



*Water, Wastewater & Storm
2013 - 2022
Capital Forecast Summary*

Appendix G



CITY OF HAMILTON
2013-2022 RATE PROGRAM 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)
2013 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	57,110	-	57,110	475	475	6,860	49,300	47,010	2,290
Projects Coordinated with Roads Program	28,520	-	28,520	-	-	6,710	21,810	14,950	6,860
S.E.R.G. Projects	5,180	-	5,180	-	-	3,200	1,980	500	1,480
Waterfront Initiatives	4,500	-	4,500	-	-	-	4,500	-	4,500
Treatment Plant/Outstations Projects	17,330	-	17,330	-	-	1,200	16,130	10,840	5,290
Treatment Plant/Outstations Projects-WQI	1,070	-	1,070	-	-	-	1,070	30	1,040
Sub-Total	113,710	-	113,710	475	475	17,970	94,790	73,330	21,460
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	17,763	4,158	13,605	874	687	2,684	9,360	3,050	6,310
Sub-Total	17,763	4,158	13,605	874	687	2,684	9,360	3,050	6,310
Master Plan									
Horizontal Assets	27,170	-	27,170	20,916	6,254	-	-	-	-
Vertical Assets	9,720	-	9,720	4,401	2,149	-	3,170	30	3,140
Sub-Total	36,890	-	36,890	25,317	8,403	-	3,170	30	3,140
Development Program									
Development\Extension Projects	14,080	100	13,980	9,697	2,123	1,070	1,090	1,090	-
Sub-Total	14,080	100	13,980	9,697	2,123	1,070	1,090	1,090	-
Total	182,443	4,258	178,185	36,363	11,688	21,724	108,410	77,500	30,910
2014 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	44,170	75	44,095	475	475	-	43,145	31,745	11,400
Projects Coordinated with Roads Program	12,100	-	12,100	-	-	-	12,100	12,100	-
S.E.R.G. Projects	670	-	670	-	-	-	670	670	-
Treatment Plant/Outstations Projects	14,230	-	14,230	-	-	-	14,230	14,230	-
Treatment Plant/Outstations Projects-WQI	420	-	420	-	-	-	420	420	-
Sub-Total	71,590	75	71,515	475	475	-	70,565	59,165	11,400
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	83,080	23,432	59,648	7,069	3,642	1,580	47,357	6,520	40,837
Sub-Total	83,080	23,432	59,648	7,069	3,642	1,580	47,357	6,520	40,837
Master Plan									
Horizontal Assets	9,280	-	9,280	6,580	2,700	-	-	-	-
Vertical Assets	5,400	-	5,400	1,863	837	-	2,700	2,700	-
Sub-Total	14,680	-	14,680	8,443	3,537	-	2,700	2,700	-
Development Program									
Development\Extension Projects	14,990	-	14,990	8,014	1,906	-	5,070	5,070	-
Sub-Total	14,990	-	14,990	8,014	1,906	-	5,070	5,070	-
Total	184,340	23,507	160,833	24,001	9,560	1,580	125,692	73,455	52,237

**CITY OF HAMILTON
2013-2022 RATE PROGRAM 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)
2015 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	29,120	75	29,045	475	475	-	28,095	28,095	-
Projects Coordinated with Roads Program	13,330	-	13,330	-	-	-	13,330	13,330	-
S.E.R.G. Projects	500	-	500	-	-	-	500	500	-
Treatment Plant/Outstations Projects	11,180	-	11,180	1,725	775	5,000	3,680	3,680	-
Treatment Plant/Outstations Projects-WQI	980	-	980	-	-	-	980	980	-
Sub-Total	55,110	75	55,035	2,200	1,250	5,000	46,585	46,585	-
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	180,210	57,400	122,810	14,576	7,509	3,420	97,305	17,810	79,495
Sub-Total	180,210	57,400	122,810	14,576	7,509	3,420	97,305	17,810	79,495
Master Plan									
Horizontal Assets	18,000	-	18,000	12,004	5,396	-	600	600	-
Vertical Assets	1,200	-	1,200	-	-	-	1,200	1,200	-
Sub-Total	19,200	-	19,200	12,004	5,396	-	1,800	1,800	-
Development Program									
Development/Extension Projects	8,210	-	8,210	6,042	918	-	1,250	1,250	-
Sub-Total	8,210	-	8,210	6,042	918	-	1,250	1,250	-
Total	262,730	57,475	205,255	34,822	15,073	8,420	146,940	67,445	79,495
2016 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	29,590	75	29,515	475	475	-	28,565	28,565	-
Projects Coordinated with Roads Program	13,210	-	13,210	-	-	-	13,210	13,210	-
S.E.R.G. Projects	840	-	840	-	-	-	840	840	-
Treatment Plant/Outstations Projects	35,890	-	35,890	5,175	2,325	-	28,390	15,300	13,090
Treatment Plant/Outstations Projects-WQI	2,210	-	2,210	-	-	-	2,210	2,210	-
Sub-Total	81,740	75	81,665	5,650	2,800	-	73,215	60,125	13,090
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	53,100	15,335	37,765	4,451	2,293	-	31,021	5,230	25,791
Sub-Total	53,100	15,335	37,765	4,451	2,293	-	31,021	5,230	25,791
Master Plan									
Horizontal Assets	19,650	544	19,106	13,355	5,751	-	-	-	-
Vertical Assets	2,560	-	2,560	1,779	781	-	-	-	-
Sub-Total	22,210	544	21,666	15,134	6,532	-	-	-	-
Development Program									
Development/Extension Projects	10,690	-	10,690	8,443	2,187	-	60	60	-
Sub-Total	10,690	-	10,690	8,443	2,187	-	60	60	-
Total	167,740	15,954	151,786	33,678	13,812	-	104,296	65,415	38,881

**CITY OF HAMILTON
2013-2022 RATE PROGRAM 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)
2017 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	42,970	75	42,895	475	475	-	41,945	41,945	-
Projects Coordinated with Roads Program	6,150	-	6,150	-	-	-	6,150	6,150	-
S.E.R.G. Projects	3,800	-	3,800	-	-	-	3,800	3,800	-
Treatment Plant/Outstations Projects	22,850	-	22,850	1,725	775	-	20,350	9,690	10,660
Treatment Plant/Outstations Projects-WQI	2,130	-	2,130	-	-	-	2,130	2,130	-
Sub-Total	77,900	75	77,825	2,200	1,250	-	74,375	63,715	10,660
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	80	-	80	-	-	-	80	80	-
Sub-Total	80	-	80	-	-	-	80	80	-
Master Plan									
Horizontal Assets	15,120	4,070	11,050	6,107	2,743	-	2,200	2,200	-
Vertical Assets	-	-	-	-	-	-	-	-	-
Sub-Total	15,120	4,070	11,050	6,107	2,743	-	2,200	2,200	-
Development Program									
Development/Extension Projects	5,280	-	5,280	4,538	242	-	500	500	-
Sub-Total	5,280	-	5,280	4,538	242	-	500	500	-
Total	98,380	4,145	94,235	12,845	4,235	-	77,155	66,495	10,660
2018 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	54,090	75	54,015	475	475	-	53,065	53,065	-
Projects Coordinated with Roads Program	4,100	-	4,100	-	-	-	4,100	4,100	-
S.E.R.G. Projects	1,580	-	1,580	-	-	-	1,580	1,580	-
Treatment Plant/Outstations Projects	7,370	-	7,370	-	-	-	7,370	7,370	-
Treatment Plant/Outstations Projects-WQI	2,430	-	2,430	-	-	-	2,430	2,430	-
Sub-Total	69,570	75	69,495	475	475	-	68,545	68,545	-
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	70	-	70	-	-	-	70	70	-
Sub-Total	70	-	70	-	-	-	70	70	-
Master Plan									
Horizontal Assets	240	-	240	166	74	-	-	-	-
Vertical Assets	3,400	-	3,400	2,298	1,032	-	70	70	-
Sub-Total	3,640	-	3,640	2,464	1,106	-	70	70	-
Development Program									
Development/Extension Projects	4,370	-	4,370	4,255	115	-	-	-	-
Sub-Total	4,370	-	4,370	4,255	115	-	-	-	-
Total	77,650	75	77,575	7,194	1,696	-	68,685	68,685	-

**CITY OF HAMILTON
2013-2022 RATE PROGRAM 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)
2019 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	60,210	75	60,135	475	475	-	59,185	59,185	-
Projects Coordinated with Roads Program	3,800	-	3,800	-	-	-	3,800	3,800	-
S.E.R.G. Projects	850	-	850	-	-	-	850	850	-
Treatment Plant/Outstations Projects	7,070	-	7,070	-	-	-	7,070	7,070	-
Treatment Plant/Outstations Projects-WQI	2,490	-	2,490	-	-	-	2,490	2,490	-
Sub-Total	74,420	75	74,345	475	475	-	73,395	73,395	-
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	280	-	280	-	-	-	280	280	-
Sub-Total	280	-	280	-	-	-	280	280	-
Master Plan									
Horizontal Assets	2,820	-	2,820	1,118	502	-	1,200	1,200	-
Vertical Assets	12,490	-	12,490	8,197	3,683	-	610	610	-
Sub-Total	15,310	-	15,310	9,315	4,185	-	1,810	1,810	-
Development Program									
Development\Extension Projects	4,400	-	4,400	4,138	62	-	200	200	-
Sub-Total	4,400	-	4,400	4,138	62	-	200	200	-
Total	94,410	75	94,335	13,928	4,722	-	75,685	75,685	-
2020 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	58,350	75	58,275	475	475	-	57,325	57,325	-
Projects Coordinated with Roads Program	5,430	-	5,430	-	-	-	5,430	5,430	-
S.E.R.G. Projects	500	-	500	-	-	-	500	500	-
Treatment Plant/Outstations Projects	6,270	-	6,270	-	-	-	6,270	6,270	-
Treatment Plant/Outstations Projects-WQI	1,440	-	1,440	-	-	-	1,440	1,440	-
Sub-Total	71,990	75	71,915	475	475	-	70,965	70,965	-
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	11,740	-	11,740	-	-	-	11,740	11,740	-
Sub-Total	11,740	-	11,740	-	-	-	11,740	11,740	-
Master Plan									
Horizontal Assets	-	-	-	-	-	-	-	-	-
Vertical Assets	5,530	-	5,530	3,816	1,714	-	-	-	-
Sub-Total	5,530	-	5,530	3,816	1,714	-	-	-	-
Development Program									
Development\Extension Projects	4,000	-	4,000	4,000	-	-	-	-	-
Sub-Total	4,000	-	4,000	4,000	-	-	-	-	-
Total	93,260	75	93,185	8,291	2,189	-	82,705	82,705	-

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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)
2021 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	74,850	75	74,775	475	475	-	73,825	73,825	-
Projects Coordinated with Roads Program	5,050	-	5,050	-	-	-	5,050	5,050	-
S.E.R.G. Projects	500	-	500	-	-	-	500	500	-
Treatment Plant/Outstations Projects	13,900	-	13,900	4,475	2,305	-	7,120	7,120	-
Treatment Plant/Outstations Projects-WQI	1,460	-	1,460	-	-	-	1,460	1,460	-
Sub-Total	95,760	75	95,685	4,950	2,780	-	87,955	87,955	-
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	50	-	50	-	-	-	50	50	-
Sub-Total	50	-	50	-	-	-	50	50	-
Master Plan									
Horizontal Assets	400	-	400	138	62	-	200	200	-
Vertical Assets	6,800	-	6,800	3,588	1,612	-	1,600	1,600	-
	7,200	-	7,200	3,726	1,674	-	1,800	1,800	-
Development Program									
Development\Extension Projects	4,400	-	4,400	4,138	62	-	200	200	-
Sub-Total	4,400	-	4,400	4,138	62	-	200	200	-
Total	107,410	75	107,335	12,814	4,516	-	90,005	90,005	-
2022 Sustainable Asset Management Strategy (SAM)									
Rehabilitation, Replacement & Upgrade Projects	83,170	75	83,095	475	475	-	82,145	82,145	-
Projects Coordinated with Roads Program	5,360	-	5,360	-	-	-	5,360	5,360	-
S.E.R.G. Projects	500	-	500	-	-	-	500	500	-
Treatment Plant/Outstations Projects	13,650	-	13,650	4,475	2,305	-	6,870	6,870	-
Treatment Plant/Outstations Projects-WQI	1,460	-	1,460	-	-	-	1,460	1,460	-
Sub-Total	104,140	75	104,065	4,950	2,780	-	96,335	96,335	-
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	50	-	50	-	-	-	50	50	-
Sub-Total	50	-	50	-	-	-	50	50	-
Master Plan									
Horizontal Assets	-	-	-	-	-	-	-	-	-
Vertical Assets	5,400	-	5,400	3,726	1,674	-	-	-	-
	5,400	-	5,400	3,726	1,674	-	-	-	-
Development Program									
Development\Extension Projects	5,600	-	5,600	4,000	-	-	1,600	1,600	-
Sub-Total	5,600	-	5,600	4,000	-	-	1,600	1,600	-
Total	115,190	75	115,115	12,676	4,454	-	97,985	97,985	-

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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	533,630	675	532,955	4,750	4,750	6,860	516,595	502,905	13,690
Projects Coordinated with Roads Program	97,050	-	97,050	-	-	6,710	90,340	83,480	6,860
S.E.R.G. Projects	14,920	-	14,920	-	-	3,200	11,720	10,240	1,480
Waterfront Initiatives	4,500	-	4,500	-	-	-	4,500	-	4,500
Treatment Plant/Outstations Projects	149,740	-	149,740	17,575	8,485	6,200	117,480	88,440	29,040
Treatment Plant/Outstations Projects-WQI	16,090	-	16,090	-	-	-	16,090	15,050	1,040
Sub-Total	815,930	675	815,255	22,325	13,235	22,970	756,725	700,115	56,610
Wastewater Investments Needs Strategies (WINS)									
Treatment Plant/Outstations Projects	346,423	100,325	246,098	26,970	14,131	7,684	197,313	44,880	152,433
Sub-Total	346,423	100,325	246,098	26,970	14,131	7,684	197,313	44,880	152,433
Master Plan									
Horizontal Assets	92,680	4,614	88,066	60,384	23,482	-	4,200	4,200	-
Vertical Assets	52,500	-	52,500	29,668	13,482	-	9,350	6,210	3,140
Sub-Total	145,180	4,614	140,566	90,052	36,964	-	13,550	10,410	3,140
Development Program									
Development/Extension Projects	76,020	100	75,920	57,265	7,615	1,070	9,970	9,970	-
Sub-Total	76,020	100	75,920	57,265	7,615	1,070	9,970	9,970	-
Total	1,383,553	105,714	1,277,839	196,612	71,945	31,724	977,558	765,375	212,183