

City of Hamilton Capital Projects Status Report - Public Works Rate Supported Projects
As of June 30, 2019

YEAR APPROVED	PROJECT ID	DESCRIPTION	APPROVED BUDGET (\$)	ACTUAL EXPENDITURES (\$)	PO COMMITMENTS (\$)	AVAILABLE BALANCE (\$) d = a - b - c	% COMPLETE e = (b+c) / a	Project Manager	STATUS EXPLANATION as of June 30, 2019
			a	b	c	d	e		
<u>CAPITAL DELIVERY SECTION</u>									
Water Rates									
2010	5141061303	Valve Chamber No 3 First-Isaac	2,790,000	2,581,985	88,087	119,928	95.7%	S. Leitch	STATUS: Work Completed (Valve Chamber No. 3 Upgrades). NEXT STEPS: Account to be closed once all purchase orders have been closed.
2011	5141166110	WTP - Process Upgrades	26,010,000	5,574,194	23,015,096	(2,579,290)	109.9%	S. Leitch	STATUS: Work in Progress - Construction (Process Upgrades - Phase 1). NEXT STEPS: Substantial Performance Q4 2021. Negative balance due to budgets being approved on a cash flow basis by Finance (\$102M future budgets approved, 2019 - 2028).
2012	5141267270	Water Control Valve Upgrades	2,860,000	2,099,122	407,973	352,905	87.7%	S. Leitch	STATUS: Work Complete. NEXT STEPS: Account to be closed once purchase orders have been closed.
2012	5141267272	Hillcrest Reservoir - HDR02	11,200,000	10,796,709	1,246,060	(842,769)	107.5%	S. Leitch	STATUS: Work Complete. NEXT STEPS: Account to be closed once purchase orders have been closed.
2012	5141267274	Kenilworth PS - HD005 Upgrades	3,355,000	781,052	2,390,869	183,079	94.5%	S. Leitch	STATUS: Work in Progress - Construction (Pump Station & Valve Replacement). NEXT STEPS: Substantial Performance Q3 2019 (Valve Replacement) & Q1 2020 (Pump Station).
2012	5141269250	HVAC Upgrade New Lab & Admin	5,620,000	984,287	-	4,635,713	17.5%	S. Leitch	STATUS: Due to a budget shortfall, previous construction tenders and associated engineering assignments were cancelled. NEXT STEPS: Conceptual Design to descope and reconfigure the HVAC and interior project scope for the Laboratory Upgrades (Q2 2019).
2013	5141395353	Ferguson HD002 Pumping Stn	2,600,000	391,809	35,579	2,172,612	16.4%	S. Leitch	STATUS: Work in Progress - Condition Assessment (HD0X2 Old Ferguson Water Pumping Station). NEXT STEPS: Request for Proposals for Design - New Ferguson PS (Phase 2 Upgrades) Q3 2019.
2015	5141567520	HDR05 Reservoir Upgrades	4,192,000	386,627	291,073	3,514,300	16.2%	S. Leitch	STATUS: Work in Progress - Awarding Tender for Construction. NEXT STEPS: Substantial Performance Q2 2020.
2015	5141567575	High Lift PS Upgrades Phase 2	880,000	382,329	38,375	459,296	47.8%	S. Leitch	STATUS: Work Complete - Field Study (HLPS Power Distribution & Protection Setup). NEXT STEPS: Construction - Power Distribution (Recommissioning) Q3 2019.
2015	5141567577	Security - Water PS Facilities	5,600,000	2,081,040	544,050	2,974,910	46.9%	S. Leitch	STATUS: Substantially Performed (Physical Security - Fencing). NEXT STEPS: Issue Project Charter Q3 2019 (Electronic Security System - High Priority Water Stations).
2016	5141666110	WTP - Corrosion Control	7,660,000	7,164,122	311,938	183,940	97.6%	S. Leitch	STATUS: Substantially Performed. NEXT STEPS: post substantial finishing works under way for the Fluoride Building Upgrades at the WTP Q3 2019. Account to be closed once the maintenance and warranty period expires Q4 2019.
2016	5141666608	Lynden Additional Water Supply	7,965,000	723,740	6,398,126	843,134	89.4%	S. Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q1 2020.

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2016	5141667420	Ben Nevis & Dewitt HD08A WPS	3,140,000	428,904	2,555,969	155,126	95.1%	S. Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q1 2020.
2016	5141667421	Glancaster & Hwy 53 HD018 WPS	6,040,000	5,107	-	6,034,893	0.1%	S. Leitch	STATUS: Awaiting completion of the PD18 Ancaster Tower EA for the Ultimate Upgrades. NEXT STEPS: Issue Project Charter for Immediate Needs Q3 2019.
2016	5141667422	Osler Road HD011 WPS	2,569,000	420,785	1,780,210	368,004	85.7%	S. Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q3 2019.
2016	5141667424	Freelton Tower HDT03 Upgrades	3,600,000	2,085,391	301,643	1,212,967	66.3%	S. Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q1 2020.
2016	5141695883	York & Valley HD016 WPS (W-26)	3,710,000	140,935	58,063	3,511,003	5.4%	S. Leitch	STATUS: Work in Progress - Detailed Asset Condition Assessments & Hydraulic Assessment. NEXT STEPS: Request for Design Q3 2019.
2017	5141766421	WTP Fluoride Building HVAC	470,000	53,280	-	416,720	11.3%	S. Leitch	STATUS: Work Completed - Air Quality Study. NEXT STEPS: Policy 11 previously approved - Contractor providing quote for expansion to Corrosion Control Building Q1 2019 and complete works in Q2 2019.
2017	5141767420	Carlisle Well Stn Sys Enhance	940,000	58,856	-	881,144	6.3%	S. Leitch	STATUS: Work in Progress - Scope Verification. NEXT STEPS: Request for Proposals for Design Q3 2019.
2017	5141767650	New Greensville Communal Well	1,250,000	66,558	26,653	1,156,789	7.5%	S. Leitch	STATUS: Awaiting completion of Schedule C EA for the Greensville New Well. NEXT STEPS: Issue Project Charter Q4 2019.
2017	5141795850	Greenhill PS HD04B & HD05A	9,820,000	336,012	800,595	8,683,393	11.6%	S. Leitch	STATUS: Work in Progress - Construction (Immediate Needs) & Conceptual Design (Ultimate Upgrades). NEXT STEPS: Substantial Performance (Immediate Needs) Q4 2019 & Design (Ultimate Needs) Q3 2019.
2018	5141867651	HD007 Highland Rd Reservoir	260,000	-	-	260,000	0.0%	S. Leitch	STATUS: Timing of this project is aligned with the Reservoir Capital Coordination Schedule. NEXT STEPS: Issue Project Charter Q3 2019.
2019	5141966911	WTP - Bio Filtration Study	150,000	-	-	150,000	0.0%	S. Leitch	NEXT STEPS: Issue Project Charter Q4 2019.
2019	5141967375	Kenilworth&Ben Nevis Reservoir	7,550,000	39,408	554,348	6,956,245	7.9%	S. Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Tender for Construction Q3 2019.
<i>Sub-Total Capital Delivery - Water</i>			120,231,000	37,582,254	40,844,704	41,804,041	65.2%		

Wastewater - Rates

2007	5160795760	Southcote PS&Forcemain-HC008	5,512,100	3,321,478	107,812	2,082,810	62.2%	S. Leitch	STATUS: Work Completed. NEXT STEPS: Account to be closed once purchase orders have been closed.
2009	5160966912	Decommission Waterdown WWTP-WW08	6,000,000	764,582	2,587,275	2,648,143	55.9%	S. Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q4 2019.
2010	5161066065	Waste Hauler Receiving Station	3,439,800	1,122,007	1,895,397	422,396	87.7%	S. Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q4 2019.

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2012	5161266213	Dundas WWTP Improvements	1,420,200	458,795	-	961,405	32.3%	S. Leitch	STATUS: Upgrade project on hold. Work Completed – Feasibility Study (Dundas WWTP Outfall Assessment & Asset Replacement Study). NEXT STEPS: Exploring funding opportunities for the preferred upgrade solution.”
2012	5161267270	Ancaster WW Outstations	8,480,000	4,142,679	295,426	4,041,895	52.3%	S. Leitch	STATUS: Substantially Performed (HC009, HC013). 4 Contractors Prequalified for Construction (HC005). NEXT STEPS: Tender for Construction Q3 2019 (HC005). Request for Quotes Q3 2019 (Minor Electrical and Civil Improvements - HC009, HC013).
2012	5161267273	Dundas WW Outstations	2,730,000	1,325,915	70,541	1,333,545	51.2%	S. Leitch	STATUS: Substantially Performed (DC005, DC006). Work Completed - Scope Verification (DC010). NEXT STEPS: Request for Proposals for Design (DC010) Q3 2019.
2013	5161367360	Cormorant & Osprey (HC014)	4,450,000	3,961,554	367,163	121,283	97.3%	S. Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2019.
2013	5161367374	Waterdown Outstation Upgrades	3,420,000	3,273,155	60,937	85,908	97.5%	S. Leitch	STATUS: Work Completed. NEXT STEPS : Account to be closed once purchase orders have been closed.
2014	5161467756	Greenhill & Cochrane HCS01	2,920,000	203,083	-	2,716,917	7.0%	S. Leitch	STATUS: Work Completed - Life Cycle Analysis. NEXT STEPS: Issue Project Charter Q3 2019.
2015	5161595858	Binbrook PS Upgrade (WW-20)	6,280,000	2,654,580	2,161,411	1,464,010	76.7%	S. Leitch	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q4 2019.
2016	5161667622	FC001 DC009 HC011 Upgrades	5,340,000	223,574	606,124	4,510,302	15.5%	S. Leitch	STATUS: Work in Progress - Design, Evaluating Prequalified Contractors for Construction (FC001, DC009) & Design (HC011). NEXT STEPS: Tender for Construction Q3 2019 (FC001, DC009). Request for Prequalified Contractors Q3 2019 (HC011).
2017	5161766421	WWTP Methane Sphere Upgrades	4,400,000	3,221,949	832,329	345,722	92.1%	S. Leitch	STATUS: Substantially Performed. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q3 2019.
2017	5161767420	Parkdale Av HC001 WW Statn Upg	660,000	30,982	-	629,018	4.7%	S. Leitch	STATUS: Work in Progress - Scope Verification. NEXT STEPS: Request for Proposals for Design Q4 2019.
2017	5161796786	First Street PS Upgrade DC014	4,930,000	249,128	529,592	4,151,280	15.8%	S. Leitch	STATUS: Work in Progress - Design. NEXT STEPS: Request for Prequalified Contractors for Construction Q3 2019.
2019	5161967123	AEGD Growth Initiative	11,000,000	-	-	11,000,000	0.0%	S. Leitch	STATUS: Ongoing. Work in Progress
2020	5162068851	Pier 25 Dredging - Windermere	170,000	20,285	-	149,715	11.9%	S. Leitch	STATUS: Developing Roster Invitation (Feasibility Study to determine potential locations for Silt Disposal). NEXT STEPS: Award Roster for Feasibility Study Q3 2019.
<i>Sub-Total Capital Delivery - Wastewater</i>			71,152,100	24,973,745	9,514,008	36,664,348	48.5%		
<i>TOTAL CAPITAL DELIVERY SECTION</i>			191,383,100	62,555,999	50,358,712	78,468,389	59.0%		

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INFRASTRUCTURE PLANNING & SYSTEMS DESIGN

Water - Rates

2011	5141167150	Greensville New Well – EA	720,000	1,415,583	22,337	(717,920)	199.7%	B. Posedowski	STATUS: Work Completed - Pumping Test and Hydrogeologic investigation, Greensville Subwatershed Study Report. Work in Progress - New Greensville Municipal Well Schedule C EA. NEXT STEPS: Completion of EA Q2 2019. Overage due to operational chargebacks
2013	5141395354	PD18 Elevated Reservoir W14	2,610,000	411,789	9,317	2,188,894	16.1%	B. Posedowski	STATUS: Work in Progress - Class EA and Conceptual Design, Terrestrial and Avian Assessments. NEXT STEPS: Completion of EA is Q2 2019. Land Purchase is in the Critical Path.
2014	5141495551	PD7 Elevated Reservoir W-23	1,990,000	164,912	12,400	1,812,688	8.9%	B. Posedowski	STATUS: Work in Progress - EA & Conceptual Design of PD7 Elevated Tower / Reservoir & New Pumping Station. NEXT STEPS: EA Completion Q1 2019.
2015	5141555010	Water Systems Planning	450,000	397,783	8,000	44,217	90.2%	B. Posedowski	STATUS: Work in Progress - Servicing alternatives for Ancaster, Screening of Development Applications, Pressure District Boundary Condition Characterization. NEXT STEPS: Completion Q2 2019.
2015	5141555264	City-Wide Water MP	650,000	78,356	499,252	72,392	88.9%	B. Posedowski	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q2 2020.
2015	5141555555	City Wide Groundwater Model	710,000	463,864	120,596	125,540	82.3%	B. Posedowski	STATUS: Work in Progress - Vulnerability Mapping for Rural Development, Delineation of Lynden Wellhead Protection Areas. NEXT STEPS: Freelon Wellhead Protection Area Delineation Q1 2019.
2015	5141564533	Up Wentworth - Hydro to Twenty	2,200,000	12,638	-	2,187,362	0.6%	B. Posedowski	STAUS: On Hold. NEXT STEPS: City Wide Water and Wastewater Master Plan will dictate whether this is required.
2015	5141567273	HD17A PS Replace Decommission	1,930,000	4,047	-	1,925,953	0.2%	B. Posedowski	NEXT STEPS: Issue Project Charter Q1 2019.
2015	5141595553	HD12A PS Upgrades (W-04)	720,000	196,532	17,875	505,593	29.8%	B. Posedowski	STATUS: Work Completed - Land Acquisition and Phase One & Two Environmental Site Assessment (ESA) & pre-demolition Designated Substances / Hazardous Materials Survey. Work in Progress - Class EA. NEXT STEPS: Completion of EA Q1 2019.
2016	5141664632	Twenty (Greti) to Upper James	1,610,000	184,337	-	1,425,663	11.4%	B. Posedowski	STAUS: On Hold. NEXT STEPS: City Wide Water and Wastewater Master Plan will dictate whether this is required.
2016	5141667423	Freelon Well FDF01 Capacity	1,870,000	301,352	36,869	1,531,779	18.1%	B. Posedowski	STATUS: Work Complete - Hydrogeological study. Work in Progress - GUDI Investigation & Treatment Capacity Study. NEXT STEPS: Study Completion Q1 2019.
2017	5141767752	WW Outstation Inspection - AM	550,000	248,453	223,292	78,255	85.8%	B. Posedowski	STATUS: Work in Progress - Design of Facility Asset Management Program and Peer Review, Condition Assessments (HDR00, Chlorine Building), Energy Audit of HW facilities (Phase II). NEXT STEPS: Completion Q2 2023.

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2017	5141796752	PD16 Trunk - PS HD016 to Hwy 5	2,570,000	274,650	110,005	2,185,345	15.0%	B. Posedowski	STATUS: Completed Functional design. NEXT STEPS: Class EA for the Waterdown Trunk Watermain Twinning Q1 2019.
2018	5141855010	Water Systems Planning	300,000	124,757	105,643	69,600	76.8%	B. Posedowski	STATUS: Support for ongoing water system analysis of the LRT intensification corridor, Screening and development application services, Pressure District Boundary Condition Characterization. NEXT STEPS: Completion Q1 2019.
2018	5141855777	LRT Corridor - Water	570,000	-	-	570,000	0.0%	B. Posedowski	Ongoing - work in progress
2018	5141867752	Water Outstation Inspections	660,000	352,645	290,990	16,365	97.5%	B. Posedowski	STATUS: Work in Progress - 2018 Water and Wastewater Financial Plan, Lynden New Well Cost Estimate Peer Review, Condition Assessment (FDG01). NEXT STEPS: Condition Assessment (HDR2A) Q1 2019, Woodward WTP Upgrades DC Study Q1 2019.
2018	5141895852	Carlisle Additnl Water Storage	440,000	-	-	440,000	0.0%	B. Posedowski	NEXT STEPS: Water System Specialist to assess alternatives to the Future Carlisle Water Storage Q1 2019.
2018	5141895956	Water Distribution Model	350,000	-	-	350,000	0.0%	B. Posedowski	NEXT STEPS: WaterCAD Model Update and Maintenance Procedure Q1 2019.
2019	5141955010	Water Systems Planning Program	400,000	-	-	400,000	0.0%	B. Posedowski	Ongoing - work in progress
2019	5141955247	Drinking Water System Changes	150,000	12,419	44,046	93,535	37.6%	B. Posedowski	Ongoing - work in progress
2019	5141955713	Drinking Water System Optimize	220,000	-	-	220,000	0.0%	B. Posedowski	Ongoing - work in progress
2019	5141957545	Water - Computer Model	280,000	-	-	280,000	0.0%	B. Posedowski	Ongoing - work in progress
2019	5141967752	Water Outstation Inspections	660,000	-	-	660,000	0.0%	B. Posedowski	Ongoing - work in progress
Sub-Total Infrastructure Planning & Systems Design - Water			22,610,000	4,644,116	1,500,621	16,465,263	27.2%		

Wastewater - Rates

2007	5160755640	Non-trunk Flow Monitoring	500,000	114,300	398,089	(12,389)	102.5%	B. Posedowski	STATUS: Work Complete - Design of Wet Weather Control. NEXT STEPS: Completion of Conceptual Design Q3 2018. Negative balance due to unanticipated tax changes.
2008	5160867751	WW Outstns - Asset Management	2,655,000	1,489,396	1,308,678	(143,074)	105.4%	B. Posedowski	STATUS: Work Complete - Design of Wet Weather Control. NEXT STEPS: Completion of Conceptual Design Q3 2018. Negative balance due to unanticipated tax changes.
2013	5161367752	WW Outstation Inspection - AM	645,000	161,115	494,829	(10,944)	101.7%	B. Posedowski	STATUS: Work in Progress - Design for Facility Asset Management Program. NEXT STEPS: Completion Q2 2023.
2014	5161455420	SERG - Flooding & Drainage MP	555,000	246,123	233,409	75,468	86.4%	B. Posedowski	STATUS: Work in Progress - Flooding and Drainage Master Plan. NEXT STEP: Completion Q1 2019.
2015	5161555264	City-Wide Wastewater MP	650,000	471,994	111,610	66,396	89.8%	B. Posedowski	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q2 2020.

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2015	5161555955	Inflow & Infiltration	474,000	400,325	78,516	(4,841)	101.0%	B. Posedowski	STATUS: Work in Progress - HC058 Capacity Analysis and Wet Weather Relief Class EA, West Mountain Flow Monitoring & West 18th, Riverdale East Flooding. NEXT STEPS: Completion Q1 2019.
2015	5161557545	Wastewater Computer Model	550,000	360,098	203,912	(14,010)	102.5%	B. Posedowski	STATUS: Work in Progress - Rain Gauges Flow Monitoring Services, Hydrologic-hydraulic model for the storm sewer systems of Phase 1 Hamilton Mountain Areas (Ancaster). NEXT STEPS: Completion Q4 2020.
2015	5161567564	HC005 - Schedule C EA	990,000	246,201	144,026	599,772	39.4%	B. Posedowski	STATUS: Work in Progress - Emergency Overflow Schedule C Municipal Class EA. NEXT STEPS: EA Completion Q2 2019. Detailed Design to follow.
2016	5161655350	Riverdale Flood Relief EA	1,540,000	4,247	-	1,535,753	0.3%	B. Posedowski	STATUS: Work in Progress - Riverdale East and Surrounding Neighbourhood Flooding Remedial Measures & Conceptual Design . NEXT STEPS: Conceptual Design Completion Q2 2019. Detailed Design to follow.
2016	5161655351	Lawfield & Berrisfield Area	185,000	239,105	-	(54,105)	129.2%	B. Posedowski	STATUS: Work Completed - Smoke Testing, Manhole Inspection, Conceptual Design of Neighbourhood I/I Reduction. NEXT STEPS: Consultation with HW Sr Management to decide which solution to pursue. Community Outreach and Education to follow.
2016	5161661434	Upsize Wilson Street Forcemain	270,000	4,875	-	265,125	1.8%	B. Posedowski	NEXT STEPS: Issue Project Charter Q1 2019.
2016	5161667421	New Haulage Receiving Station	1,690,000	192,530	46,191	1,451,280	14.1%	B. Posedowski	STATUS: Work in Progress - Class EA and Conceptual Design. NEXT STEPS: EA Completion Q2 2019. Land Purchase & Detailed Design to follow.
2016	5161695747	Battlefield Trunk Sewer WW-33	12,150,000	1,655,022	-	10,494,978	13.6%	B. Posedowski	STATUS: Scope and timing to be confirmed in Citywide Master Plan. NEXT STEPS: Detailed Design by Engineering Services to follow.
2016	5161696452	AEGD - Dickenson Rd FM & Sewer	4,400,000	319,020	2,523,040	1,557,940	64.6%	B. Posedowski	STATUS: Work Completed - Economic Analysis and Feasibility study to support the Conceptual Design Implementation. NEXT STEPS: Detailed Design.
2017	5161755640	Non-Trunk Flow Monitoring	100,000	114,920	78,365	(93,285)	193.3%	B. Posedowski	STATUS: Citywide Sanitary Service Flow Monitoring. NEXT STEPS: Completion Q1 2020.
2017	5161755955	Inflow & Infiltration	300,000	260,750	6,817	32,433	89.2%	B. Posedowski	STATUS: Work in Progress - Glen Road Inspection and Monitoring/ Aberdeen CSO Monitoring. NEXT STEPS: Completion Q1 2019.
2017	5161757420	SCADA Rain Gauges	50,000	-	-	50,000	0.0%	B. Posedowski	NEXT STEPS: Issue Project Charter Q1 2019.
2017	5161767752	WW Outstn Insp -Asset Mgm Prog	220,000	106,016	46,965	67,019	69.5%	B. Posedowski	STATUS: Work in Progress - Energy Audit (of HW facilities - Phase II). Pilot Study - Asset Management. NEXT STEPS: Roster Invitation - Condition Assessment (DC007 McMaster SPS) Q1 2019.

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2018	5161855010	Wastewater Systems Planning	300,000	145,780	136,652	17,568	94.1%	B. Posedowski	STATUS: Work in Progress - Wastewater System Analysis & Hydraulic Assessment (LRT intensification Corridor & Roads Capital Program), Pollution Control Plan, Riverdale East Flooding Investigation, CSO Reporting. NEXT STEPS: Completion Q1 2019.
2018	5161855640	Flow Monitoring Program	50,000	36,769	6,795	6,437	87.1%	B. Posedowski	STATUS: Citywide Sanitary Service Flow Monitoring, Rain Gauges Flow Monitoring Services. NEXT STEPS: Completion Q1 2020.
2018	5161855777	LRT Corridor - Wastewater	570,000	12,949	85,755	471,296	17.3%	B. Posedowski	NEXT STEPS: Wastewater System Analysis for LRT intensification Corridor Q1 2019.
2018	5161857545	Wastewater Computer Model	280,000	140,181	66,506	73,312	73.8%	B. Posedowski	STATUS: Citywide Sanitary & Stormwater Flow Monitoring Services. NEXT STEPS: Completion Q1 2020.
2018	5161867752	Wastewater Outstation Inspect	520,000	88,791	15,594	415,615	20.1%	B. Posedowski	STATUS: Work in Progress - Condition Assessment (HC017 Eastport SPS), Development Water Financial Plan. NEXT STEPS: Completion Q1 2019.
2019	5161955010	WW Systems Planning Program	600,000	-	39,375	560,625	6.6%	B. Posedowski	Ongoing - work in progress
2019	5161955640	Flow Monitoring Program	350,000	-	-	350,000	0.0%	B. Posedowski	Ongoing - work in progress
2019	5161955955	Inflow & Infiltration Studies	500,000	-	149,158	350,842	29.8%	B. Posedowski	Ongoing - work in progress
2019	5161957545	Wastewater Computer Model	380,000	-	-	380,000	0.0%	B. Posedowski	Ongoing - work in progress
2019	5161967752	WW Outstation Inspections	520,000	-	-	520,000	0.0%	B. Posedowski	Ongoing - work in progress
2019	5161996954	Aberdeen Hillside Sewer	450,000	-	-	450,000	0.0%	B. Posedowski	Ongoing - work in progress
<i>Sub-Total Infrastructure Planning & Systems Design -</i>			32,444,000	6,810,508	6,174,283	19,459,209	40.0%		

Storm water - Rates

2012	5181260214	Parkside and Kipling Flood	1,500,000	1,365,490	-	134,510	91.0%	C. Graham	STATUS: Work in Progress - Construction (Churchill Park Rain Gardens - Phase 1). NEXT STEPS: Substantial Performance (Phase 1) Q2 2019.
2012	5181260216	Golf Course SWMP Rosedale	2,570,000	547,627	51,638	1,970,735	23.3%	B. Posedowski	STATUS: Work in Progress - Enhanced Functional Design and Topographic Survey. NEXT STEPS: Completion of Enhanced Functional Design Q2 2019. Detailed Design to follow.
2012	5181274800	Watercourse 5 and 6	3,850,000	381,813	29,436	3,438,751	10.7%	B. Posedowski	STATUS: Work in Progress - Flood plain mapping and hydrologic analysis to update SCUBE reports, Hydraulics Assessment and Class EA Work Plan. NEXT STEPS: EA Completion Q1 2019. Detailed Design to follow.
2013	5181355350	SERG Studies & Assessments	740,000	621,062	61,652	57,285	92.3%	B. Posedowski	STATUS: Work Completed - Low Impact Development Bumpout (Bay and Simcoe). Work in Progress - Beach Strip Flooding Study. NEXT STEPS: Completion Q1 2019.

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			a	b	c	d	e		
2014	5181455420	SERG - Flooding & Drainage MP	645,000	24,033	453,434	167,533	74.0%	B. Posedowski	STATUS: Work in Progress - Flooding and Drainage Master Plan. NEXT STEP: Completion Q1 2019.
2015	5181555422	GRIDS II - Stormwater MP	650,000	74,550	499,252	76,198	88.3%	B. Posedowski	STATUS: Work in Progress - Citywide Water Wastewater Storm Master Plan. NEXT STEPS: Completion Q2 2020.
2015	5181562590	SWMP Retrofits	660,000	8,056	140,097	511,847	22.4%	B. Posedowski	NEXT STEPS : Issue Project Charter for the Analysis & Conceptual Design - Stormwater Management Pond Retrofits (Ponds # 67, 9, 54, 52, 35, 14) Q1 2019.
2016	5181655075	SERG - Watershed Proj Coord	500,000	201,536	152,822	145,642	70.9%	B. Posedowski	STATUS: Work in Progress - Lower Spencer Creek Subwatershed Study, Delivery of environmental data collection in the field. NEXT STEPS: Completion Q1 2019.
2016	5181655421	SERG Stormwater System Planning	280,000	147,791	43,858	88,351	68.4%	B. Posedowski	STATUS: Work in Progress - Hydraulic Assessment (Storm Sewer in Ancaster, Stormwater needs for Roads Capital Program). NEXT STEPS: Completion Q4 2020.
2017	5181755420	Stormwater Drainage Review	280,000	159,653	93,039	27,308	90.2%	B. Posedowski	STATUS: Work in Progress - Detailed Drainage Assessment Study (Phase 2) - Development of Existing Residential (ER) Neighbourhoods in Rural Ancaster. NEXT STEPS: Completion Q1 2019.
2017	5181755421	SERG - SW System Planning	280,000	113,406	11,692	154,902	44.7%	B. Posedowski	STATUS: Wilson Street Stormwater Drainage Plan. NEXT STEPS: Citywide Stormwater Infrastructure Field Verification & GIS Database Update for Modelling Q1 2019.
2018	5181823155	SERG - Dundas Drainage Upgrade	120,000	-	-	120,000	0.0%	B. Posedowski	NEXT STEPS: Issue Project Charter Q1 2019.
2018	5181872295	SERG - LEEDS Implementation	610,000	18,519	-	591,481	3.0%	B. Posedowski	Ongoing - work in progress
2019	5181955350	Climate Change Impact Assess	550,000	-	-	550,000	0.0%	B. Posedowski	Ongoing - work in progress
2019	5181955421	Storm System Planning Prm	480,000	-	39,375	440,625	8.2%	B. Posedowski	Ongoing - work in progress
2019	5181957545	Stormwater Computer Model	1,080,000	-	-	1,080,000	0.0%	B. Posedowski	Ongoing - work in progress
2021	5182155101	SERG - SC & Battlefield Creek	150,000	-	-	150,000	0.0%	B. Posedowski	Ongoing - work in progress
Sub-Total Infrastructure Planning & Systems Design - Storm			14,945,000	3,663,538	1,576,294	9,705,169	35.1%		
TOTAL INFRASTRUCTURE PLANNING & SYSTEMS DESIGN			69,999,000	15,118,161	9,251,198	45,629,641	34.8%		
WOODWARD UPGRADES SECTION									
Wastewater - Rates									
2008	5160866801	Woodward WWTP - Clean Harbour	216,743,000	115,449,468	101,293,532	-	100.0%	J. Helka	STATUS: GIF Funded. \$189M future budgets requested (cash flowed 2020 - 2022). Work in Progress - Construction (Raw Wastewater Pumping Station, Electrical System, Tertiary Treatment). NEXT STEPS: Substantial Performance Q1 2022.

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2009	5160966910	WWTP - Biosolids MP Implement	10,470,000	4,383,792	4,822,091	1,264,117	87.9%	J. Helka	STATUS: PPP Canada Funded, Cash Flow Budget approved by Finance. Work in Progress - Design-Bid-Finance-Operate-Maintain Contract awarded to Harbour City Solutions for the Biosolids Management Project. NEXT STEPS: Substantial Performance Q2 2020.
<i>Sub-Total Woodward Upgrades - Wastewater</i>			227,213,000	119,833,260	106,115,623	1,264,117	99.4%		
<i>TOTAL WOODWARD UPGRADES SECTION</i>			227,213,000	119,833,260	106,115,623	1,264,117	99.4%		

*Note: Due to significant funds and multi-year cash flows, funded budget = expenditures and commitments

PLANT MAINTENANCE AND TECHNICAL SERVICES SECTION

Water - Rates

2015	5141566711	Annual Water Treatment Studies	250,000	75,308	158,062	16,630	93.3%	S. McCauley	STATUS: Work in Progress - Baseline biological activity in the full scale media filters at the Woodward Avenue WTP. NEXT STEPS: Roster Invitation - Optimization Study for Corrosion Control using Phosphoric acid chemical dosing Q1 2019.
2016	5141666713	Annual Water Maintenance	600,000	496,859	7,534	95,607	84.1%	S. McCauley	STATUS: Substantially Performed - Woodward WWTP Staff Building Renovations. NEXT STEPS: Account to be closed once maintenance and warranty period expires Q1 2019.
2017	5141766711	Annual Water Treatment Studies	250,000	111,253	20,165	118,582	52.6%	S. McCauley	STATUS: Work in Progress - Condition Assessment (Chlorine Chemical Building), Assessment of current CT calculations. NEXT STEPS: Completion Q1 2019.
2017	5141766713	Annual Water Maintenance	2,500,000	516,942	358,284	1,624,774	35.0%	S. McCauley	STATUS: Work in Progress. NEXT STEPS: Tenders for Construction - Installation of Premise Isolation Backflow Devices and Containments for various HW Facilities Q1 2019.
2018	5141866350	WTP Lighting Upgrade	200,000	-	135,827	64,173	67.9%	S. McCauley	STATUS: Work in Progress - Construction (Energy Efficient LED Lighting at Woodward Ave. SSTP and Administration Building). NEXT STEPS: Substantial Performance Q3 2019.
2018	5141866713	Annual Water Maintenance	1,500,000	76,371	0	1,423,629	5.1%	S. McCauley	STATUS: Work in Progress.
<i>Sub-Total Plant Maintenance & Technical Services - Water</i>			5,300,000	1,276,731	679,872	3,343,396	36.9%		

Wastewater - Rates

2017	5161766713	Wastewater Maintenance Capital	3,000,000	1,829,180	1,116,940	53,880	98.2%	S. McCauley	STATUS: Work in Progress. NEXT STEPS: Completion Q4 2019.
2017	5161766745	Woodward WWTP-Oper Readiness	2,475,000	1,580,988	395,424	498,589	79.9%	S. McCauley	STATUS: Work in Progress - Construction (Replacement of Membrane Tube Diffusers & Step Feed Weir Refurbishment at the Woodward WWTP). NEXT STEPS: Substantial Performance Q1 2019.
2018	5161866350	Woodward WWTP Lighting Upgrade	690,000	14,755	663,692	11,553	98.3%	S. McCauley	STATUS: Work in Progress - Construction (Energy Efficient LED Lighting at Woodward Ave. SSTP and Administration Building). NEXT STEPS: Substantial Performance Q3 2019.

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			a	b	c	d	e		
2018	5161866511	Woodward WWTP - Digester #4	5,500,000	1,816	3,447,000	2,051,184	62.7%	S. McCauley	STATUS: Work in Progress - Construction. NEXT STEPS: Substantial Performance Q1 2020.
2018	5161866713	Wastewater Maintenance Capital	4,750,000	232,144	265,548	4,252,308	10.5%	S. McCauley	STATUS: Work in Progress. NEXT STEPS: Completion Q4 2020.
<u>Sub-Total Plant Maintenance & Technical Services -</u>			<u>16,415,000</u>	<u>3,658,883</u>	<u>5,888,604</u>	<u>6,867,513</u>	<u>58.2%</u>		
<u>TOTAL PLANT MAINTENANCE & TECHNICAL SERVICES</u>			<u>21,715,000</u>	<u>4,935,615</u>	<u>6,568,476</u>	<u>10,210,909</u>	<u>53.0%</u>		
<u>WATER & WASTEWATER PLANNING AND CAPITAL SECTION</u>									
<u>Corporate Project Program - Tax</u>									
2009	2110953900	Randle Reef Rehab Project	7,250,000	7,847,735	275,000	(872,735)	112.0%	M. Bainbridge	STATUS: Cash Flow Budget approved by Finance. Stage 1 Completion reached in October 2018. Stage 2 Work in Progress with target completion in Q1 2020. NEXT STEPS: Tendering Stage 3 works in 2020.
<u>Sub-Total Water & Wastewater Planning & Capital -</u>			<u>7,250,000</u>	<u>7,847,735</u>	<u>275,000</u>	<u>(872,735)</u>	<u>112.0%</u>		
<u>Wastewater - Rates</u>									
2014	5161468422	Randle Reef Sediment Remediate	5,100,000	4,325,000	1,675,000	(900,000)	117.6%	M. Bainbridge	STATUS: Cash Flow Budget approved by Finance. Stage 1 Completion reached in October 2018. Stage 2 Work in Progress with target completion in Q1 2020. NEXT STEPS: Tendering Stage 3 works in 2020.
<u>Sub-Total Water & Wastewater Planning & Capital -</u>			<u>5,100,000</u>	<u>4,325,000</u>	<u>1,675,000</u>	<u>(900,000)</u>	<u>117.6%</u>		
<u>TOTAL WATER & WASTEWATER PLANNING AND CAPITAL SECTION</u>			<u>12,350,000</u>	<u>12,172,735</u>	<u>1,950,000</u>	<u>(1,772,735)</u>	<u>114.4%</u>		
<u>HAMILTON WATER & WASTEWATER- DIRECTOR</u>									
<u>Water - Rates</u>									
2015	5141557543	Workforce & Time Mgmt-Kronos	430,000	424,138	9,883	(4,021)	100.9%	A. Grice	STATUS: Work Completed. NEXT STEPS: Account to be closed once final invoices are paid and outstanding purchase orders have been closed.
<u>Sub-Total - Water</u>			<u>430,000</u>	<u>424,138</u>	<u>9,883</u>	<u>(4,021)</u>	<u>100.9%</u>		
<u>Wastewater - Rates</u>									
2015	5161555545	Capital Works Information Mgmt	280,000	-	-	280,000	0.0%	A. Grice	STATUS: Work in Progress - Project Management Office / IT Business Intelligence Collaborative Project (Phase 1 - Automate Existing PMO Reporting System using internal Resources). NEXT STEPS: Phase 2 Dashboard and Power BI Q3 2019.
<u>Sub-Total Roads - Wastewater</u>			<u>280,000</u>	<u>0</u>	<u>0</u>	<u>280,000</u>	<u>0.0%</u>		
<u>TOTAL HAMILTON WATER & WASTEWATER DIRECTOR</u>			<u>710,000</u>	<u>424,138</u>	<u>9,883</u>	<u>275,979</u>	<u>61.1%</u>		

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a			b		c	d	e		

WATER & WASTEWATER ENGINEERING SERVICES SECTION

Water - Engineering Services

2014	5141455425	Concrete Pipe Condition Assessment	2,750,000	1,641,532	360,313	748,154	72.8%	M. Zantingh / J. Grieci	Assessment works delayed due to other works impacting the water network. \$560k being used to WIP fund 2020 Large Valve program.
2015	5141571301	WM Replace Program - Coordinated with Roads - 2015	14,575,000	14,322,219	184,643	68,138	99.5%	M. Oddi / P. McNab	Complete - Close once commitments are paid/cleared
2015	5141596152	PD11 (Governor's Rd) Extend	1,120,000	1,104,752	52,288	(37,040)	103.3%	M. Oddi	Ongoing - work in progress (C15-44-18)
2015	5141596153	PD22 (Governor's Rd) Extend	900,000	843,828	40,940	15,232	98.3%	M. Oddi	Ongoing - work in progress (C15-44-18)
2015	5141596550	Stone Church Feedermain (W-24)	25,300,000	2,282,519	250,612	22,766,869	10.0%	S. Jacob	Currently in geotechnical investigation. Detail Design to start in 2020. Masterplan update may have impact on the design. Construction scheduled for 2022.
2016	5141657626	Critical WM Inspection Program - 2016	299,000	178,576	-	120,424	59.7%	M. Zantingh / J. Grieci	These funds are being used to WIP fund the 2020 Critical WM Inspection Program and then this project can be closed.
2016	5141660999	Closed Projects - Water	218,000	75,388	148,658	(6,046)	102.8%	M. Oddi / P. McNab	Complete - Close once commitments are paid/cleared.
2016	5141670000	Coordinated Road and Subsurface Works - 2016	3,091,000	2,915,975	152,192	22,833	99.3%	M. Oddi / P. McNab	Complete - Close once commitments are paid/cleared
2017	5141757626	Critical WM Inspection Program - 2017	330,000	73,459	-	256,541	22.3%	M. Zantingh / J. Grieci	Ongoing - work in progress. Claim for CWWF funding underway.
2017	5141760577	Metallic Watermain Condition Assessment Program - 2017	685,000	685,000	-	-	100.0%	M. Zantingh / J. Grieci	Complete. Claim for CWWF funding underway.
2017	5141760754	Kenilworth Transmission Watermain Renewal	2,400,000	495,652	47,660	1,856,688	22.6%	M. Zantingh / J. Grieci	Ongoing - work in progress. To be tendered Q4 2019 for 2020 construction.
2017	5141761300	WM Replacement Program - 2017	830,000	369,918	-	460,082	44.6%	M. Zantingh / J. Grieci	1 of 3 projects awarded. Burlington Trunkmain Repairs to be tender Q4 2019 with 2020 construction and James and Charlton Intersection rebudgeted in 2024 due to LRT.
2017	5141761777	Beach Trunkmain Rehab	7,300,000	920,744	-	6,379,256	12.6%	M. Zantingh / J. Grieci	Project delayed to Q1 2020 due to water network requirements.
2017	5141770000	Coordinated Road and Subsurface Works - 2017	2,895,000	2,833,308	52,559	9,133	99.7%	M. Oddi / P. McNab	Complete - Close once commitments are paid/cleared
2017	5141771301	WM Replace Program - Coordinated with Roads - 2017	2,815,000	2,508,859	118,959	187,182	93.4%	M. Oddi / P. McNab	2 of 4 projects awarded. Watermain Replacement under CP Tracks at Ferguson on hold pending design review. Remaining project transferred to Waterfront.

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2018	5141811101	Road Restoration Program - 2018	5,400,000	3,087,424	-	2,312,576	57.2%	D. Lamont / B. Waddell	Ongoing - work in progress
2018	5141849555	QA-QC Service Contract - 2018	110,000	99,590	8,087	2,324	97.9%	M. Zantingh / J. Grieci	Ongoing - work in progress
2018	5141855556	Mapping Update - 2018	40,000	6,734	33,000	266	99.3%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2019
2018	5141857626	Critical WM Inspection Program - 2018	330,000	163,527	67,127	99,346	69.9%	M. Zantingh / J. Grieci	Ongoing - work in progress. 2019 budget has been reduced to zero to use up these funds.
2018	5141857627	Fennell Trunkmain Inspection	750,000	117,850	619,000	13,150	98.2%	M. Zantingh / J. Grieci	Ongoing - work in progress
2018	5141857628	Saltfleet Trunkmain Inspection	593,000	219,766	365,030	8,204	98.6%	M. Zantingh / J. Grieci	Ongoing - work in progress. Claim for CWWF funding underway.
2018	5141860072	Structural WM Lining Program - 2018	7,320,000	6,187,283	1,091,749	40,968	99.4%	M. Zantingh / J. Grieci	Ongoing - work in progress
2018	5141860080	Valve Replacement - 2018	1,000,000	896,462	80,382	23,156	97.7%	M. Zantingh / J. Grieci	Ongoing - work in progress
2018	5141860577	Metallic Watermain Condition Assessment Program - 2018	700,000	408,053	274,243	17,704	97.5%	M. Zantingh / J. Grieci	Ongoing - work in progress
2018	5141861300	Wm Replacement Program - 2018	800,000	134,685	-	665,315	16.8%	M. Zantingh / J. Grieci	Mulberry - Bay to James (2019) & Barton - Queen to Locke (2020)
2018	5141870000	Coordinated Road and Subsurface Works - 2018	4,245,000	3,914,684	307,112	23,205	99.5%	M. Oddi / P. McNab	All projects awarded. Construction ongoing for C15-44-18 - Governors Road
2018	5141871074	Contingency for Unscheduled Works Program - 2018	100,000	23,311	-	76,689	23.3%	M. Zantingh / J. Grieci	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5141911101	Road Restoration Program - 2019	5,400,000	1,998,743	3,010,428	390,829	92.8%	D. Lamont / B. Waddell	Ongoing - work in progress. Anticipate completion by Q2 2020
2019	5141949555	QA-QC Service Contract 2019	160,000	35,616	45,258	79,126	50.5%	M. Zantingh / J. Grieci	Ongoing - work in progress
2019	5141955556	Mapping Update - 2019	40,000	5,831	-	34,169	14.6%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2020
2019	5141960072	Structural WM Lining Program - 2019	6,960,000	1,645,516	5,291,036	23,448	99.7%	M. Zantingh / J. Grieci	Ongoing - work in progress
2019	5141960080	Valve Replacement - 2019	1,580,000	533,263	42,771	1,003,966	36.5%	M. Zantingh / J. Grieci	Delayed - project to be tendered in Fall 2019 with 2020 construction.
2019	5141960577	Metallic WM Condition Assess	580,000	84,555	167,580	327,865	43.5%	M. Zantingh / J. Grieci	\$300k being used to WIP fund 2020 Large Valve program.
2019	5141960711	PW Capital Water Consumption Program - 2019	200,000	28,942	-	171,058	14.5%	M. Zantingh / J. Grieci	Ongoing - work in progress. Anticipate completion Q4 2019
2019	5141961341	Pineland-Teal-Community etc	110,000	16,036	-	93,964	14.6%	M. Zantingh / J. Grieci	Construction scheduled for 2020

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2019	5141962073	Field Data Systems Program - 2019	150,000	16,664	96,051	37,286	75.1%	I. Szczepanik	Ongoing - work in progress
2019	5141970002	Baldwin & Court-West to Dundas	190,000	26,241	157,598	6,160	96.8%	M. Oddi	Ongoing - work in progress (C15-25-19)
2019	5141970003	Brampton - Parkdale to Strathearne	780,000	580,238	194,098	5,664	99.3%	M. Oddi	Ongoing - work in progress (C15-36-18)
2019	5141970004	Brucedale - Upper Wentworth to Upper Sherman (Eastmount Nbhd)	780,000	197,661	557,205	25,134	96.8%	M. Oddi	Ongoing - work in progress (C15-59-18)
2019	5141970005	Cheever - Barton to Birge and Birge - Cheever to Wentworth	240,000	34,988	206,066	(1,054)	100.4%	M. Oddi	Ongoing - work in progress (C15-17-18)
2019	5141970007	Haddon - Sterling to Marion	310,000	45,193	-	264,807	14.6%	M. Zantingh / J. Grieci	Project delayed until 2020 to coordinate with Westdale Neighbourhood resurfacing.
2019	5141970008	Hewitson - Dupont to Barton	230,000	45,742	158,024	26,234	88.6%	M. Oddi	Ongoing - work in progress (C15-02-18). \$22k surplus at time of tender.
2019	5141970009	Locke - Herkimer to Main	800,000	348,331	422,104	29,566	96.3%	M. Oddi	Ongoing - work in progress (C15-52-18)
2019	5141970010	Parkdale - Burlington to north end & Steel City Court	1,050,000	261,213	759,489	29,297	97.2%	M. Oddi	Ongoing - work in progress (C15-13-18)
2019	5141970012	Sheaffe / Park / Mulberry (Central Nbhd (North))	910,000	132,664	-	777,336	14.6%	M. Zantingh / J. Grieci	Deferred to 2020 due to combined sewer issues. MacNab rehabilitation to be done stand alone in 2019.
2019	5141971074	Contingency for Unscheduled Works Program - 2019	100,000	14,578	-	85,422	14.6%	M. Zantingh / J. Grieci	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5141971302	Baldwin & Court-West to Dundas	170,000	16,036	151,939	2,024	98.8%	M. Oddi	Ongoing - work in progress (C15-25-19)
2019	5141971303	Brampton - Parkdale to Strathearne	730,000	675,857	55,399	(1,256)	100.2%	M. Oddi	Ongoing - work in progress (C15-36-18)
2019	5141971304	Brucedale - Upper Wentworth to Upper Sherman (Eastmount Nbhd)	1,710,000	876,195	729,552	104,253	93.9%	M. Oddi	Ongoing - work in progress (C15-59-18)
2019	5141971305	Cheever - Barton to Birge and Birge - Cheever to Wentworth	580,000	84,563	487,989	7,448	98.7%	M. Oddi	Ongoing - work in progress (C15-17-18)
2019	5141971306	Ferguson -Simcoe to Burlington	440,000	137,566	296,892	5,543	98.7%	M. Oddi	Ongoing - work in progress (C15-11-19)
2019	5141971307	Haddon - Sterling to Marion	510,000	74,350	-	435,650	14.6%	M. Zantingh / J. Grieci	Project delayed until 2020 to coordinate with Westdale Neighbourhood resurfacing.

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			a	b	c	d	e		
2019	5141971308	Hewitson - Dupont to Barton	370,000	133,409	117,971	118,620	67.9%	M. Oddi	Ongoing - work in progress (C15-02-18). \$116k surplus at time of tender.
2019	5141971309	Locke - Herkimer to Main	2,590,000	1,955,970	665,402	(31,372)	101.2%	M. Oddi	Ongoing - work in progress (C15-52-18)
2019	5141971310	Parkdale - Burlington to north end & Steel City Court	1,422,000	623,677	798,555	(232)	100.0%	M. Oddi	Ongoing - work in progress (C15-13-18)
2019	5141971312	Sheaffe / Park / Mulberry (Central Nbhd (North))	1,050,000	153,074	-	896,926	14.6%	M. Zantingh / J. Grieci	Deferred to 2020 due to combined sewer issues. MacNab rehabilitation to be done stand alone in 2019.
2019	5141971313	LRT Sherman-King to south end	90,000	-	22,000	68,000	24.4%	S. Jacob	Detailed design ongoing. Fall 2019 Tender, with construction in 2020.
2019	5141971314	LRT Wentworth - Wilson to King	90,000	-	4,430	85,570	4.9%	S. Jacob	Detailed design ongoing. Early 2020 Tender, with construction in 2020.
2019	5141971315	LRT Main-Delena to Normanhurst	230,000	-	201,492	28,508	87.6%	S. Jacob	Detailed design ongoing. CIMA+ is the consultant. Early 2020 Tender with construction occurring for possibly 2 years 2020/2021.

Sub-Total Water - Engineering Services **117,448,000** **57,293,813** **18,893,881** **41,260,306** **64.9%**

WasteWater - Engineering Services

2007	5160795757	Centennial Trnk Swr-WW14,WW33	84,200,000	80,492,546	3,204,326	503,128	99.4%	M. Oddi	Ongoing - work in progress. Anticipated completion Fall 2019.
2013	5161395358	Hwy 56 Forcemain&Twinning WW21	27,190,000	18,251,119	434,557	8,504,323	68.7%	M. Oddi	Ongoing - work in progress. Anticipated completion Fall 2019.
2015	5161555077	Zoom Camera Inspection - Data Component	760,000	671,272	82,463	6,265	99.2%	M. Zantingh / H. Krinas	Ongoing - work in progress. To be completed Q4 of 2020
2015	5161560591	Barton St. Trunk Sewer Rehab - Strathearne to Weir	1,236,000	886,620	149,086	200,294	83.8%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2015	5161560999	Closed Projects - WasteWater	119,000	20,092	88,728	10,180	91.4%	M. Oddi / P. McNab	This project is primarily used to hold the contingency lines of purchase orders for several completed works until the maintenance period has expired. This allows for the closure of all the original project ID. % spent is dependent on maintenance required.
2015	5161567563	HC005 - Public Properties	1,040,000	126,459	229,692	683,849	34.2%	M. Zantingh / H. Krinas	Ongoing - work in progress
2015	5161596855	Royal to Main-King CSO (WW-22)	24,880,000	2,442,718	170,684	22,266,598	10.5%	.S Jacob	Project is still in programming.
2016	5161660533	Trenchless Manhole Rehabilitation - 2016	80,000	12,897	62,082	5,021	93.7%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2016	5161662073	Field Data Systems Program - 2016	160,110	96,540	-	63,570	60.3%	I Szczepanik	\$60k being used to WIP fund 2020 program and then this project can be closed.

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			a	b	c	d	e		
2016	5161671074	Contingency for Unscheduled Works Program - 2016	520,000	378,641	126,348	15,010	97.1%	M Zantingh/ Krinas/ McNab	Complete - Close once commitments are paid/cleared
2017	5161718420	Grindstone Creek Utility Bridge	970,000	628,779	255,833	85,388	91.2%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2017	5161760390	Wastewater System Lining Program - 2017	4,500,000	4,500,000	-	-	100.0%	M. Zantingh / H. Krinas	Complete. Claim for CWWF funding underway.
2017	5161760533	Trenchless Manhole Rehabilitation - 2017	80,000	9,367	70,000	633	99.2%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2017	5161760575	Mainline Sewer Condition Assessment Program - 2017	1,330,000	1,330,000	-	-	100.0%	M. Zantingh / H. Krinas	100% complete - CWWF funded
2017	5161768240	Western Interceptor Sewer CCTV and Sonar Inspection	2,460,000	827,568	841,310	791,121	67.8%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161849555	QA-QC Service Contract - 2018	110,000	35,495	56,062	18,444	83.2%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161855556	Mapping Update - 2018	40,000	6,734	33,000	266	99.3%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2019
2018	5161855878	Forcemain Condition Assessment Program - 2018	300,000	111,270	89,778	98,952	67.0%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161860390	Wastewater System Lining Program - 2018	4,582,000	4,582,000	-	-	100.0%	M. Zantingh / H. Krinas	100% complete - CWWF funded
2018	5161860533	Trenchless Manhole Rehabilitation - 2018	40,000	27,568	11,869	564	98.6%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2018	5161860574	Pre-Construction Mainline Condition Assessment	550,000	240,260	303,116	6,625	98.8%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161860575	Mainline Sewer Condition Assessment Program - 2018	1,260,000	539,225	628,747	92,027	92.7%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2018	5161860820	Open Cut Repairs for CIPP Program - 2018	550,000	404,195	1,701	144,104	73.8%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161860830	Windemere Rd Sewer Extension, Municipal Act	980,000	939,360	2,691	37,948	96.1%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161861444	Sewer Lateral Replace/Rehab Program - 2018	4,139,000	4,139,000	-	-	100.0%	M. Zantingh / H. Krinas	Complete. Claim for CWWF funding underway.
2018	5161862850	Eastern Interceptor Repair at the WWTP Aeration Tank	2,800,000	505,603	83,080	2,211,317	21.0%	M. Zantingh / H. Krinas	Ongoing - work in progress. Project delayed due to works at Woodward WWTP. Consulting to be completed in 2019 and Construction to start 2020.

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			a	b	c	d	e		
2018	5161871015	Sewer Lateral Replacement for Co-ordinated Projects - 2018	210,000	147,235	-	62,765	70.1%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5161871074	Contingency for Unscheduled Works Program - 2018	100,000	41,836	55,000	3,164	96.8%	M. Zantingh / H. Krinas / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5161911101	Road Restoration Program - 2019	1,800,000	677,547	943,447	179,006	90.1%	D Lamont/ B Waddell	Ongoing - work in progress. Anticipate completion by Q2 2020
2019	5161949555	QA-QC Service Contract 2019	220,000	42,439	152,493	25,069	88.6%	M Zantingh/ Krinas	Ongoing - work in progress
2019	5161955556	Mapping Update - 2019	40,000	5,831	-	34,169	14.6%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2020
2019	5161955878	Forcemain Condition Assessment Program - 2019	310,000	45,193	-	264,807	14.6%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960390	Wastewater System Lining Program - 2019	4,660,000	2,388,339	1,685,158	586,504	87.4%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960533	Trenchless Manhole Rehabilitation - 2019	80,000	7,663	68,768	3,569	95.5%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960574	Pre-Construction Mainline Condition Assessment	580,000	97,555	-	482,445	16.8%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960575	Mainline Sewer Condition Assessment Program - 2019	790,000	143,090	617,763	29,147	96.3%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960576	Sewer Lateral Condition Assessment - 2019	620,000	220,522	414,813	(15,335)	102.5%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960577	Mainline Sewer Condition Assessment for Compliance & Regs - 2019	120,000	22,686	100,000	(2,686)	102.2%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960711	PW Capital Water Consumption Program - 2019	200,000	28,252	-	171,748	14.1%	M. Zantingh / H. Krinas	Ongoing - work in progress. Anticipate completion Q4 2019
2019	5161960820	Open Cut Repairs for CIPP Program - 2019	580,000	331,483	248,543	(27)	100.0%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161960942	Ancaster Sewage Pipeline Rehab	6,560,000	956,349	5,992,640	(388,989)	105.9%	M. Zantingh / H. Krinas	Cash flow project - 2020 budget will cover this deficit
2019	5161961444	Sewer Lateral Replace/Rehab Program - 2019	3,570,000	2,260,567	1,310,755	(1,323)	100.0%	M. Zantingh / H. Krinas	Ongoing - work in progress

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			a	b	c	d	e		
2019	5161962073	Field Data Systems Program - 2019	110,000	16,036	70,000	23,964	78.2%	I. Szczepanik	Ongoing - work in progress
2019	5161968920	Fennell-Greenhill Drop Shaft	180,000	42,439	132,820	4,742	97.4%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161971015	Sewer Lateral Replacement for Co-ordinated Projects - 2019	430,000	75,580	240,805	113,615	73.6%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5161971074	Contingency for Unscheduled Works Program - 2019	100,000	14,578	46,655	38,767	61.2%	M. Zantingh / H. Krinas / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5161971905	Cheever - Barton to Birge and Birge - Cheever to Wentworth	90,000	13,121	73,645	3,234	96.4%	M. Oddi	Ongoing - work in progress (C15-17-18)
2019	5161971945	Sheaffe / Park / Mulberry (Central Nbhd (North))	2,350,000	393,780	81,465	1,874,755	20.2%	M. Zantingh / H. Krinas	Deferred to 2020 due to combined sewer issues. MacNab rehabilitation to be done stand alone in 2019.

Sub-Total Wastewater - Engineering Services

Storm Sewers - Engineering Services

2012	5181272290	Storm Sewer Upgrades - 2012	7,596,000	7,262,784	226,616	106,600	98.6%	M. Oddi / P. McNab	Ongoing work in progress - outstanding commitment for the replacement of Grade Separation: Bridge 163, Centennial Parkway underpass .
2013	5181372295	SERG - Mount Albion SWMF Rehab	670,000	174,308	5,558	490,134	26.8%	S. Jacob	Project still in programming.
2014	5181460423	SERG - Princess at Birch	90,000	11,172	-	78,828	12.4%	S. Jacob	Some of this work will be incorporated into the PH2 work of Birch from Princess to Burlington. Project is in EA phase and functional should start mid 2020.
2015	5181555077	Zoom Camera Inspection - Data Component	760,000	353,453	293,999	112,548	85.2%	M. Zantingh / H. Krinas	Ongoing - work in progress
2015	5181560591	Barton St. Trunk Sewer Rehab - Strathearn to Weir	1,290,000	936,709	140,053	213,239	83.5%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2015	5181560999	Closed Projects - Storm	118,000	26,288	83,377	8,335	92.9%	M. Oddi / P. McNab	Complete - Close once commitments are paid/cleared.
2015	5181572291	Barton & Hamilton St, Waterdown Storm Sewer Upgrade	530,000	317,747	-	212,253	60.0%	M. Zantingh / H. Krinas	\$210k be used to WIP fund 2020 program and then this project can be closed.
2016	5181660533	Trenchless Manhole Rehabilitation - 2016	80,000	38,955	40,111	934	98.8%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2016	5181672074	Contingency for Unscheduled Works Program - 2016	150,000	35,370	26,345	88,286	41.1%	M. Zantingh / H. Krinas / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.

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2016	5181672259	SERG - Gage Park Pond	2,213,000	2,065,164	151,621	(3,785)	100.2%	M Oddi	Complete - pending final review/audit/payment
2016	5181672650	West Mtn Sewers - Juggernaut	12,966,000	10,550,803	2,390,044	25,153	99.8%	M. Zantingh / H. Krinas	Ongoing - work in progress. To be complete by Q3 2019
2017	5181760533	Trenchless Manhole Rehabilitation - 2017	80,000	9,367	70,000	633	99.2%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2018	5181849555	QA-QC Service Contract - 2018	86,000	46,068	20,322	19,610	77.2%	M. Zantingh / H. Krinas	Ongoing - work in progress
2018	5181855556	Mapping Update - 2018	40,000	6,734	33,000	266	99.3%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2019
2018	5181860533	Trenchless Manhole Rehabilitation - 2018	40,000	4,134	35,290	576	98.6%	M. Zantingh / H. Krinas	Complete - Close once commitments are paid/cleared
2018	5181860999	Closed Projects - Storm	90,000	-	85,918	4,082	95.5%	M. Oddi / P. McNab	This project is primarily used to hold the contingency lines of purchase orders for several completed works until the maintenance period has expired. This allows for the closure of all the original project ID. % spent is dependent on maintenance required.
2018	5181872074	Contingency for Unscheduled Works Program - 2018	100,000	16,836	42,000	41,164	58.8%	M. Zantingh / H. Krinas / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5181949555	QA-QC Service Contract 2019	160,000	24,301	122,414	13,284	91.7%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5181955556	Mapping Update - 2019	40,000	5,831	-	34,169	14.6%	D. Lamont / C. Lauricella	Ongoing - work in progress. Anticipate completion by year end 2020
2019	5181960533	Trenchless Manhole Rehabilitation - 2019	80,000	10,663	68,768	569	99.3%	M. Zantingh / H. Krinas	Ongoing - work in progress
2019	5181962073	Field Data Systems Program - 2019	110,000	32,044	16,835	61,121	44.4%	I. Szczepanik	Ongoing - work in progress
2019	5181972074	Contingency for Unscheduled Works Program - 2019	120,000	17,494	-	102,506	14.6%	M. Zantingh / H. Krinas / P. McNab	% spent dependent on # of unscheduled works. Future budgets on hold pending depletion of these funds.
2019	5181972290	Hewitson - Dupont to Barton	520,000	231,835	249,980	38,185	92.7%	M. Zantingh / H. Krinas	Contract C15-02-18 awarded to Wesroc. \$33k surplus at time of tender.
2019	5181972291	Haddon - Sterling to Marion	300,000	43,735	-	256,265	14.6%	M. Zantingh / H. Krinas	Project delayed until 2020 to coordinate with Westdale Neighbourhood resurfacing.
2019	5181972292	Baldwin & Court-West to Dundas	290,000	42,278	95,273	152,450	47.4%	M. Zantingh / H. Krinas	Contract C15-25-19 awarded for construction in 2019. \$150k surplus at time of tender.
2019	5181972940	Evans Road Culvert Twinning	170,000	-	100,900	69,100	59.4%	M. Zantingh / H. Krinas	Ongoing - work in progress
<u>Sub-Total Storm Sewers - Engineering Services</u>			28,689,000	22,264,074	4,298,424	2,126,502	92.6%		
<u>TOTAL WATER, WASTEWATER & STORM SEWERS</u>			334,713,110	209,735,339	42,352,227	82,625,544	75.3%		

WATER WASTEWATER & STORM SEWERS OPERATIONS SECTION

Water - Operations

<u>Sub-Total - Hamilton Water - Operations</u>	15,942,000	5,754,738	5,761,568	4,425,694	72.2%
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2014	5161469076	BCOS-Beyond Compliance OP Sys	243,000	105,159	-	137,841	43.3%	Vanderperk/ Girt	This project relates to the BCOS software upgrade and DWQMS maintenance. The monies will be spent 2019/2020.
2015	5161567565	HC005 Montgomery Drive - Inline Storage	2,170,000	2,065,820	26,482	77,697	96.4%	S. MacPherson-Nemeth	Ongoing flow monitoring and using Mike Urban Model to ensure the new inline storage pipe is capturing the required wet weather flows. Completion Q4 2019.
2016	5161669075	Environmental Lab Improvements - 2016	345,000	221,317	97,672	26,012	92.5%	C. Vanderperk / R. Eszes	Close PO 88493. Part of HVAC upgrade. Do not close.

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2017	5161755422	Sewer Use Bylaw Enforcement Infor Upgrade	80,000	30,402	20,870	28,728	64.1%	C. Vanderperk / D. Saunders	Anticipate 100 % spend by year end 2019

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			a	b	c	d	e		
2017	5161760302	Emergency Repairs - Cross Connections - 2017	1,000,000	660,521	317,412	22,067	97.8%	D. Alberton / D. Young	Ongoing - work in progress. This account funds the investigation and correction of sewer lateral cross connections. Funds committed to a P.O. which will be spent by December 31, 2019
2017	5161766423	Sewer Use Bylaw 14-090 Parameter Limit Review	300,000	114,649	-	185,351	38.2%	C. Vanderperk / D. Saunders	Another 32,000 will be spent for Rate Review (Mark Stirrup). 150,000 remaining to be spent in 2020.
2017	5161769075	Environmental Lab Improvements - 2017	250,000	-	34,860	215,140	13.9%	C. Vanderperk / R. Eszes	Anticipate 100% spent by year end 2019.
2018	5161860302	Emergency Repairs - Cross Connections - 2018	500,000	302,188	183,039	14,773	97.0%	D. Alberton / D. Young	Ongoing - work in progress. This account funds the investigation and correction of sewer lateral cross connections. 97% of funds now committed to a P.O.
2018	5161860522	Sewer Lateral Management Program (WWC) - 2018	4,500,000	4,228,590	310,721	(39,311)	100.9%	D. Alberton / D. Young	Ongoing 2019 work. This remaining amount is now fully committed to a P.O.
2018	5161861740	Unscheduled Manhole & Sewermain - 2018	320,000	275,676	44,093	231	99.9%	D. Alberton / D. Young	Ongoing - work in progress. Will be fully spent by August 2019
2018	5161869075	Environmental Lab Improvements - 2018	200,000	-	-	200,000	0.0%	C. Vanderperk / R. Eszes	Anticipate 100% spent by year end 2019, pending purchasing staff schedule
2019	5161960302	Emergency Repairs - Cross Connections - 2019	750,000	-	290,000	460,000	38.7%	D. Alberton / D. Young	Ongoing - Work in progress - his account funds the investigation and correction of sewer lateral cross connections.
2019	5161960522	Sewer Lateral Management Program (WWC) - 2019	4,500,000	141,080	2,000,000	2,358,920	47.6%	D. Alberton / D. Young	Ongoing Work in Progress
2019	5161961740	Unscheduled Manhole & Sewermain - 2019	400,000	-	127,000	273,000	31.8%	D. Alberton / D. Young	Ongoing - Work in Progress - To be fully committed to a P.O. by Aug 1,2019
2019	5161969075	Environmental Lab Improvements - 2019	200,000	-	-	200,000	0.0%	C. Vanderperk / R. Eszes	Anticipate 100% spent by year end 2019, pending HVAC upgrade construction schedule
<u>Sub-Total - Hamilton WasteWater - Operations</u>			15,758,000	8,145,401	3,452,149	4,160,450	73.6%		

Storm Sewers - Hamilton Water

2014	5181460452	Shoreline Protection Program	1,310,000	259,741	149,706	900,552	31.3%	N. Winters / R. Moore	Ongoing - work in progress - construction tender closed. Construction Q3/Q4 2019
2014	5181460461	Forty Mile Municipal Drain	100,000	91,363	-	8,637	91.4%	N. Winters / R. Moore	Request for invoice processing with finance re cost sharing.
2014	5181460722	Municipal Drain Program - 2014/15	139,000	33,264	-	105,736	23.9%	N. Winters / R. Moore	CLOSE NEXT BER
2015	5181510501	Mathers Drive Bank Erosion Control and Slope Stabilization	1,100,000	293,855	521,251	284,894	74.1%	N. Winters / R. Moore	Construction Works Complete. Monitoring work to commence until 2022.

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a			b		c	d	e		
2017	5181755740	Flushables Research Study	75,000	67,599	8,570	(1,169)	101.6%	J. Wagner	Cole Engineering p.o. to remain active until Q4 2019.
2017	5181761740	Unscheduled Manhole & Sewermain - 2017	100,000	74,399	21,888	3,713	96.3%	D. Alberton / D. Young	These funds are for the Emergency Sewer Repair contract and will be fully spent/committed by August 2019.
2017	5181774730	Centre Road Drainage Improvement	100,000	-	100,000	-	100.0%	N. Winters / R. Moore	Construction Q3 2019
2018	5181860622	SWM Facility Maintenance Program - 2018	1,200,000	349,958	789,183	60,858	94.9%	N. Winters / R. Moore	Ongoing - work in progress
2018	5181860722	Municipal Drain Program - 2018	280,000	129,221	51,160	99,619	64.4%	N. Winters / R. Moore	Ongoing - work in progress
2018	5181861740	Unscheduled Manhole & Sewermain - 2018	30,000	-	28,000	2,000	93.3%	D. Alberton / D. Young	These funds are for the Emergency Sewer Repair contract and will be fully spent/committed by August 2019.
2018	5181874840	Sydenham Interceptor Swale Re-construction	260,000	-	-	260,000	0.0%	N. Winters / R. Moore	Re-evaluating project needs, monitoring site condition.
2018	5181817152	Cross Road Culvert Program - 2018	1,380,000	275,646	194,784	909,570	34.1%	E. Soldo / M. Pastuszok	Project delayed due to poor performance of the contractor. Centre Rd to be complete by Q3 2019. Delay in getting design report has pushed out Old Guelph Rd.
2018	5181817458	Catch Basin Replacement/Rehabilitation Program - 2018	590,000	462,213	127,255	532	99.9%	E. Soldo / G. Berenyi	Ongoing - work in progress
2019	5181917152	Cross Road Culvert Program - 2019	1,390,000	9,368	488,557	892,075	35.8%	E. Soldo / M. Pastuszok	Delay with tender release due to restructure, due to delay project timelines limited. Projected not all funds to be spent in 2019.
2019	5181917458	Catch Basin Replacement/Rehabilitation Program - 2019	770,000	115,609	199,282	455,109	40.9%	E. Soldo / G. Berenyi	Ongoing - work in progress
2019	5181917549	Concrete Box Culvert Rehabilitation/Repair (< 3.0m span) - 2019	620,000	-	-	620,000	0.0%	E. Soldo / M. Pastuszok	Contract delayed, work to commence Q3 2019.
2018	5181874841	Lower Davis Creek - Flood Control Facility	550,000	43,076	55,083	451,842	17.8%	N. Winters / R. Moore	Ongoing - work in progress - design and tender preparation in progress. 75% Design Complete.
2019	5181960622	SWM Facility Maintenance Program - 2019	1,200,000	74,826	1,100,100	25,074	97.9%	N. Winters / R. Moore	Ongoing - work in progress
2019	5181960722	Municipal Drain Program - 2019	100,000	-	-	100,000	0.0%	N. Winters / R. Moore	Ongoing - work in progress
2019	5181961740	Unscheduled Manhole & Sewermain - 2019	60,000	-	-	60,000	0.0%	D. Alberton / D. Young	Ongoing - Work in Progress - To be fully spent by Aug 1,2020
2019	5181974950	Watercourse & Drainage Mtn	580,000	-	-	580,000	0.0%	N. Winters / R. Moore	Ongoing - work in progress
2019	5181974951	Shoreline Protection Program	350,000	-	-	350,000	0.0%	N. Winters / R. Moore	Ongoing - work in progress
<i>Sub-Total - Hamilton Storm Sewers - Roads O&M</i>			12,284,000	2,280,138	3,834,820	6,169,042	49.8%		

City of Hamilton Capital Projects Status Report - Public Works Rate Supported Projects
As of June 30, 2019

YEAR APPROVED	PROJECT ID	DESCRIPTION	APPROVED BUDGET (\$)	ACTUAL EXPENDITURES (\$)	PO COMMITMENTS (\$)	AVAILABLE BALANCE (\$) d = a - b - c	% COMPLETE e = (b+c) / a	Project Manager	STATUS EXPLANATION as of June 30, 2019
			a	b	c	d	e		

<u>TOTAL WATER, WASTEWATER & STORM SEWERS -</u>	<u>43,984,000</u>	<u>16,180,278</u>	<u>13,048,537</u>	<u>14,755,185</u>	<u>66.5%</u>
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Total Public Works - Rate Supported			<u>902,067,210</u>	<u>440,955,524</u>	<u>229,654,656</u>	<u>231,457,029</u>	<u>74.3%</u>		
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