

Water System - 2012 - 2021 Capital Forecast Summary



Appendix I

*Upgrades at the Lowlift
Pumping Station*

CITY OF HAMILTON
2012-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY
(000'S)

							Financing Source		
Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Contribution From Operating	External Borrowings (Debentures)	
			Residential	Non Residential					
2012 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	14,800	-	14,800	-	-	2,030	12,770	12,770	-
Projects Coordinated with Roads Program	10,690	-	10,690	-	-	500	10,190	10,190	-
S.E.R.G. Projects	1,090	-	1,090	-	-	-	1,090	1,090	-
Treatment Plant/Outstations Projects	16,780	-	16,780	-	-	10,580	6,200	6,200	-
Treatment Plant/Outstations Projects-WQI	4,550	-	4,550	-	-	-	4,550	4,080	470
Sub-Total	47,910	-	47,910	-	-	13,110	34,800	34,330	470
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	10,580	-	10,580	-	-	5,580	5,000	-	5,000
Sub-Total	10,580	-	10,580	-	-	5,580	5,000	-	5,000
Master Plan									
Horizontal Assets	3,800	-	3,800	2,205	1,295	-	300	300	-
Vertical Assets	6,130	-	6,130	2,879	2,721	-	530	530	-
Sub-Total	9,930	-	9,930	5,084	4,016	-	830	830	-
Development Program									
Development\Extension Projects	1,610	100	1,510	520	300	50	640	640	-
Sub-Total	1,610	100	1,510	520	300	50	640	640	-
Total	70,030	100	69,930	5,604	4,316	18,740	41,270	35,800	5,470
2013 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	12,440	-	12,440	-	-	-	12,440	12,440	-
Projects Coordinated with Roads Program	9,880	-	9,880	-	-	-	9,880	9,880	-
S.E.R.G. Projects	100	-	100	-	-	-	100	100	-
Treatment Plant/Outstations Projects	7,180	-	7,180	-	-	-	7,180	7,180	-
Treatment Plant/Outstations Projects-WQI	30	-	30	-	-	-	30	30	-
Sub-Total	29,630	-	29,630	-	-	-	29,630	29,630	-
Master Plan									
Horizontal Assets	16,890	-	16,890	10,445	5,945	-	500	500	-
Vertical Assets	17,520	-	17,520	8,860	7,830	-	830	830	-
Sub-Total	34,410	-	34,410	19,305	13,775	-	1,330	1,330	-
Development Program									
Development\Extension Projects	8,070	-	8,070	3,801	2,699	600	970	970	-
Sub-Total	8,070	-	8,070	3,801	2,699	600	970	970	-
Total	72,110	-	72,110	23,106	16,474	600	31,930	31,930	-

CITY OF HAMILTON
2012-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY
(000'S)

		Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
					Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
2014	Sustainable Asset Management Strategy (SAM)									
	Rehabilitation, Replacement & Upgrade Projects	8,570		8,570				8,570		
	Projects Coordinated with Roads Program	12,340		12,340				12,340	3,260	
	S.E.R.G. Projects	2,030		2,030				2,030		
	Treatment Plant/Outstations Projects	10,800		10,800	2,500		5,000	3,300		
	Treatment Plant/Outstations Projects-WQI	110		110				110		
	Sub-Total	33,850	-	33,850	2,500	-	5,000	26,350	23,090	3,260
	Master Plan									
	Horizontal Assets	10,620		10,620	6,495	3,825		300	300	
	Vertical Assets	7,200		7,200	2,834	1,666		2,700	2,700	
	Sub-Total	17,820	-	17,820	9,329	5,491	-	3,000	3,000	-
	Development Program									
	Development\Extension Projects	1,440	-	1,440	200	120		1,120	1,120	
	Sub-Total	1,440	-	1,440	200	120	-	1,120	1,120	-
	Total	53,110	-	53,110	12,029	5,611	5,000	30,470	27,210	3,260
2015	Sustainable Asset Management Strategy (SAM)									
	Rehabilitation, Replacement & Upgrade Projects	8,230		8,230				8,230	8,230	
	Projects Coordinated with Roads Program	8,820		8,820				8,820	8,820	
	S.E.R.G. Projects	-		-			-	-	-	
	Treatment Plant/Outstations Projects	22,850		22,850	7,500		-	15,350	15,350	
	Treatment Plant/Outstations Projects-WQI	70		70				70	70	
	Sub-Total	39,970	-	39,970	7,500	-	-	32,470	32,470	-
	Master Plan									
	Horizontal Assets	7,300		7,300	4,420	2,580		300	300	
	Vertical Assets	-		-	-	-		-	-	
	Sub-Total	7,300	-	7,300	4,420	2,580	-	300	300	-
	Development Program									
	Development\Extension Projects	2,100	-	2,100	452	268		1,380	1,380	
	Sub-Total	2,100	-	2,100	452	268	-	1,380	1,380	-
	Total	49,370	-	49,370	12,372	2,848	-	34,150	34,150	-

CITY OF HAMILTON
2012-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY
(000'S)

	Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
				Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
2016 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	8,530		8,530				8,530	8,530	
Projects Coordinated with Roads Program	5,050		5,050				5,050	5,050	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	7,600		7,600	2,500			5,100	5,100	
Treatment Plant/Outstations Projects-WQI	1,280		1,280				1,280	1,280	
Sub-Total	22,460	-	22,460	2,500	-	-	19,960	19,960	-
Master Plan									
Horizontal Assets	6,200		6,200	3,715	2,185		300	300	
Vertical Assets	-		-	-	-		-	-	
Sub-Total	6,200	-	6,200	3,715	2,185	-	300	300	-
Development Program									
Development\Extension Projects	-	-	-	-	-		-	-	-
Sub-Total	-	-	-	-	-	-	-	-	-
Total	28,660	-	28,660	6,215	2,185	-	20,260	20,260	-
2017 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	13,180		13,180				13,180	13,180	
Projects Coordinated with Roads Program	5,640		5,640				5,640	5,640	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	2,850		2,850				2,850	2,850	
Treatment Plant/Outstations Projects-WQI	1,080		1,080				1,080	1,080	
Sub-Total	22,750	-	22,750	-	-	-	22,750	22,750	-
Master Plan									
Horizontal Assets	13,020		13,020	8,020	4,700		300	300	
Vertical Assets	-		-	-	-		-	-	
Sub-Total	13,020	-	13,020	8,020	4,700	-	300	300	-
Development Program									
Development\Extension Projects	400	-	400	126	74		200	200	
Sub-Total	400	-	400	126	74	-	200	200	-
Total	36,170	-	36,170	8,146	4,774	-	23,250	23,250	-

CITY OF HAMILTON
2012-2022 WATER SYSTEM CAPITAL BUDGET SUMMARY
(000'S)

	Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
				Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
2018 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	6,230		6,230				6,230	6,230	
Projects Coordinated with Roads Program	3,480		3,480				3,480	3,480	
S.E.R.G. Projects	350		350			-	350	350	
Treatment Plant/Outstations Projects	2,600		2,600				2,600	2,600	
Treatment Plant/Outstations Projects-WQI	1,070		1,070				1,070	1,070	
Sub-Total	13,730	-	13,730	-	-	-	13,730	13,730	-
Master Plan									
Horizontal Assets	540		540	152	88		300	300	
Vertical Assets	680		680	380	230		70	70	
Sub-Total	1,220	-	1,220	532	318	-	370	370	-
Development Program									
Development\Extension Projects	370	-	370	220	130		20	20	
Sub-Total	370	-	370	220	130	-	20	20	-
Total	15,320	-	15,320	752	448	-	14,120	14,120	-
2019 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	6,480		6,480				6,480	6,480	
Projects Coordinated with Roads Program	4,650		4,650				4,650	4,650	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	2,850		2,850				2,850	2,850	
Treatment Plant/Outstations Projects-WQI	1,280		1,280				1,280	1,280	
Sub-Total	15,260	-	15,260	-	-	-	15,260	15,260	-
Master Plan									
Horizontal Assets	1,720		1,720	895	525		300	300	
Vertical Assets	6,120		6,120	3,480	2,030		610	610	
Sub-Total	7,840	-	7,840	4,375	2,555	-	910	910	-
Development Program									
Development\Extension Projects	1,150	-	1,150	351	299		500	500	
Sub-Total	1,150	-	1,150	351	299	-	500	500	-
Total	24,250	-	24,250	4,726	2,854	-	16,670	16,670	-

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	Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
				Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
2020 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	6,230		6,230				6,230	6,230	
Projects Coordinated with Roads Program	4,500		4,500				4,500	4,500	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	2,600		2,600				2,600	2,600	
Treatment Plant/Outstations Projects-WQI	1,090		1,090				1,090	1,090	
Sub-Total	14,420	-	14,420	-	-	-	14,420	14,420	-
Master Plan									
Horizontal Assets	300		300	-	-		300	300	
Vertical Assets	-		-	-	-		-	-	
Sub-Total	300	-	300	-	-	-	300	300	-
Development Program									
Development\Extension Projects	-	-	-	-	-		-	-	
Sub-Total	-	-	-	-	-	-	-	-	-
Total	14,720	-	14,720	-	-	-	14,720	14,720	-
2021 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	6,480		6,480				6,480	6,480	
Projects Coordinated with Roads Program	3,850		3,850				3,850	3,850	
S.E.R.G. Projects	-		-			-	-	-	
Treatment Plant/Outstations Projects	2,850		2,850				2,850	2,850	
Treatment Plant/Outstations Projects-WQI	1,050		1,050				1,050	1,050	
Sub-Total	14,230	-	14,230	-	-	-	14,230	14,230	-
Master Plan									
Horizontal Assets	300		300	-	-		300	300	
Vertical Assets	6,800		6,800	2,600	2,600		1,600	1,600	
Sub-Total	7,100	-	7,100	2,600	2,600	-	1,900	1,900	-
Development Program									
Development\Extension Projects	400	-	400	126	74		200	200	
Sub-Total	400	-	400	126	74	-	200	200	-
Total	21,730	-	21,730	2,726	2,674	-	16,330	16,330	-

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(000'S)

	Gross Costs	Subsidy/ Other Revenues	Net Costs	Dev. Charges		Other Internal Sources	Funding Required	Financing Source	
				Residential	Non Residential			Contribution From Operating	External Borrowings (Debentures)
Total Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	91,170	-	91,170	-	-	2,030	89,140	89,140	-
Projects Coordinated with Roads Program	68,900	-	68,900	-	-	500	68,400	65,140	3,260
S.E.R.G. Projects	3,570	-	3,570	-	-	-	3,570	3,570	-
Treatment Plant/Outstations Projects	78,960	-	78,960	12,500	-	15,580	50,880	50,880	-
Treatment Plant/Outstations Projects-WQI	11,610	-	11,610	-	-	-	11,610	11,140	470
Sub-Total	254,210	-	254,210	12,500	-	18,110	223,600	219,870	3,730
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	10,580	-	10,580	-	-	5,580	5,000	-	5,000
Sub-Total	10,580	-	10,580	-	-	5,580	5,000	-	5,000
Master Plan									
Horizontal Assets	60,690	-	60,690	36,347	21,143	-	3,200	3,200	-
Vertical Assets	44,450	-	44,450	21,033	17,077	-	6,340	6,340	-
Sub-Total	105,140	-	105,140	57,380	38,220	-	9,540	9,540	-
Development Program									
Development\Extension Projects	15,540	100	15,440	5,796	3,964	650	5,030	5,030	-
Sub-Total	15,540	100	15,440	5,796	3,964	650	5,030	5,030	-
Total	385,470	100	385,370	75,676	42,184	24,340	243,170	234,440	8,730