Aug-07	7,541.00	2,641.06	10,182.06	1,303.17	1,337.89	2,641.06	7,541.00	0.00	7,541.00
01-Feb-08	0.00	2,443.10	2,443.10	1,202.76	1,240.34	2,443.10	0.00	0.00	0.00
01-Aug-08	7,541.00	2,443.10	9,984.10	1,202.76	1,240.34	2,443.10	7,541.00	0.00	7,541.00
01-Feb-09	0.00	2,262.11	2,262.11	1,102.34	1,159.77	2,262.11	0.00	0.00	0.00
01-Aug-09	7,541.00	2,262.11	9,803.11	1,102.34	1,159.77	2,262.11	7,541.00	0.00	7,541.00
01-Feb-10	0.00	2,064.14	2,064.14	1,001.92	1,062.22	2,064.14	0.00	0.00	0.00
)1-Aug-10	7,592.00	2,064.14	9,656.14	1,001.92	1,062.22	2,064.14	7,592.00	0.00	7,592.00
01-Feb-11	0.00	1,874.34	1,874.34	900.83	973.51	1,874.34	0.00	0.00	0.00
01-Aug-11	7,592.00	1,874.34	9,466.34	900.83	973.51	1,874.34	7,592.00	0.00	7,592.00
01-Feb-12	0.00	1,670.30	1,670.30	799.73	870.57	1,670.30	0.00	0.00	0.00
01-Aug-12	7,592.00	1,670.30	9,262.30	799.73	870.57	1,670.30	7,592.00	0.00	7,592.00
01-Feb-13	0.00	1,461.51	1,461.51	698.64	762.87	1,461.51	0.00	0.00	0.00
01-Aug-13	7,592.00	1,461.51	9,053.51	698.64	762.87	1,461.51	7,592.00	0.00	7,592.00
01-Feb-14	0.00	1,252.72	1,252.72	597.54	655.18	1,252.72	0.00	0.00	0.00
01-Aug-14	7,592.00	1,252.72	8,844.72	597.54	655.18	1,252.72	7,592.00	0.00	7,592.00
01-Feb-15	0.00	1,043.94	1,043.94	496.45	547.49	1,043.94	0.00	0.00	0.00
01-Aug-15	7,457.00	1,043.94	8,500.94	496.45	547.49	1,043.94	7,457.00	0.00	7,457.00
01-Feb-16	0.00	848.20	848.20	397.16	451.04	848.20	0.00	0.00	0.00
01-Aug-16	7,457.00	848.20	8,305.20	397.16	451.04	848.20	7,457.00	0.00	7,457.00
01-Feb-17	0.00	633.82	633.82	297.87	335.95	633.82	0.00	0.00	0.00
01-Aug-17	7,457.00	633.82	8,090.82	297.87	335.95	633.82	7,457.00	0.00	7,457.00
01-Feb-18	0.00	419.44	419.44	198.58	220.86	419.44	(0.00)	0.00	(0.00)
01-Aug-18	7,457.00	419.44	7,876.44	198.58	220.86	419.44	7,457.00	0.00	7,457.00
01-Feb-19	0.00	205.06	205.06	99.29	105.77	205.06	0.00	0.00	0.00
01-Aug-19	7,457.00	205.06	7,662.06	99.29	105.77	205.06	7,457.00	0.00	7,457.00
01-Feb-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$143,100.00	$69,307.81	$204,883.81	$34,226.77	$35,081.04	$69,307.81	$143,100.00	$0.00	$143,100.00

ote: Interest, Equity Earnings and Contract Assistance Payments reflect partial first period.

Massachusetts Water Pollution Abatement Trust
Water Pollution Abatement and Drinking Water Revenue Bonds
(Pool Program Bonds)
Series 3

Revised Schedule C

Haverhill	96-41

Schedule of Loan Repayments

Initial Loan Obligation:	$121,427.95

	Scheduled Loan Repayments			Loan Subsidy Amounts			Net Loan Repayments		
Date	Principal	Interest	Total	Equity Earnings	Contract Assistance Payments	Total	Principal	Interest	Total
01-Aug-01									
01-Feb-02	6,154.09	3,291.20	9,445.29	1,640.67	5,886.58	7,527.25	1,918.04	0.00	1,918.04
01-Aug-02	0.00	3,126.04	3,126.04	1,557.52	136.69	1,694.21	0.00	1,431.84	1,431.84
01-Feb-03	6,288.98	3,144.01	9,432.99	1,557.52	5,886.58	7,444.10	1,988.89	0.00	1,988.89
01-Aug-03	0.00	2,990.10	2,990.10	1,472.55	136.69	1,609.24	0.00	1,380.87	1,380.87
01-Feb-04	6,430.71	2,979.05	9,409.76	1,472.55	5,886.58	7,359.12	2,050.64	0.00	2,050.64
01-Aug-04	0.00	2,835.21	2,835.21	1,385.66	274.29	1,659.95	0.00	1,312.87	1,312.87
01-Feb-05	6,587.72	2,811.75	9,399.48	1,385.66	5,748.97	7,134.63	2,127.24	0.00	2,127.24
01-Aug-05	0.00	2,670.52	2,670.52	1,296.65	461.54	1,758.19	0.00	1,237.19	1,237.19
01-Feb-06	6,748.95	2,647.88	9,396.83	1,296.65	5,561.72	6,858.37	2,213.61	0.00	2,213.61
01-Aug-06	0.00	2,468.05	2,468.05	1,205.46	713.83	1,919.29	0.00	1,125.91	1,125.91
01-Feb-07	6,981.84	2,444.57	9,426.41	1,205.46	5,309.44	6,514.90	2,334.37	0.00	2,334.37
01-Aug-07	0.00	2,258.60	2,258.60	1,111.13	978.02	2,089.15	0.00	1,010.79	1,010.79
01-Feb-08	7,222.63	2,234.28	9,456.91	1,111.13	5,045.24	6,156.36	2,459.20	0.00	2,459.20
01-Aug-08	0.00	2,069.00	2,069.00	1,013.54	1,168.40	2,181.94	0.00	918.78	918.78
01-Feb-09	7,417.58	2,046.84	9,464.42	1,013.54	4,854.86	5,868.40	2,564.30	0.00	2,564.30
01-Aug-09	0.00	1,872.44	1,872.44	913.32	1,366.19	2,279.50	0.00	822.43	822.43
01-Feb-10	7,620.96	1,849.01	9,469.97	913.32	4,657.08	5,570.39	2,670.08	0.00	2,670.08
01-Aug-10	0.00	1,666.67	1,666.67	810.35	1,231.55	2,041.90	0.00	719.64	719.64
01-Feb-11	7,838.04	1,640.08	9,478.12	810.35	4,791.71	5,602.06	2,781.20	0.00	2,781.20
01-Aug-11	0.00	1,455.04	1,455.04	704.44	1,102.28	1,806.72	0.00	613.91	613.91
01-Feb-12	8,061.44	1,430.24	9,491.68	704.44	4,920.98	5,625.43	2,900.66	0.00	2,900.66
01-Aug-12	0.00	1,233.35	1,233.35	595.52	1,025.07	1,620.59	0.00	501.15	501.15
01-Feb-13	8,299.07	1,208.05	9,507.12	595.52	4,998.19	5,593.71	3,025.03	0.00	3,025.03
01-Aug-13	0.00	1,005.13	1,005.13	483.39	867.83	1,351.22	0.00	385.06	385.06
01-Feb-14	8,543.55	977.78	9,521.32	483.39	5,155.43	5,638.82	3,151.36	0.00	3,151.36
01-Aug-14	0.00	765.91	765.91	367.95	705.84	1,073.79	0.00	261.27	261.27
01-Feb-15	8,804.36	738.96	9,543.32	367.95	5,317.42	5,685.37	3,288.79	0.00	3,288.79
01-Aug-15	0.00	518.29	518.29	248.99	531.68	780.67	0.00	132.61	132.61
01-Feb-16	9,074.65	489.93	9,564.58	248.99	5,491.58	5,740.57	3,429.02	0.00	3,429.02
01-Aug-16	0.00	263.07	263.07	126.38	342.24	468.62	0.00	0.00	0.00
01-Feb-17	9,353.38	234.20	9,587.58	126.38	5,681.02	5,807.40	3,574.63	0.00	3,574.63
	121,427.95	57,365.28	178,793.23	28,226.35	96,235.50	124,461.85	42,477.07	11,854.31	54,331.38

Massachusetts Water Pollution Abatement Trust
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Series 3

verhill	HAVERHILL
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inal Loan Structuring Analysis

Schedule of Administrative Fee [After April 29, 1999 Swap]

Date	Principal Outstanding	Administrative Fee Payable @ 0.075%
29-Apr-1999		
01-Aug-1999	133,373.63	143.95
01-Feb-2000	133,373.63	100.03
01-Aug-2000	127,458.22	95.59
01-Feb-2001	127,458.22	95.59
01-Aug-2001	121,427.95	91.07
01-Feb-2002	121,427.95	91.07
01-Aug-2002	115,273.85	86.46
01-Feb-2003	115,273.85	86.46
01-Aug-2003	108,984.88	81.74
01-Feb-2004	108,984.88	81.74
01-Aug-2004	102,554.16	76.92
01-Feb-2005	102,554.16	76.92
01-Aug-2005	95,966.44	71.97
01-Feb-2006	95,966.44	71.97
01-Aug-2006	89,217.49	66.91
01-Feb-2007	89,217.49	66.91
01-Aug-2007	82,235.65	61.68
01-Feb-2008	82,235.65	61.68
01-Aug-2008	75,013.02	56.26
01-Feb-2009	75,013.02	56.26
01-Aug-2009	67,595.44	50.70
01-Feb-2010	67,595.44	50.70
01-Aug-2010	59,974.48	44.98
01-Feb-2011	59,974.48	44.98
01-Aug-2011	52,136.44	39.10
01-Feb-2012	52,136.44	39.10
01-Aug-2012	44,075.00	33.06
01-Feb-2013	44,075.00	33.06
01-Aug-2013	35,775.93	26.83
01-Feb-2014	35,775.93	26.83
01-Aug-2014	27,232.39	20.42
01-Feb-2015	27,232.39	20.42
01-Aug-2015	18,428.03	13.82
01-Feb-2016	18,428.03	13.82
01-Aug-2016	9,353.38	7.02
01-Feb-2017	9,353.38	7.02
01-Aug-2017	0.00	0.00
01-Feb-2018	0.00	0.00
01-Aug-2018	0.00	0.00
01-Feb-2019	0.00	0.00
1-Aug-2019	0.00	0.00
01-Feb-2020	0.00	0.00
01-Aug-2020	0.00	0.00
		$2,093.04

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SCHEDULE C

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itial Loan Obligation: $275,000.00

Date	Scheduled Loan Repayments Principal	Interest	Total	Loan Subsidy Amounts Equity Earnings	Contract Assistance Payments	Total	Net Loan Repayments Principal	Interest	Total
29-Apr-97									
01-Aug-97	$0.00	$3,703.94	$3,703.94	$1,899.12	$172.95	$2,072.07	$0.00	$1,631.87	$1,631.87
01-Feb-98	10,833.00	7,246.83	18,079.83	3,715.66	11,172.27	14,887.93	3,191.90	0.00	3,191.90
01-Aug-98	0.00	7,003.08	7,003.08	3,569.29	259.42	3,828.71	0.00	3,174.37	3,174.37
01-Feb-99	11,034.00	7,003.08	18,037.08	3,569.29	11,172.27	14,741.56	3,295.52	0.00	3,295.52
01-Aug-99	0.00	6,765.85	6,765.85	3,420.21	259.42	3,679.63	0.00	3,086.22	3,086.22
01-Feb-2000	11,227.00	6,765.85	17,992.85	3,420.21	11,172.27	14,592.48	3,400.37	0.00	3,400.37
01-Aug-2000	0.00	6,513.24	6,513.24	3,268.51	259.42	3,527.93	0.00	2,985.31	2,985.31
01-Feb-2001	11,445.00	6,513.24	17,958.24	3,268.51	11,172.27	14,440.78	3,517.46	0.00	3,517.46
01-Aug-2001	0.00	6,250.01	6,250.01	3,113.87	259.42	3,373.29	0.00	2,876.72	2,876.72
01-Feb-2002	11,680.00	6,250.01	17,930.01	3,113.87	11,172.27	14,286.14	3,643.87	0.00	3,643.87
01-Aug-2002	0.00	5,972.61	5,972.61	2,956.06	259.42	3,215.48	0.00	2,757.13	2,757.13
01-Feb-2003	11,936.00	5,972.61	17,908.61	2,956.06	11,172.27	14,128.33	3,780.28	0.00	3,780.28
01-Aug-2003	0.00	5,686.15	5,686.15	2,794.79	259.42	3,054.21	0.00	2,631.94	2,631.94
01-Feb-2004	12,205.00	5,686.15	17,891.15	2,794.79	11,172.27	13,967.06	3,924.09	0.00	3,924.09
01-Aug-2004	0.00	5,381.02	5,381.02	2,629.88	259.42	2,889.30	0.00	2,491.72	2,491.72
01-Feb-2005	12,503.00	5,381.02	17,884.02	2,629.88	11,172.27	13,802.15	4,081.87	0.00	4,081.87
01-Aug-2005	0.00	5,068.45	5,068.45	2,460.94	259.42	2,720.36	0.00	2,348.09	2,348.09
01-Feb-2006	12,809.00	5,068.45	17,877.45	2,460.94	11,172.27	13,633.21	4,244.24	0.00	4,244.24
01-Aug-2006	0.00	4,684.18	4,684.18	2,287.88	259.42	2,547.30	0.00	2,136.88	2,136.88
01-Feb-2007	13,251.00	4,684.18	17,935.18	2,287.88	11,172.27	13,460.15	4,475.03	0.00	4,475.03
01-Aug-2007	0.00	4,286.65	4,286.65	2,108.83	259.42	2,368.25	0.00	1,918.40	1,918.40
01-Feb-2008	13,708.00	4,286.65	17,994.65	2,108.83	11,172.27	13,281.10	4,713.55	0.00	4,713.55
01-Aug-2008	0.00	3,926.81	3,926.81	1,923.62	259.42	2,183.04	0.00	1,743.77	1,743.77
01-Feb-2009	14,078.00	3,926.81	18,004.81	1,923.62	11,172.27	13,095.89	4,908.92	0.00	4,908.92
01-Aug-2009	0.00	3,553.74	3,553.74	1,733.40	259.42	1,992.82	0.00	1,560.92	1,560.92
01-Feb-2010	14,464.00	3,553.74	18,017.74	1,733.40	11,172.27	12,905.67	5,112.07	0.00	5,112.07
01-Aug-2010	0.00	3,163.22	3,163.22	1,537.97	259.42	1,797.39	0.00	1,365.83	1,365.83
01-Feb-2011	14,876.00	3,163.22	18,039.22	1,537.97	11,172.27	12,710.24	5,328.98	0.00	5,328.98
01-Aug-2011	0.00	2,761.56	2,761.56	1,336.98	259.42	1,596.40	0.00	1,165.16	1,165.16
01-Feb-2012	15,300.00	2,761.56	18,061.56	1,336.98	11,172.27	12,509.25	5,552.31	0.00	5,552.31
01-Aug-2012	0.00	2,340.81	2,340.81	1,130.25	259.42	1,389.67	0.00	951.14	951.14
01-Feb-2013	15,751.00	2,340.81	18,091.81	1,130.25	11,172.27	12,302.52	5,789.29	0.00	5,789.29
01-Aug-2013	0.00	1,907.66	1,907.66	917.43	259.42	1,176.85	0.00	730.81	730.81
01-Feb-2014	16,215.00	1,907.66	18,122.66	917.43	11,172.27	12,089.70	6,032.96	0.00	6,032.96
01-Aug-2014	0.00	1,453.64	1,453.64	698.34	259.42	957.76	0.00	495.88	495.88
01-Feb-2015	16,710.00	1,453.64	18,163.64	698.34	11,172.27	11,870.61	6,293.03	0.00	6,293.03
01-Aug-2015	0.00	983.67	983.67	472.56	259.42	731.98	0.00	251.69	251.69
01-Feb-2016	17,223.00	983.67	18,206.67	472.56	11,172.27	11,644.83	6,561.84	0.00	6,561.84
01-Aug-2016	0.00	499.28	499.28	239.86	259.42	499.28	0.00	0.00	0.00
01-Feb-2017	17,752.00	499.28	18,251.28	239.86	11,172.27	11,412.13	6,839.15	0.00	6,839.15
01-Aug-2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-2018	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Feb-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01-Aug-2020	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	$275,000.00	$167,354.03	$442,354.03	$82,816.12	$228,547.37	$311,363.49	$94,686.73	$36,303.85	$130,990.58