

WATER SYSTEM

2017 CAPITAL BUDGET PROJECT LIST

(000's)

City Ward	Project Number	Project Description	Gross Costs	Grants & Subsidies	Other External Revenues	Net Costs	Financing Sources							
							Dev Charges	Reserves	WIP Reserves	Other Internal Revenues	Funding Required	From Operating	Debt Own	WIP Debt
Rehabilitation, Replacement & Upgrade Projects (SAM)														
City Wide	4031755522	State of the Infrastructure - Asset Management	100	-	-	100	-	-	-	-	100	100	-	-
City Wide	5141455425	Prestressed Concrete Cylinder Pipe Condition Assessment Inspection	500	281	-	219	-	-	-	-	219	219	-	-
City Wide	5141555555	Ctiy Wide Groundwater Model	80	-	-	80	-	-	-	-	80	80	-	-
14, 15	5141667423	Freelton Well (FDF01) Capacity Increase	220	-	-	220	-	-	-	-	220	220	-	-
City Wide	5141711101	Road Restoration Program	5,400	-	-	5,400	-	-	-	-	5,400	5,400	-	-
City Wide	5141749555	QA-QC Service Contract Program	110	-	-	110	-	-	-	-	110	110	-	-
City Wide	5141751710	Fleet Additions	560	-	-	560	-	-	-	-	560	560	-	-
City Wide	5141755851	Water Efficiency Plan/Program	200	-	-	200	-	-	-	22	178	178	-	-
City Wide	5141757626	Critical Watermain Inspection Program	330	225	-	105	-	-	-	-	105	105	-	-
City Wide	5141757628	Mountain Feedermain	340	-	-	340	-	-	-	40	300	300	-	-
City Wide	5141757750	Carlisle AMR/AMI Pilot Project	250	-	-	250	-	-	-	150	100	100	-	-
City Wide	5141760080	Valve Replacement Program	1,600	-	-	1,600	-	-	-	-	1,600	1,600	-	-
City Wide	5141760577	Metallic Watermain Condition Assessment Program	700	450	-	250	-	-	-	-	250	250	-	-
City Wide	5141760711	PW Capital Water Consumption Program	200	-	-	200	-	-	-	-	200	200	-	-
City Wide	5141760750	Unscheduled Valve, Hydrant, Watermain & Misc Water Replace Program	1,000	-	-	1,000	-	-	-	-	1,000	1,000	-	-
City Wide	5141760754	Kenilworth Transmission Watermain Renewal	200	-	-	200	-	-	-	-	200	200	-	-
3	5141761300	Burlington Trunkmain Repairs	450	-	-	450	-	-	-	100	350	350	-	-
2	5141761300	James and Charlton Intersection	1,000	-	-	1,000	-	-	-	600	400	400	-	-
5	5141761300	Woodward Greenhill Transmission Main Pipeline repair on Summercrest	180	-	-	180	-	-	-	-	180	180	-	-
City Wide	5141761502	Water Meter - Installation/Replacement/Repair - General Maintenance	2,100	-	-	2,100	-	-	-	360	1,740	1,740	-	-
City Wide	5141761777	Beach Trunkmain Rehab	5,000	-	-	5,000	-	-	-	-	5,000	5,000	-	-
City Wide	5141762078	Substandard Water Service Replacement Program	4,000	-	-	4,000	-	-	-	-	4,000	4,000	-	-
City Wide	5141763757	City of Hamilton Bulk Water Fill Stations Upgrade	80	-	-	80	-	-	-	80	-	-	-	-
City Wide	5141766421	Woodward WTP Fluoride Building HVAC	390	-	-	390	-	-	-	-	390	390	-	-
City Wide	5141771074	Contingency for Unscheduled Works Program	200	-	-	200	-	-	-	-	200	200	-	-
Sub-Total Rehabilitation, Replacement & Upgrade Projects (SAM)			25,190	956	-	24,234	-	-	-	1,352	22,882	22,882	-	-

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Projects Coordinated with Roads Program (SAM)															
	11	5141671301	McNeilly - Highway 8 to South End	660	-	-	660	-	-	-	-	660	660	-	-
	7	5141671301	Upper Sherman - Rymal to Stone Church	1,650	-	-	1,650	-	-	-	-	1,650	1,650	-	-
City Wide		5141770000	Coordinated Road and Subsurface Works	3,000	-	-	3,000	-	-	-	-	3,000	3,000	-	-
	8	5141771301	Sanatorium / Westaway / W17th / W18th (Buchanan Neighbourhood)	1,200	-	-	1,200	-	-	-	-	1,200	1,200	-	-
	2	5141771301	Sheaffe / Cannon (local road section) / Caroline / Railway	100	-	-	100	-	-	-	-	100	100	-	-
	2	5141771301	Watermain Replacement under CP Tracks at Ferguson	50	-	-	50	-	-	-	-	50	50	-	-
	12	5141771301	Wilson - Hamilton to Seminole	850	-	-	850	-	-	-	-	850	850	-	-
Sub-Total Projects Coordinated with Roads Program (SAM)				7,510	-	-	7,510	-	-	-	-	7,510	7,510	-	-
Treatment Plant\Outstation Projects (SAM)															
	4	5141166110	Water Treatment Plant - Process Upgrades - CASH FLOWED	4,150	-	-	4,150	337	-	-	-	3,813	3,813	-	-
	4	5141267274	Kenilworth Pumping Station (HD005) - Phase 2	300	-	-	300	-	-	-	-	300	300	-	-
	1	5141567273	Main / Whitney Pumping Station Replacement and Decommissioning	550	-	-	550	-	-	-	-	550	550	-	-
	4	5141567574	HDR01 Kenilworth Reservoir	440	-	-	440	-	-	-	-	440	440	-	-
	4	5141567575	High Lift Pumping Station (HLPS) Improvements - Phase 2	220	-	-	220	-	-	-	-	220	220	-	-
City Wide		5141567577	Security System Upgrades - High Priority Water Pumping Station Facilities	4,980	-	-	4,980	-	-	-	-	4,980	4,980	-	-
	14	5141666608	Lynden Additional Water Supply	2,860	1,950	-	910	-	-	-	-	910	910	-	-
	10	5141667420	Ben Nevis & Dewitt (HD08A) Water Pumping Station Upgrades	1,360	900	-	460	-	-	-	-	460	460	-	-
	12	5141667421	Glancaster Rd & Hwy 53 Pumping Station (HD018) Upgrades	4,400	-	-	4,400	-	-	-	-	4,400	4,400	-	-
	13	5141667422	Osler Road Pumping Station (HD011) Upgrades	1,820	1,125	-	695	-	-	-	-	695	695	-	-
	14	5141667424	Freelton Tower HDT03 Upgrades	2,000	1,069	-	931	-	-	-	-	931	931	-	-
City Wide		5141766711	Water Treatment Studies Program	250	-	-	250	-	-	-	250	-	-	-	-
City Wide		5141766713	Water Maintenance Capital Program	2,500	-	-	2,500	-	-	-	950	1,550	1,550	-	-
	15	5141767420	Carlisle Well Stations System Enhancements	440	-	-	440	-	-	-	-	440	440	-	-
	14	5141767650	New Greensville Communal Well	390	-	-	390	-	-	-	-	390	390	-	-
City Wide		5141767752	Water Outstation Inspections - Asset Management	550	-	-	550	-	-	-	-	550	550	-	-
Sub-Total Treatment Plant\Outstation Projects (SAM)				27,210	5,044	-	22,166	337	-	-	1,200	20,629	20,629	-	-

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<u>Treatment Plant\Outstation Projects (WQI)</u>														
City Wide	5141666110	Water Treatment Plant - Corrosion Control	3,390	2,310	-	1,080	-	-	-	-	1,080	1,080	-	-
Sub-Total Treatment Plant\Outstation Projects (WQI)			3,390	2,310	-	1,080	-	-	-	-	1,080	1,080	-	-
<u>Master Plans</u>														
12	5141395354	PD18 (Ancaster) Elevated Reservoir (W-14) - CASH FLOWED	450	-	-	450	225	-	-	-	225	225	-	-
5, 9	5141595558	Centennial Parkway Trunk W/M Extension - Valve Chamber #3	6,790	-	-	6,790	6,790	-	-	-	-	-	-	-
6, 9	5141596550	Stone Church Feedermain(W-24)	11,000	-	-	11,000	11,000	-	-	-	-	-	-	-
13	5141695883	PS HD016 Capacity Upgrade, Standby Power & Building	3,040	-	-	3,040	2,738	-	-	-	302	302	-	-
City Wide	5141755010	Water Systems Planning Program	300	-	-	300	-	-	-	-	300	300	-	-
5	5141795850	Greenhill PS HD04B & HD05A Upgrades (W-28) - CASH FLOWED	720	-	-	720	276	-	-	-	444	444	-	-
13, 15	5141796752	PD16 (Waterdown) Trunk Feedermain - PS HD016 (York & Valley Roads)	1,250	-	-	1,250	938	-	-	-	312	312	-	-
Sub-Total Master Plans			23,550	-	-	23,550	21,967	-	-	-	1,583	1,583	-	-
<u>Development/Extension Projects</u>														
15	5141297282	Waterdown South Elevation Water Storage - New PD (W-07)	1,100	-	-	1,100	926	-	-	-	174	174	-	-
City Wide	5141796011	Intensification Infrastructure Upgrades Program - Water	400	-	-	400	200	-	-	-	200	200	-	-
Sub-Total Development/Extension Projects			1,500	-	-	1,500	1,126	-	-	-	374	374	-	-
<u>Coordinated - Network Extension Projects</u>														
2	5141661300	Central Park	180	-	-	180	-	-	-	-	180	180	-	-
7	5141771740	Upper Sherman - Rymal to Stone Church - Trunk Watermain	1,590	-	-	1,590	950	-	-	-	640	640	-	-
6	5141780785	RHBP - Dartnall - Stone Church to Rymal	580	-	-	580	500	-	-	-	80	80	-	-
Sub-Total Coordinated - Network Extension Projects			2,350	-	-	2,350	1,450	-	-	-	900	900	-	-
<u>Haldimand-Norfolk Projects</u>														
11	5141664632	Twenty - 40m East of Greti to Upper James	1,400	-	-	1,400	1,400	-	-	-	-	-	-	-
Sub-Total Haldimand-Norfolk Projects			1,400	-	-	1,400	1,400	-	-	-	-	-	-	-

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<u>Pumping Station</u>														
2	5141767422	New PD2 Water Pumping Station	500	-	-	500	-	-	-	-	500	500	-	-
Sub-Total Pumping Station			500	-	-	500	-	-	-	-	500	500	-	-
<u>Water Quality Initiatives (WQI)</u>														
4	5141766150	GAC Replacement	550	-	-	550	-	-	-	-	550	550		
Sub-Total Water Quality Initiatives (WQI)			550	-	-	550	-	-	-	-	550	550	-	-
<u>Watermain Lining</u>														
City Wide	5141760072	Watermain Structural Lining	6,700	3,938	-	2,763	-	-	-	-	2,763	2,763		
Sub-Total Watermain Lining			6,700	3,938	-	2,763	-	-	-	-	2,763	2,763	-	-
<u>Total Water System</u>														
			99,850	12,248	-	87,603	26,280	-	-	2,552	58,771	58,771	-	-