

BUDGET 2010 *Ottawa*



Draft

Operating and Capital Budget

Rate Supported Programs

Tabled February 9, 2010

ottawa.ca

City
services **3-1-1**
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2010 Budget
Drinking Water and Waste Water Services

Operating Summary

City of Ottawa
Operating Budget - Drinking Water & Wastewater Summary
 In Thousands (\$000)

	2008	2009		2010	Change Over	
	Actual	Actual	Budget	Estimate	2009 Budget	2008 Actual
Operations - Program Revenue						
Drinking Water Services	(2,005)	(1,907)	(2,044)	(2,088)	(44)	(83)
Wastewater Services	(2,411)	(2,594)	(2,623)	(1,893)	730	518
	(4,416)	(4,501)	(4,667)	(3,981)	686	435
Non Departmental - Revenue						
Water Billings	(95,297)	(109,300)	(117,506)	(110,110)	7,396	(14,813)
Fire Supply Charges	(8,067)	(8,236)	(7,803)	(7,803)	-	264
Sewer Surcharge	(105,060)	(107,546)	(115,934)	(120,041)	(4,107)	(14,981)
Local Improvement	(757)	(553)	(800)	(800)	-	(43)
Investment Income	(3,054)	(1,856)	(2,700)	(1,500)	1,200	1,554
Miscellaneous	(371)	(430)	(484)	(484)	-	(113)
	(212,606)	(227,921)	(245,227)	(240,738)	4,489	(28,132)
Total Revenue	(217,022)	(232,422)	(249,894)	(244,719)	5,175	(27,697)
Program & Service Expenditure						
Drinking Water Services	42,091	46,278	47,658	51,230	3,572	9,139
Wastewater Services	39,467	40,575	39,559	43,991	4,432	4,524
	81,558	86,853	87,217	95,221	8,004	13,663
Contribution to Capital Reserves						
Drinking Water Services	46,377	59,942	59,942	49,083	(10,859)	2,706
Wastewater Services	36,986	44,997	44,997	42,194	(2,803)	5,208
	83,363	104,939	104,939	91,277	(13,662)	7,914
Debt Charges						
Drinking Water Services	3,408	6,080	6,726	6,349	(377)	2,941
Wastewater Services	10,942	10,417	10,423	10,413	(10)	(529)
	14,350	16,497	17,149	16,762	(387)	2,412
Administration and Cost Transfers						
Drinking Water Services	14,352	14,192	14,211	14,523	312	171
Wastewater Services	26,692	26,697	26,378	26,936	558	244
	41,044	40,889	40,589	41,459	870	415
Total Expenditure	220,315	249,178	249,894	244,719	(5,175)	24,404
Total Rate Program - Surplus / (Deficit)	(3,293)	(16,756)	-	-	-	3,293
Full Time Equivalents (FTE's)	558.94	599.77	599.77	640.75	40.98	81.81

City of Ottawa

Drinking Water & Wastewater Budget Changes - Operating Revenue

In Thousands (\$000)

	2009 Baseline			2010 Adjustments						2010	\$ Change Over '09 Budget
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	New Services/ Needs	Efficiencies	User Fees & Charges	Estimate	
Drinking Water Services	(120,913)	(128,537)	7,700	-	-	-	(36)	-	(312)	(121,185)	7,352
Wastewater Services	(111,509)	(121,357)	9,440	-	-	-	-	-	(11,617)	(123,534)	(2,177)
Total	(232,422)	(249,894)	17,140	-	-	-	(36)	-	(11,929)	(244,719)	5,175
Percent of 2009 Revenue Budget			-6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	4.8%	-2.1%	

City of Ottawa
Drinking Water & Wastewater Budget Changes - Operating Expenditure

In Thousands (\$000)

Net of Recoveries and After Inter-departmental Allocations

	2009 Baseline			2010 Adjustments					2010	\$ Change Over '09 Budget	% Exp on Wages
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	New Services / Needs	Efficiencies	Estimate		
Drinking Water Services	126,492	128,537	(7,704)	(154)	205	46	255	-	121,185	(7,352)	21.5%
Wastewater Services	122,686	121,357	(7,813)	7,625	540	330	1,495	-	123,534	2,177	14.2%
Total	249,178	249,894	(15,517)	7,471	745	376	1,750	-	244,719	(5,175)	
Percent of 2009 Expenditure Budget			-6.2%	3.0%	0.3%	0.2%	0.7%	0.0%	4.1%		

City of Ottawa

Drinking Water & Wastewater Budget Changes - Net Operating Requirement

In Thousands (\$000)

Net of Revenues, Recoveries and After Inter-departmental Allocations

	2009 Baseline			2010 Net Adjustments						2010	% Change Over '09 Budget
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	New Services / Needs	Efficiencies	User Fees & Charges	Estimate	
Drinking Water Services	5,579	-	(4)	(154)	205	46	219	-	(312)	-	0.00
Wastewater Services	11,177	-	1,627	7,625	540	330	1,495	-	(11,617)	-	0.0%
Total	16,756	-	1,623	7,471	745	376	1,714	-	(11,929)	-	0.0%
Percent of 2009 Net Requirement Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

City of Ottawa

Drinking Water & Wastewater Operating Expenditures - Summary by Category

In Thousands (\$000)

	2008	2009		2010	Change Over		2010 % of Total
	Actual	Actual	Budget	Estimate	2009	2008	
Expenditure by Type							
Compensation & Benefits	39,093	41,135	43,889	47,789	3,900	8,696	18.9%
Materials & Services	33,332	37,074	38,203	41,445	3,242	8,113	16.4%
Transfers/Grants/FC	101,641	124,840	125,186	111,934	(13,252)	10,293	44.4%
Fleet & Facility Costs	5,571	6,702	7,103	7,712	609	2,141	3.1%
Financial & other	46,065	46,606	43,458	43,425	(33)	(2,640)	17.2%
Gross Expenditure	225,702	256,357	257,839	252,305	(5,534)	26,603	100.0%
Recoveries & Allocations	(5,387)	(7,179)	(7,945)	(7,586)	359	(2,199)	-3.0%
Net Expenditure	220,315	249,178	249,894	244,719	(5,175)	24,404	97.0%
Revenue by Type							
Provincial	(177)	(180)	(145)	(145)	-	32	-0.1%
Fees & Services	(216,844)	(232,242)	(249,749)	(244,574)	5,175	(27,730)	-96.9%
Total Revenue	(217,021)	(232,422)	(249,894)	(244,719)	5,175	(27,698)	-97.0%

Drinking Water Services

Operating Requirements

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement
In Thousands (\$000)

Operating Resource Requirement	2008	2009		2010	Change Over	
	Actual	Actual	Budget	Estimate	2009 Budget	2008 Actual
<u>Expenditures by Program</u>						
General Manager's Office	348	266	249	258	9	(90)
Manager's Office	1,156	1,262	1,353	1,386	33	230
Water Production	18,333	21,081	21,823	23,152	1,329	4,819
Water Quality Assurance	1,582	1,771	1,718	1,892	174	310
Water Distribution & Cost Recovery	16,116	16,227	16,003	16,984	981	868
Customer Serv, Strategic & Envir Prog	8,800	9,806	11,024	12,206	1,182	3,406
Non Departmental	64,203	80,459	80,879	69,955	(10,924)	5,752
Productivity Improvements	-	-	-	-	-	-
Gross Expenditure	110,538	130,872	133,049	125,833	(7,258)	15,156
Recoveries & Allocations	(4,310)	(4,380)	(4,512)	(4,648)	(136)	(338)
Net Expenditure	106,228	126,492	128,537	121,185	(7,394)	14,818
<u>Expenditures by Type</u>						
Salaries, Wages & Benefits	22,909	24,015	25,236	27,049	1,813	4,140
Overtime	1,284	1,513	1,440	1,440	-	156
Material & Services	13,579	14,914	15,052	16,765	1,713	3,186
Transfers/Grants/Financial Charges	51,786	68,156	68,541	57,617	(10,924)	5,831
Fleet Costs	2,476	3,506	3,513	3,995	482	1,519
Program Facility Costs	1,363	1,274	1,463	1,463	-	100
Other Internal Costs	17,141	17,494	17,804	17,504	(300)	363
Gross Expenditures	110,538	130,872	133,049	125,833	(7,216)	15,295
Recoveries & Allocations	(4,310)	(4,380)	(4,512)	(4,648)	(136)	(338)
Net Expenditure	106,228	126,492	128,537	121,185	(7,352)	14,957
<u>Revenues By Type</u>						
Federal	-	-	-	-	-	-
Provincial	-	-	-	-	-	-
Municipal	-	-	-	-	-	-
Own Funds	-	-	-	-	-	-
Fees and Services	(106,637)	(120,913)	(128,537)	(121,185)	7,352	(14,548)
Fines	-	-	-	-	-	-
Other	-	-	-	-	-	-
Total Revenue	(106,637)	(120,913)	(128,537)	(121,185)	7,352	(14,548)
Net Requirement	(409)	5,579	-	-	-	409
Full Time Equivalent	346.45	-	370.45	382.43	11.98	35.98

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement Analysis
 In Thousands (\$000)

Operating Resource Requirement Analysis	2009 Baseline			2010 Adjustments						2010	\$ Change Over '09 Budget	% of Exp. on Comp./ Benefits
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	New Services / Needs	Efficiencies	User Fees & Charges	Estimate		
Expenditures by Program												
General Manager's Office	266	249	2	7	-	-	-	-	-	258	9	86.0%
Manager's Office	1,262	1,353	3	30	-	-	-	-	-	1,386	33	43.1%
Water Production	21,081	21,823	(234)	1,428	96	-	39	-	-	23,152	1,329	29.5%
Water Quality Assurance	1,771	1,718	30	144	-	-	-	-	-	1,892	174	51.3%
Water Distribution & Cost Recovery	16,227	16,003	115	757	109	-	-	-	-	16,984	981	67.9%
Customer Serv, Strategic & Envir Prog	9,806	11,024	80	736	-	46	320	-	-	12,206	1,182	68.2%
Non Departmental	80,459	80,879	(7,700)	(3,224)	-	-	-	-	-	69,955	(10,924)	0.0%
Productivity Improvements	-	-	-	-	-	-	-	-	-	-	-	0.0%
Gross Expenditure	130,872	133,049	(7,704)	(122)	205	46	359	-	-	125,833	(7,216)	22.6%
Recoveries & Allocations	(4,380)	(4,512)	-	(32)	-	-	(104)	-	-	(4,648)	(136)	
Net Expenditure	126,492	128,537	(7,704)	(154)	205	46	255	-	-	121,185	(7,352)	
Percent of 2009 Net Expenditure Budget			-6.0%	-0.1%	0.2%	0.0%	0.2%	0.0%	0.0%	-5.7%		
Expenditures by Type												
Salaries, Wages & Benefits	24,015	25,236	296	1,176	96	46	199	-	-	27,049	1,813	
Overtime	1,513	1,440	-	-	-	-	-	-	-	1,440	-	
Material & Services	14,914	15,052	-	1,478	109	-	126	-	-	16,765	1,713	
Transfers/Grants/Financial Charges	68,156	68,541	(7,700)	(3,224)	-	-	-	-	-	57,617	(10,924)	
Fleet Costs	3,506	3,513	-	448	-	-	34	-	-	3,995	482	
Program Facility Costs	1,274	1,463	-	-	-	-	-	-	-	1,463	-	
Other Internal Costs	17,494	17,804	(300)	-	-	-	-	-	-	17,504	(300)	
Gross Expenditures	130,872	133,049	(7,704)	(122)	205	46	359	-	-	125,833	(7,216)	
Recoveries & Allocations	(4,380)	(4,512)	-	(32)	-	-	(104)	-	-	(4,648)	(136)	
Net Expenditure	126,492	128,537	(7,704)	(154)	205	46	255	-	-	121,185	(7,352)	
Revenues By Type												
Federal	-	-	-	-	-	-	-	-	-	-	-	
Provincial	-	-	-	-	-	-	-	-	-	-	-	
Municipal	-	-	-	-	-	-	-	-	-	-	-	
Own Funds	-	-	-	-	-	-	-	-	-	-	-	
Fees and Services	(120,913)	(128,537)	7,700	-	-	-	(36)	-	(312)	(121,185)	7,352	
Fines	-	-	-	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	
Total Revenue	(120,913)	(128,537)	7,700	-	-	-	(36)	-	(312)	(121,185)	7,352	
Percent of 2009 Revenue Budget			-6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	-5.7%		
Net Requirement	5,579	-	(4)	(154)	205	46	219	-	(312)	-	-	
Percent of 2009 Net Requirement Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
Full Time Equivalents (FTE's)	-	370.45	-	3.00	2.00	1.00	5.98	-	-	382.43	11.98	
Percent of 2009 FTE's			0.0%	0.8%	0.5%	0.3%	1.6%	0.0%	0.0%	3.2%		

City of Ottawa
 Environmental Services Department
 Drinking Water Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2009 Actual vs. Budget Variance Explanation	Surplus / (Deficit)		
	Exp.	Rev.	Net
Actual vs. Budget Variance Explanation			
Operations			
Surplus in General Manager's/Manager's Offices mainly due to savings in materials and services	74	-	74
Surplus in Water Production due to lower volumes of water purification waste discharged to ROPEC, resulting in savings in sewer discharge costs	654	-	654
Other surplus in Water Production due to savings in Program Facility costs mainly as a result of vacancies	88	-	88
Deficit in Water Quality costs due to maintenance that was required at the remote pumping stations	(53)	-	(53)
Deficit in Water Distribution mainly due to increased repairs and maintenance to system components and reduced cost recovery work	(224)	-	(224)
Surplus in Customer Services and Strategic/Environmental Services mainly in Compensation of \$768K due to vacancies early in the year which have mostly been filled, increased recoveries of \$190K, materials/services of \$260K and various internal charges from other departments of \$190K	1,218	-	1,218
Deficit in Operating Revenues due to lower than planned volume of cost recovery work performed		(137)	(137)
Total Operations	1,757	(137)	1,620
Non Departmental			
Deficit in Recoveries due to less work performed on Capital than planned	(132)	-	(132)
Deficit in Water Billing Revenues due to a significant reduction in the volume of water billed that began in the second half of 2008. Therefore, this adjustment captures the drop in consumption in the later part of 2008 as well as 2009.		(7,709)	(7,709)
Surplus in Interest and other Non Departmental Revenues	-	222	222
Surplus in Non Departmental Costs mainly due to savings of \$646K in debt servicing costs	420	-	420
Total Surplus / (Deficit)	2,045	(7,624)	(5,579)

City of Ottawa
 Environmental Services Department
 Drinking Water Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2009 Baseline Adjustments / Explanations	Increase / (Decrease)			FTE Impact
	Exp.	Rev.	Net 2010 Changes	
Adjustments to Base Budget	-	-	-	-
Adjustment for 2009 budget shortfall for Collective agreement provision	296	-	296	-
Adjustment for reduced volumes of Water Production waste discharged to the ROPEC wastewater treatment plant	(300)	-	(300)	-
Non-Departmental				
Adjustment to water billing revenues due to significant reduction in volume of water billed	-	7,700	7,700	-
Adjustment to the Capital PAYG contribution due to the reduced water revenues	(7,700)	-	(7,700)	-
Total Adjustments to Base Budget	(7,704)	7,700	(4)	-

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement Explanatory Notes
 In Thousands (\$000)

2010 Pressure Category / Explanation	Increase / (Decrease)			
	Exp.	Rev.	Net 2010 Changes	FTE Impact
Maintain Services				
All programs include an adjustment for 2010 contract settlements, increments, and benefit adjustments	1,064	-	1,064	-
Customer Services - Half year costs for Customer Service Person and Communications Officer due to backlog that needs to be addressed (including leasing costs of \$13K and Fleet operating costs of \$13K)	99		99	2.00
Water Production - Half year costs for requirement for Technical Assistant for on going maintenance	39		39	1.00
Contractual inflationary costs on Water Production chemicals and gases	1,000	-	1,000	-
Contractual inflationary costs of Roadway Reinstatement contracts	196	-	196	-
Increased Fleet costs due to inflation on fuel and maintenance	183		183	-
Increased costs for large equipemnt rental such as backhoes and cranes, and increased usage of vacuum excavation process	252		252	-
Contractual inflationary costs for snow removal/clearing and maintenance	125		125	-
Inflationary costs for Vars sludge and granular activated carbon removal	62		62	-
	13		13	-
Inflationary increase to various internal charges from other City Departments and Branches				
Various other inflationary requirements	69		69	-
Inflationary increase to recoveries from other City Departments and Branches	(32)		(32)	-
	-	-	-	-
Non-Departmental				
Increase to the Administrative overhead allocation due to collective bargaining increases	62	-	62	-
Increase in the Administration overheand allocation due to Council approval of omnibus motion for the tax budget	250		250	-
Reduction in Debt Servicing costs	(377)	-	(377)	-
Reduction to the PAYG Contribution since total operating budget pressures exceed the increase in revenues.	(3,159)	-	(3,159)	-
	-	-	-	-
Total Maintain Services	(154)	-	(154)	3.00

City of Ottawa
Environmental Services Department
Drinking Water Services - Operating Resource Requirement Explanatory Notes
In Thousands (\$000)

2010 Pressure Category / Explanation	Increase / (Decrease)			
	Exp.	Rev.	Net 2010 Changes	FTE Impact
Provincial Legislated				
Requirement for additional personal safety supplies and equipment to comply with regulatory requirements	109		109	-
Drinking Water Quality Program - Half year costs for 2 Operational Engineers for DWQMS legislative and reporting requirements	96		96	2.00
Total Provincial Legislated	205	-	205	2.00
Growth				
Maintenance Management - Half year costs for a Maintenance Management Planner due to system growth	46	-	46	1.00
	-	-	-	-
Total Growth	46	-	46	1.00
New Services / Needs				
Automated Meter Initiative - Temporary requirement for a Project Coordinator for the changes associated with individual accounts through the installation phase of the AMI project, and an Field Inspector to ensure quality control of the contracted installations for the duration of the AMI project (including vehicle leasing costs of \$26K)	104	-	104	2.00
AMI costs above to be recovered from the AMI capital project	(104)	-	(104)	-
Public Outreach Program requirement for 1 Public Outreach Officer and 6 summer students to increase profile in the community and to promote the City's high quality drinking water (including communication materials of \$100K and Fleet operating costs of \$34K)	216		216	2.98
Water Production - Half year costs for a Network Analyst to provide support for the new SCADA security system and network	39		39	1.00
Revenues for rental of space on water towers for radio frequency antennas		(36)	(36)	-
	-	-	-	-
Total New Services / Needs	255	(36)	219	5.98
User Fees & Charges				
See following user fee schedule for details on the specific rates.	-	(312)	(312)	-
	-	-	-	-
Total User Fees & Charges	-	(312)	(312)	-
Total Budget Changes	(7,352)	7,352	-	11.98

City of Ottawa
Environmental Services Department
Drinking Water Services - User Fees

User Fees	2008 Rate	2009 Rate	2010 Rate	% Change Over		Effective Date	2010 Revenue
	\$	\$	\$	2009	2008	DD-MMM-YY	(\$000)
Drinking Water Services							
Distribution of Drinking Water							
1. Water Services Connection						01-May-10	
Size of Service Pipe	508.00	530.00	551.00	4.0%	8.5%		
20 mm on DI or CI	643.00	671.00	698.00	4.0%	8.6%		
20 mm on PVC	141.00	147.00	153.00	4.1%	8.5%		
20 mm others - Cost plus 15%, hourly	1,408.00	1,470.00	1,529.00	4.0%	8.6%		
20 to 50mm on concrete	563.00	588.00	612.00	4.1%	8.7%		
25 mm on DI or CI	693.00	723.00	752.00	4.0%	8.5%		
25 mm on PVC	141.00	147.00	153.00	4.1%	8.5%		
25 mm others - Cost plus 15%, hourly	871.00	909.00	945.00	4.0%	8.5%		
40 mm on DI or CI	937.00	978.00	1,017.00	4.0%	8.5%		
40 mm on PVC	141.00	147.00	153.00	4.1%	8.5%		
40 mm others - Cost plus 15%, hourly	1,145.00	1,195.00	1,243.00	4.0%	8.6%		
50 mm on DI or CI	1,231.00	1,285.00	1,336.00	4.0%	8.5%		
50 mm on PVC	141.00	147.00	153.00	4.1%	8.5%		
50 mm others - Cost plus 15%, hourly	3,480.00	3,633.00	3,778.00	4.0%	8.6%		
100 mm	3,707.00	3,870.00	4,025.00	4.0%	8.6%		
150 mm	4,671.00	4,877.00	5,072.00	4.0%	8.6%		
200 mm	141.00	147.00	153.00	4.1%	8.5%		
100 to 200mm on concrete - Cost plus 15%, hourly	141.00	147.00	153.00	4.1%	8.5%		
Larger than 200 mm - Cost plus 15%, hourly							
2. Services						01-May-10	
Thawing of Services							
- 20 mm and 25 mm (per thaw)	307.00	321.00	334.00	4.0%	8.8%		
- Other than 20mm, 25 mm - Cost plus 15%, hourly	154.00	161.00	167.00	3.7%	8.4%		
Hot Water Thawing of Services on private property (Hourly)	99.00	103.00	107.00	3.9%	8.1%		
- Materials	54.00	56.00	58.00	3.6%	7.4%		
Thawing Hydrants (per hydrant)	110.00	115.00	120.00	4.3%	9.1%		
Fire Flow Test	186.00	194.00	202.00	4.1%	8.6%		

City of Ottawa
Environmental Services Department
Drinking Water Services - User Fees

User Fees	2008 Rate	2009 Rate	2010 Rate	% Change Over		Effective Date	2010 Revenue
	\$	\$	\$	2009	2008	DD-MMM-YY	(\$000)
3. Service Charges						01-May-10	
Turn off water services for non payment or turn on follow	72.00	75.00	78.00	4.0%	8.3%		
Turn off or on of water services (per operation)	72.00	75.00	78.00	4.0%	8.3%		
Permit for Flusher Hydrant Usage	244.00	255.00	265.00	3.9%	8.6%		
Inspection for New Water Meters	72.00	75.00	78.00	4.0%	8.3%		
Service Call on Internal Plumbing	147.00	153.00	159.00	3.9%	8.2%		
Service Post Adjustment	122.00	127.00	132.00	3.9%	8.2%		
4. New/Replacement Water Meters (installation cost included)						01-May-10	
Size of Service Pipe							
15 x 20 mm Pos. Disp.	278.00	290.00	302.00	4.1%	8.6%		
15 x 20 mm Pos. Disp.(Carlsbad only)	457.00	477.00	496.00	4.0%	8.5%		
20 mm Pos. Disp.	323.00	337.00	350.00	3.9%	8.4%		
25 mm Pos. Disp.	371.00	387.00	402.00	3.9%	8.4%		
40 mm Pos. Disp.	740.00	773.00	804.00	4.0%	8.6%		
50 mm Pos. Disp.	828.00	864.00	899.00	4.1%	8.6%		
50 mm Turbine	1,469.00	1,534.00	1,595.00	4.0%	8.6%		
50 mm Compound	2,409.00	2,515.00	2,616.00	4.0%	8.6%		
75 mm Turbine	2,349.00	2,452.00	2,550.00	4.0%	8.6%		
75 mm Compound	3,641.00	3,801.00	3,953.00	4.0%	8.6%		
100 mm Turbine	3,516.00	3,671.00	3,818.00	4.0%	8.6%		
100 mm Compound	4,947.00	5,165.00	5,372.00	4.0%	8.6%		
150 mm Turbine	5,370.00	5,606.00	5,830.00	4.0%	8.6%		
150 mm Compound	7,934.00	8,283.00	8,614.00	4.0%	8.6%		
100 x 50 mm Fire Assembly - Cost plus 15%, hourly	211.00	220.00	229.00	4.1%	8.5%		
150 x 50 mm Fire Assembly - Cost plus 15%, hourly	211.00	220.00	229.00	4.1%	8.5%		
200 x 50 mm Fire Assembly - Cost plus 15%, hourly	211.00	220.00	229.00	4.1%	8.5%		
Additional Revenues from Inflationary increase to rates in 1, 2, 3 and 4 above							(8)

City of Ottawa
 Environmental Services Department
 Drinking Water Services - User Fees

User Fees	2008 Rate	2009 Rate	2010 Rate	% Change Over		Effective Date	2010 Revenue
	\$	\$	\$	2009	2008	DD-MMM-YY	(\$000)
5. Non Departmental							
Distribution of Drinking Water						01-May-10	
Per cubic metre rate of drinking water on water bill (based on approx. 86M m3 of water billed) (As approved in principle by Council in 2009)	1.159	1.264	1.289	2.0%	11.2%		(304)
Total Department							(312)

Capital Requirements

Drinking Water Services

CW	City Wide	Ward 6	Stittsville – Kanata West	Ward 12	Rideau-Vanier	Ward 18	Alta Vista
Ward 1	Orleans	Ward 7	Bay	Ward 13	Rideau-Rockcliffe	Ward 19	Cumberland
Ward 2	Innes	Ward 8	College	Ward 14	Somerset	Ward 20	Osgoode
Ward 3	Barrhaven	Ward 9	Knoxdale-Merivale	Ward 15	Kitchissippi	Ward 21	Rideau – Goulbourn
Ward 4	Kanata North	Ward 10	Gloucester-Southgate	Ward 16	River	Ward 22	Gloucester – South Nepean
Ward 5	West Carleton	Ward 11	Beacon Hill-Cyrville	Ward 17	Capital	Ward 23	Kanata South

City of Ottawa
Service Area: Drinking Water Services
 In Thousands (\$000)

2010 Draft Budget

Service Category	2010 Draft Capital Budget	Renewal of City Assets	Growth	Regulatory	Strategic Initiatives
Water Systems - General	6,425	2,048	2,165	1,330	882
Water Treatment Program	8,270	7,270	1,000	-	-
Water Pumping Stations	5,780	2,480	3,300	-	-
Water Distribution System	51,599	24,255	27,344	-	-
Water Communal Wells	339	339	-	-	-
Water Reservoir	88	88	-	-	-
Integrated Program*	22,207	22,207	-	-	-
Total	94,708	58,687	33,809	1,330	882

*Includes Drinking Water portion of Integrated program

City of Ottawa
Service Area: Drinking Water Services

In Thousands (\$000)

2010 Draft Budget

Category	2010 Draft Capital Budget	Revenues	Tax Supported / Dedicated Reserves	Rate Supported Reserves	Development Charges	Debt
Renewal of City Assets*	58,687	75	586	29,586	-	28,440
Growth	33,809	-	-	2,275	15,811	15,723
Regulatory	1,330	-	-	875	455	-
Strategic Initiatives	882	-	-	422	460	-
Total	94,708	75	586	33,158	16,726	44,163

*Includes Drinking Water portion of Integrated program

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Water Treatment Program

Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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The program is aimed at addressing annual requirements for the City's two Water Purification Plants that have an estimated replacement value of \$550 million. In order to provide continued uninterrupted safe supply of potable water, to preserve and extend the life of the infrastructure, and to meet provincial and federal regulation requirements it is necessary to invest in the ongoing rehabilitation and renewal of these assets. The program is comprised of a number of key components that include:

- Anthracite Filter Media Replacement
- Miscellaneous Facilities Projects
- Process Modifications
- Water Quality Improvement Initiatives
- Rehabilitation
- Growth
- Service Improvements

Key projects of interest for the current year and four year forecast include:

- Equipment upgrades, replacement of failing infrastructure, changes resulting from legislative and health and safety initiatives.
- Process Modifications to meet changing standards for finished water.

2010 Request	7,270	Previous Authority	36,025
Revenues	-	Rate Supported	7,170
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	100
Forecast	2010	2011	2012
Authority	7,270		
Spending Plan	15,891		
FTE's	-		
Operating Impact	-		

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>902145 Water Facilities Rehabilitation</p> <p>The replacement value of the City's two (2) water facilities is estimated to be in excess of \$550 million. The purpose of this program is to establish a general funding envelope for future equipment retrofit, rehabilitation or replacement of the infrastructure as it ages. Spending plans for 2010/2011 include: - various smaller scale equipment replacement - Britannia WPP - Backwash pump #3 motor upgrade - Britannia and Lemieux intakes River ice management - Lemieux WPP - New backwash holding tank and pumps - various equipment upgrades for the Britannia WPP and are to be completed as one contract with the Britannia filter upgrade project. Future work identified includes major instrumentation replacement at all facilities as identified in a SCADA needs assessment report.</p>	<p>CW</p>		<p>5,820</p>
<p>902955 Water Purification Plant Facilities Project</p> <p>Drinking Water Services operates and maintains the Plants at Lemieux Island, Britannia and Fleet Street pumping station that supply potable water to approximately 810,000 residents of the city. This infrastructure is a considerable capital investment that must be maintained to high standard to ensure a consistent supply of safe drinking water to the city's residents. Ongoing investment is required to sustain these non-process related assets. Planned for 2010 are facility system equipment upgrades, pumping station repairs, HVAC rehabilitation, reconstruction and replacement of infrastructure, as well as Health and Safety, Legislative and Loss Control strategies to correct deficiencies that will arise as the infrastructure ages.</p>	<p>CW</p>		<p>750</p>
<p>902957 Water Treatment Equipment Upgrades</p> <p>2010 and ongoing projects include:· Pump motor replacement· WPP filter turbidity meter replacement· Britannia chemical mixing chamber improvements· Sulphuric tank rehabilitation· Pump bearing impeller replacement· Flow meter and valve & actuator rehabilitation/replacement· Lemieux low lift priming system upgrade· Chemical System Health & Safety improvements· Major valve and meter chamber rehabilitation · Chemical pump replacement · Lemieux Services building UPS replacement · Miscellaneous equipment replacement.</p>	<p>CW</p>		<p>700</p>

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Water Systems General

Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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This program is aimed at addressing matters that are common to Drinking Water Services, including Water Distribution, Water Production, Water Quality Assurance, Customer Services and Strategic & Environmental Services. These programs cover operational issues, legislative requirements, system planning, and other strategic directions such as environmental programs.

Key 2010 infrastructure renewal projects include:

- 903407 Water System SCADA upgrade - detailed design and implementation

2010 Request	1,462	Previous Authority	13,808
Revenues	-	Rate Supported	1,462
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	1,462		
Spending Plan	11,581		
FTE's	-		
Operating Impact	-		

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>900163 Water Facilities Master Drawings</p> <p>In order to improve the operation and management of water facilities, this program involves the updating of existing drawings to reflect changes to mechanical, civil, instrumentation (SCADA) and electrical systems. Current, updated drawings for each facility are by the Drinking Water Licences and also for maintenance efficiency and safety of operating staff per the operator license regulations of the Ontario Water Resources Act.</p>	<p>Ward CW</p>		<p>100</p>
<p>900169 Facilities Operations Manuals</p> <p>The Safe Drinking Water Act and the Certificate of Approval for all of the City's Drinking Water Systems issued under this Act require that the City maintain operating and maintenance manuals. The capital funds provided will allow the manuals for the Central, Carp, Vars, Munster Hamlet and Richmond – King's Park Drinking Water Systems to be regularly updated to include new facilities and reflect modified operational and maintenance practices and procedures.</p>	<p>Ward CW</p>		<p>147</p>
<p>903407 Water System SCADA Replacement</p> <p>The Supervisory Control and Data Acquisition (SCADA) system is a computerized system that is used by Certified Operators to monitor and control the drinking water treatment system. The Operator monitors all critical components of the treatment process and is able to remotely operate equipment within the purification plants, communal well systems, pump stations, reservoirs and storage tanks. The SCADA system is crucial to the operation of the treatment system for monitoring key parameters required under provincial and federal legislation. The existing SCADA system is nearing the end of its lifecycle. Various components of the system either require to be upgraded or replaced to maintain reliability.</p>	<p>Ward CW</p>		<p>500</p>
<p>905750 Asset Management Strategy</p> <p>Planning for infrastructure renewal requires a comprehensive asset management strategy. This program will support the Drinking Water Operations branch by providing funding for the implementation of technology support (software) and external resources as required to fill gaps in expertise and/or staff availability to achieve its objectives.</p>	<p>Ward CW</p>		<p>150</p>

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
905751 Water Facilities Roofing	Ward	CW	565
<p>The lifecycle maintenance of the Water Production facilities roofing systems involves 155 distinct roof structures on 39 separate facilities, consisting of an area of 44,582 square meters (approximately 11 acres) with a total replacement value of over eight million dollars. Bi-annual inspections are performed on these facilities to produce a prioritized list of annual roofing repair and replacement projects to maintain these facilities roofing envelopes. The following lifecycle roof work is scheduled for the Water Production Facilities in 2010: Britannia Filter corridor Britannia Filter building, Fleet Street upper & lower roof, Glen Cairn Vent House, Orleans PS, Orleans Res cell 3 & 4, South Gloucester PS.</p>			

Program Information	Financial Details
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Water System Rehabilitation Program

Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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The Water System Rehabilitation Program addresses annual rehabilitation requirements for the City's piped water network. The purpose of this program is to preserve and extend the life of the infrastructure, provide continued supply of potable water, prevent failures requiring more extensive reconstruction, and ensure drinking water quality is maintained throughout the water distribution network. The program is focused on:

- Proactive life cycle renewal and rehabilitation projects;
- Level of service initiatives;
- System improvements and optimization;
- Upgrades and rehabilitation to support growth demand;
- Miscellaneous local repairs.

Program funding requirements to support renewal needs are defined in the long range financial plan. Budget allocation for these programs are adjusted to reflect change in needs and affordability envelopes.

The 2011-2012 forecast is based on bulk allocations that will be detailed in future budget submissions. The funding requests for water main costs are coordinated with roadway, wastewater or storm water rehabilitation, which are included within the Integrated Rehabilitation Program.

Detailed information and costs associated with specific stand alone (non integrated) components and projects directly follow this program summary page.

2010 Request	14,200	Previous Authority	-
Revenues	75	Rate Supported	3,985
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	10,140
Forecast	2010	2011	2012
Authority	14,200		
Spending Plan	14,200		
FTE's	-		
Operating Impact	-		

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
905007 Hwy 417 Water TransMain - Lees Ave.	12, 17	Renewal The Ministry of Transportation of Ontario (MTO) has proposed a number of changes to Highway 417 including highway expansion and bridge rehabilitation plans within the City of Ottawa. The City operates and maintains water transmission mains adjacent to the highway (sizes up to 1220 mm in diameter) and there are concerns that the proposed MTO changes will impact the reliability of water service to over 400,000 water customers. In 2007 the City completed a risk assessment that concluded part of the Lees Avenue transmission main needed to be relocated. This budget request is to carry out the design for a detailed route selection, hydraulic analysis, operational planning, and a logistical analysis, which may require a full environmental assessment in the Lees Avenue corridor. Future budget requests would provide the authority necessary to complete the detailed design and construction of the preferred solution. Cost sharing negotiations between the City and the MTO are underway and will be finalized prior to construction.	150
905054 Woodroffe Ave Transmission Main Renewal	9	Hunt Club Rd. to Nepean Sportsplex A portion of the major transmission main on Woodroffe Avenue was subject to emergency repair as a result of failure. Detailed investigations identified remaining portions in need of work. A phased repair plan has been developed and the 2010 budget allocation provides for the design of the first phase, between Hunt Club Rd. and Nepean Sportsplex. Subsequent phases will follow in future years and as system redundancies are established.	270
905544 Trenchless Rehabilitation – Water	CW	Renewal The 2010 funding provides for water main cleaning and lining in various communities throughout the City. This initiative targets older water mains (typically 30 to 50 years old) and extends their structural integrity, water quality conditions, and hydraulic parameters.	3,000


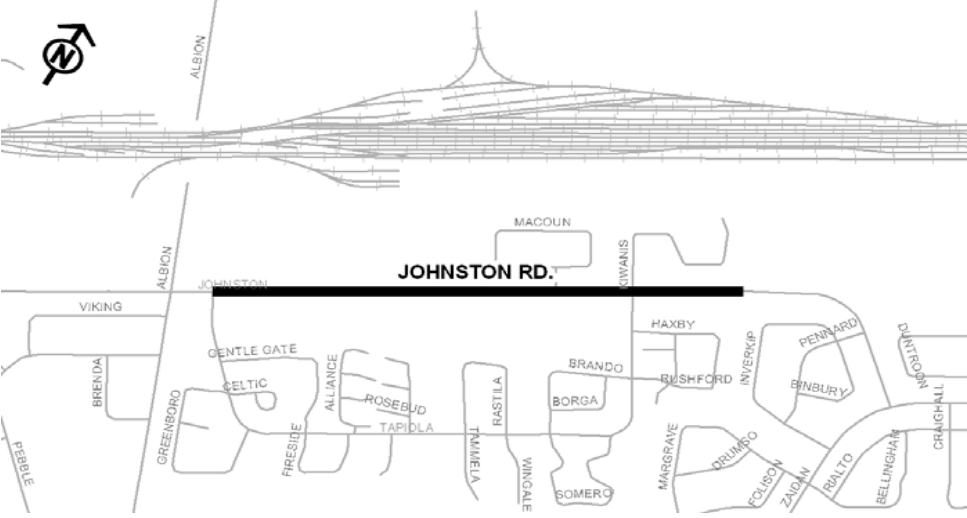
City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
905550 TransMain Rehab Master Plan	CW	Renewal	350
<p>The 2010 budget allocation provides for initial development of a Strategic Master Plan to address the rehabilitation or replacement of aging sections of the water transmission system as a result of corrosion, structural failures, erosion, or soil movements. Specific projects will be individually justified based on facility condition, risk assessments, and economics of repair versus replacement in future budget requests.</p>			
905549 Springhurst Avenue	17	Main St. to Chestnut St.	90
<p>The Springhurst Ave. water main is in poor structural condition. Current fund allocation is for design. Funding for construction will follow in future years. This project addresses water main renewal only.</p>			


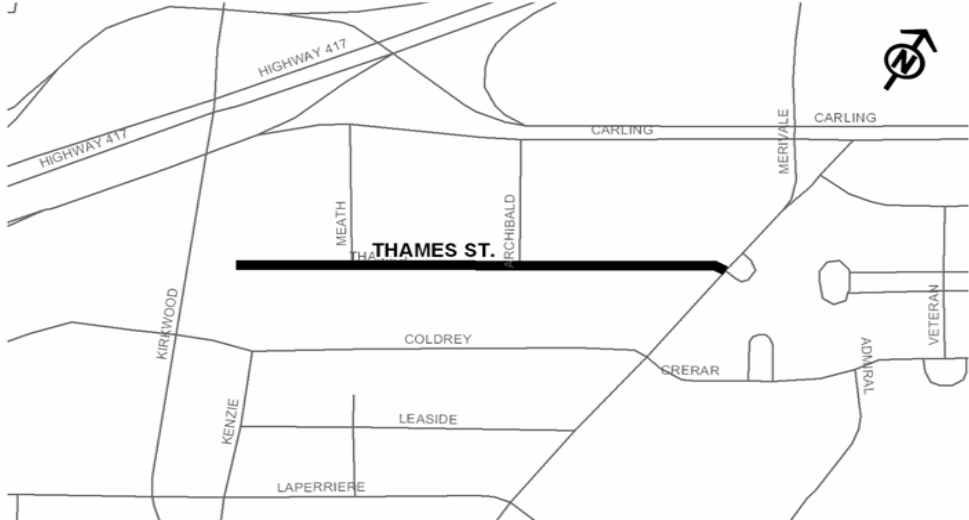
Project	Ward	Location/Description	\$000's
<p>904878 Wren Road</p> <p>The Wren Road water main is in poor structural condition. The existing water mains, valves, hydrants, and house service connections will be replaced.</p> <p>Design funding was allocated in 2009 and the construction funding is allocated in 2010.</p> <p>This project addresses water main renewal only.</p>	11	<p>Swans Way to Coxford St.</p> 	490
<p>904879 Johnston Road</p> <p>The water main in this section of Johnston Road is in poor structural condition and has been out of service for a number of years. This funding provides for its replacement which will restore reliability to the area. Work is being coordinated with a nearby developer.</p> <p>Design funding was allocated in 2009 and the construction funding is allocated in 2010.</p> <p>The project addresses water main renewal only.</p>	10	<p>Tapiola Cres. West to 215m East of Tapiola Cres. East</p> 	2,940

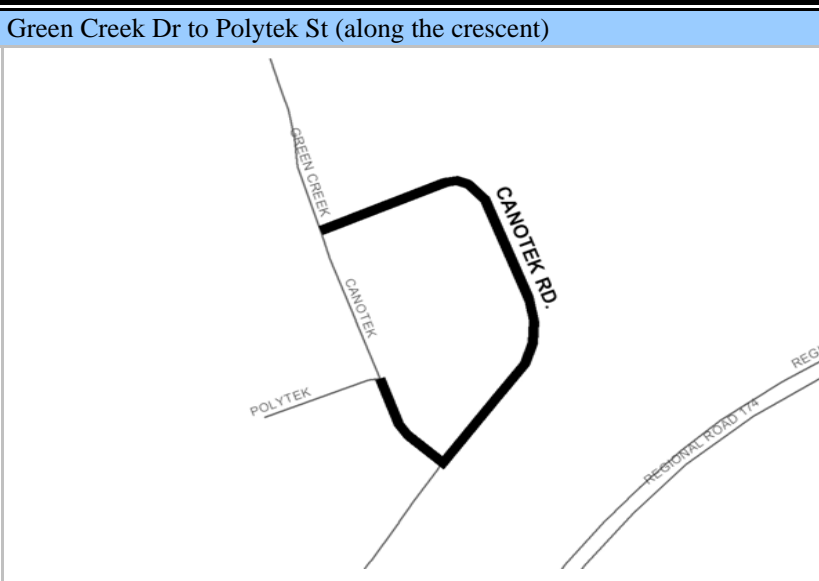
City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>905545 Carling Avenue</p> <p>The water main in this section of Carling Ave. is in poor structural condition. The 2010 allocation is for both design and construction.</p> <p>This project addresses water main renewal only.</p>	7	<p>Schneider Rd. to March Rd.</p> 	3,430
<p>905546 Thames Street</p> <p>The Thames Street water main is in poor structural condition. The 2010 allocation is for both design and construction.</p> <p>This project addresses water main renewal only.</p>	16	<p>Merivale Rd. to Dead End</p> 	1,650

Project	Ward	Location/Description	\$000's
<p>905547 Canotek Road</p> <p>The Canotek Road water main is in poor structural condition. The 2010 allocation is for both design and construction.</p> <p>This project addresses water main renewal only.</p>	11	<p>Green Creek Dr to Polytek St (along the crescent)</p> 	1,830

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Water Distribution Program

Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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The City of Ottawa operates a water distribution system consisting of 2,822 km of piping, 18,275 fire hydrants, over 39,989 valves and 198,738* water service meters. The value of this buried infrastructure is over \$4.0 billion. This program is aimed at addressing annual preventive and corrective maintenance requirements for the City's existing water distribution network in order to provide reliable operation of the network components, to ensure drinking water quality is maintained throughout the water distribution network and to preserve and extend the life of the infrastructure to prevent failures requiring heavier and costlier reconstruction strategies.

The program is focused on:

- Proactive life cycle renewal and rehabilitation projects;
- Level of service initiatives;
- System improvements and optimization;
- Miscellaneous upgrades and rehabilitation to support growth demand.

Some of the key infrastructure renewal projects are as follows:

- Lemieux Island Mains
- Service Post Rehabilitation
- Water Meter Replacement and Automated Meter Reading Initiatives
- Major preventative maintenance such as cathodic protection and water distribution system improvements
- Miscellaneous other projects such as Water Loss Control, Lead Service Replacement, Condition Assessment of Critical System Links.

Program Funding requirements to support renewal needs were defined during the LRF process. Actual budget allocations for these programs were adjusted to reflect affordability.

Note: the number of services listed has been adjusted to exclude 4,677 privately owned and maintained water services which were included in previous years.

2010 Request	10,055	Previous Authority	54,980
Revenues	-	Rate Supported	9,955
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	100
Forecast	2010	2011	2012
Authority	10,055		
Spending Plan	28,893		
FTE's	-		
Operating Impact	-		

Project	Ward	Location/Description	\$000's
900196 Automated Meter Reading	CW		5,000
<p>Water meters have a projected service life of 20 years. The oldest meters on the system are now 20 years old. Extensive testing concluded to their accuracy. Meter replacement has been postponed pending re-evaluation. Meters are not expected to need replacement before 2012, but the meter remote readers (the black box located on building outside walls) are failing at an unacceptable and increasing pace. A report was approved by Council on June 26, 2006 (report # ACS2006-CRS-FIN-0029, Automated Meter Reading using Radio Frequency Technology). The report demonstrated that a meter reading system, using radio frequency, is cost effective. All remote receivers will be replaced by AMR in the next few years.</p>			
900202 Condition Assessment Critical Sys Links	CW		425
<p>This project will investigate the reliability and serviceability of the water distribution system's key transmission mains and their related appurtenances (i.e. valves, chambers,). Assessment of these facilities in conjunction with operational requirement is imperative to ensure that the integrity of the water system remains intact to ensure serviceability and a continued reliable service to a large urban population. These mains and appurtenances are the backbone of the system.</p>			
901135 Water Distribution System Improvements	CW		880
<p>The City of Ottawa's water distribution system consists of over 2,822 km of watermains, 39,989 valves and 18,275 hydrants. This program involves a number of smaller scale improvements including; access improvements; hydrant and valve life-cycle replacements; installation of flusher units; a swabbing program (to improve water quality) and system identification improvements for hydrants and valves. These annual initiatives ensure that watermain infrastructure and appurtenances are added, replaced or upgraded once normal life expectancy is surpassed and that the existing system is properly maintained and upgraded in accordance with operating strategies and practices.</p>			
902958 Service Posts Rehabilitation Program	CW		650
<p>There are approximately 198,738 water services connecting customers to the water distribution supply system, each of them with an individual shut off valve. The service post is the metallic tube that allows access to the individual customer shut off valve from the surface during planned maintenance activities or emergency events. This project will rehabilitate these non-working service posts by using vacuum excavation, a method that cuts cost by more than half. The program also provides an opportunity to visually inspect the service pipe material for leaks and structural deterioration. Preventive maintenance performed on service posts will avoid costly emergency repairs.</p>			

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
902959 Cathodic Protection Water System	CW		2,100
<p>The water distribution system consists of over 2,822 km of watermains. The Cathodic Protection program is a proactive program to extend the life of newer watermains that are showing signs of premature corrosion failure. Anodes are installed onto the pipe network to prolong its useful life by acting as a sacrificial material, thereby protecting watermains from corrosion. Key elements include condition assessment, installation, monitoring and testing of the anodes to measure their effectiveness and predict life cycle expectations. Planned work in 2010 and 2011 will be directed towards the Kanata, Stittsville, Britannia, Orleans and Blackburn Hamlet areas.</p>			
904170 Proactive Lead Service Replacement	CW		1,000
<p>The City produces and distributes drinking water that is essentially free from lead. Lead can enter drinking water through exposure to existing lead service lines. The City replaces lead services within the public right-of-way as part of the Watermain Rehabilitation Program. An estimated 16,000 lead services exist within the public right-of-way and many are still to be replaced. This program provides the funds necessary to cover the costs associated with the City's portion of Lead Service Replacement. Customers are responsible for the cost of service replacement on private property. The program also offers residents deferred payment options on the tax bill. Production and distribution costs for public information bulletins are provided by this account.</p>			

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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905465 Lifecycle Renewal Fleet - Water Services

Dept: Public Works	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2012
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This program provides funding authority for Municipal vehicle and equipment scheduled for replacement, life extension, modification, or major repair. The timely replacement of vehicles and equipment that have reached their life expectancy, or are no longer suitable or economical to operate, helps ensure the provision of a cost-effective fleet service. Vehicles and equipment replacement decisions are guided by the ongoing study of the condition of each vehicle, its application, and an assessment of its remaining useful life. All vehicles and equipment scheduled for replacement are inspected and evaluated to confirm the requirement. Commitments for vehicle purchases must be made at least one year prior to delivery. Further information on the replacement plan is contained in the 2010 Municipal Fleet Replacement Plan which was approved by Council ACS2009-COS-FLT-0020. This report also advanced 2010 funding into 2009 of \$4,000,000 to meet award requirement for unit deliveries.

This project is part of a program that flows across Service Areas which consists of the following:

Fire Services	\$3,428
Paramedic Services	\$3,113
By-Law Services	\$ 257
Transportation Services - Roadways	\$7,406 - advanced \$4,000 in 2009
Library	\$ 80
Fleets Services	\$ 540
Solid Waste	\$ 185
Wastewater Services	\$ 228
Water Services	\$ 586

2010 Request	586	Previous Authority	1,464
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	586	Development Charges	-
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	586		
Spending Plan	586		
FTE's	-		
Operating Impact	-		

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details			
902144 Water Storage Tanks & Reservoirs						
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion:		2019	
<p>The ongoing continuous operation of these facilities is critical to delivering drinking water services to 780,000 central system customers. As the infrastructure ages, equipment must be retrofitted, rehabilitated or replaced. Examples of initiatives funded from this program include: Structural repairs at Carlington Heights and Orleans reservoirs, Elevated Tank Health & Safety retrofits and specialized inspections.</p>			2010 Request	88	Previous Authority	588
			Revenues	-	Rate Supported	88
			Tax Supported/ Dedicated	-	Development Charges	-
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	88		
			Spending Plan	660		
			FTE's	-		
			Operating Impact	-		
902146 Water Pumping Station Facilities Rehab						
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion:		2019	
<p>The purpose of this program is to establish a funding envelope for retrofit, rehabilitation or replacement of the infrastructure as it ages. Projects for 2010 include: · Carlington Heights radio tower replacement, · Fleet Street Headwork power and communication cable replacement · Barrhaven P3 electrical upgrades, · Various highlift pump replacements, · Hurdman standby power generator, · Brittany Dr PS flow meter replacement· Complete Arc flash hazard studies.</p>			2010 Request	980	Previous Authority	1,752
			Revenues	-	Rate Supported	980
			Tax Supported/ Dedicated	-	Development Charges	-
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	980		
			Spending Plan	2,245		
			FTE's	-		
			Operating Impact	-		

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

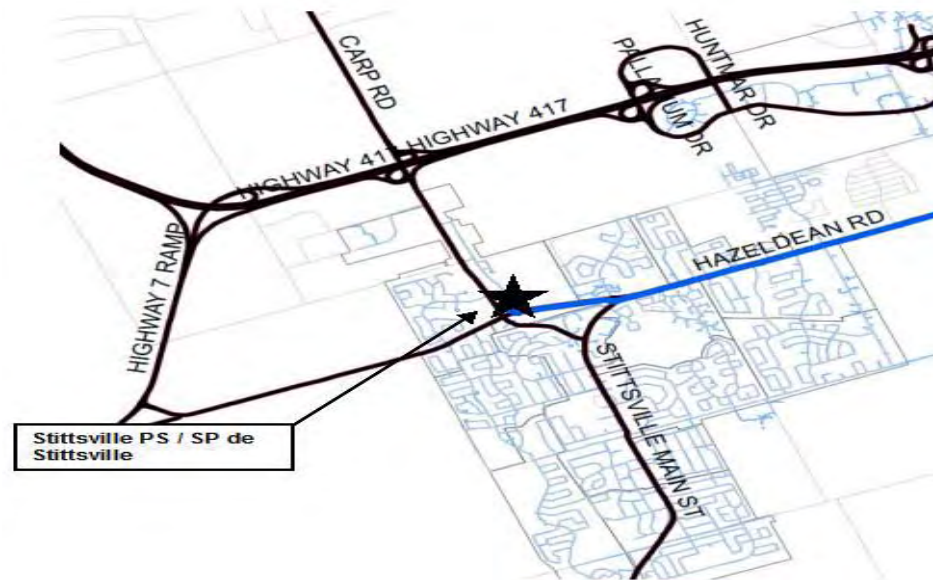
Project Information	Financial Details		
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903299 Stittsville Pumping Station

Dept: Planning and Growth Management | Category: Renewal of City Assets | Ward: 6 | Year of Completion: 2012

This pump station will service the newly created Stittsville Pressure Zone. Provision of this pump station will allow continued delivery of design service levels and allow better operation of the 3W pressure zone by removing the need to maintain high Stittsville Tank levels. The design has been completed and has provided a higher costs estimate. This request is for additional authority to tender the project.

2010 Request	1,500	Previous Authority	2,350
Revenues	-	Rate Supported	100
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	1,400
Forecast	2010	2011	2012
Authority	1,500		
Spending Plan	1,000	500	
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details		
902149 Communal Well System Rehabilitation				
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2019	
<p>The City currently operates five (5) communal well based drinking water systems serving: · Munster Hamlet · Richmond – King’s Park Subdivision · Carp · Vars · Greely - Shadow Ridge Subdivision. Taken collectively, the asset value for the facilities associated with these communal systems (pumping stations, reservoirs, treatment process) is estimated at \$20 million. Major work planned for 2010 includes: Kings Park control and instrumentation rehabilitation, - water treatment and process upgrades, 10 year well condition and capacity testing.</p>	2010 Request	339	Previous Authority 729	
	Revenues	-	Rate Supported 339	
	Tax Supported/ Dedicated	-	Development Charges -	
	Gas Tax	-	Debt -	
	Forecast	2010	2011	2012
	Authority	339		
	Spending Plan	339		
	FTE's	-		
	Operating Impact	-		

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details			
900505 Lemieux Island WPP Expansion						
Dept: Environmental Services	Category: Growth	Ward: CW	Year of Completion:	2010		
<p>This project provides for a capacity expansion at the Lemieux Island Water Purification Plant from its current capacity of 290 ML/d to 400 ML/d, an increase of 110 ML/d. The additional capacity will be required to service increased system wide water quantity demands. The works for this project have been scheduled to provide a reasonable water production contingency level and to ensure that the supply capability exceeds the actual demand. Additional funding is required to meet commitments and complete the work in 2010.</p>			2010 Request	1,000	Previous Authority	47,360
			Revenues	-	Rate Supported	-
			Tax Supported/ Dedicated	-	Development Charges	900
			Gas Tax	-	Debt	100
			Forecast	2010	2011	2012
			Authority	1,000		
			Spending Plan	1,696		
			FTE's	-		
			Operating Impact	-		
900965 New Vehicles - Drinking Water Services						
Dept: Environmental Services	Category: Growth	Ward: CW	Year of Completion:	2010		
<p>Drinking Water Services requires six (6) growth vehicles in 2010. Amongst are: two pick up trucks, two water tanker trailers and a hybrid SUV for the Public Outreach program \$160K and one cargo van to address the repair backlog to water meters \$40K .</p>			2010 Request	200	Previous Authority	3,589
			Revenues	-	Rate Supported	20
			Tax Supported/ Dedicated	-	Development Charges	180
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	200		
			Spending Plan	1,314		
			FTE's	-		
			Operating Impact	75		

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details				
902572 Water & Wastewater EA Studies							
Dept: Planning and Growth Management	Category: Growth	Ward: CW	Year of Completion:		2012		
Planning studies for water and wastewater infrastructure rehabilitation and growth are required: to provide input to the City's Official Plan process and future amendment processes and to plan and respond to immediate and changing long term redevelopment and growth needs in the City. This includes monitoring growth and identifying changes to predicted growth. The types of projects proposed to be completed under this account include: Capacity Allocation Policy Development and implementation, hydraulic computer model update.			2010 Request	300	Previous Authority	1,950	
			Revenues	-	Rate Supported	60	
			Tax Supported/ Dedicated	-	Development Charges	240	
			Gas Tax	-	Debt	-	
			Forecast	2010	2011	2012	
			Authority	300			
			Spending Plan	300			
			FTE's	-			
			Operating Impact	-			
905430 Off Site Reliability Links 2010							
Dept: Planning and Growth Management	Category: Growth	Ward: CW	Year of Completion:		2012		
This water program is required to provide for system integrity and reliability. Although developers are required to provide water infrastructure for their developments, it is occasionally necessary for the City to identify and make improvements in the system through the construction of reliability links for short distances outside of subdivision plans in order to improve service and reliability to existing and new areas. This program satisfies those needs. Locations will be identified on an as needed basis. This program is a Development Charge funded project.			2010 Request	100	Previous Authority	-	
			Revenues	-	Rate Supported	-	
			Tax Supported/ Dedicated	-	Development Charges	50	
			Gas Tax	-	Debt	50	
			Forecast	2010	2011	2012	
			Authority	100			
			Spending Plan	100			
			FTE's	-			
			Operating Impact	-			

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

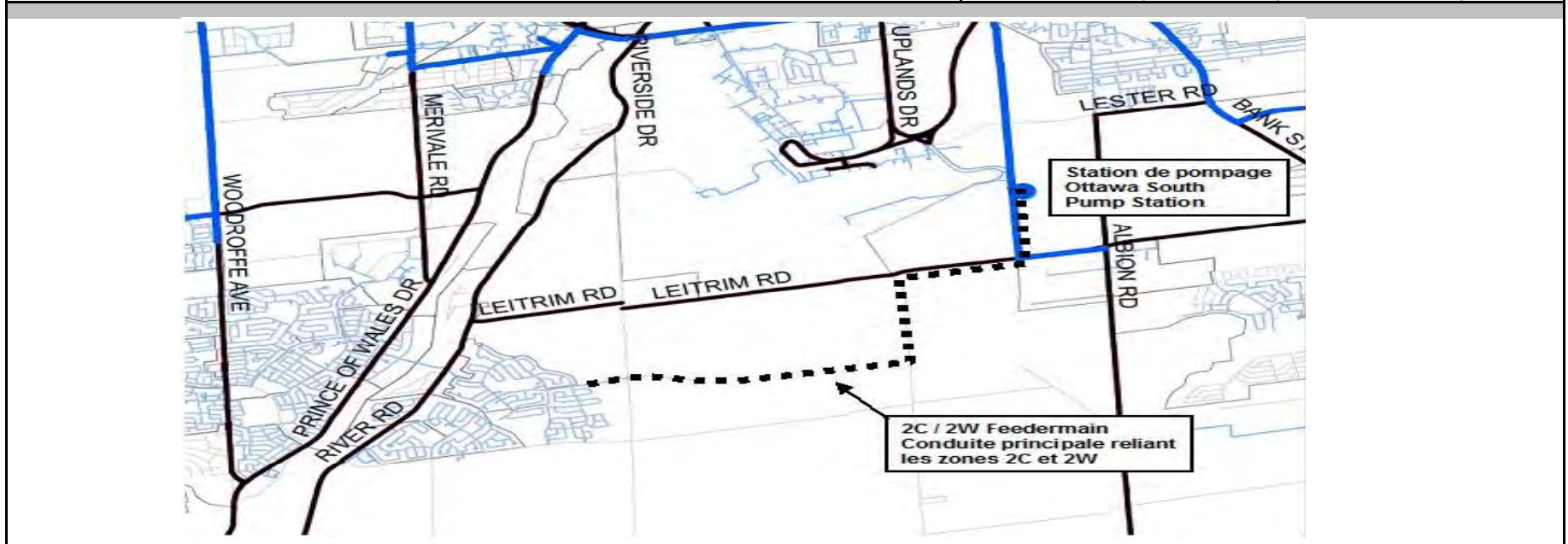
Project Information	Financial Details		
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901145 2C/2W Feedermain Link

Dept: Planning and Growth Management	Category: Growth	Ward: 10	Year of Completion: 2012
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This project is required to provide a second source of water to the South Urban Community (including Leitrim). The new pipe will complete a loop for the supply system to the south. This will permit greater flexibility in operation and maintenance as well as provide the required reliability. The design is to be completed in 2009. This request is construction of phase 1, from Riverside South. to Leitrim Rd. at the CPR Right of Way.

2010 Request	21,000	Previous Authority	4,278
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	6,118
Gas Tax	-	Debt	14,882
Forecast	2010	2011	2012
Authority	21,000		
Spending Plan	10,000	11,000	
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

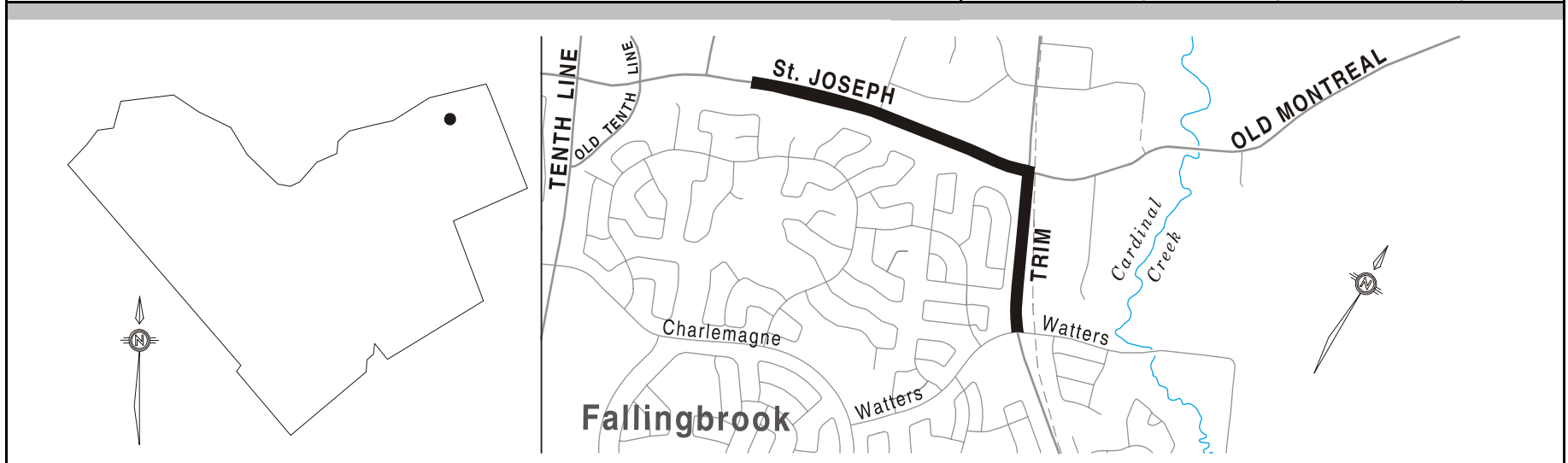
Project Information			Financial Details	
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901183 Trim Road / St Joseph Watermain

Dept: Planning and Growth Management | Category: Growth | Ward: 1 | Year of Completion: 2014

This project was identified in the 1997 Water Master Plan. The expanded function and capacity were defined in the Ottawa Water System Optimization Study. The Ottawa South Reservoir is currently designed to provide water to the Ottawa airport and to the Leirtrim area. This project will add pumping capacity to provide water to the new 3C zone. It will initially be the primary water source to the Riverside area. Completion of this project will ensure continued and reliable service delivery to the existing development and new growth for the Zone 3C area.

2010 Request	4,242	Previous Authority	1,156
Revenues	-	Rate Supported	450
Tax Supported/ Dedicated	-	Development Charges	3,792
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	4,242		
Spending Plan	4,242		
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

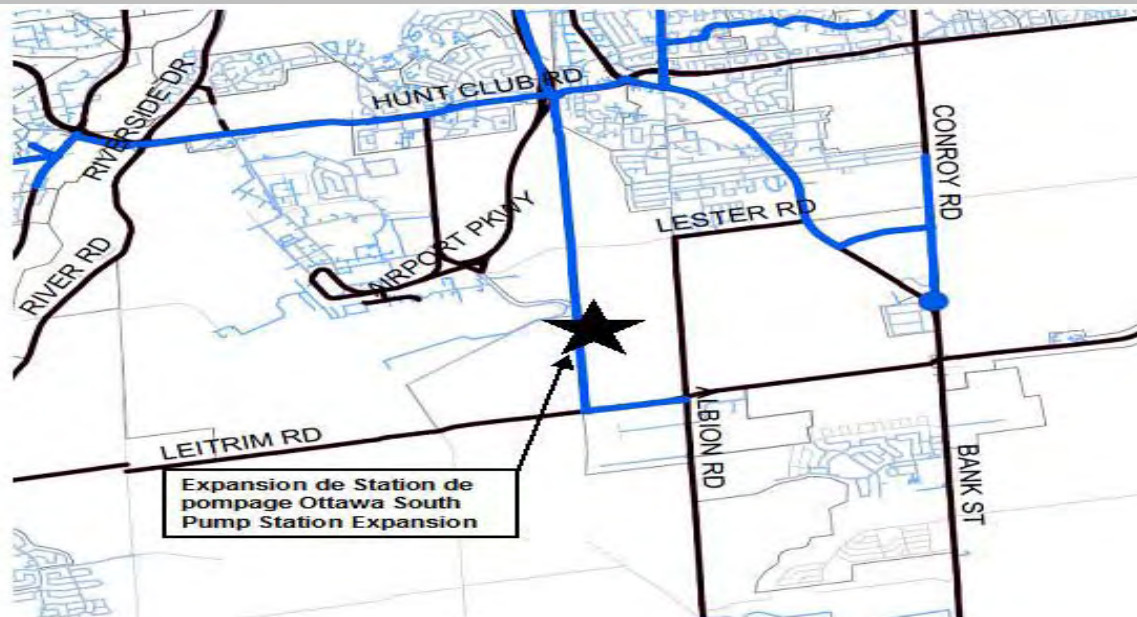
Project Information		Financial Details	
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902206 Ottawa South Pumping Station Upgrade

Dept: Planning and Growth Management	Category: Growth	Ward: 10	Year of Completion: 2012
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This project was identified in the 1997 Water Master Plan. The expanded function and capacity were defined in the Ottawa Water System Optimization Study. The Ottawa South Reservoir is currently designed to provide water to the Ottawa airport and to the Leitrin area. This project will add pumping capacity to provide water to the new 3C zone. It will initially be the primary water source to the Riverside area. Completion of this project will ensure continued and reliable service delivery to the existing development and new growth for the Zone 3C area.

2010 Request	2,600	Previous Authority	990
Revenues	-	Rate Supported	1,703
Tax Supported/ Dedicated	-	Development Charges	897
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	2,600		
Spending Plan	2,600		
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details	
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903292 Watters Road (Montcrest to Trim)

Dept: Planning and Growth Management | Category: Growth | Ward: 1 | Year of Completion: 2012

The installation of a watermain link along Watters Road from Montcrest Drive to Trim Road is required to provide system reliability due to ongoing growth pressures. The watermain will be constructed concurrently with the Trim Road and St. Joseph Boulevard watermain and will complete the system connectivity to the existing watermain on Watters Road and Trim Road. The link will support existing and new development in the area and is a development charge funded project.

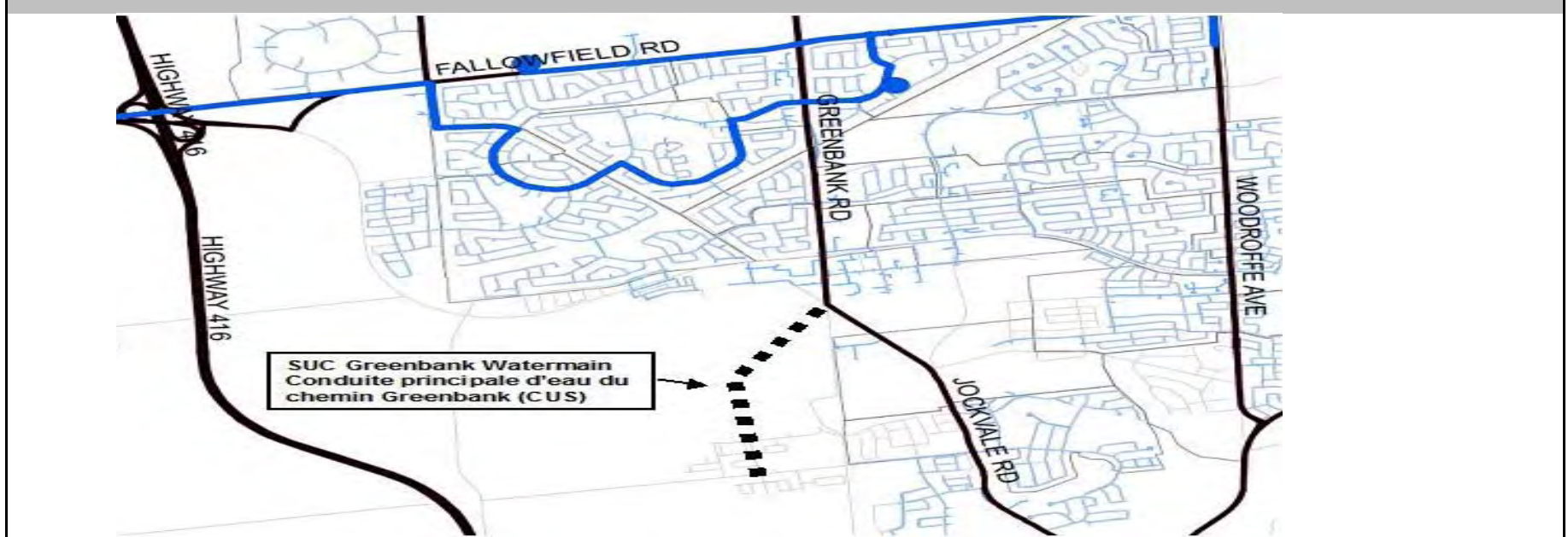
2010 Request	152	Previous Authority	-
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	137
Gas Tax	-	Debt	15
Forecast	2010	2011	2012
Authority	152		
Spending Plan	152		
FTE's	-		
Operating Impact	-		



City of Ottawa
Service Area: Drinking Water Services
In Thousands (\$000)

2010 Draft Budget

Project Information			Financial Details	
904970 SUC Greenbank				
Dept: Planning and Growth Management	Category: Growth	Ward: 3	Year of Completion:	2012
<p>This project is required for meeting demand in the South Urban Centre (SUC). It will augment the existing Greenbank watermain and provide a second source of supply to Barrhaven under contingency conditions.</p>	2010 Request	1,600	Previous Authority	-
	Revenues	-	Rate Supported	-
	Tax Supported/ Dedicated	-	Development Charges	1,440
	Gas Tax	-	Debt	160
	Forecast	2010	2011	2012
	Authority	1,600		
	Spending Plan	1,600		
	FTE's	-		
Operating Impact	-			



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

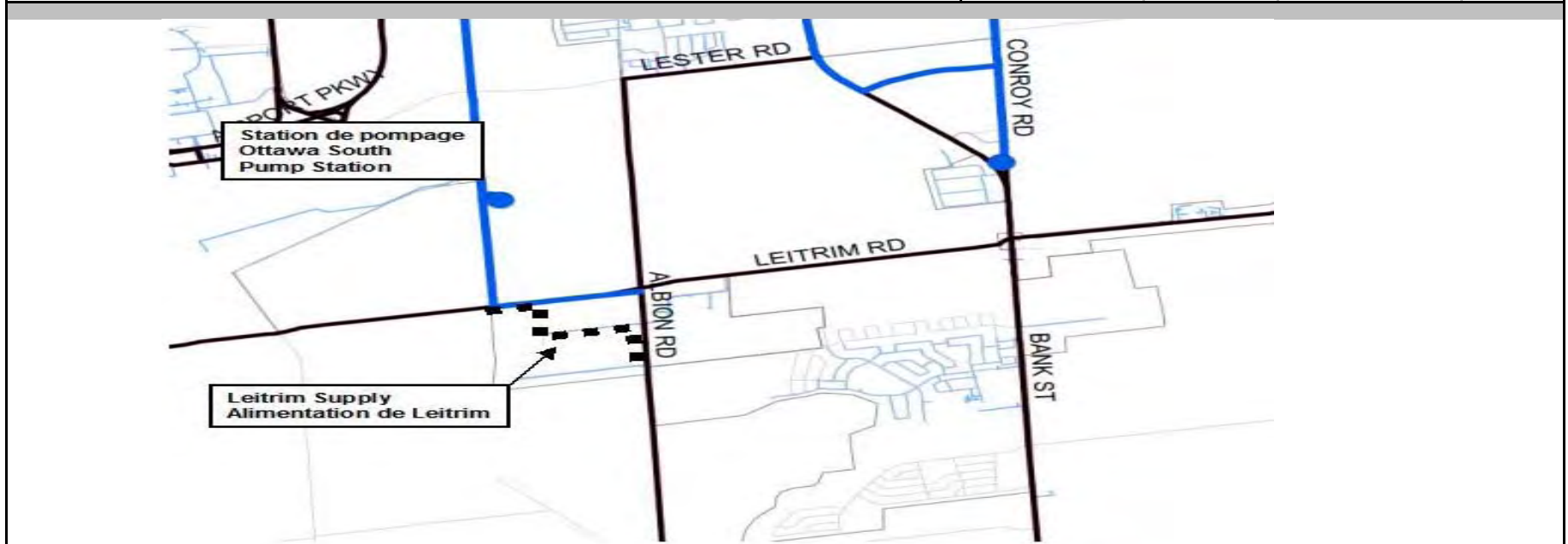
Project Information			Financial Details	
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904973 Leirim Supply Watermain

Dept: Planning and Growth Management | Category: Growth | Ward: 22 | Year of Completion: 2013

This watermain is required to provide added capacity for continued growth in Leirim and will supplement the existing 406mm watermain. This second pipe to Leirim will also provide the required reliability as there is currently only one watermain supplying this area. This request is for the environmental assessment and design.

2010 Request	350	Previous Authority	-
Revenues	-	Rate Supported	42
Tax Supported/ Dedicated	-	Development Charges	108
Gas Tax	-	Debt	200
Forecast	2010	2011	2012
Authority	350		
Spending Plan	350		
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

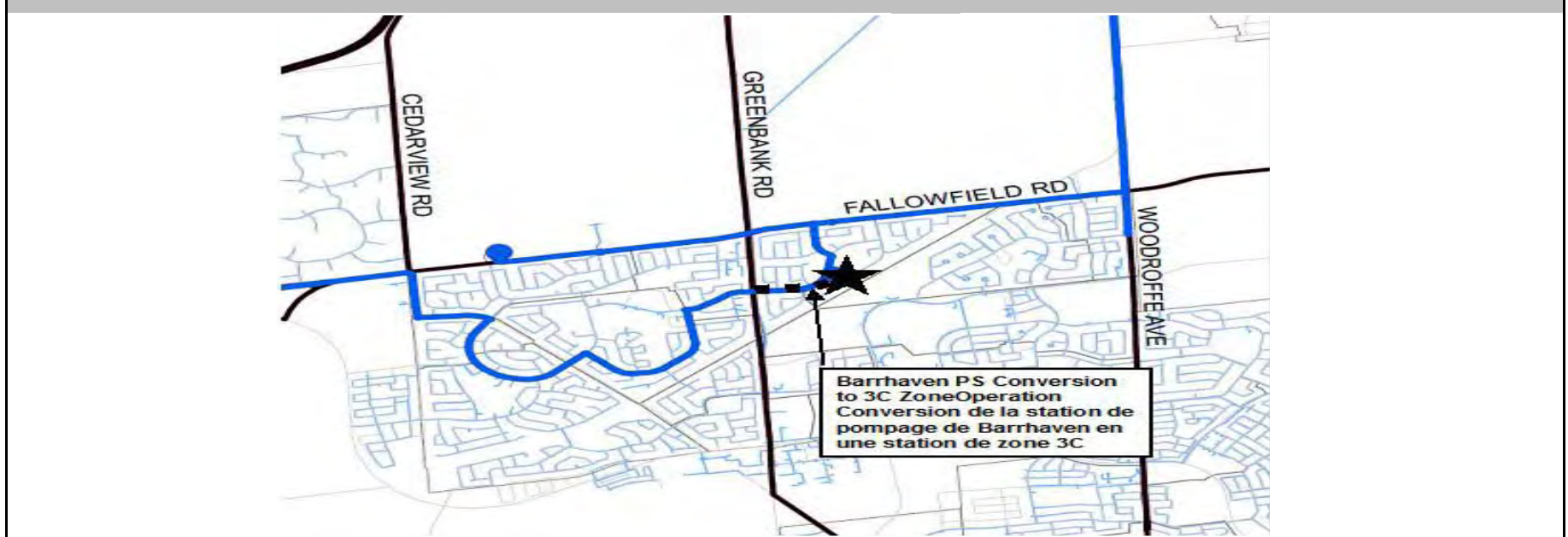
Project Information			Financial Details	
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904975 Barrhaven P.S. Conversion to 2C

Dept: Planning and Growth Management | Category: Growth | Ward: 3 | Year of Completion: 2012

This is the main station supplying the Barrhaven zone. Under future conditions, the 3C zone will be greatly expanded, encompassing the River Ridge area on the east side of the Rideau river, the existing 2W zone areas to the west of the river (including Manotick) and the south part of the Barrhaven zone. Under these conditions, this conversion will contribute to the supply of the expanded 3C zone via the Greenbank watermain. The pump station will continue to serve the Barrhaven Pressure Zone and will become a two-zone station with separate pumps for each zone.

2010 Request	700	Previous Authority	200
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	540
Gas Tax	-	Debt	160
Forecast	2010	2011	2012
Authority	700		
Spending Plan	700		
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

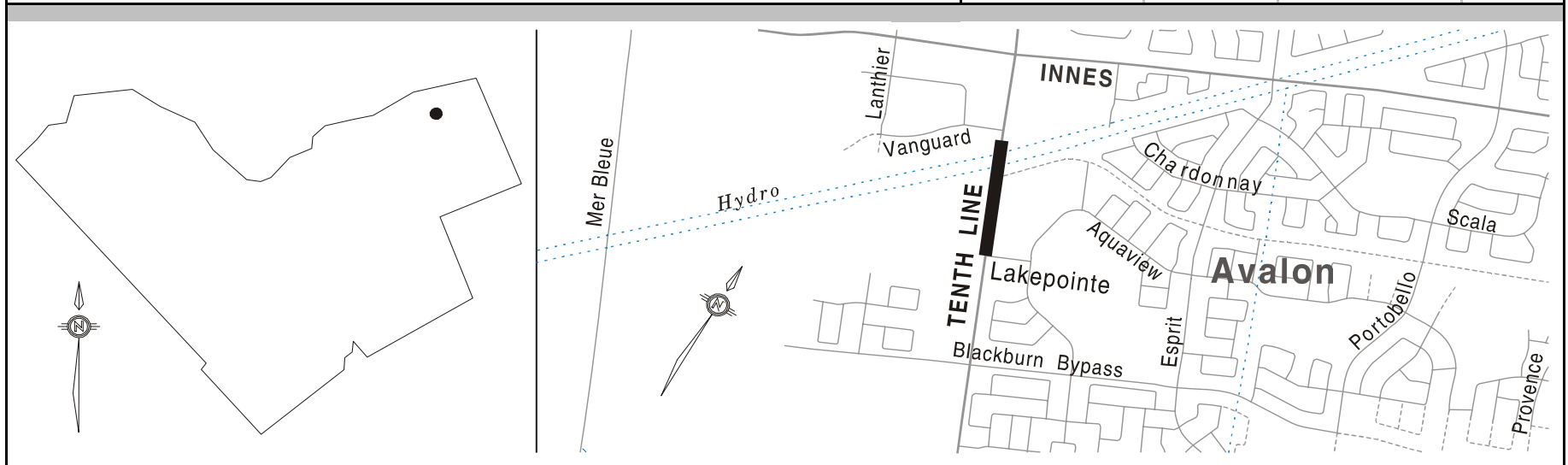
Project Information		Financial Details	
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905431 Tenth Line (Hydro Easement to Lakepointe)

Dept: Planning and Growth Management | Category: Growth | Ward: 19 | Year of Completion: 2012

The upgrade of the watermain along Tenth Line Road from the hydro electric power corridor to Lakepointe Drive is required to provide system reliability within Zone 2E of the City's central water supply system. The link will support existing and new development in the area and is a development charge funded project.

2010 Request	462	Previous Authority	-
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	416
Gas Tax	-	Debt	46
Forecast	2010	2011	2012
Authority	462		
Spending Plan	462		
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

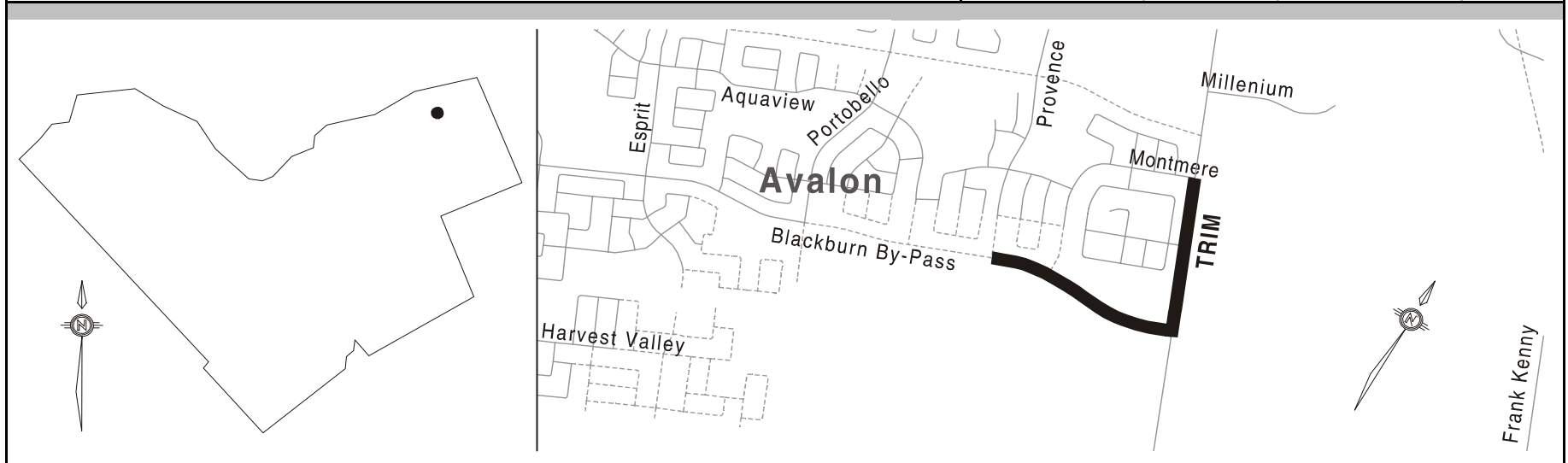
Project Information			Financial Details	
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905432 Trim Road (Pinnacle to BHBP)

Dept: Planning and Growth Management | Category: Growth | Ward: 19 | Year of Completion: 2012

The installation of a watermain along Trim Road from Pinnacle Street to the Blackburn Hamlet Bypass and along the Blackburn Hamlet Bypass from Trim Road to Montmere Avenue will be undertaken concurrently with the widening of Trim Road and the extension of the Blackburn Hamlet Bypass. The looping of the watermain along this corridor serves to accommodate significant growth in the area and to provide system reliability. This is a development charge funded project.

2010 Request	1,103	Previous Authority	-
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	993
Gas Tax	-	Debt	110
Forecast	2010	2011	2012
Authority	1,103		
Spending Plan	1,103		
FTE's	-		
Operating Impact	-		



City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details			
900206 Water Efficiency					
Dept: Environmental Services	Category: Regulatory	Ward: CW	Year of Completion: 2019		
<p>This project's goal is to establish initiatives by which the City can develop effective water efficiency programs to provide water demand management tools. The benefits are effective use of resources, better managed programs that provide reliable information to managers that delay or eliminate the need to expand system capacity solely based on demand criteria. Examples of methods and initiatives include; Public awareness programs, Toilet Replacement, High Volume User programs and distribution of water efficiency kits (aerators, showerheads etc).</p>		2010 Request	1,330		
		Revenues	-	Previous Authority	2,350
		Tax Supported/ Dedicated	-	Rate Supported	875
		Gas Tax	-	Development Charges	455
				Debt	-
		Forecast	2010	2011	2012
		Authority	1,330		
		Spending Plan	2,330		
FTE's	-				
Operating Impact	-				

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details		
905427 Groundwater Management Phase 2				
Dept: Planning and Growth Management	Category: Strategic Initiative	Ward: CW	Year of Completion: 2012	
<p>Phase 1 of the Groundwater Management Strategy called for a number of initiatives to be undertaken immediately. In the approved Committee report for Phase 1, there is the following direction for Phase 2 : "City staff will undertake development of a comprehensive Groundwater Management Strategy and report to Committee on that strategy after the Province makes known new legislation, regulation and municipal involvement in groundwater management activities." The Province created the Clean Water Act, along with a number of rules and regulations, in the context of Source Water Protection, and the time is appropriate for the City to start its efforts towards Phase 2. This work will involve retaining consultants to assist the City in refining the strategy, and carry its mandate. The mandate will include: the development of City-Wide groundwater quality/quantity monitoring network, the implementation of groundwater monitoring program, and the development of guidelines for approving privately serviced subdivisions.</p>	2010 Request	500	Previous Authority	-
	Revenues	-	Rate Supported	60
	Tax Supported/ Dedicated	-	Development Charges	440
	Gas Tax	-	Debt	-
	Forecast	2010	2011	2012
	Authority	500		
	Spending Plan	500		
	FTE's	-		
Operating Impact	-			

City of Ottawa

Service Area: Drinking Water Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details			
905428 Groundwater Studies					
Dept: Planning and Growth Management	Category: Strategic Initiative	Ward: CW	Year of Completion:		2012
<p>This project is for a targeted study for a specific issue. This targeted study will address the viability and sustainability of developing rural services in areas that may be hydro geologically sensitive, such as areas with very little soil.</p>		2010 Request	182	Previous Authority	-
		Revenues	-	Rate Supported	162
		Tax Supported/ Dedicated	-	Development Charges	20
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	182		
		Spending Plan	182		
		FTE's	-		
		Operating Impact	-		
		905682 2010 Stream Restoration Projects			
Dept: ISCS	Category: Strategic Initiative	Ward: 17	Year of Completion:		2013
<p>This project funds stream restoration works identified through Council's subwatershed studies and environmental management plans throughout the city, as well as joint projects with other agencies such as restoration of Pinecrest Creek in cooperation with the National Capital Commission. Projects include plantings along streams and streambed and stream bank restoration.</p> <p>Areas targeted for restoration in the urban area typically are experiencing excessive erosion that impacts the aquatic environment and poses a risk to public safety, private property, and public infrastructure such as roads and transit facilities. Solutions are designed to incorporate the natural function of the stream and serve to restore aquatic and terrestrial habitats while reducing long-term costs of maintaining the stream in a natural channel.</p> <p>Funds will be directed to the Sawmill Creek re-alignment as approved by Council in 2008.</p>		2010 Request	200	Previous Authority	-
		Revenues	-	Rate Supported	200
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	200		
		Spending Plan	200		
		FTE's	-		
		Operating Impact	-		

Wastewater Services

Operating Requirements

City of Ottawa
Environmental Services Department
Wastewater Services - Operating Resource Requirement
In Thousands (\$000)

Operating Resource Requirement	2008	2009		2010	Change Over	
	Actual	Actual	Budget	Estimate	2009 Budget	2008 Actual
<u>Expenditures by Program</u>						
Manager's Office	601	611	608	619	11	18
Wastewater Treatment	17,122	19,437	20,377	22,822	2,445	5,700
Wastewater Collection	12,210	12,985	13,894	15,620	1,726	3,410
Drainage	700	956	1,082	1,106	24	406
Stormwater Management	968	1,015	1,020	1,424	404	456
Customer Serv, envir Prog & Other	8,355	8,324	8,705	8,032	(673)	(323)
Non Departmental	75,208	82,157	81,798	79,543	(2,255)	4,335
Productivity Improvements	-	-	(2,694)	(2,694)	-	(2,694)
Gross Expenditure	115,164	125,485	124,790	126,472	(774)	5,590
Recoveries & Allocations	(1,077)	(2,799)	(3,433)	(2,938)	495	(1,861)
Net Expenditure	114,087	122,686	121,357	123,534	(279)	3,728
<u>Expenditures by Type</u>						
Salaries, Wages & Benefits	14,393	14,941	16,738	18,818	2,080	4,425
Overtime	507	666	475	482	7	(25)
Material & Services	19,753	22,160	23,151	24,680	1,529	4,927
Transfers/Grants/Financial Charges	49,855	56,684	56,645	54,317	(2,328)	4,462
Fleet Costs	1,250	1,237	1,420	1,547	127	297
Program Facility Costs	482	685	707	707	-	225
Other Internal Costs	28,924	29,112	25,654	25,921	267	(3,003)
Gross Expenditures	115,164	125,485	124,790	126,472	1,682	11,308
Recoveries & Allocations	(1,077)	(2,799)	(3,433)	(2,938)	495	(1,861)
Net Expenditure	114,087	122,686	121,357	123,534	2,177	9,447
<u>Revenues By Type</u>						
Federal	-	-	-	-	-	-
Provincial	(177)	(180)	(145)	(145)	-	32
Municipal	-	-	-	-	-	-
Own Funds	-	-	-	-	-	-
Fees and Services	(110,207)	(111,329)	(121,212)	(123,389)	(2,177)	(13,182)
Fines	-	-	-	-	-	-
Other	-	-	-	-	-	-
Total Revenue	(110,385)	(111,509)	(121,357)	(123,534)	(2,177)	(13,149)
Net Requirement	3,702	11,177	-	-	-	(3,702)
Full Time Equivalents	212.49	-	229.32	258.32	29.00	45.83

City of Ottawa
Environmental Services
Wastewater Services - Operating Resource Requirement Analysis
In Thousands (\$000)

Operating Resource Requirement Analysis	2009 Baseline			2010 Adjustments						2010	\$ Change Over '09 Budget	% of Exp. on Comp./ Benefits
	Actual	Budget	Adj. to Base Budget	Maintain Services	Provincial Legislated	Growth	New Services / Needs	Efficiencies	User Fees & Charges	Estimate		
Expenditures by Program												
Manager's Office	611	608	5	6	-	-	-	-	-	619	11	76.7%
Wastewater Treatment	19,437	20,377	213	1,447	213	-	572	-	-	22,822	2,445	26.7%
Wastewater Collection	12,985	13,894	58	549	266	95	758	-	-	15,620	1,726	43.0%
Drainage	956	1,082	11	13	-	-	-	-	-	1,106	24	56.7%
Stormwater Management	1,015	1,020	6	37	61	235	65	-	-	1,424	404	54.9%
Customer Serv, Envir Prog & Oth	8,324	8,705	(1,176)	328	-	-	175	-	-	8,032	(673)	57.3%
Non Departmental	82,157	81,798	(7,500)	5,245	-	-	-	-	-	79,543	(2,255)	0.0%
Productivity Improvements	-	(2,694)	-	-	-	-	-	-	-	(2,694)	-	0.0%
Gross Expenditure	125,485	124,790	(8,383)	7,625	540	330	1,570			126,472	1,682	15.3%
Recoveries & Allocations	(2,799)	(3,433)	570	-	-	-	(75)	-	-	(2,938)	495	
Net Expenditure	122,686	121,357	(7,813)	7,625	540	330	1,495			123,534	2,177	
Percent of 2009 Net Expenditure Budget			-6.4%	6.3%	0.4%	0.3%	1.2%	0.0%	0.0%	1.8%		
Expenditures by Type												
Salaries, Wages & Benefits	14,941	16,738	175	876	480	43	506	-	-	18,818	2,080	
Overtime	666	475	-	7	-	-	-	-	-	482	7	
Material & Services	22,160	23,151	(1,220)	1,434	-	275	1,040	-	-	24,680	1,529	
Transfers/Grants/Financial Charg	56,684	56,645	(7,500)	5,172	-	-	-	-	-	54,317	(2,328)	
Fleet Costs	1,237	1,420	-	31	60	12	24	-	-	1,547	127	
Program Facility Costs	685	707	-	-	-	-	-	-	-	707	-	
Other Internal Costs	29,112	25,654	162	105	-	-	-	-	-	25,921	267	
Gross Expenditures	125,485	124,790	(8,383)	7,625	540	330	1,570			126,472	1,682	
Recoveries & Allocations	(2,799)	(3,433)	570	-	-	-	(75)	-	-	(2,938)	495	
Net Expenditure	122,686	121,357	(7,813)	7,625	540	330	1,495			123,534	2,177	
Revenues By Type												
Federal	-	-	-	-	-	-	-	-	-	-	-	
Provincial	(180)	(145)	-	-	-	-	-	-	-	(145)	-	
Municipal	-	-	-	-	-	-	-	-	-	-	-	
Own Funds	-	-	-	-	-	-	-	-	-	-	-	
Fees and Services	(111,329)	(121,212)	9,440	-	-	-	-	-	(11,617)	(123,389)	(2,177)	
Fines	-	-	-	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	
Total Revenue	(111,509)	(121,357)	9,440						(11,617)	(123,534)	(2,177)	
Percent of 2009 Revenue Budget			-7.8%	0.0%	0.0%	0.0%	0.0%	0.0%	9.6%	1.8%		
Net Requirement	11,177	-	1,627	7,625	540	330	1,495		(11,617)	-	-	
Percent of 2009 Net Requirement Budget			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Full Time Equivalents (FTE's)	-	229.32	-	7.00	11.00	1.00	10.00			258.32	29.00	
Percent of 2009 FTE's			0.0%	3.1%	4.8%	0.4%	4.4%	0.0%	0.0%	12.6%		

**City of Ottawa
Environmental Services**

Wastewater Services - Operating Resource Requirement Explanatory Notes

In Thousands (\$000)

2009 Forecast vs. Budget Variance Explanation	Surplus / (Deficit)		
	Exp.	Rev.	Net
Forecast vs. Budget Variance Explanation			
Operations			
Surplus in Wastewater Treatment due to savings of \$344K in compensation due to vacancies early in the year, savings of \$330K in materials/services and \$266K in internal charges from other Departments	937	-	937
Surplus in Wastewater Collection due to savings of \$421K in compensation due to vacancies throughout the year which resulted in reduced maintenance of approximately \$475K	909	-	909
Surplus in Drainage and Stormwater mainly due to less than planned maintenance on municipal drains	131	-	131
Deficit in Customer Services due to costs associated with the July Kanata flooding event	(156)		(156)
Surplus in Customer Services/Environmental Programs due to vacancies throughout the year	537	-	537
Unachievable efficiency target	(2,694)	-	(2,694)
Deficit in recoveries due to reduced volumes of water purification plant waste discharge to sewer system and less leachate from the Trail Road Landfill discharged of at ROPEC	(634)	-	(634)
Surplus in Provincial Revenues due to increased recovery from the Province for Drainage costs		35	35
Deficit in Liquid Hauled Waste Revenues due to lower than anticipated volumes of liquid waste discharged at ROPEC		(64)	(64)
Total Operations	(970)	(29)	(999)
Non Departmental			
Deficit in Sewer surcharge revenues due to reduced water bill revenues resulting from the decreased water consumption		(8,228)	(8,228)
Deficit Non Departmental Revenues mainly in Investment income due to a lower reserve fund balance than in the past.		(1,591)	(1,591)
Deficit in Non Departmental costs due to increase chargebacks from Surface Operations	(359)	-	(359)
Total Surplus / (Deficit)	(1,329)	(9,848)	(11,177)

City of Ottawa
Environmental Services

Wastewater Services - Operating Resource Requirement Explanatory Notes

In Thousands (\$000)

2009 Baseline Adjustments / Explanations	Increase / (Decrease)			
	Exp.	Rev.	Net 2010 Changes	FTE Impact
Adjustments to Base Budget				
Adjustment for 2009 budget shortfall in Collective Agreement provision	175	-	175	-
Decrease in disposal revenues due to reduced volumes of liquid waste received at ROPEC	-	740	740	-
Decrease in recovery from Solid Waste due to reduced volumes of leachate disposed of at ROPEC	270	-	270	-
Decrease in recovery from Water due to lower than planned volumes of water purification plant waste discharged to ROPEC	300	-	300	-
Increase testing requirements for CSO's and rainfall monitoring	160	-	160	-
Increase in water costs due to consumption requirements	162	-	162	-
Transfer of the Sewer Lateral Program funding to Capital	(1,380)	-	(1,380)	-
	-	-	-	-
Non-Departmental	-	-	-	-
Adjustment to sewer surcharge revenues due to significant reduction in volume of water billed and associated water revenues	-	7,500	7,500	-
Adjustment to the Capital PAYG contribution due to the reduced sewer surcharge revenues	(7,500)	-	(7,500)	-
Adjustment to the interest earnings due to lower than planned returns on investments	-	1,200	1,200	-
	-	-	-	-
Total Adjustments to Base Budget	(7,813)	9,440	1,627	-

**City of Ottawa
Environmental Services**

Wastewater Services - Operating Resource Requirement Explanatory Notes

In Thousands (\$000)

2010 Pressure Category / Explanation	Increase / (Decrease)			
	Exp.	Rev.	Net 2010 Changes	FTE Impact
Maintain Services				
All programs include an adjustment for 2010 contract settlements, increments and benefit adjustments	532	-	532	-
Contractual inflationary increase to biosolids disposal costs	410	-	410	-
Inflationary increases to hydro, gas and water costs	366	-	366	-
Contractual inflationary increase to chemical costs	280	-	280	-
Contractual inflationary increase to sewer cleaning costs	95	-	95	-
Market rate adjustment for skills trade and gas fitters	35	-	35	-
Increased Fleet costs due to inflation on fuel and maintenance	31	-	31	-
Contractual inflationary increase to lab costs	40	-	40	-
Various other inflationary increase requirements	243	-	243	-
Sewer Inspections - Half year costs for requirement for 1 additional Coordinator	46	-	46	1.00
Maintenance Management - Half year costs for requirement for 1 additional Maintenance Management Planner to support the Pumping Station Program	46	-	46	1.00
Sewer Maintenance - Half year costs for requirement for 1 additional Sewer Maintenance Coordinator	46	-	46	1.00
Wastewater Treatment - Half year costs for requirement for 1 Database Technician for data management, data mining and data trending	42	-	42	1.00
Wastewater Treatment - Half year costs for requirement for 1 Coordinator to assist with scheduling and support	46	-	46	1.00
Wastewater Treatment - Half Year costs for Project Manager to work on business cases, business process improvement, service levels, benchmarking, performance management, etc	55	-	55	1.00
Branch Management - Half year costs for one Utility Clerk to improve support for data entry and field dispatching	35		35	1.00
Inflationary increase to various internal charges from other City Departments and Branches	32		32	-
Non-Departmental			-	-
Increase in the Administration overhead allocation due to collective bargaining increases	73		73	-
Increase in the Administration overhead allocation due to Council approval of omnibus motion for the tax budget	485		485	-
Reduction in Debt Servicing costs	(10)		(10)	-
Increase to the PAYG Contribution generated from additional revenues from the sewer surcharge increase to fund new wastewater capital requirements such as the ORAP and Kanata Flooding Remediation	4,697		4,697	-
Total Maintain Services	7,625	-	7,625	7.00

**City of Ottawa
Environmental Services**

Wastewater Services - Operating Resource Requirement Explanatory Notes

In Thousands (\$000)

2010 Pressure Category / Explanation	Increase / (Decrease)			
	Exp.	Rev.	Net 2010 Changes	FTE Impact
Provincial Legislated				
Sewer Maintenance - Half year costs for 2 Operator/Inspectors and 1 Supervisor for Operator oversight and construction supervision (includes Fleet operating costs of \$36K)	157	-	157	3.00
Sewer Maintenance - Half year compensation costs for 1 Sewer Maintenance Crew for the investigation, identification and repair of cross connections (includes Fleet operating costs of \$12K)	109	-	109	2.00
Stormwater Management - Half year compensation costs for 1 additional Stormwater Management Coordinator due to increased pond monitoring requirements (includes Fleet operating costs of \$12K)	61	-	61	1.00
Wastewater Treatment - Half year compensation costs for 4 Process Technologists due to the requirement to add 1 part time per shift to oversee and control the collection system	170	-	170	4.00
Wastewater Treatment Biosolids - Half year compensation costs for the requirement of a Technologist to oversee the supervision of the new 100% biosolids land application program	43	-	43	1.00
	-	-	-	-
Total Provincial Legislated	540	-	540	11.00
Growth				
Sewer Maintenance - Sewer cleaning costs due to system growth	95	-	95	-
Stormwater Management - Stormwater pond monitoring requirements as well as half year costs for a Field Technician due addition of 18 new stormwater facilities, 4 of which require extensive monitoring and reporting requirements due to Certificate of Approval conditions (includes Fleet operating costs of \$12K)	235	-	235	1.00
	-	-	-	-
Total Growth	330	-	330	1.00

**City of Ottawa
Environmental Services**

Wastewater Services - Operating Resource Requirement Explanatory Notes

In Thousands (\$000)

2010 Pressure Category / Explanation	Increase / (Decrease)			
	Exp.	Rev.	Net 2010 Changes	FTE Impact
New Services / Needs				
Industrial Waste Program - Half year compensation costs for an Industrial Waste Coordinator to oversee workload and improve hauled liquid waste audits to maximize agreement revenues with the haulers	50	-	50	1.00
Environmental Programs - Half year compensation costs for an additional Field Technician due to the increased reporting requirements for Environmental Effects Monitoring and the Ottawa River Action Plan	50	-	50	1.00
Laboratory Services - Half year compensation costs for an additional Lab Technician to incorporate the lab testing from the former RPAM group	75	-	75	1.00
Increase in recoveries from other City Departments/Branches for lab services with the additional FTE above	(75)	-	(75)	-
Wastewater Collection - Requirements due to Real Time Control of the wastewater system (Flow Metric, Rainfall Data and hydro)	490	-	490	-
Sewer Maintenance - Increased sanitary and storm sewer cleaning requirements in debri laden areas and spot repairs to pipes and structures as a result of increased inspections	550	-	550	-
Sewer Maintenance Customer Service - Half year compensation costs for a Notification Clerk for the new notification Protocol	35	-	35	1.00
Sewer Maintenance - Half year compensation costs for a new Crew for critical manholes, new monitoring stations and overflows (includes Fleet operating costs of \$12K)	94	-	94	2.00
Sewer Maintenance - Half year compensation costs for 1 Sewer Maintenance Operator/Inspector for pre-commissioning inspection of new Infrastructure as recommended by the Auditor General (includes fleet operating costs of \$12K)	79	-	79	1.00
Stormwater Management - Half year compensation costs for a Stormwater Coordinator to improve leadership and coordination of stormwater operations	65	-	65	1.00
Wastewater Treatment - Half year compensation costs for 1 Process Operator Mechanic in Wastewater Treatment to deal with the excessive backlog of work and aging plant	40	-	40	1.00
Facilities Maintenance - Half year compensation costs for 1 Technical Assistant to ensure Life, Safety and Regulatory changes are complied with	42	-	42	1.00
	-	-	-	-
Total New Services / Needs	1,495	-	1,495	10.00
User Fees & Charges				
See following user fee schedule for details on the specific rates.	-	(11,617)	(11,617)	-
	-	-	-	-
Total User Fees & Charges	-	(11,617)	(11,617)	-
Total Budget Changes	2,177	(2,177)	-	29.00

City of Ottawa
Environmental Services
Wastewater Services - User Fees

User Fees	2008 Rate	2009 Rate	2010 Rate	% Change Over		Effective Date	2010 Revenue
	\$	\$	\$	2009	2008	DD-MMM-YY	(\$000)
Wastewater Services							
<u>Sanitary and Storm Sewer Systems</u>							
Sewer Use Program - Disposal Fees						01-May-10	
Septic Tank Strength Liquid Material (per cubic meter, as approved in Hauled Liquid Waste Strategy Report)	6.92	9.31	11.76	26.3%	69.94%		
Holding Tank Strength Liquid Material (per cubic metre, as approved in Hauled Liquid Waste Strategy Report)	2.72	2.84	2.95	4.0%	8.58%		
Liquid Material Generated Outside the City of Ottawa (per cubic metre, inflationary increase of 4%)	22.09	23.06	23.98	4.0%	8.57%		
Sewer Use Program - Permit Fees						01-May-10	
Annual Permit Fee	211.00	220.00	229.00	4.1%	8.5%		
Annual Permit Revision Fee	118.00	123.00	128.00	4.1%	8.5%		
Sewer Use Program - Discharge Fees						01-May-10	
Parameters in Sewage							
Biochemical Oxygen Demand (per kg)	1.25	1.31	1.36	4.0%	8.6%		
Suspended Solids (per kg)	0.67	0.69	0.72	4.0%	8.6%		
Phenolic Compounds (per kg)	1.25	1.31	1.36	4.0%	8.6%		
Kjeldahl Nitrogen (per kg)	4.99	5.21	5.42	4.0%	8.6%		
Phosphorus (per kg)	2.01	2.10	2.18	4.0%	8.6%		

City of Ottawa
Environmental Services
Wastewater Services - User Fees

User Fees	2008 Rate	2009 Rate	2010 Rate	% Change Over		Effective Date	2010 Revenue
	\$	\$	\$	2009	2008	DD-MMM-YY	(\$000)
Fees for discharges of sewage containing water from a source separate from the City's water distribution system (for each cubic meter or part thereof)	0.58	0.60	0.63	4.0%	8.6%		
Sewer Use Program - Administrative Fees						01-May-10	
Special Discharge Agreement Fee	820.00	856.00	890.00	4.0%	8.5%		
Sanitary Sewer Agreement Fee	585.00	611.00	635.00	3.9%	8.5%		
Compliance Program Fee	820.00	856.00	890.00	4.0%	8.5%		
Sanitary Sewer Agreement Revision Fee (per revision)	88.00	92.00	96.00	4.3%	9.1%		
Compliance Program Revision Fee (per revision)	177.00	185.00	192.00	3.8%	8.5%		
CPI Inflationary increase to Permit, Discharge & Admin Fees							(3)
Treatment and Processing						01-May-10	
Village Walk Community (per month)	64.00	67.00	70.00	4.5%	9.4%		(2)
Laboratory Services (Tests)						01-May-10	
Fees have been revised based on an extensive review of laboratory costs that resulted in the implementation of a full cost recovery funding model for Lab services							
Alkalinity	6.24	6.52	8.87	36.1%	42.1%		
Alkalinity Brinkman (wastewater)			13.35				
Biochemical Oxygen	11.40	11.90	14.60	22.7%	28.1%		
Carbonaceous Biochem	11.40	11.90	14.60	22.7%	28.1%		
Chloride	8.74	9.12	14.32	57.0%	63.9%		
Chemical Oxygen Demand	8.86	9.25	9.49	2.6%	7.1%		
Conductivity	6.24	6.52	8.87	36.1%	42.1%		

City of Ottawa
Environmental Services
Wastewater Services - User Fees

User Fees	2008 Rate	2009 Rate	2010 Rate	% Change Over		Effective Date	2010 Revenue
	\$	\$	\$	2009	2008	DD-MMM-YY	(\$000)
Dissolved Organic Carbon	17.56	18.33	12.53	-31.7%	-28.7%		
E. coli (wastewater)	5.18	5.41	9.99	84.8%	92.9%		
Fluoride	8.74	9.12	14.32	57.0%	63.9%		
Specific gravity	3.51	3.67	18.47	403.4%	425.5%		
Heterotrophic Plate	4.52	4.72	10.61	124.7%	134.5%		
Halo Acetic Acid			114.03				
ICP Industrial Waste - 28 elements	22.42	23.40	22.56	-3.6%	0.6%		
ICP Metals Scan - 5 elements	7.59	7.93	11.69	47.4%	53.9%		
ICP Metal Scan - 28 elements	18.21	19.01	19.56	2.9%	7.4%		
Ammonia - Surface/Waste Water	8.81	9.20	9.69	5.3%	9.9%		
Ion Chromatography	6.19	6.46	14.32	121.7%	131.5%		
Mercury			29.02				
Nitrates	8.74	9.12	14.32	57.0%	63.9%		
PH	6.24	6.52	8.87	36.1%	42.1%		
Reactive Phosphorus	8.81	9.20	9.69	5.3%	9.9%		
Soluble Biochemical	11.40	11.90	15.58	30.9%	36.7%		
Soluble Carbonaceous	11.40	11.90	15.58	30.9%	36.7%		
soluble Chemical Oxy	8.86	9.25	9.49	2.6%	7.1%		
Sulphate	8.74	9.12	14.32	57.0%	63.9%		
Soluble Phosphorus	9.52	9.94	13.03	31.0%	36.8%		
Soluble Kjeldahl Nitrog	9.52	9.94	13.03	31.0%	36.8%		
Total Coliforms - E-Coli (DC)	3.86	4.03	9.20	128.4%	138.4%		
Total Coliforms - E-Coli (PA)			17.32				
Total Coliforms - E-Coli (MPN)			18.06				
Total Kjeldahl Nitro	6.56	6.85	12.90	88.3%	96.5%		

City of Ottawa
Environmental Services
Wastewater Services - User Fees

User Fees	2008 Rate	2009 Rate	2010 Rate	% Change Over		Effective Date	2010 Revenue
	\$	\$	\$	2009	2008	DD-MMM-YY	(\$000)
Total Phosphorus	6.56	6.85	12.90	88.3%	96.5%		
Total Solid - Waste Water	9.37	9.78	9.34	-4.5%	-0.3%		
Total Solid - Solid	11.71	12.22	9.34	-23.6%	-20.2%		
Total Suspended Solid	4.63	4.84	8.72	80.2%	88.2%		
Trihalomethane			52.77				
Volatile Acids	11.71	12.22	32.49	165.8%	177.5%		
Volatile Solids - Waste Water	5.85	6.11	9.94	62.6%	69.8%		
Volatile Solids - Solids	11.71	12.22	10.12	-17.2%	-13.6%		
Volatile Suspended Solid (Water)	2.47	2.58	10.07	290.1%	307.3%		
Drinking Water anion (Chloride, fluoride, ion chromatograph NO2 and NO3, sulphate)	8.74	9.12	14.32	57.0%	63.9%		
Standard Chemistry (Alkalinity, Conductivity, pH)	6.24	6.52	8.87	36.1%	42.1%		
Total Nutrients (Ammonia + Ammonia, Reactive Phosphorus)	8.81	9.20	9.69	5.3%	9.9%		
tkn/tp analysis (Total Kjeldahl Nitro, Total Phosphorus)	8.78	9.17	12.90	40.7%	46.9%		
Inflationary increase to rates for various lab tests listed above							(5)
Total Operational Wastewater Services							(10)
Non Departmental							
Sewer Surcharge for Sanitary and Storm Sewer Systems							
For each owner or occupant receiving water supply service:	100%	100%	116%	16.0%	16.0%	01-May-10	(11,607)
Total Proposed Increases							(11,617)

Capital Requirements

Wastewater Services

CW	City Wide	Ward 6		Ward 12	-	Ward 18	
Ward 1		Ward 7		Ward 13	-	Ward 19	
Ward 2		Ward 8		Ward 14		Ward 20	
Ward 3		Ward 9	-	Ward 15		Ward 21	
Ward 4		Ward 10	-	Ward 16		Ward 22	
Ward 5		Ward 11	-	Ward 17		Ward 23	

City of Ottawa
Service Area: Wastewater Services
 In Thousands (\$000)

2010 Draft Budget

Service Category	2010 Draft Capital Budget	Renewal of City Assets	Growth	Regulatory	Strategic Initiatives
Wastewater Services - General	4,695	2,040	360	1,470	825
Wastewater Treatment	10,525	5,025	-	5,500	-
Wastewater and Stormwater Collection	39,475	35,537	3,438	-	500
Municipal Drains	1,830	-	-	1,830	-
Integrated Program*	38,152	38,152	-	-	-
Total	94,677	80,754	3,798	8,800	1,325

*Includes Wastewater portion of Integrated program

City of Ottawa
Service Area: Wastewater Services
 In Thousands (\$000)

2010 Draft Budget

Category	2010 Draft Capital Budget	Revenues	Tax Supported / Dedicated Reserves	Rate Supported Reserves	Development Charges	Debt
Renewal of City Assets*	80,754	17,533	228	29,175	1,981	31,837
Growth	3,798	-	-	106	3,556	136
Regulatory	8,800	1,830	-	1,470	-	5,500
Strategic Initiatives	1,325	-	-	925	-	400
Total	94,677	19,363	228	31,676	5,537	37,873

*Includes Wastewater portion of Integrated program

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Wastewater Treatment Program

Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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The Robert O. Pickard Environmental Centre (ROPEC) treats all of the City of Ottawa's wastewater to ensure environmental protection. This program is to ensure the protection of this investment through projects that keep the facility Technologically up to date and reliable.

Key 2010 infrastructure renewal projects include:

- Sluice Gates and Concrete Repairs
- Lab Equipment Purchase/Replacement

2010 Request	4,800	Previous Authority	10,479
Revenues	-	Rate Supported	800
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	4,000
Forecast	2010	2011	2012
Authority	4,800		
Spending Plan	15,791		
FTE's	-		
Operating Impact	-		

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>902141 Lab Equipment Purchase/Replacement</p> <p>Laboratory Services are provided to the Water and Wastewater Branch by a centralized group. Analytical equipment required to support this function have a life cycle of approximately 5-10 years. This project provides for an equalized replacement schedule of this highly specialized and automated equipment. In addition, this project also includes the implementation of the new Laboratory Information Management System (LIMS) in 2010. This replacement is necessary in order to maintain service and quality levels related to laboratory licensing and accreditation as required by Ontario's Safe Drinking Water Regulations.</p>	<p>CW</p>		<p>300</p>
<p>902965 Wastewater Facilities Upgrades</p> <p>The Wastewater and Drainage Services Division operates and maintains ROPEC and approximately 75 pumping stations. This project is for the rehabilitation and upgrading of non-process related structures and HVAC/Life safety equipment. 2009 Scope of Works include: 1) On-going rehabilitation and replacement of doors, ladders, handrails, paint application 2) HVAC system life cycle replacement 3) Window replacements 4) Building automation upgrades 5) Elevator drive replacement 6) RAS/WAS ventilation upgrades.</p>	<p>CW</p>		<p>500</p>
<p>905756 ROPEC-Sluice Gates and Concrete Repairs</p> <p>The screening & degrit facility provides the required preliminary treatment at the Pickard Centre. Replacement of 22 isolation gates is required. The existing gates are inoperable due to corrosion which interferes with carrying out maintenance to ensure appropriate delivery of service. Gate replacement is expected to cost approximately \$3 millions. Significant repairs to concrete channels and tank walls are also required. Deterioration of the concrete is worsening. Concrete repair work is estimated to be \$1 million.</p>	<p>11</p>		<p>4,000</p>

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details			
904967 Wastewater and Drainage Roofing					
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion:	On-going	
<p>The City of Ottawa owns and operates 137 Wastewater Collection and Treatment facilities, made up of 17 major operating buildings and 120 remote sites in support of the wastewater management program. Roof replacements at the end of their life span typically on a 20 to 25 year cycle, form part of the planned maintenance of these wastewater treatment facilities and pumping stations. The up-keep and replacement of these roofs is paramount in ensuring that the work environment of these facilities is kept safe, warm and dry.</p>		2010 Request	225	Previous Authority	200
		Revenues	-	Rate Supported	225
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	225		
		Spending Plan	245		
		FTE's	-		
		Operating Impact	-		
905555 Sawmill Creek SWM Pond					
Dept: Environmental Services	Category: Renewal of City Assets	Ward: 16	Year of Completion:	2015	
<p>In lieu of conventional end-of -pipe monitoring, the Certificate of the Approval(CofA) for the Sawmill Creek Storm Water Management Facility requires a “Search and Destroy Program” for water quality improvement for Sawmill Creek. Program is expected to be carried out over approximately five years with reporting to the Ministry of the Environment. Specific activities under the program: (a) Monitoring of effluent quality; (b) Identifying polluted discharges; (c) Determining the source(s) of polluted discharges; (d) Notifying appropriate landowners and agencies of the sources of pollution identified at subsection (c) above and their requirement to rectify the problem; and, (e) Testing to confirm the elimination of the sources of pollution.</p>		2010 Request	250	Previous Authority	-
		Revenues	-	Rate Supported	50
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	200
		Forecast	2010	2011	2012
		Authority	250		
		Spending Plan	250		
		FTE's	-		
		Operating Impact	-		

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details			
905757 Monahan Constructed Wetland Rehab						
Dept: Environmental Services	Category: Renewal of City Assets	Ward: 23	Year of Completion:		2015	
<p>The City of Ottawa requires an in-depth assessment of the condition of this facility and a recommended strategy to address issues affecting erosion, stability, water quality, maintenance and aesthetics.</p> <p>The work should include but is not limited to; a review of the original design, geotechnical review and site investigations to define the areas prone to erosion, terrestrial and aquatic vegetation surveys, aquatic habitat inventory, present sediment accumulations, hydraulic analysis, and a historical water quality review as it relates to the above. The result of these assessment works will be the production of a detailed, phased strategy that will determine the most effective methods to repair/stabilize areas where erosion and stability issues are of immediate concerns, address erosion and stability issues in the long-term, determine the need, timing and method for sediment removal and disposal from the wet cell and forebays, establish a plan to improve facility water quality performance. Review the CofA for this facility and propose necessary amendments to complete necessary works and recommend alternative long-term monitoring/effluent requirements and create a new operation and maintenance manual (if required).</p>			2010 Request	500	Previous Authority	-
			Revenues	-	Rate Supported	500
			Tax Supported/ Dedicated	-	Development Charges	-
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	500		
			Spending Plan	500		
			FTE's	-		
Operating Impact	-					

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details		
905004 ORF-Ottawa River Quality Model				
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2012	
<p>This Project is designed to provide supplemental project support to the Ottawa River Action Plan in particular the Water Quality Model project. This includes the ongoing characterization of storm sewer inputs and natural watercourse impacts., the assessment of river inputs not normally monitored by the City of Ottawa.(the province of Quebec including the Gatineau River).The refinement /calibration of a bacteriological fate predictive model shall also be included in the project.</p>	2010 Request	200	Previous Authority	272
	Revenues	-	Rate Supported	200
	Tax Supported/ Dedicated	-	Development Charges	-
	Gas Tax	-	Debt	-
	Forecast	2010	2011	2012
	Authority	200		
	Spending Plan	472		
	FTE's	-		
	Operating Impact	-		
	905762 ORAP- Monitoring and Source Control Programs			
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Ongoing	
<p>This ORAP project monitors system inputs at source in order to provide information to the ORAP on the range and scope of water contaminants entering the City's water infrastructure. This monitoring will support future operational planning in determining areas of primary source protection focus. Current City source protection programs will be assessed and prioritized . Recommendations to develop new programs, the continuance or enhancement of existing programs will be an ongoing exercise.</p>	2010 Request	260	Previous Authority	-
	Revenues	-	Rate Supported	260
	Tax Supported/ Dedicated	-	Development Charges	-
	Gas Tax	-	Debt	-
	Forecast	2010	2011	2012
	Authority	260		
	Spending Plan	-		
	FTE's	-		
	Operating Impact	-		

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In Thousands (\$000)

Project Information			Financial Details			
904752 Barrhaven South Oversizing						
Dept: Planning and Growth Management	Category: Renewal of City Assets	Ward: 3	Year of Completion:		2012	
<p>In accordance with the Barhaven South Master Servicing Study, trunk sanitary sewers have been designed to service the area defined in the Community Design Plan. In accordance with the Development Charge By-Law, the City is required to reimburse developers for the oversizing portion of sanitary sewers which are constructed in a given year. This account is required for reimbursing developers for constructing the oversized sanitary sewers.</p>			2010 Request	1,100	Previous Authority	-
			Revenues	-	Rate Supported	1,000
			Tax Supported/ Dedicated	-	Development Charges	-
			Gas Tax	-	Debt	100
			Forecast	2010	2011	2012
			Authority	1,100		
			Spending Plan	1,100		
			FTE's	-		
			Operating Impact	-		
			905417 Infrastructure Master Plan (Sewer)			
Dept: Planning and Growth Management	Category: Renewal of City Assets	Ward: CW	Year of Completion:		2012	
<p>This request is to fund master planning of the wastewater system. Requirements for 2010 are for new sanitary sewer hydraulic model development and to undertake wastewater master planning for the west. Funds may also be used to augment sewer flow monitoring.</p>			2010 Request	350	Previous Authority	-
			Revenues	-	Rate Supported	276
			Tax Supported/ Dedicated	-	Development Charges	74
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	350		
			Spending Plan	350		
			FTE's	-		
			Operating Impact	-		

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In Thousands (\$000)

Project Information		Financial Details			
905418 Infrastructure Master Plan (Storm)					
Dept: Planning and Growth Management	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2012		
<p>This request is to fund studies to develop stormwater retrofit program for one stormwater catchment in 2010. The retrofit program identifies capital works and policies needed to upgrade or provide stormwater management on older sewersheds.</p>		2010 Request	350	Previous Authority	-
		Revenues	-	Rate Supported	278
		Tax Supported/ Dedicated	-	Development Charges	72
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	350		
		Spending Plan	350		
		FTE's	-		
		Operating Impact	-		
		905424 Barrhaven South Oversizing North of the Jock River			
Dept: Planning and Growth Management	Category: Renewal of City Assets	Ward: 3	Year of Completion: 2015		
<p>The City of Ottawa Infrastructure Master Plan has identified the need for the South Nepean Sanitary Collector Sewer to be extended north of the Jock River. The South Nepean Collector Wastewater Servicing Study and Functional Design identifies sub-trunk sewer alignments for this system. This account is required for reimbursing developers for constructing oversized sanitary sewers within this system. The Development Charge By-Law requires the City to pay developers for the oversizing of sanitary sewers which are constructed in a given year.</p>		2010 Request	50	Previous Authority	-
		Revenues	-	Rate Supported	45
		Tax Supported/ Dedicated	-	Development Charges	5
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	50		
		Spending Plan	50		
		FTE's	-		
		Operating Impact	-		

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In Thousands (\$000)

Project Information		Financial Details			
905560 ORF - Eastern Subwatershed SWM Retrofit					
Dept: Planning and Growth Management	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2012		
<p>This study is a component of the Ottawa River Action Plan. It will identify a strategy (recommended projects, programs, priorities) for Bilberry, Voyageur and Green's Creeks that will contribute to improved water quality, reduced erosion, improved stream health and reduced beach closures.</p>	2010 Request	750	Previous Authority	-	
	Revenues	500	Rate Supported	225	
	Tax Supported/ Dedicated	-	Development Charges	25	
	Gas Tax	-	Debt	-	
	Forecast	2010	2011	2012	
	Authority	750			
	Spending Plan	750			
	FTE's	-			
	Operating Impact	-			
	900257 Water Environment Protection Short Term Initiatives				
Dept: Environmental Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: On-going		
<p>This initiative provides for the investigation and evaluation of water resource management approaches and monitoring technologies to recommend cost effective rehabilitation solutions and implementation strategies. Projects include: - eco-system monitoring of city tributaries; - Monitoring of emerging parameters/contaminates of concern; - Cross-connection identification program to support the Lower Rideau River Strategy, (endorsed by Council on 2006-11-22). Environment Effects Monitoring of the ROPEC effluent and combined sewer overflow sites required by Environment Canada and MOE Regulations (F5.5); - Studies to investigate upstream pollution sources at city beaches.</p>	2010 Request	152	Previous Authority	1,853	
	Revenues	-	Rate Supported	121	
	Tax Supported/ Dedicated	-	Development Charges	31	
	Gas Tax	-	Debt	-	
	Forecast	2010	2011	2012	
	Authority	152			
	Spending Plan	171			
	FTE's	-			
	Operating Impact	-			

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In Thousands (\$000)

Program Information	Financial Details
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905466 Lifecycle Renewal Fleet - Waste Water Services

Dept: Public Works	Category: Renewal of City Assets	Ward: CW	Year of Completion: 2012
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This program provides funding authority for Municipal vehicle and equipment scheduled for replacement, life extension, modification, or major repair. The timely replacement of vehicles and equipment that have reached their life expectancy, or are no longer suitable or economical to operate, helps ensure the provision of a cost-effective fleet service. Vehicles and equipment replacement decisions are guided by the ongoing study of the condition of each vehicle, its application, and an assessment of its remaining useful life. All vehicles and equipment scheduled for replacement are inspected and evaluated to confirm the requirement. Commitments for vehicle purchases must be made at least one year prior to delivery. Further information on the replacement plan is contained in the 2010 Municipal Fleet Replacement Plan which was approved by Council ACS2009-COS-FLT-0020. This report also advanced 2010 funding into 2009 of \$4,000,000 to meet award requirement for unit deliveries.

This project is part of a program that flows across Service Areas which consists of the following:

Fire Services	\$3,428
Paramedic Services	\$3,113
By-Law Services	\$ 257
Transportation Services - Roadways	\$7,406 - advanced \$4,000 in 2009
Library	\$ 80
Fleets Services	\$ 540
Solid Waste	\$ 185
Wastewater Services	\$ 228
Water Services	\$ 586

2010 Request	228	Previous Authority	424
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	228	Development Charges	-
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	228		
Spending Plan	228		
FTE's	-		
Operating Impact	-		

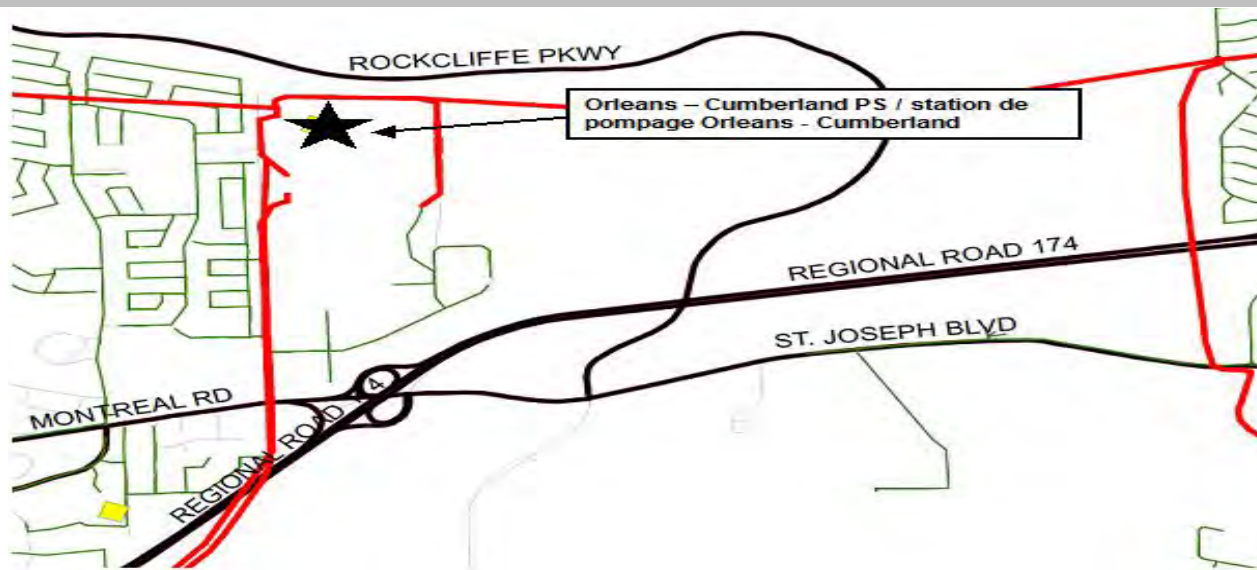
Project Information		Financial Details	
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900228 Orleans Cumberland Flood Protection

Dept: Planning and Growth Management	Category: Renewal of City Assets	Ward: 19	Year of Completion: 2012
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A major pumping station is planned for the end of the Orleans - Cumberland collector to improve the hydraulic grade line, avoid pipe sedimentation and provide additional pumping capacity. This request is for additional authority based on current estimates.

2010 Request	2,710	Previous Authority	14,223
Revenues	-	Rate Supported	2,710
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	2,710		
Spending Plan	2,710		
FTE's	-		
Operating Impact	40		



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In Thousands (\$000)

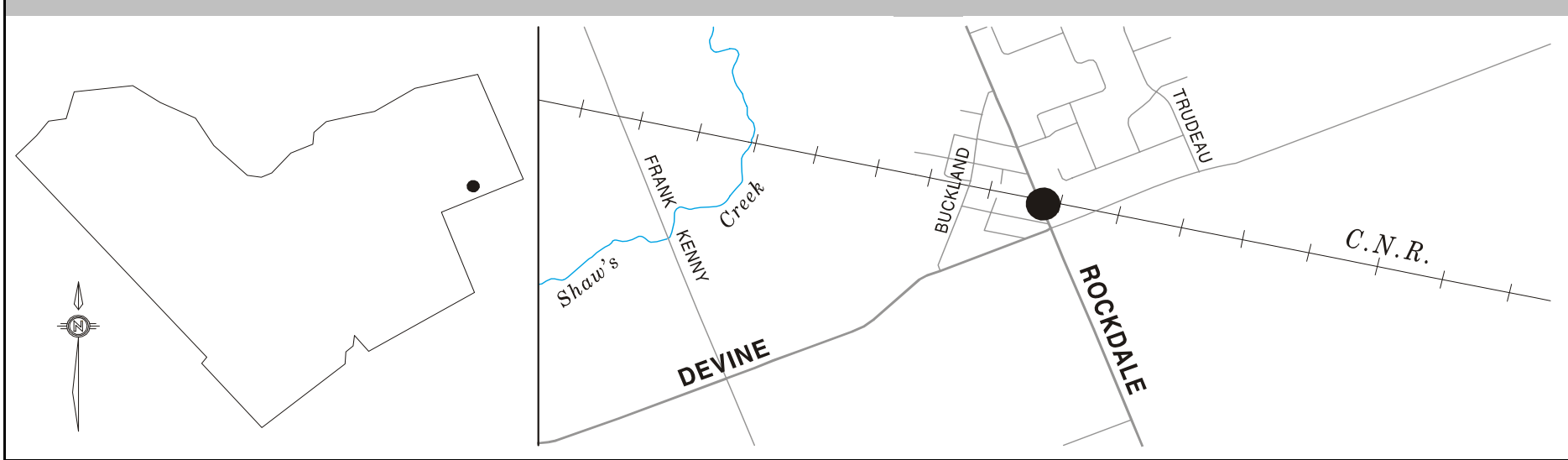
Project Information	Financial Details		
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905422 Vars Culverts

Dept: Planning and Growth Management	Category: Renewal of City Assets	Ward: 19	Year of Completion: 2012
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As identified in the Master Drainage Plan for the Village of Vars Expansion Area, existing culverts under the CN Railway corridor and Devine Road require upgrading to accommodate increased stormwater flows associated with development upstream. This is a development charge funded project.

2010 Request	192	Previous Authority	
Revenues	-	Rate Supported	152
Tax Supported/ Dedicated	-	Development Charges	40
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	192		
Spending Plan	192		
FTE's	-		
Operating Impact	-		



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In Thousands (\$000)

Program Information	Financial Details
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Structures Program - Rate Supported

Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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The Structures - Rate Supported Program provides for condition assessments, preventative maintenance, rehabilitation, and reconstruction works undertaken on the City's existing culverts.

The 2011 - 2012 forecast is based on bulk allocations that will be detailed in future budget submissions.

Detailed information and costs associated with specific components and projects directly follows this program summary page.

2010 Request	6,840	Previous Authority	-
Revenues	-	Rate Supported	200
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	6,640
Forecast	2010	2011	2012
Authority	6,840		
Spending Plan	6,840		
FTE's	-		
Operating Impact	-		

Project	Ward	Location/Description	\$000's
905533 Scoping Pre/Post Drainage Culverts - 2010	CW	Renewal	200
<p>Scoping and design briefs are necessary to adequately define conditions, coordinate requirements, and scope projects prior to initiating design stages. Detailed condition assessment, structure evaluation, engineering studies, and lifecycle based renewal options analysis are key components of this work. The outcomes of this work are the inputs to design and construction phases of the project delivery processes. Post construction funding is required to address assessments and unplanned/unexpected adjustments outside the original implementation funding envelopes. Design and construction authority requests will be programmed as part of future capital budgets once these initiatives are complete and project scope is fully defined.</p>			
Prince of Wales Dr	22	1.65 km N of Greenbank Rd Con II Lot 10 (SN 118790)	20
Prince of Wales Dr	21	2.35 km N of Bankfield Rd Con II Lot 5 (SN 118830)	20
Prince of Wales Dr	21	2.10 km N of Bankfield Rd Con II Lot 4 (SN 118840)	20
Des Trembles Av O/P Twin Culvert	19	E of 2915 Des Trembles AV Con 1OS Lot 10 (SN 890270-1 & -2)	25
Bank St [Old Hwy 31]	10	0.02 km N of Conroy Rd Con IV Lot 14 (SN 228600)	20
Bank St [Old Hwy 31]	10	0.50 km N of Conroy Rd Con IV Lot 13 (SN 228610)	20
Bank St [Old Hwy 31]	10	1.95 km N of Conroy Rd Con IV Lot 8 (SN 228630)	20
Lodge Rd	22	0.01 km E of Prince of Wales Rd Con I Lot 10 (SN 118795)	15
Marvelville Rd Con VIII Lot 35/36	20	1.50 km E of Bank St Con VII Lot 35/36 (SN 888120)	20
Dalmeny Rd Culvert Con VI Lot 35	20	2.75 km E of Stagecoach Rd (SN 888150)	20
Cut Off			
Burton Rd Culvert Con 10 Lot 28	19	0.40 km E of Frontier Rd (SN 898470)	15
Deerwood Dr	5	0.01 km N of Panmure Rd Con VI Lot 1 (SN 438780)	20
Galetta Side Rd	5	2.95 km E of Carp Rd Con 12 Lot 20 (SN 438920)	20
Riddell Dr	5	2.95 km E of CR9 Con 6 Lot 15/16 (SN 648020)	20
Lawrence St	20	0.60 km E of Bank St (SN 880300)	20
Hiawatha Park Culvert	1	0.11 km N of St. Louis Dr OF Con 1 Lot 5/6 (SN 220010)	20
Joy's Rd Culvert 0.01 km N of Garvin Rd	21	0.01 km N of Garvin Rd Con 5 Lot 20/21 (SN 758060)	20
Victoria St	20	0.95 km E of Bank St (SN 888430)	20

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In Thousands (\$000)

Project	Ward	Location/Description	\$000's
905534 Renewal - Drainage Culverts (1-3m span)	CW	Renewal	2,500
<p>The City has a significant inventory of drainage culverts ranging from small diameter roadway culverts (typically non urbanized ditch drainage under roadways and intersections) to larger span drainage structures. This project provides funding to address the most critical needs for this asset group.</p>			
Herzberg Rd Culvert	4, 7	0.50 km S of Carling Av OF Con 1 Lot 1 SN(110100)	140
Iber Rd culvert,	6	0.08 km S of Hazeldean Rd Con 11 Lot 27 SN(758690)	50
Bank St Culvert	20	2.05 km S of Dalmeny Rd SN(888560)	90
Gregoire Rd [CR41]Culvert	20	1.30 km S of Victoria Rd [CR6] Con XI Lot 27 SN(888930)	80
2nd Line Rd Culvert	20	0.01 km S of Cabin Rd SN(880510)	90
Quinn Rd Culvert	22	0.01 km W of Albion Rd Con 3 Lot 16 RF SN(220510)	150
Blackcreek Rd Culvert	20	1.95 km N of Pana Rd SN(880245)	100
Fourth Line Rd Culvert	21	5.20 km S of Dilworth Rd SN(868100)	150
Murphy Side Rd Culvert	5	0.30 km E of Marchhurst Rd Con 2 Lot 20/21 SN(640760)	150
Marchurst Rd Culvert	5	0.90 km N of March Rd Con 1/2 Lot 17 SN(640710)	70
Marvelville Rd Con VIII Lot 35/36	20	3.45 km E of Bank St Con VIII Lot 35/36 SN(888100)	60
Lynch St Culvert	10	0.01 km W of Conroy St Con 4, Lot 13 SN(228611)	80
Boyd Rd	20	0.20 km S of Lawrence St Con 7 Lot 40 SN(880790)	80
Farmers Way Culvert	19	3.60 km N of 9th Line Rd Con VII Lot 11 SN(220790)	70
Ramsayville Rd Culvert	10	0.28 km N of Sixth Line Rd RF Con 6 Lot 10 SN(220550)	400
Merivale Rd Culvert	9	1.20 km N of Prince of Wales Dr Con A Lot 17 SN(118690)	350
Amberwood Pathway Culvert	6	50m E of Springbrook Dr, 5m S of SN751110 SN(758845)	70
Harry Douglas Dr Culvert	6	0.01 km W of Iber Rd Con 11 Lot 27 SN(758870)	70
Woodkilton Rd Culvert	5	0.01 km N of Vances Side Rd Con 2/3 Lot 6 SN(338280)	50
John Shaw Culvert	5	1.45 km N of Thomas Dolan Pkwy Con 7/8 Lot 2/3 SN(430200)	200
Cut Off			
Canaan Rd Culvert	19	4.75 km N of Colonial Rd SN(890070)	500
Sarsfield Rd Culvert	19	1.30 km N of Colonial Rd Con 3/4 Lot 8 SN(890150)	125
Becketts Creek Rd Culvert	19	0.95 km S of Old Montreal Rd OS Con 1 Lot 5 SN(890190)	400

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Project	Ward	Location/Description	\$000's
905535 Municipal Drain Culverts (1-3m) Program	CW	Renewal	2,590
<p>The City has a significant inventory of drainage culverts ranging from small diameter roadway culverts (typically non urbanized ditch drainage under roadways and intersections) to larger span drainage structures. Under the Drainage Act, when a Municipal Drain is constructed, the Road Authority is responsible for the upgrading, lowering, and/or relocation of the road culverts; at it's cost, when recommended by the Engineer's report. This project provides authority to address this requirement in those structures that have no short-term condition driven renewal plans but have been designated as the Road Authority's compliance requirement under the Drainage Act.</p>			
Flewellyn Road Culvert	21	2.20 km W of Huntley Rd (SN757240)	250
Fallowfield Road Culvert	21	6.80 km E of Munster Side Rd (SN757170)	250
Mansfield Road Culvert	21	0.40 km W of Huntley Rd (SN757200)	250
Huntley Road Culvert	21	2.70 km S of Fallowfield Rd (SN757120)	240
Flewellyn Road Culvert	21	0.70 km W of Black's Rd (SN750090)	200
Fernbank Road Culvert	21	7.50 km E of Dwyer Hill Rd (SNL758090)	200
Paden Rd Culvert	21	4.96 km E of Dwyer Hill Rd (SN868510)	250
Copeland Rd Culvert	21	1.08 km W of Dwyer Hill Rd (SN758365)	240
Dwyer Hill Rd Culvert	21	1.40 km N of Franktown Rd (SN758350)	200
Lakewood Dr Culvert	21	0.01 km N of Roger's Creek Way (SN757520)	200
Dwyer Hill Rd Culvert	21	0.30 km N of Franktown Rd (SNA751090)	150
Franktown Rd Culvert	21	0.61 km E of Dwyer Hill Rd (SNA752120)	80
Matilda Gate Culvert	21	0.20 km N of Franktown Rd (SNL751770)	80
905536 Renewal - Drainage Culverts (<=1m span)	CW	Renewal	1,300
<p>The City has a significant inventory of drainage culverts ranging from small diameter roadway culverts (typically non urbanized ditch drainage under roadways and intersections) to larger span drainage structures. This project provides funding to address the most critical needs for this asset group.</p>			
Thomas Doland Parkway Culvert,at civic # 1495	5	5.65 km from Carp Rd. (SN A332100)	150
5th Line Rd, 0.2 km S of Devereaux Rd.	20	1.3 km from Dalmeny Rd towards Snake Island Rd (SN L885090)	20
Blanchfield Rd Culvert	20	3.4km from Springhill Rd towards Snake Island Rd (SN L883335)	20
Richmond Rd	21	0.16 km from Cambrian Rd towards Steeple Hill Cres (SN A111410)	20

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Project	Ward	Location/Description	\$000's
Mary Dr Culvert	10	0.10 km from Lawrence St towards Lennon Dr (SN L224050)	150
Thomas Dolan Pkwy	5	5.25 km from Carp Rd towards Dunrobin Rd (SN A332080)	110
Innes Bypass Culvert	2	1.13 km from Anderson Rd towards Navan Rd (SN A224300)	77
Innes Bypass Culvert	2	1.49 km from Anderson Rd towards Navan Rd (SN A224320)	78
Innes Bypass Culvert	2	2.92 km from Anderson Rd towards Navan Rd (SN A224323)	77
Innes Bypass Culvert	2	3.10 km from Anderson Rd towards Navan Rd (SN A224327)	78
Galetta Side Rd	5	0.16 km from Carp Rd towards Ferry Rd (SN A436080)	20
Boundary Rd Culvert	19	0.05 km from Russell Rd towards Mich Owens Rd (SN A223010)	60
Dalmeny Rd	20	2.60 km from Bank St towards Stagecoach Rd (SN A882320)	60
Devine Rd	19	1.75 km from Rockdale Rd towards Boundary Rd (SN A892040)	60
Vaughan Side Rd	5	0.55 km from Marshwood Rd (SN L544330)	15
Murphy Side Rd	5	0.80 km from Marchurst Rd (SN L649070)	15
Basswood Ave	6		15
		0.28 km from Carleton Cathcart St towards Orville St (SN L755649)	
Pineridge Dr	5	2.03 km from Tall Forest Dr (SN L544142)	15
Deugo St	5	0.07 km S of Donald B. Munro Dr (SN L545988)	15
Rideau Valley Dr S	21	5.2 km from 4th Line Rd towards Roger Stevens Rd (SN A871230)	20
Corkstown Rd	7	2.9 km from March Rd towards Moodie Dr (SN L114130)	10
Courtland Grove Cr	20	0.67 km from Empire Grove (W Entry) towards Empire Grove (E Entry) (SN L886783)	15
Byron St	20	0.387 km from Glen St towards 8th Line Rd (SN L884360)	15
Gaddis CRT	21	0.01 km from Eastman Ave towards End of Rd (SN L877090)	15
Anderson Rd	10	1.99 km from Leitrim Rd towards Russell Rd (SN A221830)	20
Navan Rd	2	2.3 km from Renaud Rd towards Tenth Line Rd (SN A224560)	25
Saumure Rd	19	1.45 km from Russland Rd towards Russell Rd (SN A891850)	25
Kinburn Side Rd	5	7.75 km from Carp Rd towards Dunrobin Rd (SN A332420)	15
York Corners Rd	20	3.05 km from Victoria St towards Mitch Owens Rd (SN L889130)	55
Dunhaven Dr	5	1.19 km from Stonecrest Rd towards Ridgetop Rd (SN L332570)	15
Lafortune Dr	20	0.2 km from Lawrence St towards End of Rd (SN L885830)	15
Cut Off			
Broadway St	20	0.01 km from Lawrence St towards Lafortune Dr (SN L885730)	15
Scharfield Rd	21	0.01 km from Beaverwood Rd towards Maple Ave (SN L877080)	15

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In Thousands (\$000)

Project	Ward	Location/Description	\$000's
Glen St	20	0.769 km from Johannes St towards Victoria St (SN L887340)	15
Laurie Lane	20	0.01 km from Glen St(South entry) towards Glen St(North Entry) (SN L884430)	15
Skylark St	20	0.24 km from Morningside Ave towards Boyd Rd (SN L882360)	15
Third Line Rd	21	1.97 km from Lockhead Rd towards Roger Stevens Rd (SN L871715)	15
Clifford Campbell St	5	0.097 km from Old Pakenham Rd towards Harbor St (SN L436630)	25
Torwood Dr/Sixth Line Rd	5	3.75 km from Riddell Dr towards Vances Side Rd (SN A641390)	15
Torwood Dr/Sixth Line Rd	5	1.2 km from Riddell Dr towards Vances Side Rd (SN A641310)	15
Canon Smith Dr	5	3.25 km from Galetta Side Rd towards Old Birch Rd (SN L435230)	20
905537 Drainage Culverts - Site Specific Repairs - 2010	CW	Renewal	250
<p>This project provides the authority to undertake engineering, design and construction of renewal works that are not budgeted through any other renewal program that arise over the course of the year.</p>			

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In Thousands (\$000)

Program Information	Financial Details
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Stormwater Collection Rehabilitation Program

Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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The Stormwater Collection Rehabilitation Program addresses annual rehabilitation and operational capital requirements to preserve and extend the life of the infrastructure, reduce flooding occurrences, and prevent failures requiring more extensive reconstruction. The program is focused on:

- Flood Mitigation;
- Proactive life cycle renewal and rehabilitation projects;
- Level of service initiatives;
- System improvements and optimization;
- Upgrades and rehabilitation to support growth demand;
- Miscellaneous local repairs.

Program funding requirements to support renewal needs are defined in the long range financial plan. Budget allocation for these programs are adjusted to reflect change in needs and affordability envelopes. The 2011-2012 forecast is based on bulk allocations that will be detailed in future budget submissions.

The funding requests for water main costs are coordinated with roadway, wastewater or storm water rehabilitation, which are included within the Integrated Rehabilitation Program. Detailed information and costs associated with specific stand alone (non integrated) components and projects are provided following this program summary page.

2010 Request	8,150	Previous Authority	-
Revenues	100	Rate Supported	7,900
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	150
Forecast	2010	2011	2012
Authority	8,150		
Spending Plan	8,150		
FTE's	-		
Operating Impact	-		

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In Thousands (\$000)

Project	Ward	Location/Description	\$000's
904567 Orleans Flood Control Remediation	1	Renewal Following extreme rainfall in the Orleans area July and August 2006, staff and consultants collaborated to develop improvement plans to reduce future impacts of large-scale rainfall on existing sewer systems and basements. This 2010 project is the continuation of the implementation of numerous surface drainage improvements at various locations including the installation of inlet control devices throughout the area.	1,300
905551 Trenchless Rehabilitation - Storm Sewers	CW	Renewal Funding provides for relining of storm sewers, access structures, and spot repairs at various locations. The work will improve and extend both structural integrity and hydraulic performance assisting in reduced basement flooding, extraneous flows, and improved operations.	1,000
905552 Pineview Area - Surface Drainage	11	Renewal 2010 funding is for the design and construction of various surface drainage improvements to reduce basement flooding in the Pineview area. The proposed work will include the installation of inlet control devices, construction of overland flow routes, culvert rehabilitation, and a new storm sewer. Work will be completed in various locations bounded by: Blair Rd, Innes Rd, RR 174 and Maxime St.	700

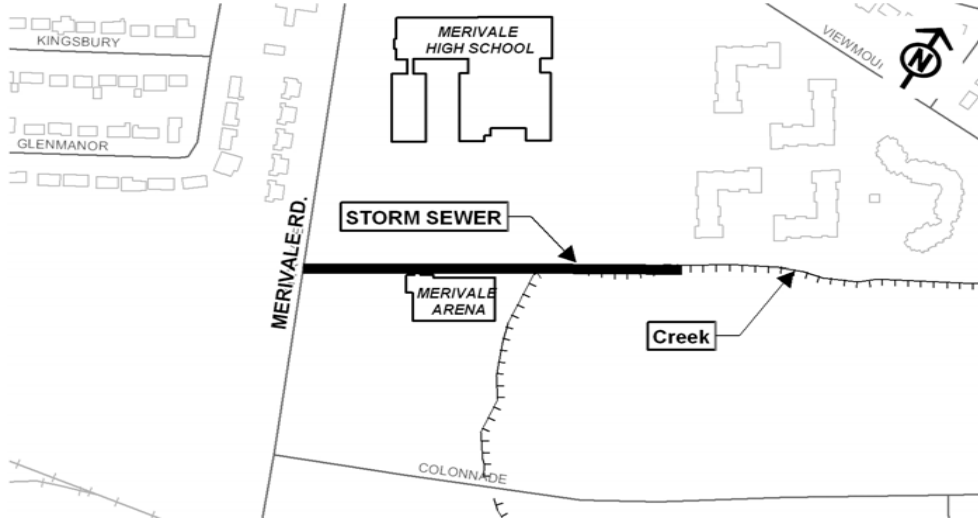
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In Thousands (\$000)

Project	Ward	Location/Description	\$000's
905553 West-end Flood Mitigation	6, 23	Renewal	4,000
<p>On 24 July 2009, portions of the City experienced a significant rain storm resulting in over 1,500 occurrences of basement flooding, road flooding and washout of drainage culverts, the majority of which were located in the west end of the City. An investigation led by the Infrastructure Services Department was initiated in 2009 to understand the causes of flooding and to identify potential solutions. The 2010 request represents initial funding required to undertake detailed engineering studies, initiate design of flood control measures, and begin implementation of flood improvement works. Total funding requirements will be an outcome of the 2010 work that will allow for additional requests in subsequent years.</p>			
Sewer Capacity/Hydraulic Improvements	6, 23	Design initiated in 2010	
Flow Removal Measures	6, 23	Installation of Inlet Control Devices/Sealing of Maintenance Hole covers	
Hazeldean Pumping Station Improvements	6, 23	To be undertaken in 2 Phases. 1st Phase focused on performance improvements.	
Major System/Overland Drainage	6, 23	Design in 2010	
Monahan Drain	6, 23	Modifications	
905554 Joint CA/City Renewal Activities	CW	Renewal	200
<p>The City and conservation authorities have implemented a number of jointly managed erosion and flood protection infrastructure assets. A number of these facilities have aged to a point where remedial measures and rehabilitative works are required. This funding request is for the City's share of the costs associated with these rehabilitation, renewal, and replacement needs. Conservation authority funding is provided through their respective budget allocations on an annual basis prior to implementation.</p>			
Graham Creek Flood & Erosion Contr. System	7, 8	Retaining wall replacement	
Jock River Weir at Hearts Desire	22	Decommissioning plan.	
Cut Off			
Graham Creek Rip-Rap Revetments	7, 8, 9	West Hunt Club Rd. downstream to Stonehedge Park.	
Jock River Weir at Richmond	21	Operational review.	
Laporte / Jasmine Ravines	11	Ogilvie Road to Road 174 - ownership review.	
Sawmill Creek Rip-Rap Channel Linings	10	Queensdale Avenue to Albion Road.	
Stillwater Creek Armour Stone Channel Linings	7	Corkstown Road to Carling Avenue.	
Bilberry Creek Armour Stone Channel Linings	2	St. Joseph Blvd. to Notre Dame Street.	
Windsor Park Dyke and Pump Station	17	Assess needs when required.	
Rideau River Lane Flood Control Wall	17	Assess needs when required.	
Ashton Dam Water Control Structures	21	Operational review.	

Project	Ward	Location/Description	\$000's
<p>905556 Ditch Alts. - Tech. Assess. & Implementations</p> <p>Council endorsed a policy and associated process to manage ditch alteration requests in a consistent manner (July 9, 2008 -ACS2008-PWS-INF-0008). Technical assessments are necessary to provide the design support to secure an MOE Certificate of Approval. The City has the technical resources, experience, and established processes to effectively manage the design and construction processes. The policy provides for the City to review, design, and construct the works with the costs to be recovered from property owners after implementation. This annual funding request provides for the technical assessments and implementation.</p>	<p>CW</p>	<p>Renewal</p>	<p>150</p>
<p>905755 Merivale Rd. Storm Sewer repair</p> <p>A storm sewer (1,800 mm diameter) located in the parking lot of the Merivale Arena has collapsed twice within the last several years. This storm sewer is connected to Merivale Rd just south of Viewmount Dr and outlets to a creek 300m east of Merivale Rd. Several spot repairs have not prevented the deterioration of this pipe which is currently filled with water and debris.</p> <p>The 2010 authority request provides for an emergency storm sewer replacement including the reconstruction of the submerged outlet and repairs to the Merivale High School service laterals.</p>	<p>9</p>	<p>Merivale Arena</p>  <p>The map shows Merivale Rd running vertically on the left. To its east are streets Kingsbury and Glenmanor. Further east is Merivale High School. Below the school is the Merivale Arena. A thick black line labeled 'STORM SEWER' runs horizontally from Merivale Rd to the right. Below the arena, a dashed line labeled 'Creek' runs horizontally. A north arrow is in the top right corner.</p>	<p>800</p>

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Sanitary Sewer Rehabilitation Program

Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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Sanitary Sewer Rehabilitation Program addresses annual rehabilitation requirements for the City's wastewater collection system. The purpose of this program is to preserve and extend the life of infrastructure, provide continued service, mitigate property flooding, and prevent failures requiring more extensive reconstruction. The program is focused on:

- Flood Mitigation;
- Proactive life cycle renewal and rehabilitation projects;
- Level of service initiatives;
- System improvements and optimization;
- Upgrades and rehabilitation to support growth demand;
- Miscellaneous local repairs.

Program funding requirements to support renewal needs are defined in the long range financial plan. Budget allocation for these programs are adjusted to reflect change in needs and affordability envelopes. The 2011-2012 forecast is based on bulk allocations that will be detailed in future budget submissions.

The funding requests for wastewater costs are coordinated with roadway, storm water or water main rehabilitation and are included within the Integrated Rehabilitation Program.

Detailed information and costs associated with specific stand alone (non integrated) components and projects are provided following this program summary page.

2010 Request	15,495	Previous Authority	-
Revenues	6,316	Rate Supported	3,597
Tax Supported/ Dedicated	-	Development Charges	128
Gas Tax	-	Debt	5,454
Forecast	2010	2011	2012
Authority	15,495		
Spending Plan	15,495		
FTE's	-		
Operating Impact	-		

Project	Ward	Location/Description	\$000's
<p>901148 Extraneous Flow Removal - CW</p> <p>Annual authority request to provide budget for the implementation of smaller high impact / low cost flow removal projects and the investigation of alternative approaches to address concerns related to partially separated areas.</p>	CW	Renewal of City Assets	550
<p>904883 ORF - UCSA Inlet Control/Floatables</p> <p>The Infrastructure Services Department has prepared a comprehensive Pollution Prevention Control Plan that has identified several key implementation programs to be undertaken over the next four years. This authority provides for the installation of inlet and floatable control devices throughout the Ultimate Combined Sewer Area (UCSA) in an effort to reduce basement flooding, sewer surcharging and collection of floatables. This project supports the overall implementation objectives of the Ottawa River Integrated Protection Plan.</p>	CW	Renewal of City Assets	1,750
<p>904939 ORF - Wet Weather IMP - Flow Reduction</p> <p>The Infrastructure Services Department is preparing a detailed and comprehensive Wet Weather Infrastructure Management Plan (IMP) to address development of an overall approach to wet weather flow management within the urban area. The IMP will investigate identified problem areas and implement high impact programs in those areas. The IMP will also provide recommendations on general concerns, such as design standards for components of the system and climate change adaptation. The 2010 authority request provides the necessary budget to start implementation of the plan. This project supports the overall implementation objectives of the Ottawa River Integrated Protection Plan.</p>	CW	Renewal of City Assets	825
<p>904940 ORF - Pollution Prevention and Control Inter-Connections</p> <p>The Infrastructure Services Department has prepared a comprehensive Pollution Prevention Control Plan that has identified several key implementation programs to be undertaken over the next four years. This authority request provides for the System inter -connection initiatives (2009 –2012) - Locate, review and mitigate system inter-connections where feasible. This project supports the overall implementation objectives of the Ottawa River Integrated Protection Plan.</p>	CW	Renewal of City Assets	1,250

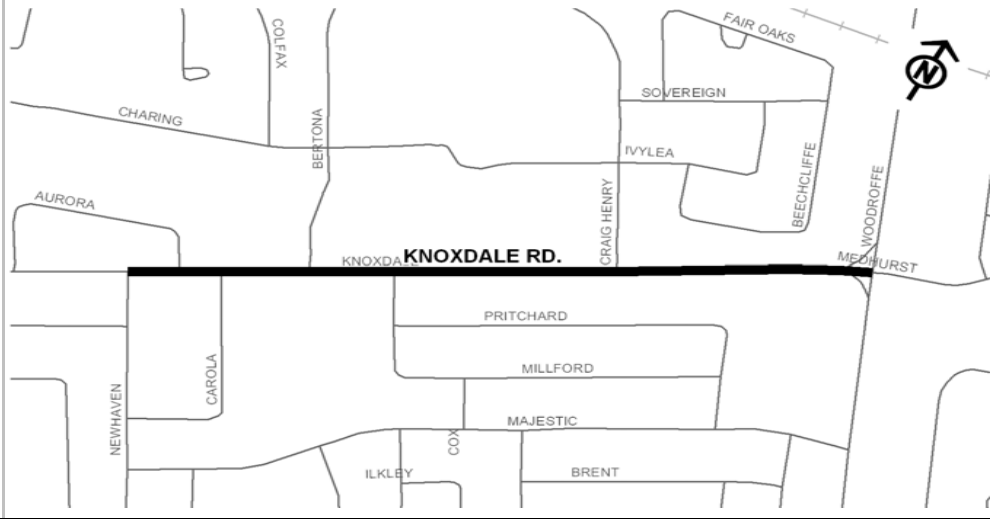
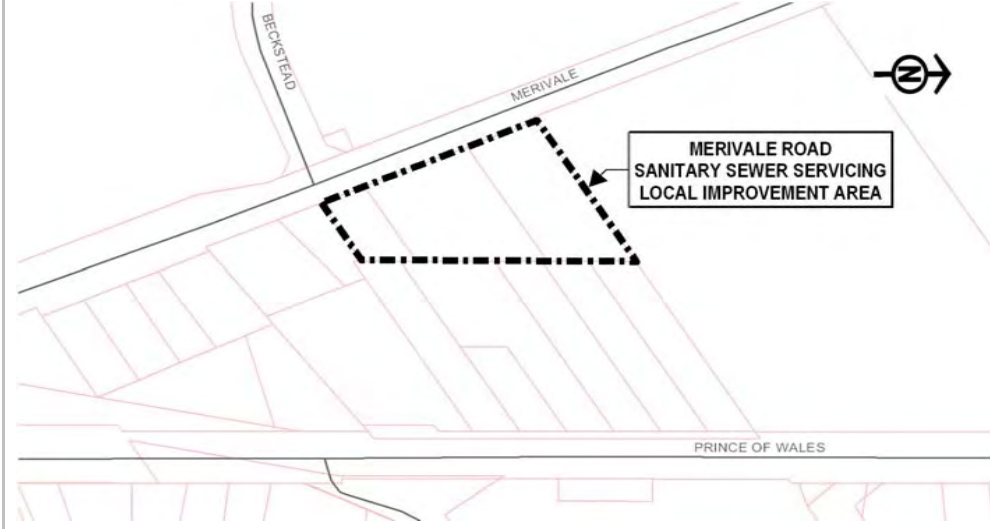
City of Ottawa

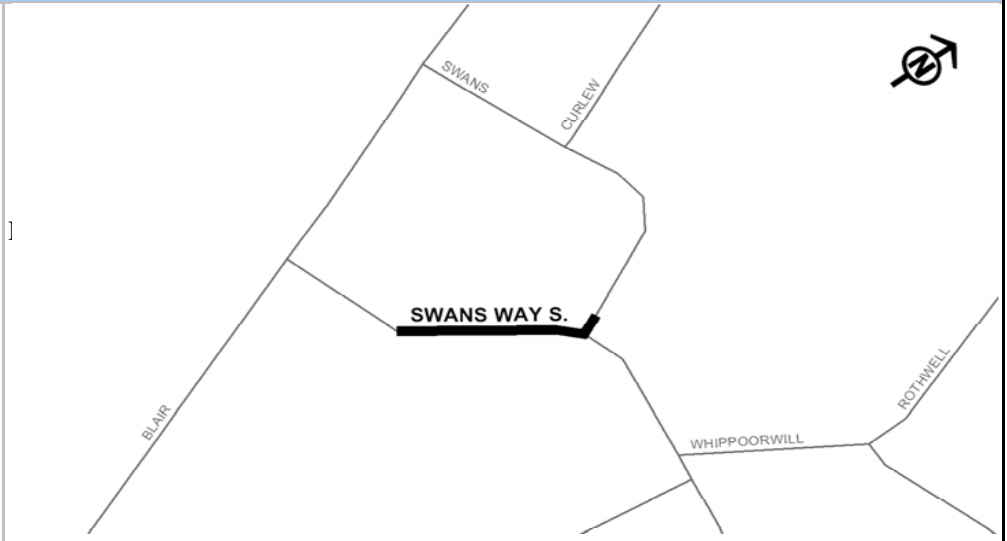
Service Area: Wastewater Services

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In Thousands (\$000)

Project	Ward	Location/Description	\$000's
905028 ORF - Combined Sewer Overflow Reduction	CW	Renewal	5,500
<p>This component of the Ottawa River Action Plan (ORAP) capital program will assess opportunities and define design requirements necessary to provide Combined Sewer Overflow storage to reduce overflows. The scope of work under this program will be completed over the next five years. The 2010 budget request provides the additional authority necessary to expand on the work initiated in 2009. This work involves the completion of environmental assessments, functional, preliminary and detailed designs. The 2010 allocation is comprised of: Sanitary Sewers - \$5.5 Million.</p>			
905557 Inlet Control Devices - City Wide	CW	Renewal of City Assets	400
<p>This project involves implementing the installation of Inlet Control Devices into the catchbasins of various areas in the City. The intent is to reduce the opportunity of sewer surcharge during major rainfall events and to diminish the incidences of basement flooding as a result of sewer surcharge.</p>			
905559 Trenchless Rehabilitation - Sanitary Sewer	CW	Renewal of City Assets	2,000
<p>Funding provides for relining of sewers, of access structures and spot repairs at various locations. The work will improve both structural integrity and hydraulic performance to assist in reducing basement flooding, extraneous flows and improve the overall operation of the system.</p>			

Project	Ward	Location/Description	\$000's
<p>905515 Knoxdale Road</p> <p>This project provides for the renewal of the Knoxdale Road sanitary sewer. The 2010 allocation provides for both the design and construction of the replacement of the existing sanitary sewers to improve the system capacity. House service connections will be replaced to the property line.</p>	9	<p>Newhaven St to Woodroffe Ave</p> 	2,820
<p>905558 Merivale Road Sanitary Sewer - Local Improvement</p> <p>A Local Improvement petition for the extension of a new sanitary sewer is being championed by property owners in this area on Merivale Road. This funding request provides the authority necessary to undertake design and construction of the works as part of the 2010 construction season in conjunction with the previously approved Rideau Glen Local Improvement sanitary sewer. Properties benefiting from the new Local Improvement sewer will be charged their representative share of the capital construction cost of the Local Improvement work via a special levy pursuant to Ontario Regulation 586/06 under the Municipal Act 2001. A report to Committee and Council will be brought forward in the fall of 2010 by Infrastructure Services Department. This project is subject to a petition certification under O.Reg. 586/06 and Committee and Council approving the works as a Local Improvement.</p>	22	<p>Location as per attached Plan</p> 	250

Project	Ward	Location/Description	\$000's
905765 Swans Way S Sanitary Sewer - Local Improvement	11	Location as per attached Plan	150
<p>A Local Improvement petition for the extension of a new sanitary sewer is being championed by property owners in this section of Swans Way South. This funding request provides the authority necessary to undertake design and construction of the works as part of the 2010 construction season. Properties benefiting from the new Local Improvement sewer will be charged their representative share of the capital construction cost of the Local Improvement work via a special levy pursuant to Ontario Regulation 586/06 under the Municipal Act 2001. A report to Committee and Council will be brought forward in early 2010 by Infrastructure Services Department.</p> <p>This project is subject to a petition certification under O.Reg. 586/06 and Committee and Council approving the works as a Local Improvement.</p>			

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2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details			
900239 Cumberland Trunk Sewer						
Dept: Planning and Growth Management	Category: Growth	Ward: 19	Year of Completion:		2012	
<p>Trunk sanitary sewers have been designed and constructed to service the Neighbourhood 4 area as per the Avalon South Residential Development Infrastructure Master Servicing Report. In accordance with the Development Charge By-law, the City is required to repay developers for the oversizing of sanitary sewers which are constructed in a given year. This amount is required for repayment of oversizing of sanitary sewers in 2010.</p>			2010 Request	327	Previous Authority	8,510
			Revenues	-	Rate Supported	-
			Tax Supported/ Dedicated	-	Development Charges	327
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	327		
			Spending Plan	327		
			FTE's	-		
			Operating Impact	-		
			903307 Jackson Trail Pumping Station			
Dept: Planning and Growth Management	Category: Growth	Ward: 6	Year of Completion:		2012	
<p>Funds are required for planned upgrades to the existing Jackson Trail Pumping Station to accommodate ongoing development in the area.</p>			2010 Request	200	Previous Authority	3,600
			Revenues	-	Rate Supported	-
			Tax Supported/ Dedicated	-	Development Charges	200
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	200		
			Spending Plan	200		
			FTE's	-		
			Operating Impact	-		

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In Thousands (\$000)

Project Information		Financial Details			
905420 Servicing Studies Development					
Dept: Planning and Growth Management	Category: Growth	Ward: CW	Year of Completion: 2012		
<p>As a result of continued growth and shifting market demands, there is a need to review and update existing infrastructure reports, studies, and plans associated with servicing infrastructure needs to ensure anticipated growth and proposed developer changes can be accommodated by existing and planned service infrastructure. This program will fund the necessary reviews as they arise in the developing communities and is funded by development charges. The following studies have been identified for 2010:</p> <ul style="list-style-type: none"> - East Urban Community Community Design Plan Phase 2 - Leitrim - Shirley's Brook/Kissell Drain - Manotick Special Design Area 		2010 Request	700	Previous Authority	-
		Revenues	-	Rate Supported	70
		Tax Supported/ Dedicated	-	Development Charges	630
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	700		
		Spending Plan	700		
		FTE's	-		
		Operating Impact	-		
905423 Riverside South Community Sanitary					
Dept: Planning and Growth Management	Category: Growth	Ward: 22	Year of Completion: 2016		
<p>As part of the Riverside South Master Servicing Study, trunk sanitary sewers have been designed to service the area defined in the Community Design Plan. In accordance with the Development Charge By-law, the City is required to repay developers for the oversizing of sanitary sewers which are constructed in a given year. This amount is therefore required for repayment of oversizing of the sanitary sewers which are expected to be constructed in 2010.</p>		2010 Request	600	Previous Authority	-
		Revenues	-	Rate Supported	-
		Tax Supported/ Dedicated	-	Development Charges	575
		Gas Tax	-	Debt	25
		Forecast	2010	2011	2012
		Authority	600		
		Spending Plan	600		
		FTE's	-		
		Operating Impact	-		

City of Ottawa

Service Area: Wastewater Services

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In Thousands (\$000)

Project Information		Financial Details			
903791 New Vehicles - Wastewater					
Dept: Environmental Services	Category: Growth	Ward: CW	Year of Completion:	On-going	
Additional staff required as a result of system growth require new vehicles to perform maintenance and operations duties. - Sewer Maintenance Program - 6 vehicles - Stormwater Management- 2 vehicles		2010 Request	360	Previous Authority	1,085
		Revenues	-	Rate Supported	36
		Tax Supported/ Dedicated	-	Development Charges	324
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	360		
		Spending Plan	510		
		FTE's	-		
		Operating Impact	150		

City of Ottawa

Service Area: Wastewater Services

In Thousands (\$000)

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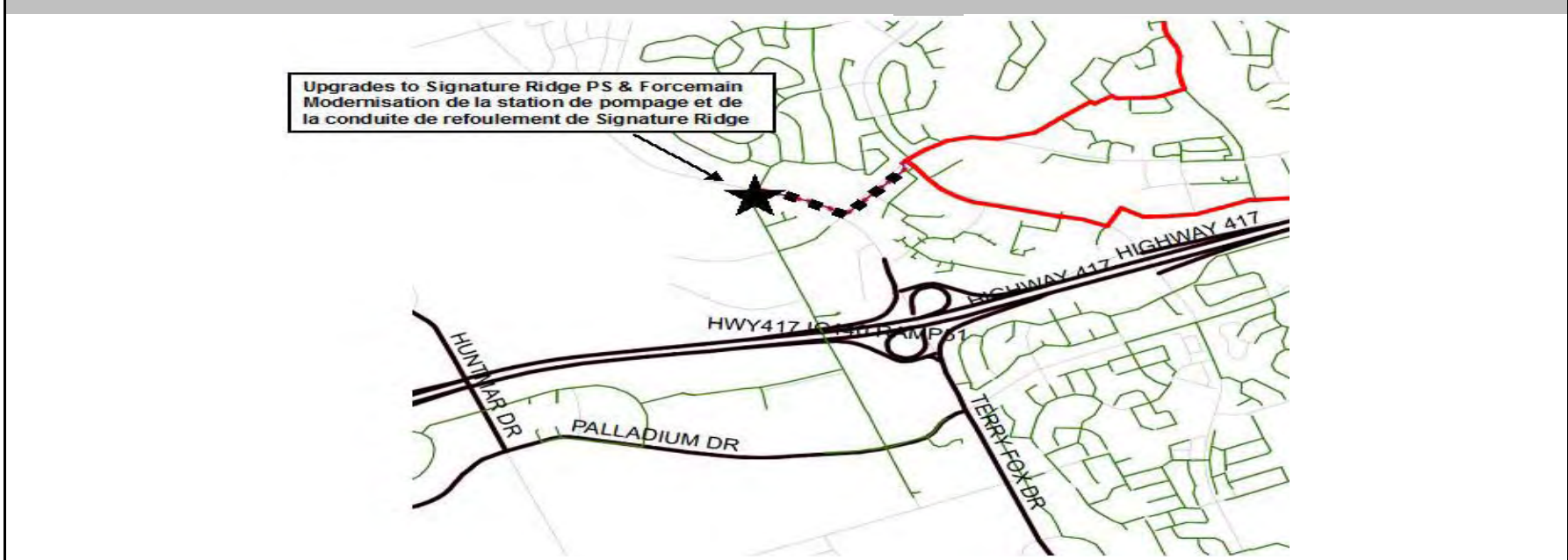
Project Information	Financial Details
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903300 Signature Ridge Pumping Station and Forcemain

Dept: Planning and Growth Management | Category: Growth | Ward: 4 | Year of Completion: 2013

The Signature Ridge Pumping Station and Forcemain are in need of expansion to support the proposed development proceeding in the immediate area. Increases in flows due to development necessitate the expansion of the station which will initially involve internal upgrades to station components, but in the future will require the construction of a second wet well and forcemain in order to service the additional flow. A sanitary overflow to the storm water management facility will also be constructed as part of the works. A separate description of future works is included in projects for the 2020 to 2031 time period.

2010 Request	500	Previous Authority	791
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	500
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	500		
Spending Plan	500		
FTE's	-		
Operating Impact	-		



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Service Area: Wastewater Services

In Thousands (\$000)

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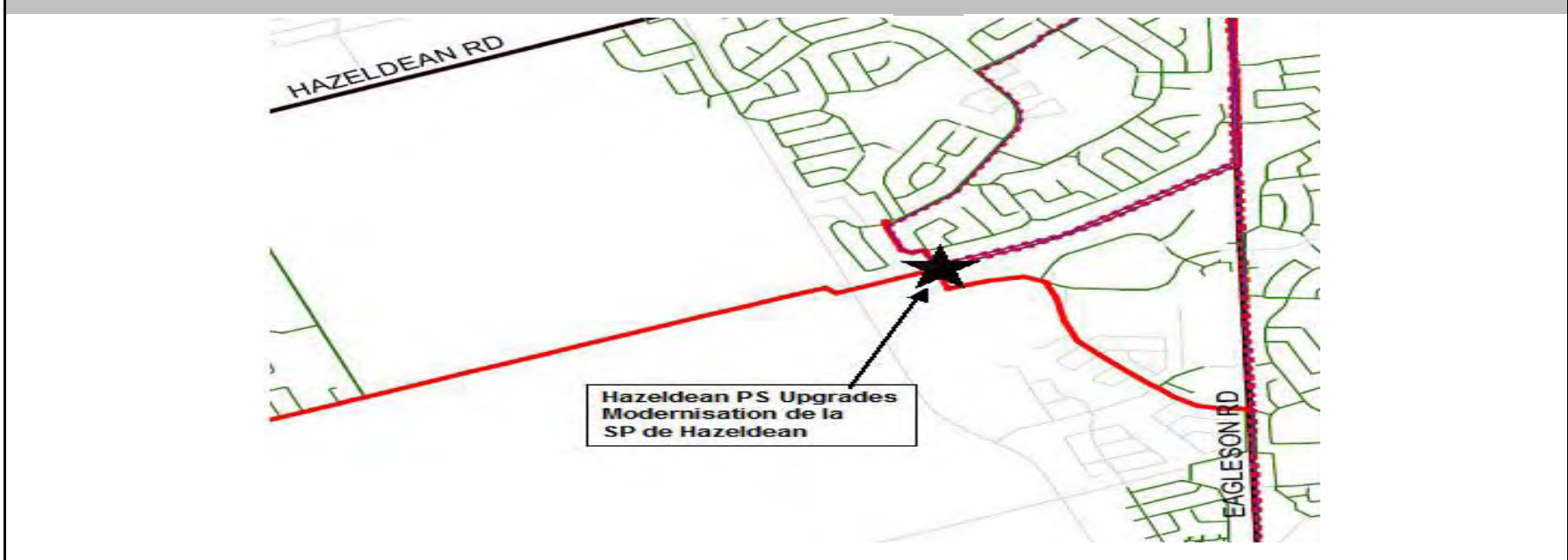
Project Information	Financial Details		
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904989 Hazeldean Pumping Station Upgrade

Dept: Planning and Growth Management | Category: Growth | Ward: 23 | Year of Completion: 2012

To provide wastewater service to the new Fernbank lands development. Upgrades to the existing Hazeldean pumping stations are proposed to accommodate the additional flows required by this development. This is the first phase of a phased upgrade.

2010 Request	1,111	Previous Authority	-
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	1,000
Gas Tax	-	Debt	111
Forecast	2010	2011	2012
Authority	1,111		
Spending Plan	1,111		
FTE's	-		
Operating Impact	-		



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Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Wastewater Services General

Dept: Environmental Services	Category: Regulatory	Ward: CW	Year of Completion: On-going
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The City operates a very complex and diverse Wastewater and Drainage Program.

This program is aimed at addressing matters that are common to Wastewater and Drainage Services, including Wastewater and Stormwater Collection, Wastewater Treatment, Municipal Drainage, Customer Services and Strategic & Environmental Services.

Key 2010 Regulatory projects include:

- Protective Plumbing Program
- Quality Management System

2010 Request	1,470	Previous Authority	3,165
Revenues	-	Rate Supported	1,470
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	-
Forecast	2010	2011	2012
Authority	1,470		
Spending Plan	1,173	800	800
FTE's	-		
Operating Impact	-		

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Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>903665 Protective Plumbing Program</p> <p>Protective plumbing describes the devices and/or means used to protect homeowners against the entry of wastewater into basements resulting from a main sewer backup. When these devices are installed properly, in accordance with site-specific needs, they stop the back flow of wastewater and can significantly reduce the potential of basement flooding.</p> <p>The City of Ottawa's "Residential Protective Plumbing Program" provides financial assistance towards a portion of the costs of the installation of protective plumbing for some eligible property owners.</p>	CW		1,200
<p>905036 Quality Management System</p> <p>Wastewater and Drainage Operations (WDO) are designing and implementing an Environmental Quality Management System (EQMS) based upon the international ISO14001 standard for Environmental Management Systems. This management system will guide and govern the identification and management of environmental risks related to the City of Ottawa's wastewater and drainage services and will articulate the collaboration between WDO and corporate partners in providing this service e.g. Infrastructure Services and Planning and Growth Management Departments. As this system evolves and matures the identification and management of other risks will be incorporated.</p>	CW		270

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details			
902142 ROPEC -Effluent Dechlorination					
Dept: Environmental Services	Category: Regulatory	Ward: CW	Year of Completion:	On-going	
<p>The Robert O. Pickard Environmental Centre treats all of the City's wastewater and has a replacement value estimated at over \$1.2 billion. Anticipated changes to the Canadian Environmental Protection Act are reflected in the long range financial plan. Major facility modifications may be necessary to ensure compliance with new regulatory requirements. In 2009 Environment Canada published guidelines that require all municipal wastewater treatment plants to produce effluents that meet specific quality criteria. The City must plan to design and construct a final effluent dechlorination facility since one of the quality criteria is <0.02mg/liter total residual chlorine. Presently ROPEC effluent has approximately 0.5mg/liter total residual chlorine.</p>		2010 Request	5,500	Previous Authority	2,190
		Revenues	-	Rate Supported	-
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	5,500
		Forecast	2010	2011	2012
		Authority	5,500		
		Spending Plan	7,637		
		FTE's	-		
		Operating Impact	200		
902960 Municipal Drains Improvements & Construction					
Dept: Environmental Services	Category: Regulatory	Ward: CW	Year of Completion:	On-going	
<p>The program is required to address modifications, improvements and construction of Municipal Drains in the City of Ottawa. Under Sections 4 and 78 of the Drainage Act, the municipality, whose duty it is to maintain and repair drainage works or any part thereof, may with or without a petition, undertake and complete such drainage works. The impetus for the majority of projects in this program is from land and road development mainly in the suburban and rural areas, and as such the timing of the works hinges on the particular development project, which can span several years. In most cases the entire cost of the drainage works, including engineering and construction costs, is paid by the developer and/or landowners and in all cases the costs are recovered by the City once the drainage works are completed.</p>		2010 Request	1,830	Previous Authority	1,970
		Revenues	1,830	Rate Supported	-
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	1,830		
		Spending Plan	2,638		
		FTE's	-		
		Operating Impact	-		

City of Ottawa

Service Area: Wastewater Services

2010 Draft Budget

In Thousands (\$000)

Project Information		Financial Details			
905745 Compassionate Grant Program					
Dept: Environmental Services	Category: Strategic Initiative	Ward: CW	Year of Completion:	On-going	
<p>Council approved at the November 25, 2009 meeting a Residential Flood Relief program to be established to grant property owners who have experienced 3 basement back-up due to surcharging of the sewer mains in a 15 years period (Report ACS 2009-ISC-PGM-016). The eligible amount is \$1000 and could be renewable if a further back-up is experienced. The number of eligible applicant is not known at this point.</p>		2010 Request	200	Previous Authority	-
		Revenues	-	Rate Supported	200
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	200		
		Spending Plan	200		
		FTE's	-		
		Operating Impact	-		
		905787 ORAP- Water Environment Strategy			
Dept: Environmental Services	Category: Strategic Initiative	Ward: CW	Year of Completion:	2014	
<p>Establish a comprehensive and integrated plan in cooperation with other agencies for the management of water environment issues in Ottawa.</p>		2010 Request	250	Previous Authority	-
		Revenues	-	Rate Supported	250
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	250		
		Spending Plan	250		
		FTE's	-		
		Operating Impact	-		

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Service Area: Wastewater Services

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In Thousands (\$000)

Project Information		Financial Details			
905788 ORAP- Public Education and Outreach					
Dept: Environmental Services	Category: Strategic Initiative	Ward: CW	Year of Completion:	2015	
Inform the public of the linkages between what they do and the health of the water environment; and increase awareness of Ottawa River Action Plan initiatives.		2010 Request	75	Previous Authority	-
		Revenues	-	Rate Supported	75
		Tax Supported/ Dedicated	-	Development Charges	-
		Gas Tax	-	Debt	-
		Forecast	2010	2011	2012
		Authority	75		
		Spending Plan	75		
		FTE's	-		
		Operating Impact	-		

City of Ottawa

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In Thousands (\$000)

Project Information			Financial Details			
904915 Trim Road Storm Sewer						
Dept: Planning and Growth Management	Category: Strategic Initiative	Ward: 19	Year of Completion:		2012	
<p>An open ditch along the section of Trim Road from Innes Road to Valin Street is used for the collection and conveyance of storm drainage. At the present time the elevation of the ditch is slightly higher than the upstream storm sewer causing water to back up in the storm sewer, thereby reducing its capacity. Extension of the Trim Road storm sewer from Innes Road north to Valin Street will improve the storm sewer system and provide a cleaner and safer road cross section.</p>			2010 Request	500	Previous Authority	-
			Revenues	-	Rate Supported	100
			Tax Supported/ Dedicated	-	Development Charges	-
			Gas Tax	-	Debt	400
			Forecast	2010	2011	2012
			Authority	500		
			Spending Plan	500		
			FTE's	-		
			Operating Impact	-		
905683 Watershed/Subwatershed Planning						
Dept: Planning and Growth Management	Category: Strategic Initiative	Ward: CW	Year of Completion:		2012	
<p>This funding will be used to implement Official Plan Policy 2.4.3, which requires the development of watershed and subwatershed land use plans for the maintenance of environmental integrity. Watershed and subwatershed plans are the highest level of environmental land use planning below the Official Plan. Where the purpose or scale of land use planning in an area does not warrant a full watershed or subwatershed plan, this funding may also be used for the development of environmental management plans. In 2010, this funding will be used for completion of the Cardinal Creek Subwatershed Management Plan, the Jock River Reach 2 Subwatershed Management Plan, and the East Urban Community Phase 2 Environmental Management Plan. It is also anticipated that there will be a requirement in 2010 to begin one new subwatershed management plan and one new environmental management plan.</p>			2010 Request	300	Previous Authority	-
			Revenues	-	Rate Supported	300
			Tax Supported/ Dedicated	-	Development Charges	-
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	300		
			Spending Plan	300		
			FTE's	-		
			Operating Impact	-		

Capital Requirements

Integrated Roads, Wastewater, & Drinking Water

CW		Ward 6		Ward 12	-	Ward 18	
Ward 1		Ward 7		Ward 13	-	Ward 19	
Ward 2		Ward 8		Ward 14		Ward 20	
Ward 3		Ward 9	-	Ward 15		Ward 21	
Ward 4		Ward 10	-	Ward 16		Ward 22	
Ward 5		Ward 11	-	Ward 17		Ward 23	

Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Program Information	Financial Details
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Integrated Road, Sewer and Water Program

Dept: Infrastructure Services	Category: Renewal of City assets	Ward: CW	Year of Completion: Various
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The Integrated Program includes rehabilitation of more than one asset class (roads, sanitary sewers, storm drainage and water mains) that are coordinated within a single project. The program is aimed at preserving, renewing and replacing the infrastructure assets in order to provide continued service and prevent failures. The program is comprised of:

- Infrastructure Management Initiatives (flow monitoring, condition assessments, etc.);
- Project Scoping and Engineering; Functional and Preliminary Designs;
- Lifecycle Renewal (renewal, rehabilitation and replacements for deterioration);
- Coordinated Renewal (schedule coordination (escalation or deferral) between asset classes and with other asset classes);
- Level of Service Enhancements (flooding improvements and system optimization);
- Enhancements (new cycling/sidewalks/streetscaping) coordinated with renewal;
- Upgrades and rehabilitation to support growth and miscellaneous localized repairs.

Program funding requirements to support project needs are defined in the Long Range Financial Plan. Actual budget allocations for these programs are adjusted to reflect change in need and affordability. The 2012 forecast is based on bulk allocations that will be detailed in future budget submissions.

Detailed information and costs associated with specific components and projects are provided following this program summary.

Portions of the program are funded through the proposed Infrastructure Renewal Levy.

2010 Request	35,415	Previous Authority	
Revenues	1,052	Rate Supported	9,874
Tax Supported/ Dedicated	285	Development Charges	52
Gas Tax	-	Debt	24,152
Forecast	2009	2010	2011
Authority	35,415		
Spending Plan	35,415		
FTE's	-		
Operating Impact	-		

Project	Ward	Location/Description	\$000's
905524 Road Resurfacing - CW - 2010	CW	Renewal of City Assets	14,770
<p>The Road Resurfacing program provides for annual resurfacing and rehabilitation of the City's roadway network. It is required to preserve and extend the life of the infrastructure and prevent roadway failures requiring more extensive reconstruction. Funding is also provided for ancillary costs associated with ironwork/culvert adjustments and resurfacing of existing treated roadways.</p> <p>The 2010 Total Project Estimate of \$14.77M is comprised of: Roads - \$12.83M, Sanitary Sewers - \$570K, Storm Drainage - \$800K, and Water Mains - \$570K.</p> <p>Portions of this project are subject to Council's approval of the Infrastructure Renewal Levy.</p>			
Oak Creek Rd	5	Richardson Side Rd to Mcgee Side Rd	
Mcgee Side Rd	5	Carp Rd to 200 M East Of Oak Creek Rd	
Canon Smith Dr	5	Alylwin Rd to Old Birch Rd	
Canon Smith Dr	5	Galetta Side Rd (OR 22) to Fitzroy St (Market St)(S)	
Canon Smith Dr	5	Fitzroy St (Market St)(S) to Alywin Rd	
Boyd Rd	20	Lawrence St to Bank St (OR 31)	
Huntmar Dr	5	Old Carp Rd to March Rd (OR49)	
Fourth Line Rd	21	Shellstar to Brophy Dr	
Riverside Dr (OR 19)	16,17	200 m South Of Hog'S Back Rd to Cpr Overpass(Southern Joint 270 m North Of Heron Rd)	
Riverside Dr (OR 19)	16, 17	Cpr Overpass(Southern Joint 270 m North Of Heron Rd) to Bank St (OR 31)	
Limebank Rd	20, 22	Rideau Rd to 200 m South Of Earl Armstrong Rd	
Roger Stevens Rd (OR 6)	21	Hwy 416 to River Rd (OR 19)	
Nixon Dr (OR 6)	20	River Rd (OR 19) to Duffy St	
Lyon St (OR 81)	14	Somerset St to Catherine St (OR 60)	
Baseline Rd (OR 16)	8	Woodroffe Av (OR 15) to St Helens'S Place	
Smyth Rd (OR 72)	18	St. Laurent Blvd (OR 26) to Alta Vista Dr	
Trim Rd	19	800 M South Of Millennium Blvd(Civic No. 2339 Trim Rd, Opposite The Entrance To The City Snow Dump.) to Navan Rd	

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater

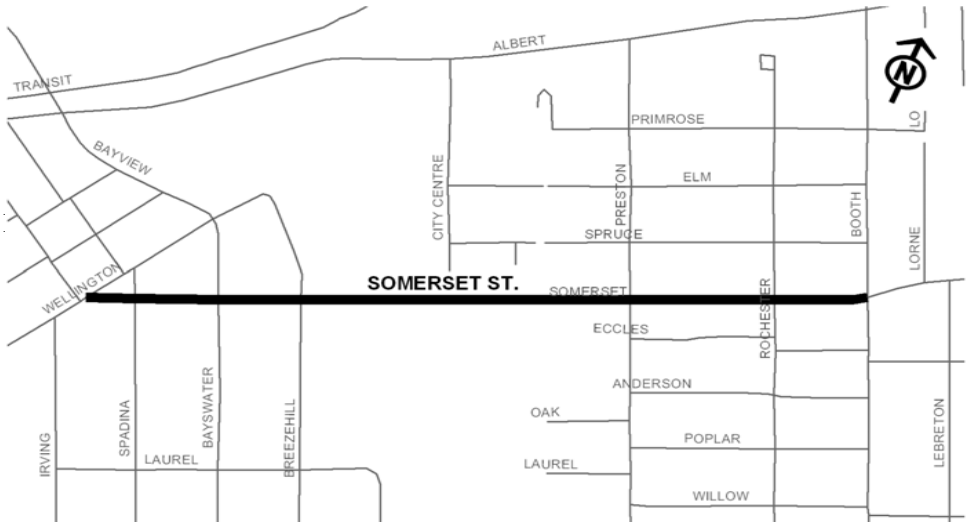

In Thousands (\$000)

2010 Draft Budget

Project	Ward	Location/Description	\$000's
Greenbank Rd (OR 13)	8	Hunt Club Rd(OR 32) (Thru To North Side Of Intersection) to 35 m North Of Banner Rd	
Selective locations Cut-Off	CW		
Brookline Av	16	Hampstead Pl to Jasper Av	
Manor Av	13	Coltrin Rd to Coltrin Rd	
Coltrin Rd	13	Rockcliffe Rd (Private) to Manor Av	
Herzberg Rd	4, 7	March Rd (OR 49) to Carling Av (OR 38)	
Leitrim Rd (OR 14)	10, 22	Limebank Rd to Bowesville Rd	
Laurier Av (OR 48)	14	Bronson Av (OR 79) to Kent St	
Amiens St	1	Tenth Line Rd (OR 47) to Duford Dr	
Champlain St (Part Or-39)	0	60 m South Of Place D'Orleans (OR -84) to North End	
Carp Rd (OR 5)	5	Kinburn Side Rd (OR 20) to Galletta Side Rd (OR 22)	
Sunderland St	9	Bentley Av to West Hunt Club Rd (OR 32)	
Jamie Av	9	Dead End to Merivale Rd (OR 17)	

Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>904896 Somerset Street West</p> <p>Somerset Street West was initiated with a design assignment in 2009. The scope of work includes full roadway, curb and sidewalk reconstruction. The existing water mains, valves, hydrants, and lead services will be replaced to the property line. The existing sewers will be replaced and various surface drainage improvements are to be undertaken to direct flow overland. The sewer house service connections will also be replaced to the property line. During the design stage, the scope of work was extended to include rehabilitation of aging infrastructure on City Centre Ave. to Booth St.</p> <p>The 2010 Total Project Estimate of \$4.5M is comprised of: Roads -\$1.17M, Storm Drainage - \$1.42M and Water Mains - \$1.91M. This project is subject to Council's approval of the Infrastructure Renewal Levy.</p>	14, 15	<p>Wellington St. W. to Booth St.</p> 	4,500
<p>905518 Merriman/Dunvegan/Arundel (Design)</p> <p>This project involves the renewal of portions of Arundel Ave, Dunvegan Rd and Merriman Ave. The project will involve full roadway reconstruction including the replacement of the existing water mains, valves, hydrants, and lead services to the property line. The existing combined sewer will be separated with a new sanitary and a new storm sewer. A combined sewer overflow (CSO) location will be removed. The sewer house service connection will be replaced to the property line. The 2010 budget request provides for design with construction to follow in future years.</p> <p>The 2010 allocation of \$300K is comprised of: Roads - \$70K, Sanitary Sewers - \$70K, Storm Drainage - \$90K and Water Mains - \$70K.</p>	13	<p>Sandridge to Arundel/Farnham to Dead End N/Dunvegan to Farnham</p> 	300

Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
904209 Infrastructure Mgmt Application Renewal	CW	Renewal	10,795
<p>The project was initiated in 2006 through a business process review aimed at documenting improvements to inventory and work management processes as well as defining functional requirements for the application. Replacement is planned over the next two years with annual budget requests to coincide with planned implementation phases. The 2010 request provides the additional authority required for implementation of the final phase of the replacement application.</p> <p>The 2010 Total Project Estimate of \$10.795M is comprised of: Roads - \$1.626M, Sanitary Sewers - \$3.028M, Storm Drainage - \$3.028M and Water Mains - \$3.113M.</p>			
905510 Infrastructure Assessment & Data Collection-2010	CW	Renewal	4,060
<p>This is an ongoing project related to performance monitoring and condition assessment of the City's roads, water mains, sanitary sewers, storm drainage and combined sewer networks. Funding provides for testing, network level data collection, miscellaneous soil evaluations, and asset management implementation initiatives.</p> <p>The 2010 Total Project Estimate of \$4.06M is comprised of: Roads - \$280K, Sanitary Sewers - \$1.225M, Storm Drainage - \$1.38M and Water Mains - \$1.175M.</p>			
905513 Right of Way / Easement Adjustments	CW	Renewal	400
<p>This funding request is for the annual requirements associated with the negotiation, purchase and dedication of road rights-of-way, easements and encroachments of existing City infrastructure onto private properties.</p> <p>The 2010 Total Project Estimate of \$400K is comprised of: Roads - \$100K, Sanitary Sewers - \$100K, Storm Drainage - \$100K and Water Mains - \$100K.</p>			
905512 Scoping, Pre/Post Engineering for 2011	CW	Renewal	400
<p>Scoping and design briefs are necessary to adequately define boundary conditions, coordination requirements and project limits prior to initiating design stages. Funding also allows design assignments to be initiated for construction in the following year and to address adjustments required beyond the project's completion.</p> <p>The 2010 Total Project Estimate of \$400K is comprised of: Roads - \$100K, Sanitary Sewers - \$100K, Storm Drainage - \$100K and Water Mains - \$100K.</p>			

Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
905511 Guidelines, Specifications & Engineering Docs-2010	CW	Renewal	190
<p>Funding provides for development and updates to approved products, design guidelines, construction standards, specifications, digital vault scanning, miscellaneous support studies and construction technical support initiatives. The 2010 Total Project Estimate of \$190K is comprised of: Roads - \$85K, Sanitary Sewers - \$35K, Storm Drainage - \$35K and Water Mains - \$35K.</p>			

City of Ottawa

Service Area: Integrated Roads, Water & Wastewater

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Integrated Rehabilitation - Intensification Areas

Dept: Infrastructure Services	Category: Renewal of City assets	Ward: CW	Year of Completion: Various
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Integrated rehabilitation projects include rehabilitation of more than one asset class (roads, sanitary sewers, storm drainage and water mains) coordinated within a single project. The projects preserve, renew and replace existing infrastructure assets in need. The Official Plan (OP) states the City’s overall goal to expand intensification in the urban area and the Infrastructure Master Plan (IMP) supports the OP’s goals by providing guiding principles that identify the need to provide growth funding through the Development Charges (DC) By-law to those components of infrastructure rehabilitation programs supporting growth objectives.

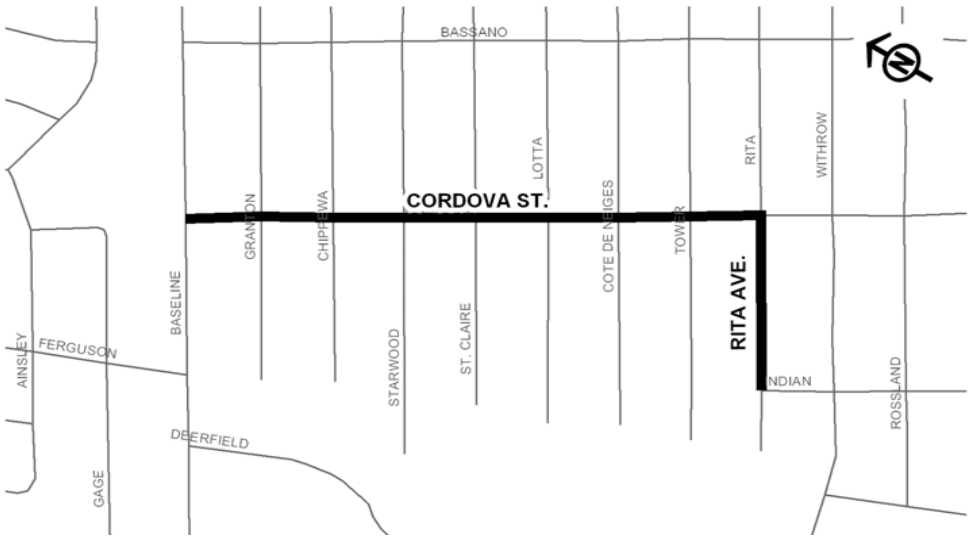

Existing City infrastructure was constructed for existing development and planned growth in place at the time. Rehabilitation strategies for existing infrastructure that address level of service, environmental and public health issues, provide the opportunity to generate additional capacity for growth by providing a global system benefit with the replacement or upsizing of existing infrastructure or by removing extraneous flows, reducing infiltration, or improving system hydraulics.

The Integrated Rehabilitation - Intensification Areas program provides for grouping of those proposed rehabilitation projects that are within sewer catchment areas that have identified intensification potential. The purpose of the grouping is to distinguish the rehabilitation projects for consideration of DC funding from those that are not within the intent of provisions of the 2009 Development Charge Bylaw 2009- 16 (schedule B-17 items 10.074/10.179). For the term of bylaw 2009-16, DC contributions for this program are being targeted against the sanitary/combined sewer component of these projects.

2010 Request	46,235	Previous Authority	
Revenues	9,565	Rate Supported	6,112
Tax Supported/ Dedicated	-	Development Charges	1,436
Gas Tax	-	Debt	29,122
Forecast	2009	2010	2011
Authority	46,235		
Spending Plan	46,235		
FTE's	-		
Operating Impact	-		

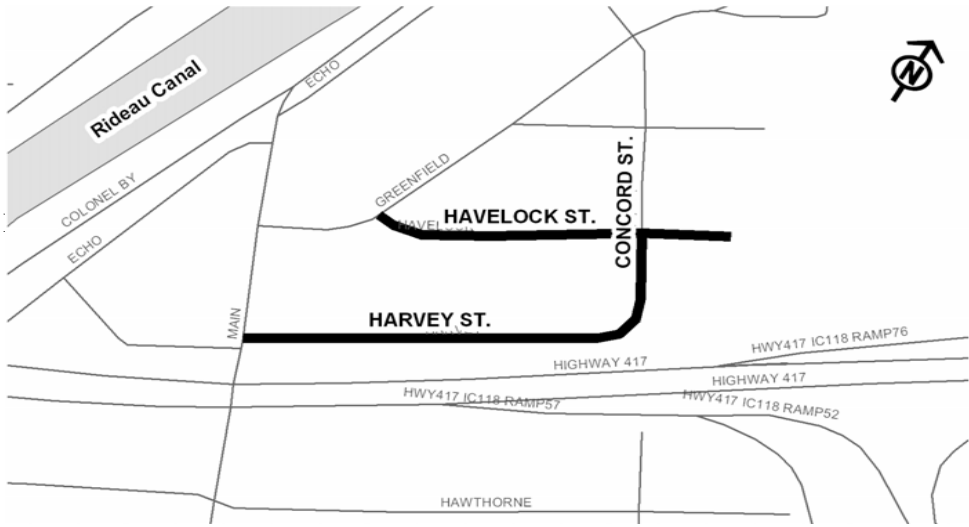
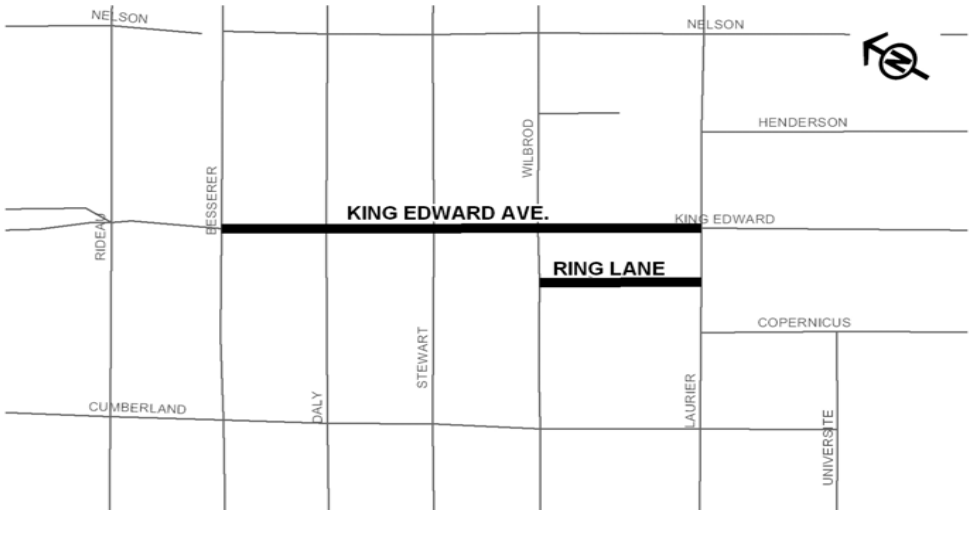
Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>905577 Cordova St/Rita Ave.</p> <p>In 2006 the City undertook an Environmental Assessment (EA) and preliminary design study to address flooding occurrences within the St. Claire Gardens neighbourhood. The recommendation stemming from the study is to rebuild the trunk sanitary sewer with increased capacity and greater depth. Phase 1 of the construction project is currently underway.. The second phase of the project received full funding from the Infrastructure Stimulus Fund program and is currently being constructed. This authority request provides for construction of the final phase along Cordova Street and Rita Avenue. The 2010 Total Project Estimate of \$3.76M is comprised of: Roads - \$870K, Sanitary Sewers - \$870K, Storm Drainage - \$1.11M and Water Mains - \$910K. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	8	<p>Baseline to Rita/Indian to Cordova</p> 	3,760
<p>905578 Fourth Ave/Chrysler St.</p> <p>This project involves the renewal of portions of Fourth Ave. and Chrysler St. in the Glebe. The current authority request provides for the design and the construction of combined sewers, water mains, roadways, curbs and sidewalks. This project is considered a priority to reduce basement flooding in the area.</p> <p>The 2010 Total Project Estimate of \$3.45M is comprised of: Roads - \$650K, Sanitary Sewers - \$1.63M and Water Mains - \$1.17M. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17. This project is subject to Council's approval of the Infrastructure Renewal Levy.</p>	17	<p>Bronson to Percy/Fourth to First</p> 	3,450



Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>905594 Concord St. N/Harvey/Havelock (Design)</p> <p>The project is considered a priority to reduce basement flooding in the area and involves the renewal of roads, sewers, water mains and sidewalks in portions of Harvey St., Havelock St. and Concord St. The existing combined sewer will be replaced with a new separate sanitary and storm sewer. The sewer house service connections will be replaced to the property line. The 2010 authority request will provide for the design with construction planned for the following year. The 2010 Total Project Estimate of \$310K is comprised of: Roads - \$50K, Sanitary Sewers - \$70K, Storm Drainage - \$100K and Water Mains - \$90K. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	17	<p>Havelock to Harvey/Main to Concord/Greenfield to Dead End</p> 	310
<p>905592 King Edward Avenue</p> <p>Previous authority requests have provided for design and construction activities associated with Phases I to IV of the overall project. The 2010 request provides the authority necessary to complete the construction of the final phase, between Besserer St. and Laurier Ave. East. The reconstruction of the adjacent street, Ring Lane (Wilbrod to Laurier), is being coordinated with this last phase of King Edward Ave.,</p> <p>The 2010 Total Project Estimate of \$7.01M is comprised of: Roads - \$2.54M, Sanitary Sewers - \$1.22M, Storm Drainage - \$2.11M and Water Mains - \$1.14M.</p> <p>A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	12	<p>Besserer to Laurier</p> 	7,010


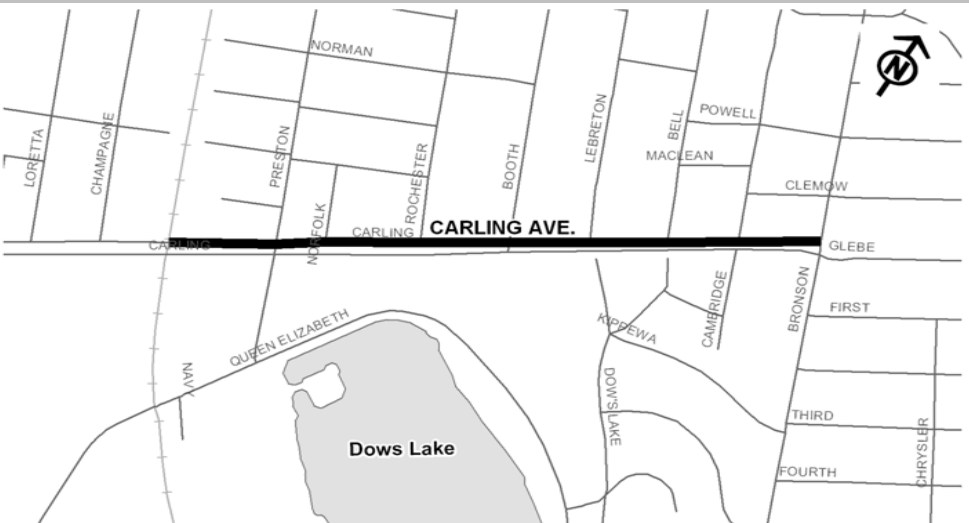
Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>905579 Lacasse Ave/Levis Ave/Lafontaine Ave.</p> <p>The project involves the renewal of portions of Lacasse Ave., Levis Ave. and Lafontaine Ave. The 2010 authority request will provide for the replacement of storm and sanitary sewers, water mains, roadways and sidewalks. This project is considered a priority to reduce basement flooding in the area. The 2010 Total Project Estimate of \$5.2M is comprised of: Roads - \$1.21M, Sanitary Sewers - \$1.2M, Storm Drainage - \$1.54M and Water Mains - \$1.25M.</p> <p>A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	12	<p>Montreal to Levis/Lacasse to Lafontaine/Levis to Blake</p> 	5,200
<p>904895 Rockcliffe West Design</p> <p>This project involves the renewal of the Rockcliffe Storm Sewer Outlet and a number of streets in the Rockcliffe West area. It involves full roadway reconstruction including the replacement of existing water mains, valves, hydrants, and lead services to the property line. The existing combined sewer will be separated with a new sanitary and a new storm sewer. Various surface drainage improvements will be incorporated to direct flow overland. The 2010 request provides for design, with construction planned for the following year. The 2010 allocation of \$1.095M is comprised of: Roads - \$175K, Sanitary Sewers - \$260K, Storm Drainage - \$350K and Water Mains - \$310K. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	13	<p>Location as per attached Plan.</p> 	1,095


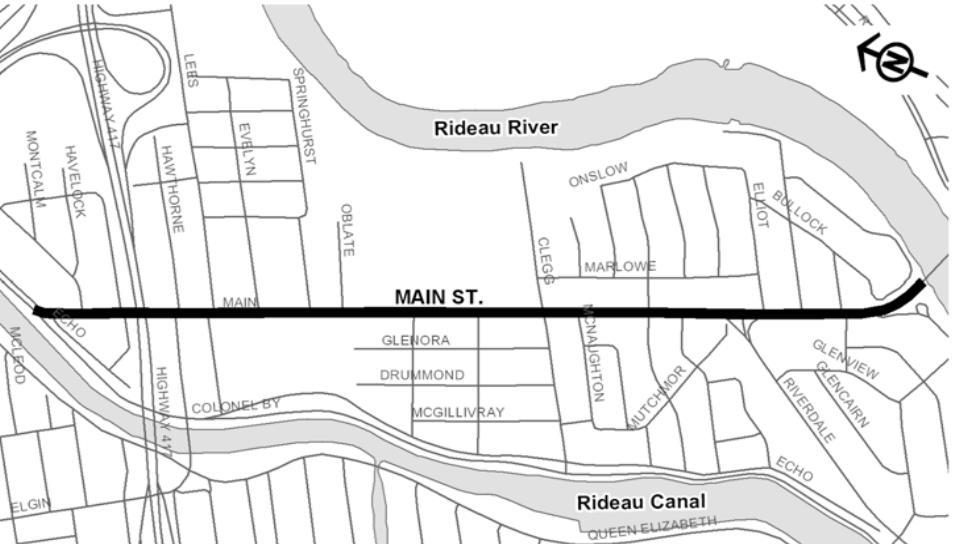
Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>904498 Cave Creek Collector Flood Control</p> <p>Cave Creek Collector is a major sanitary collector sewer. A 2007 investigation into the cause of basement flooding(s) has identified a portion of the collector sewer requires capacity improvements. This section is located between the intersections of Merivale/Carling Ave. and Harmer/Byron Ave. This authority request will provide for the construction of Phase 1 along that portion of the corridor. In some locations work will be limited to sanitary sewer construction and trench reinstatement, in other areas work will involve full renewal of sewers, water main and roadway infrastructure. The exact alignment will be identified in the final design stage.</p> <p>The 2010 allocation of \$8.09M is comprised of: Roads - \$1.53M, Sanitary Sewers - \$2.38M, Storm Drainage - \$2.1M and Water Mains - \$2.08M. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	15	<p>Carling Ave. to Byron Ave.</p> 	8,090
<p>905581 Carling Ave. Rehabilitation (Design)</p> <p>This project involves the renewal of portions of Carling Ave. The project will include the rehabilitation and extension of the Preston Street combined trunk sewer (1500mm) as well as the local infrastructure. The project involves full road reconstruction including, the renewal of sanitary sewers, storm sewers, water mains, roadways, curbs and sidewalks. The sewer house service connections and water main lead house service connections will be replaced to the property line. The authority request will provide for the design in 2010, with construction planned for the following year.</p> <p>The 2010 allocation of \$600K is comprised of: Roads - \$140K, Sanitary Sewers - \$140K, Storm Drainage - \$180K and Water Mains - \$140K. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	14, 17	<p>Bronson Ave. to O-Train Bridge</p> 	600


Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>905582 King George St. / Glynn Ave (Design)</p> <p>This project involves the renewal of sanitary sewers, storm sewers, water mains, roadways, curbs and sidewalks. The sewer house service connections and water main lead house service connections will be replaced to the property line. This project is considered a priority to reduce basement flooding in the area. The authority request will provide for the design in 2010, with construction planned for the following year. The 2010 allocation of \$340K is comprised of: Roads - \$80K, Sanitary Sewers - \$80K, Storm Drainage - \$100K and Water Mains - \$80K. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17.</p>	12	<p>Sharp to Quill/Sharp to Quill</p> 	340
<p>905586 Main Street (Design)</p> <p>This project involves the renewal of Main St. The project will involve full roadway reconstruction including the replacement of the existing water mains, valves, hydrants, and lead house service connections to the property line. Portions of the existing sewers are combined and they will be replaced with separated sanitary and storm sewers. The sewer house service connections and water main lead house service connections will be replaced to the property line. This authority request provides for design in 2010 with construction to follow in future years. The 2010 allocation of \$1.38M is comprised of: Roads - \$320K, Sanitary Sewers - \$320K, Storm Drainage - \$410K and Water Mains - \$330K. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179. on schedule B-17. This project is subject to Council's approval of the Infrastructure Renewal Levy.</p>	17, 18	<p>Echo Dr. to Rideau River</p> 	1,380

Service Area: Integrated Roads, Water & Wastewater

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
904891 Hwy 417 Water TransMain - Carling (Design)	15, 16	Kirkwood to Merivale	15,000
<p>This budget request provides the authority necessary to commence the design and construction of the water transmission main and the local underground infrastructure on Carling Ave. and on Merivale Road. Coordinated renewal of the local infrastructure will include sewer, water and road rehabilitation. Relocation of the water transmission main on Merivale Rd will be coordinated with the planned Cave Creek Collector renewal project. Cost sharing negotiations between the City and the MTO are underway and will be finalized prior to completion of the works.</p> <p>The 2010 allocation of \$15M is comprised of: Roads - \$420K, Sanitary Sewers - \$420K, Storm Drainage - \$510K and Water Mains - \$13.65M. A portion of Sanitary Sewer component for this project is to be funded from the Development Charges By-Law No. 2009 - 216, reference items 10.074 and 10.179 on schedule B-17.</p> <p>NOTE: The 2010 project authority has increased since the publishing of the Tax-Supported Draft Budget as the watermain portion of the project has been advanced from 2011 to 2010 in order to meet MTO timelines.</p>			

City of Ottawa

Service Area: Integrated Water & Wastewater

2010 Draft Budget

In Thousands (\$000)

Program Information	Financial Details
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Integrated Sewer and Water Program - Rate

Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: CW	Year of Completion: Various
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The Integrated Program includes rehabilitation of more than one asset class (sanitary sewers, storm drainage and water mains) that are coordinated within a single project. The program is aimed at preserving, renewing and replacing the infrastructure assets in order to provide continued service and prevent failures. The program is comprised of:

- Infrastructure management initiatives (flow monitoring, condition assessments, etc.);
- Project scoping and engineering;
- Functional and preliminary designs;
- Lifecycle renewal;
- Coordinated renewal (schedule coordination (escalation or deferral) between asset classes and with others);
- Level of service enhancements (flooding improvements and system optimization);
- Enhancements coordinated with renewal (new cycling/sidewalks/streetscaping);
- Rehabilitation and upgrades to support growth and miscellaneous localized repairs.

Program funding requirements to support needs are defined in the long range financial Plan. Budget allocations for these programs are adjusted to reflect change in need and affordability.

Detailed information and costs associated with specific components and projects are provided following this program summary.

2010 Request	1,750	Previous Authority	
Revenues	-	Rate Supported	-
Tax Supported/ Dedicated	-	Development Charges	-
Gas Tax	-	Debt	1,750
Forecast	2009	2010	2011
Authority	1,750		
Spending Plan	1,750		
FTE's	-		
Operating Impact	-		

City of Ottawa

Service Area: Integrated Water & Wastewater

2010 Draft Budget

In Thousands (\$000)

Project	Ward	Location/Description	\$000's
<p>905520 Localized Network Repair/Improvement</p> <p>This funding provides for miscellaneous localized water or sewer repairs and improvements. Work could entail both trenchless and conventional spot repairs as well as various hydraulic improvements.</p> <p>Total Project Estimate of \$1.5M is comprised of: Sanitary Sewers - \$500K, Storm Drainage - \$750K and Water Mains - \$250K.</p>	<p>CW</p>	<p>Renewal</p>	<p>1,500</p>
<p>905521 Renewal - Sewer Access and Outfalls</p> <p>This project involves the upgrade of access structures along major collector sewers across the City. The 2010 program will focus on the upgrade of structures along the Rideau River Interceptor sewer.</p> <p>The 2010 Total Project Estimate of \$3.0M is comprised of: Sanitary Sewers - \$1.5M and Storm Drainage - \$1.5M.</p>	<p>CW</p>	<p>Renewal</p>	<p>250</p>

City of Ottawa

Service Area: Integrated Water & Wastewater

2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details			
905571 Intensification Studies						
Dept: Infrastructure Services	Category: Renewal of City Assets	Ward: CW	Year of Completion:		Various	
<p>The Integrated Rehabilitation - Intensification Areas program provides for grouping of those proposed rehabilitation projects that are within sewer catchment areas that have identified intensification potential. Capacity analyses of the storm and sanitary sewer infrastructure is required in order to support infill and intensification development proposals and to advance project specific analysis when the intensification pressures occur in advance of scheduled infrastructure rehabilitation projects. Total Project Estimate of \$500K is comprised of: Sanitary Sewers - \$250K and Storm Drainage - \$250K.</p>			2010 Request	500	Previous Authority	1,275
			Revenues	-	Rate Supported	-
			Tax Supported/ Dedicated	-	Development Charges	50
			Gas Tax	-	Debt	450
			Forecast	2010	2011	2012
			Authority	500		
			Spending Plan	500		
			FTE's	-		
Operating Impact	-					

City of Ottawa

Service Area: Integrated Water & Wastewater

2010 Draft Budget

In Thousands (\$000)

Project Information			Financial Details			
902571 Rural Servicing Strategy						
Dept: Planning and Growth Management	Category: Strategic Initiative	Ward: 5, 6, 19, 20, 21	Year of Completion: 2012			
<p>The Rural Servicing Strategy is made up of a coordinated on-going set of initiatives geared to promoting safe and sustainable water supply and wastewater disposal for rural uses. Public health, environmental protection, infrastructure life cycle costs, financing, legislative requirements, groundwater and aquifer studies, and monitoring of conditions are all parts of the strategy to support sustainable private services.</p> <p>Projects are underway, recently completed and on-going relate to Regional Groundwater Study (MOE sponsored), wellhead protection (MOE sponsored), groundwater capacity in Heart's Desire, Carp Road Corridor, and North Gower, municipal well source water and wellhead protection, well and septic system re-inspection, village groundwater capacity and growth. On-going education is provided through homeowner workshops about wells and septic systems and area specific resource protection information.</p>			2010 Request	225	Previous Authority	1,275
			Revenues	-	Rate Supported	157
			Tax Supported/ Dedicated	-	Development Charges	68
			Gas Tax	-	Debt	-
			Forecast	2010	2011	2012
			Authority	225		
			Spending Plan	225		
			FTE's	-		
Operating Impact	-					

Supplementary

City of Ottawa
2010 Capital Rate Budget - New Authority
 In Thousands (\$000)

2010 Draft Budget

Description	2010 New Authority	Funding							
		Revenue	Tax Supported & Other Reserves	Rate Supported	Develop. Charges	Debt			
						CW Debt	Water Debt	Sewer Debt	DC Debt
Renewal of City Assets									
<i>Integrated Renewal</i>									
<u>Integrated Road, Sewer & Water Renewal</u>									
904209 Infrastructure Mgmt Applications Renewal	10,795	-	-	9,169	-	1,626	-	-	-
904896 Somerset W (Wellington - Booth)	4,500	946	-	-	47	1,170	1,910	427	-
905510 Infrastructure Assmnt & Data Collect-2010	4,060	-	-	-	-	280	1,175	2,605	-
905511 Guidelines, Specs & Engineering Docs2010	190	-	85	105	-	-	-	-	-
905512 Scoping Pre/Post Engineering- 2010	400	-	100	300	-	-	-	-	-
905513 R-O-W/Easement Adjustments	400	-	100	300	-	-	-	-	-
905518 Meriman - Dunvegan - Arundel	300	106	-	-	5	70	70	49	-
	20,645	1,052	285	9,874	52	3,146	3,155	3,081	-
<u>Integrated Rehab-Intensification Areas</u>									
904498 Cave Creek Collect Flood Control Measure	8,090	-	-	6,112	448	1,530	-	-	-
904891 Hwy 417 Water TransMain - Carling Design	15,000	6,825	-	-	93	420	6,825	837	-
904895 Rockcliffe West Design	1,095	406	-	-	20	175	310	184	-
905577 Cordova/Rita (Baseline-Rita/Cordova-Indi	3,760	-	-	-	198	870	910	1,782	-
905578 Fourth Ave / Chrysler Ave	3,450	-	-	-	163	650	1,170	1,467	-
905579 Lafontaine / Levis / Lacasse	5,200	-	-	-	274	1,210	1,250	2,466	-
905581 Carling Ave (Bronson - O-Train)	600	-	-	-	32	140	140	288	-
905582 King George St. / Glynn Ave	340	-	-	-	18	80	80	162	-
905586 Main St (Echo Dr - Rideau River)	1,380	-	-	-	73	320	330	657	-
905592 King Edward (Besserer -Laurier)	7,010	2,220	-	-	111	2,540	1,140	999	-
905594 Harvey St /Concord St N / Havelock	310	114	-	-	6	50	90	50	-
	46,235	9,565	-	6,112	1,436	7,985	12,245	8,892	-
<u>Integrated Resurfacing/Rehab Renewal</u>									
905524 Road Resurfacing - CW - 2010	14,770	-	-	-	-	12,350	1,050	1,370	-
	14,770	-	-	-	-	12,350	1,050	1,370	-
<u>Integrated Sewer & Water Prog Renewal</u>									
905520 Sewer & Water Repairs / Improvements	1,500	-	-	-	-	-	250	1,250	-
905521 Renewal - Sewer Access & Outfalls	250	-	-	-	-	-	-	250	-
905571 Intensification Studies - 2010	500	-	-	-	50	-	-	450	-
	2,250	-	-	-	50	-	250	1,950	-
<i>Integrated Renewal</i>	83,900	10,617	285	15,986	1,538	23,481	16,700	15,293	-
<i>Drinking Water Renewal</i>									
<u>Individual Drinking Water Renewal</u>									
902144 Water Storage Tanks & Reservoirs Rehab	88	-	-	88	-	-	-	-	-
902146 Water Pumping Station Facilities Rehab	980	-	-	980	-	-	-	-	-
902149 Communal Well Systems Rehabilitation	339	-	-	339	-	-	-	-	-
903299 Stittsville Pumping Station	1,500	-	-	100	-	-	1,400	-	-

City of Ottawa
2010 Capital Rate Budget - New Authority
In Thousands (\$000)

2010 Draft Budget

Description	2010 New Authority	Funding							
		Revenue	Tax Supported & Other Reserves	Rate Supported	Develop. Charges	Debt			
						CW Debt	Water Debt	Sewer Debt	DC Debt
905465 Lifecycle Renewal Fleet - Water Services	586	-	586	-	-	-	-	-	-
	3,493	-	586	1,507	-	-	1,400	-	-
<u>Water Systems General Renewal</u>									
900163 Water Facilities-Master Drawings Program	100	-	-	100	-	-	-	-	-
900169 Facilities Operations Manuals	147	-	-	147	-	-	-	-	-
903407 Water System SCADA Replacement	500	-	-	500	-	-	-	-	-
905750 Asset Management Strategy	150	-	-	150	-	-	-	-	-
905751 Water Facility Roofing	565	-	-	565	-	-	-	-	-
	1,462	-	-	1,462	-	-	-	-	-
<u>Water Treatment Program Renewal</u>									
902145 Water Facilities Rehabilitation Program	5,820	-	-	5,720	-	-	100	-	-
902955 Water Purification Plant Facilities Proj	750	-	-	750	-	-	-	-	-
902957 Water Treatment Equipment Upgrade Proj.	700	-	-	700	-	-	-	-	-
	7,270	-	-	7,170	-	-	100	-	-
<u>Water System Rehab Program Renewal</u>									
904878 Wren Rd (Swans Way-Coxford) Design	490	-	-	490	-	-	-	-	-
904879 Johnston Rd (Tapiola-215m East) Design	2,940	-	-	2,940	-	-	-	-	-
905007 Hwy 417 Coord with MTO - Lees Relocate	150	75	-	25	-	-	50	-	-
905054 Woodroffe TransMain(Hunt Club-Sportsplex	270	-	-	270	-	-	-	-	-
905544 Trenchless Rehabilitation - Water	3,000	-	-	100	-	-	2,900	-	-
905545 Carling Ave (Schneider - March)	3,430	-	-	30	-	-	3,400	-	-
905546 Thames Str (Merivale - Dead End)	1,650	-	-	50	-	-	1,600	-	-
905547 Canotek Rd /Polytek (125 m South)	1,830	-	-	30	-	-	1,800	-	-
905549 Springhurst Ave (Main-Chestnut)	90	-	-	-	-	-	90	-	-
905550 TransMain Rehab Master Plan	350	-	-	50	-	-	300	-	-
	14,200	75	-	3,985	-	-	10,140	-	-
<u>Water Distribution System Prog Renewal</u>									
900196 Automated Meter Reading	5,000	-	-	5,000	-	-	-	-	-
900202 Condition Assessment Critical Sys Links	425	-	-	425	-	-	-	-	-
901135 Water Distribution System Improvements	880	-	-	780	-	-	100	-	-
902958 Service Posts Rehabilitation Program	650	-	-	650	-	-	-	-	-
902959 Cathodic Protection Water System	2,100	-	-	2,100	-	-	-	-	-
904170 Proactive Lead Service Replacement Prog.	1,000	-	-	1,000	-	-	-	-	-
	10,055	-	-	9,955	-	-	100	-	-
<i>Drinking Water Renewal</i>	36,480	75	586	24,079	-	-	11,740	-	-

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Description	2010 New Authority	Funding							
		Revenue	Tax Supported & Other Reserves	Rate Supported	Develop. Charges	Debt			
						CW Debt	Water Debt	Sewer Debt	DC Debt
<i>Wastewater Services Renewal</i>									
<u>Individual Wastewater Services Renewal</u>									
900228 Orleans/Cumberland Collector Flood Prot	2,710	-	-	2,710	-	-	-	-	-
904752 Barrhaven South Oversizing	1,100	-	-	1,000	-	-	-	100	-
904967 Wastewater Drainage Roofing 2009	225	-	-	225	-	-	-	-	-
905417 Infrastructure Master Plan (Sewer)	350	-	-	276	74	-	-	-	-
905418 Infrastructure Master Plan (Storm)	350	-	-	278	72	-	-	-	-
905422 Vars Culverts	192	-	-	152	40	-	-	-	-
905424 Barrhaven S O/S North of Jock River	50	-	-	45	5	-	-	-	-
905466 Lifecycle Renewal Fleet -Wastewater Svcs	228	-	228	-	-	-	-	-	-
905555 Sawmill Creek SWM Pond	250	-	-	50	-	-	-	200	-
905560 Eastern Subwatershed SWM Retrofit	750	500	-	225	25	-	-	-	-
905757 Monahan Constructed Wetland Rehab.	500	-	-	500	-	-	-	-	-
	6,705	500	228	5,461	216	-	-	300	-
<u>Wastewater Services General Renewal</u>									
900257 Water Env. Protec Short Term Initiatives	152	-	-	121	31	-	-	-	-
902965 Wastewater Facilities Upgrades	500	-	-	500	-	-	-	-	-
905756 ROPEC - Sluce Gates & Concrete Repairs	4,000	-	-	-	-	-	-	4,000	-
	4,652	-	-	621	31	-	-	4,000	-
<u>Wastewater Treatment Renewal</u>									
902141 Lab Equipment Purchase/Replacement	300	-	-	300	-	-	-	-	-
	300	-	-	300	-	-	-	-	-
<u>Wastewater Structures Renewal</u>									
905533 Scoping Pre/Post Drn Culverts - 2010	200	-	-	200	-	-	-	-	-
905534 Renewal-Drainage Culverts (1m-3m span)	2,500	-	-	-	-	-	-	2,500	-
905535 Municipal Drain Culverts(1m-3m Span)	2,590	-	-	-	-	-	-	2,590	-
905536 Renewal-Drainage Culverts (<=1m span)	1,300	-	-	-	-	-	-	1,300	-
905537 Drainage Culvrt-Site Specific Repair-2010	250	-	-	-	-	-	-	250	-
	6,840	-	-	200	-	-	-	6,640	-
<u>Stormwater Collection Rehab Prog Renewal</u>									
904567 Orleans Flood Control Remediation	1,300	-	-	1,300	-	-	-	-	-
905551 Trenchless Rehabilitation-Storm Sewers	1,000	-	-	1,000	-	-	-	-	-
905552 Pineview Area - Surface Drainage	700	-	-	700	-	-	-	-	-
905553 West-end Flood Mitigation	4,000	-	-	4,000	-	-	-	-	-
905554 Joint CA/City Renewal Activities 2010	200	-	-	50	-	-	-	150	-
905556 Ditch Alts - Assess/Implement - 2010	150	100	-	50	-	-	-	-	-
905755 Merivale Storm Sewer repair	800	-	-	800	-	-	-	-	-
	8,150	100	-	7,900	-	-	-	150	-
<u>Sanitary Sewer Rehab Program Renewal</u>									
901148 Extraneous Flow Removal - CW	550	-	-	550	-	-	-	-	-
904883 UCSA Inlet Control/Floatables	1,750	1,166	-	26	58	-	-	500	-

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2010 Draft Budget

Description	2010 New Authority	Funding							
		Revenue	Tax Supported & Other Reserves	Rate Supported	Develop. Charges	Debt			
						CW Debt	Water Debt	Sewer Debt	DC Debt
904939 Wet Weather IMP - Flow Reduction	825	550	-	247	28	-	-	-	-
904940 Pollution Prevent & Control-Implement	1,250	834	-	74	42	-	-	300	-
905028 ORF-Combined Sewer Overflow Reduction	5,500	3,666	-	-	-	-	-	1,834	-
905515 Knoxdale Road (Woodroffe - Newhaven)	2,820	-	-	-	-	-	-	2,820	-
905557 Inlet Control Devices - CW - 2010	400	-	-	400	-	-	-	-	-
905558 Merivale Road San Local Improvement	250	100	-	150	-	-	-	-	-
905559 Trenchless Rehabilitation-San Sewers	2,000	-	-	2,000	-	-	-	-	-
905765 Swans Way S - San Local Improv	150	-	-	150	-	-	-	-	-
	15,495	6,316	-	3,597	128	-	-	5,454	-
Ottawa River Fund Renewal									
905004 ORF-Ottawa River Quality Modelling Init.	200	-	-	200	-	-	-	-	-
905762 ORAP-Monitoring & Source Control Program	260	-	-	260	-	-	-	-	-
	460	-	-	460	-	-	-	-	-
<i>Wastewater Services Renewal</i>	42,602	6,916	228	18,539	375	-	-	16,544	-
Renewal of City Assets	162,982	17,608	1,099	58,604	1,913	23,481	28,440	31,837	-

City of Ottawa
2010 Capital Rate Budget - New Authority
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2010 Draft Budget

Description	2010 New Authority	Funding							
		Revenue	Tax Supported & Other Reserves	Rate Supported	Develop. Charges	Debt			
						CW Debt	Water Debt	Sewer Debt	DC Debt
Growth									
<i>Drinking Water Growth</i>									
<u>Individual Drinking Water Growth</u>									
901145 2C/2W Feedermain Link	21,000	-	-	-	6,118	-	12,434	-	2,448
901183 Trim Road / St Joseph Watermains	4,242	-	-	450	3,792	-	-	-	-
902206 Ottawa South Pumping Station Upgrade	2,600	-	-	1,703	897	-	-	-	-
902572 Water & Wastewater EA Studies	300	-	-	60	240	-	-	-	-
903292 Watters Road (Montcrest to Trim)	152	-	-	-	137	-	15	-	-
904970 SUC Greenbank	1,600	-	-	-	1,440	-	160	-	-
904973 Leitrim Supply Watermain	350	-	-	42	108	-	200	-	-
904975 Barrhaven PS conversion to 3C	700	-	-	-	540	-	70	-	90
	30,944	-	-	2,255	13,272	-	12,879	-	2,538
<u>Water Systems General Growth</u>									
900965 New Vehicles - Drinking Water Services	200	-	-	20	180	-	-	-	-
905430 Off Site Reliability Links 2010	100	-	-	-	50	-	50	-	-
905431 Tenth Line : Hydro Easement - Lakepointe	462	-	-	-	416	-	46	-	-
905432 Trim Road (Pinnacle to BHBP)	1,103	-	-	-	993	-	110	-	-
	1,865	-	-	20	1,639	-	206	-	-
<u>Water Treatment Program Growth</u>									
900505 Lemieux Island WPP Expansion	1,000	-	-	-	900	-	100	-	-
	1,000	-	-	-	900	-	100	-	-
<i>Drinking Water Growth</i>	33,809	-	-	2,275	15,811	-	13,185	-	2,538
<i>Wastewater Services Growth</i>									
<u>Individual Wastewater Services Growth</u>									
900239 Cumberland Trunk Sewer	327	-	-	-	327	-	-	-	-
903300 Signature Ridge P. Sta. & Forcemain	500	-	-	-	500	-	-	-	-
903307 Jackson Trail Pumping Station & Forcemain	200	-	-	-	200	-	-	-	-
904989 Hazeldean PS Upgrade	1,111	-	-	-	1,000	-	-	111	-
905420 Servicing Studies Development Prog 2010	700	-	-	70	630	-	-	-	-
905423 Riverside S Community Sanitary	600	-	-	-	575	-	-	-	25
	3,438	-	-	70	3,232	-	-	111	25
<u>Wastewater Services General Growth</u>									
903791 New Vehicles - Wastewater	360	-	-	36	324	-	-	-	-
	360	-	-	36	324	-	-	-	-
<i>Wastewater Services Growth</i>	3,798	-	-	106	3,556	-	-	111	25
Growth	37,607	-	-	2,381	19,367	-	13,185	111	2,563

City of Ottawa
2010 Capital Rate Budget - New Authority
 In Thousands (\$000)

2010 Draft Budget

Description	2010 New Authority	Funding							
		Revenue	Tax Supported & Other Reserves	Rate Supported	Develop. Charges	Debt			
						CW Debt	Water Debt	Sewer Debt	DC Debt
Regulatory									
<i>Drinking Water Regulatory</i>									
<u>Water Systems General Regulatory</u>									
900206 Water Efficiency	1,330	-	-	875	455	-	-	-	-
	1,330	-	-	875	455	-	-	-	-
<i>Drinking Water Regulatory</i>	1,330	-	-	875	455	-	-	-	-
<i>Wastewater Services Regulatory</i>									
<u>Individual Wastewater Services Regulatory</u>									
902142 ROPEC - Effluent Declorination	5,500	-	-	-	-	-	-	5,500	-
902960 Municipal Drains Improvements & Construct	1,830	1,830	-	-	-	-	-	-	-
	7,330	1,830	-	-	-	-	-	5,500	-
<u>Wastewater Services General Regulatory</u>									
903665 Protective Plumbing Program	1,200	-	-	1,200	-	-	-	-	-
905036 Quality Management System	270	-	-	270	-	-	-	-	-
	1,470	-	-	1,470	-	-	-	-	-
<i>Wastewater Services Regulatory</i>	8,800	1,830	-	1,470	-	-	-	5,500	-
Regulatory	10,130	1,830	-	2,345	455	-	-	5,500	-

City of Ottawa
2010 Capital Rate Budget - New Authority
 In Thousands (\$000)

2010 Draft Budget

Description	2010 New Authority	Funding							
		Revenue	Tax Supported & Other Reserves	Rate Supported	Develop. Charges	Debt			
						CW Debt	Water Debt	Sewer Debt	DC Debt
Strategic Initiatives									
<u>Integrated Sewer & Water Prog Strategic</u>									
902571 Rural Servicing Strategy	225	-	-	157	68	-	-	-	-
	225	-	-	157	68	-	-	-	-
<i>Integrated Strategic</i>	225	-	-	157	68	-	-	-	-
<i>Drinking Water Strategic</i>									
<u>Individual Drinking Water Strategic</u>									
905427 Groundwater Management Phase 2	500	-	-	60	440	-	-	-	-
905428 Groundwater Studies	182	-	-	162	20	-	-	-	-
905682 Stream Restoration Projects 2010	200	-	-	200	-	-	-	-	-
905427 Groundwater Management Phase 2	882	-	-	422	460	-	-	-	-
<i>Drinking Water Strategic</i>	882	-	-	422	460	-	-	-	-
<i>Wastewater Services Strategic</i>									
<u>Individual Wastewater Services Strategic</u>									
904915 Trim Road Storm Sewer	500	-	-	100	-	-	-	400	-
905683 Watershed/Subwatershed Planning 2010	300	-	-	300	-	-	-	-	-
905745 Compassionate Grant Program	200	-	-	200	-	-	-	-	-
	1,000	-	-	600	-	-	-	400	-
<u>Ottawa River Fund Strategic</u>									
905787 ORAP-Water Environment Strategy	250	-	-	250	-	-	-	-	-
905788 ORAP-Public Education & Outreach	75	-	-	75	-	-	-	-	-
	325	-	-	325	-	-	-	-	-
<i>Wastewater Services Strategic</i>	1,325	-	-	925	-	-	-	400	-
Strategic Initiatives	2,432	-	-	1,504	528	-	-	400	-
Total Orders	213,151	19,438	1,099	64,834	22,263	23,481	41,625	37,848	2,563

City of Ottawa
Capital Reserve Continuities - 2010

In Thousands (\$000)

2010 Draft Budget

Capital Reserve	Opening Balance	Prior Year Surplus (Deficit)	Contributions to Capital	Drawdowns	Other Adjustments	Projected Closing Balance
Rate Supported						
Water	14,864	-	49,084	(33,158)	788	31,578
Wastewater	5,549	-	42,193	(31,676)	533	16,599

City of Ottawa
Development Charge Continuities - 2010
 In Thousands (\$000)

2010 Draft Budget

Deferred Revenue Account	Opening Balance	Revenue	Drawdowns	Other Adjustments	Projected Closing Balance
Sanitary Wastewater Services	(3,643)	10,574	(4,622)	(5,801)	(3,493)
Studies	(2,243)	1,128	(1,084)	-	(2,199)
Stormwater Management (Ponds)	(61,918)	-	-	(370)	(62,288)
Storm Sewers (Stormwater Drainage)	(4,601)	244	(71)	-	(4,428)
Water Services	(23,608)	7,033	(16,486)	(321)	(33,381)
TOTAL	(96,013)	18,979	(22,263)	(6,492)	(105,788)

City of Ottawa
Capital Debt Model
 In Thousands (\$000)

2010 Draft Budget

Total Rate Supported Debt	
Summary of Estimated Issued Net Debt	
Opening Net Debt	101,165
Estimated New Issues	45,000
Principal Payments and Sinking Fund Increases	<u>(9,446)</u>
Closing Net Debt	<u>136,719</u>
Summary of Estimated Unissued Debt	
Opening Unissued Debt	232,132
New Authority	82,036
New Issues	<u>(45,000)</u>
Closing Unissued Debt	<u>269,168</u>
Total Debt	<u>405,887</u>
Summary of Estimated Debt Service Charges	
Principal	7,684
Interest	<u>10,023</u>
Total Debt Service Charges	<u>17,707</u>

City of Ottawa
Capital Debt Model
 In Thousands (\$000)

2010 Draft Budget

Wastewater Rate Supported

Summary of Estimated Issued Net Debt

Opening Net Debt	22,782
Estimated New Issues	20,000
Principal Payments and Sinking Fund Increases	<u>(5,574)</u>
Closing Net Debt	<u>37,208</u>

Summary of Estimated Unissued Debt

Opening Unissued Debt	93,145
New Authority	37,848
New Issues	<u>(20,000)</u>
Closing Unissued Debt	<u>110,993</u>

Total Debt

148,201

Summary of Estimated Debt Service Charges

Principal	3,812
Interest	<u>6,601</u>
Total Debt Service Charges	<u>10,413</u>

City of Ottawa
Capital Debt Model
 In Thousands (\$000)

2010 Draft Budget

Water Rate Supported

Summary of Estimated Issued Net Debt

Opening Net Debt	72,726
Estimated New Issues	15,000
Principal Payments and Sinking Fund Increases	<u>(3,146)</u>
Closing Net Debt	<u>84,580</u>

Summary of Estimated Unissued Debt

Opening Unissued Debt	77,307
New Authority	41,625
New Issues	<u>(15,000)</u>
Closing Unissued Debt	<u>103,932</u>

Total Debt

188,512

Summary of Estimated Debt Service Charges

Principal	3,146
Interest	<u>3,203</u>
Total Debt Service Charges	<u>6,349</u>

City of Ottawa
Capital Debt Model
 In Thousands (\$000)

2010 Draft Budget

Development Charges Supported (Rate)	
Summary of Estimated Issued Net Debt	
Opening Net Debt	5,657
Estimated New Issues	10,000
Principal Payments and Sinking Fund Increases	<u>(726)</u>
Closing Net Debt	<u>14,931</u>
Summary of Estimated Unissued Debt	
Opening Unissued Debt	61,680
New Authority	2,563
New Issues	<u>(10,000)</u>
Closing Unissued Debt	<u>54,243</u>
Total Debt	<u>69,174</u>
Summary of Estimated Debt Service Charges	
Principal	726
Interest	<u>219</u>
Total Debt Service Charges	<u>945</u>

City of Ottawa
Project List by Funding Source
 In Thousands (\$000)

2010 Draft Budget

Capital Reserve Fund Summaries		65,648
Water Capital		33,158
900163	Water Facilities-Master Drawings Program	100
900169	Facilities Operations Manuals	147
900196	Automated Meter Reading	5,000
900202	Condition Assessment Critical Sys Links	425
900206	Water Efficiency	875
900965	New Vehicles - Drinking Water Services	20
901135	Water Distribution System Improvements	780
901183	Trim Road / St Joseph Watermains	450
902144	Water Storage Tanks & Reservoirs Rehab	88
902145	Water Facilities Rehabilitation Program	5,720
902146	Water Pumping Station Facilities Rehab	980
902149	Communal Well Systems Rehabilitation	339
902206	Ottawa South Pumping Station Upgrade	1,703
902571	Rural Servicing Strategy	79
902572	Water & Wastewater EA Studies	60
902955	Water Purification Plant Facilities Proj	750
902957	Water Treatment Equipment Upgrade Proj.	700
902958	Service Posts Rehabilitation Program	650
902959	Cathodic Protection Water System	2,100
903299	Stittsville Pumping Station	100
903407	Water System SCADA Replacement	500
904170	Proactive Lead Service Replacement Prog.	1,000
904209	Infrastructure Mgmt Applications Renewal	3,113
904498	Cave Creek Collect Flood Control Measure	2,080

City of Ottawa
Project List by Funding Source
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2010 Draft Budget

904878	Wren Rd (Swans Way-Coxford) Design	490
904879	Johnston Rd (Tapiola-215m East) Design	2,940
904973	Leitrim Supply Watermain	42
905007	Hwy 417 Coord with MTO - Lees Relocate	25
905054	Woodroffe TransMain(Hunt Club-Sportsplex	270
905427	Groundwater Management Phase 2	60
905428	Groundwater Studies	162
905511	Guidelines, Specs & Engineering Docs2010	35
905512	Scoping Pre/Post Engineering- 2010	100
905513	R-O-W/Easement Adjustments	100
905544	Trenchless Rehabilitation - Water	100
905545	Carling Ave (Schneider - March)	30
905546	Thames Str (Merivale - Dead End)	50
905547	Canotek Rd /Polytek (125 m South)	30
905550	TransMain Rehab Master Plan	50
905682	Stream Restoration Projects 2010	200
905750	Asset Management Strategy	150
905751	Water Facility Roofing	565
Sewer Capital		31,676
900228	Orleans/Cumberland Collector Flood Prot	2,710
900257	Water Env. Protec Short Term Initiatives	121
901148	Extraneous Flow Removal - CW	550
902141	Lab Equipment Purchase/Replacement	300
902571	Rural Servicing Strategy	78
902965	Wastewater Facilities Upgrades	500
903665	Protective Plumbing Program	1,200

City of Ottawa
Project List by Funding Source
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2010 Draft Budget

903791	New Vehicles - Wastewater	36
904209	Infrastructure Mgmt Applications Renewal	6,056
904498	Cave Creek Collect Flood Control Measure	4,032
904567	Orleans Flood Control Remediation	1,300
904752	Barrhaven South Oversizing	1,000
904883	UCSA Inlet Control/Floatables	26
904915	Trim Road Storm Sewer	100
904939	Wet Weather IMP - Flow Reduction	247
904940	Pollution Prevent &Control-Implement	74
904967	Wastewater Drainage Roofing 2009	225
905004	ORF-Ottawa River Quality Modelling Init.	200
905036	Quality Management System	270
905417	Infrastructure Master Plan (Sewer)	276
905418	Infrastructure Master Plan (Storm)	278
905420	Servicing Studies Development Prog 2010	70
905422	Vars Culverts	152
905424	Barrhaven S O/S North of Jock River	45
905511	Guidelines, Specs & Engineering Docs2010	70
905512	Scoping Pre/Post Engineering- 2010	200
905513	R-O-W/Easement Adjustments	200
905533	Scoping Pre/Post Drn Culverts - 2010	200
905551	Trenchless Rehabilitation-Storm Sewers	1,000
905552	Pineview Area - Surface Drainage	700
905553	West-end Flood Mitigation	4,000
905554	Joint CA/City Renewal Activities 2010	50
905555	Sawmill Creek SWM Pond	50
905556	Ditch Alts - Assess/Implement - 2010	50
905557	Inlet Control Devices - CW - 2010	400

City of Ottawa
Project List by Funding Source
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905558	Merivale Road San Local Improvement	150
905559	Trenchless Rehabilitation-San Sewers	2,000
905560	Eastern Subwatershed SWM Retrofit	225
905683	Watershed/Subwatershed Planning 2010	300
905745	Compassionate Grant Program	200
905755	Merivale Storm Sewer repair	800
905757	Monahan Constructed Wetland Rehab.	500
905762	ORAP-Monitoring & Source Control Program	260
905765	Swans Way S - San Local Improv	150
905787	ORAP-Water Environment Strategy	250
905788	ORAP-Public Education & Outreach	75
Corporate Fleet		814
905465	Lifecycle Renewal Fleet - Water Services	586
905466	Lifecycle Renewal Fleet -Wastewater Svcs	228
Debt Funding Summaries		82,036
Development Charge debt		2,563
901145	2C/2W Feedermain Link	2,448
904975	Barrhaven PS conversion to 3C	90
905423	Riverside S Community Sanitary	25
Wastewater Debt		37,848
902142	ROPEC - Effluent Declorination	5,500
904752	Barrhaven South Oversizing	100
904883	UCSA Inlet Control/Floatables	500

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904891	Hwy 417 Water TransMain - Carling Design	837
904895	Rockcliffe West Design	184
904896	Somerset W (Wellington - Booth)	427
904915	Trim Road Storm Sewer	400
904940	Pollution Prevent &Control-Implement	300
904989	Hazeldean PS Upgrade	111
905028	ORF-Combined Sewer Overflow Reduction	1,834
905510	Infrastructure Assmnt &Data Collect-2010	2,605
905515	Knoxdale Road (Woodroffe - Newhaven)	2,820
905518	Meriman - Dunvegan - Arundel	49
905520	Sewer & Water Repairs / Improvements	1,250
905521	Renewal - Sewer Access & Outfalls	250
905524	Road Resurfacing - CW - 2010	1,370
905534	Renewal-Drainage Culverts (1m-3m span)	2,500
905535	Municipal Drain Culverts(1m-3m Span)	2,590
905536	Renewal-Drainage Culverts (<=1m span)	1,300
905537	Drainage Culvrt-Site Specific Repair-2010	250
905554	Joint CA/City Renewal Activities 2010	150
905555	Sawmill Creek SWM Pond	200
905571	Intensification Studies - 2010	450
905577	Cordova/Rita (Baseline-Rita/Cordova-Indi	1,782
905578	Fourth Ave / Chrysler Ave	1,467
905579	Lafontaine / Levis / Lacasse	2,466
905581	Carling Ave (Bronson - O-Train)	288
905582	King George St. / Glynn Ave	162
905586	Main St (Echo Dr - Rideau River)	657
905592	King Edward (Besserer -Laurier)	999
905594	Harvey St /Concord St N / Havelock	50

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905756	ROPEC - Sluce Gates & Concrete Repairs	4,000
Water Debt		41,625
900505	Lemieux Island WPP Expansion	100
901135	Water Distribution System Improvements	100
901145	2C/2W Feedermain Link	12,434
902145	Water Facilities Rehabilitation Program	100
903292	Watters Road (Montcrest to Trim)	15
903299	Stittsville Pumping Station	1,400
904891	Hwy 417 Water TransMain - Carling Design	6,825
904895	Rockcliffe West Design	310
904896	Somerset W (Wellington - Booth)	1,910
904970	SUC Greenbank	160
904973	Leitrim Supply Watermain	200
904975	Barrhaven PS conversion to 3C	70
905007	Hwy 417 Coord with MTO - Lees Relocate	50
905430	Off Site Reliability Links 2010	50
905431	Tenth Line : Hydro Easement - Lakepointe	46
905432	Trim Road (Pinnacle to BHBP)	110
905510	Infrastructure Assmnt &Data Collect-2010	1,175
905518	Meriman - Dunvegan - Arundel	70
905520	Sewer & Water Repairs / Improvements	250
905524	Road Resurfacing - CW - 2010	1,050
905544	Trenchless Rehabilitation - Water	2,900
905545	Carling Ave (Schneider - March)	3,400
905546	Thames Str (Merivale - Dead End)	1,600
905547	Canotek Rd /Polytek (125 m South)	1,800

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905549	Springhurst Ave (Main-Chestnut)	90
905550	TransMain Rehab Master Plan	300
905577	Cordova/Rita (Baseline-Rita/Cordova-Indi)	910
905578	Fourth Ave / Chrysler Ave	1,170
905579	Lafontaine / Levis / Lacasse	1,250
905581	Carling Ave (Bronson - O-Train)	140
905582	King George St. / Glynn Ave	80
905586	Main St (Echo Dr - Rideau River)	330
905592	King Edward (Besserer -Laurier)	1,140
905594	Harvey St /Concord St N / Havelock	90
Development Charges Summaries		22,263
Studies		1,084
902571	Rural Servicing Strategy	68
902572	Water & Wastewater EA Studies	240
905417	Infrastructure Master Plan (Sewer)	74
905418	Infrastructure Master Plan (Storm)	72
905420	Servicing Studies Development Prog 2010	630
Sanitary Wastewater		4,622
900239	Cumberland Trunk Sewer	327
903300	Signature Ridge P. Sta. & Forcemain	500
903307	Jackson Trail Pumping Station & Forcemain	200
903791	New Vehicles - Wastewater	324
904498	Cave Creek Collect Flood Control Measure	448
904883	UCSA Inlet Control/Floatables	58

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904891	Hwy 417 Water TransMain - Carling Design	93
904895	Rockcliffe West Design	20
904896	Somerset W (Wellington - Booth)	47
904939	Wet Weather IMP - Flow Reduction	28
904940	Pollution Prevent &Control-Implement	42
904989	Hazeldean PS Upgrade	1,000
905423	Riverside S Community Sanitary	575
905424	Barrhaven S O/S North of Jock River	5
905518	Meriman - Dunvegan - Arundel	5
905560	Eastern Subwatershed SWM Retrofit	25
905571	Intensification Studies - 2010	50
905577	Cordova/Rita (Baseline-Rita/Cordova-Indi	198
905578	Fourth Ave / Chrysler Ave	163
905579	Lafontaine / Levis / Lacasse	274
905581	Carling Ave (Bronson - O-Train)	32
905582	King George St. / Glynn Ave	18
905586	Main St (Echo Dr - Rideau River)	73
905592	King Edward (Besserer -Laurier)	111
905594	Harvey St /Concord St N / Havelock	6
Storm Sewers		71
900257	Water Env. Protec Short Term Initiatives	31
905422	Vars Culverts	40
Water Services		16,486
900206	Water Efficiency	455
900505	Lemieux Island WPP Expansion	900

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900965	New Vehicles - Drinking Water Services	180
901145	2C/2W Feedermain Link	6,118
901183	Trim Road / St Joseph Watermains	3,792
902206	Ottawa South Pumping Station Upgrade	897
903292	Watters Road (Montcrest to Trim)	137
904970	SUC Greenbank	1,440
904973	Leitrim Supply Watermain	108
904975	Barrhaven PS conversion to 3C	540
905427	Groundwater Management Phase 2	440
905428	Groundwater Studies	20
905430	Off Site Reliability Links 2010	50
905431	Tenth Line : Hydro Easement - Lakepointe	416
905432	Trim Road (Pinnacle to BHBP)	993
Revenue Summaries		19,438
Federal Ottawa River Fund		5,254
904883	UCSA Inlet Control/Floatables	583
904895	Rockcliffe West Design	203
904896	Somerset W (Wellington - Booth)	473
904939	Wet Weather IMP - Flow Reduction	275
904940	Pollution Prevent &Control-Implement	417
905028	ORF-Combined Sewer Overflow Reduction	1,833
905518	Meriman - Dunvegan - Arundel	53
905560	Eastern Subwatershed SWM Retrofit	250
905592	King Edward (Besserer -Laurier)	1,110
905594	Harvey St /Concord St N / Havelock	57

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Provincial Revenue	6,900
904891 Hwy 417 Water TransMain - Carling Design	6,825
905007 Hwy 417 Coord with MTO - Lees Relocate	75
Provincial Ottawa River Fund	1,833
905028 ORF-Combined Sewer Overflow Reduction	1,833
Provincial Investing in Ontario	3,421
904883 UCSA Inlet Control/Floatables	583
904895 Rockcliffe West Design	203
904896 Somerset W (Wellington - Booth)	473
904939 Wet Weather IMP - Flow Reduction	275
904940 Pollution Prevent &Control-Implement	417
905518 Meriman - Dunvegan - Arundel	53
905560 Eastern Subwatershed SWM Retrofit	250
905592 King Edward (Besserer -Laurier)	1,110
905594 Harvey St /Concord St N / Havelock	57
General Revenue	2,030
902960 Municipal Drains Improvements &Construct	1,830
905556 Ditch Alts - Assess/Implement - 2010	100
905558 Merivale Road San Local Improvement	100
Total Funding	189,385

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Project Number & Description	Authority	Expenditures & Commitments	Unspent
900061 King Edward (Laurier - Sussex)	56,590	56,770	(180)
900448 IT Lifecycle Renewal-Telecom System-2006	2,133	2,146	(12)
900452 IT Lifecycle Renew-Computer/Peripheral06	13,618	13,657	(39)
900470 IT SmartCapital	2,231	2,202	29
900471 IT Sustain-Database &Bus. Intelligence06	1,010	1,010	-
900606 Lemieux Island Transmission	82,520	80,543	1,977
900712 Kemp Park Local Improve. (WW Component)	1,810	1,745	65
901052 IT OPL Telephone System Lifecycle-2005	700	675	25
901116 Terry Fox Ext. (Campeau-Richardson)	8,800	8,482	318
901152 Manotick Servicing System	35,350	34,389	961
901172 IT Utility Services Info. Tech. Program	126	78	48
901293 Scott Street & Spencer Street	972	908	64
902042 Watershed/Subwatershed Planning	1,843	1,552	291
902203 Stream Restoration Projects	466	452	14
903042 Maple Ln (Lisgar to Springfield)	5,675	5,464	211
903058 Rideau River Collector Twinning	10,300	10,361	(61)
903432 Sandy Hill Flood Relief	21,185	20,118	1,067
903526 Sussex (George - St Patrick) (Design)	671	441	230
903527 Bank St (Wellington - Hwy 417)	30,799	29,847	952
903528 Perth St (45mW Queen Charlotte-Shea)	7,400	7,324	76
903530 Parkdale Ave (Carling - Gladstone)	6,613	6,665	(52)
903536 Holmwood Ave (Bronson - Craig)	2,216	1,933	283
903539 Gladstone Ave (Melrose - Bayswater)	7,893	7,111	782
903546 Huntmar (Carp River Br-Old Carp Rd)	4,546	3,610	936
903628 Scoping Pre/Post Engineering for 2009	700	514	186
903807 R-O-W / Easement Adjustments 2006	155	172	(17)
903811 Infrastructure Management	1,980	1,980	(0)

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Project Number & Description	Authority	Expenditures & Commitments	Unspent
903812 Kilborn/KilbornPI/Blossom/Begonia/Dahlia	3,155	3,154	1
903816 Lanark Ave: Premier - Churchill	4,320	4,135	185
903818 Britannia Rd: Salina - Cassels	4,015	3,125	890
903819 Avon Lane: Queen Victoria - S/Keefer	2,530	1,875	655
903820 Beech St: Lynwood - Breezehill	3,945	2,428	1,517
903823 Glendale Ave: Percy - Chamberlain	2,040	77	1,963
903833 Kirkwood Av.: Carling Av - Laperriere	3,320	3,271	49
903837 Eastbourne/Farnham/Dunvegan	2,560	2,406	154
903842 Third Ave/Percy St/Second Ave	6,385	3,926	2,459
903850 Rehab/Replacement Misc Structures	5,053	5,042	11
904020 Bank Street (Riverside to Walkley)	645	652	(7)
904021 Queen Mary St/Edith Ave/Glynn Ave	7,470	6,342	1,128
904022 Preston St (Spruce to Carling)	31,070	29,360	1,710
904027 Sussex Dr (St Patrick to King Edward)	1,675	1,469	206
904028 Wellington St (Western to Parkdale)	15,210	15,584	(374)
904085 Bank Street (Rideau Canal - Third Ave)	1,823	1,728	95
904198 Full Width /Major Repairs	53	51	2
904199 Resurfacing -Various Locations	14,734	14,724	10
904207 Infrastructure Management	3,320	2,610	710
904208 Scoping Pre /Post Engineering 2008	1,550	1,427	123
904209 Infrastructure Mgmt Applications Renewal	3,140	321	2,819
904215 R-O-W / Easement Adjustments	400	115	285
904217 Churchill Ave (Carling - Scott) (Design)	1,600	1,113	487
904220 Colonel By Side St/Easements	5,055	3,621	1,434
904221 Lisgar Road/Marisposa Ave	3,575	2,028	1,547
904222 Bowen /Lloyd Graham /8th Line	902	375	527
904223 Parkside /Viewmount /Easement	6,590	6,456	134

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904224 Riddell Ave (Garfield to Carling)	5,430	3,667	1,763
904225 Fourth Ave /Percy St.	1,610	1,460	150
904226 Pleasant Park Rd /Dickens Ave	5,400	4,914	486
904228 Winding (Tradewinds -P.O.W.)	925	634	291
904229 March (Morgans Grant to Old Carp)	1,130	921	209
904230 Carling Ave (Kirkwood to Bronson)	3,325	2,594	731
904232 Harmer Ave /Kenilworth St.	2,685	2,632	53
904237 Larch /Laurel /Norfolk /Sidney /Young	1,960	1,129	831
904238 Clementine (Ohio to Apolydor)	1,000	717	283
904273 Paragon Ave: S Merivale Business Park	1,000	1,000	-
904498 Cave Creek Collect Flood Control Measure	1,205	801	404
904510 Tangible Capital Assets	1,600	1,130	470
904568 Argyle/Park/Queen Elizabeth (Design)	480	266	214
904571 Cambridge/Jackson/Frederick (Design)	300	200	100
904572 Tweedsmuir (Carling-Richmond) (Design)	400	24	376
904573 Stormont St/Apeldoorn Ave (Design)	385	53	332
904574 Echo Dr/Concord St N (Design)	285	285	0
904577 Tremblay (T'way - St Laurent) (Design)	405	235	170
904578 Triole (RR N/Belfast-Dead End) (Design)	200	133	67
904579 Pinewood (Richmond - Harwood) (Design)	205	164	41
904580 Infrastructure Management	2,900	2,052	848
904581 R-O-W / Easement Adjustments	125	106	19
904586 Full Width/Major Repairs	38	48	(10)
904587 Resurfacing - Infrastructure Project	10,515	10,476	39
904588 Resurfacing - Various Locations	11,370	11,372	(2)
904874 Resurfacing Various Locations - 2009	14,700	14,634	66
904887 Infrastructure Management	2,685	704	1,981

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904888 Scoping Pre/Post Engineering for 2010	400	384	16
904889 R-O-W/Easement Adjustments	400	37	363
904891 Hwy 417 Water TransMain - Carling Design	700	7	693
904892 Bronson (Queen-Rideau Canal) Design	2,420	1,369	1,051
904893 Rideau (Dalhousie-Rideau Riv) Design	1,065	0	1,065
904894 Sandridge (Hillsdale-Merriman) Design	250	157	93
904895 Rockcliffe West Design	425	55	370
904896 Somerset W (Wellington - Booth)	135	21	114
904897 Elgin St (Pretoria-Isabella) Design	85	-	85
904936 Selective Resurfacing	570	568	2
905107 Wellington St Ph 2 (Parkdale to Bayview)	15,100	10,873	4,227
905181 Preston St (Spruce to Albert)	4,700	3,470	1,230
905253 ISF-Tremblay - Pickering to St Laurent	4,500	3,002	1,498
905254 ISF-Stormont Street/Apeldoorn	4,000	1,104	2,896
905255 ISF-Indian Road - Rita to Meadowlands	5,000	3,107	1,893
905256 ISF-Reconst 8th Line and Lloyd Graham	2,500	2,486	14
905257 ISF-Sewers Sussex - George to St Patrick	6,000	7,522	(1,522)
905258 ISF-Pinewood - Richmond to Harwood	3,500	37	3,463
905259 ISF-Churchill - Scott to Byron	7,500	6,027	1,473
905260 ISF-Pleasant Park - Haig to Delmar	5,000	2,188	2,812
905261 ISF-Sandridge - Hillsdale to Merriman	8,000	391	7,609
905262 ISF-Triole St - Railroad to Dead End	3,000	1,651	1,349
905263 ISF-Argyle and Park Ave	5,000	2,103	2,897
905264 ISF-Cambridge Street	3,000	33	2,967
905265 ISF-Tweedsmuir - Carling to Clare	6,000	324	5,676
905752 Glen Cairn Flood Investigation	850	782	68
Integrated Roads, Water & Wastewater	606,800	527,613	79,187

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Project Number & Description	Authority	Expenditures & Commitments	Unspent
902280 Central Canada Exhibition Servicing	800	620	180
902571 Rural Servicing Strategy	1,275	834	441
903209 Merivale Gdns/Glens Servicing Study	180	142	38
903221 Service Connection Rehab Development	499	496	3
903808 Master Plan/Optimize/Feasibility Study	710	251	459
903869 Easement: Checkers - Woodroffe	645	356	289
903899 Eiffel/Claymor/Dynes/Deer/Fisher/Malibu	3,305	3,293	12
904211 Localized Network Repair /Improvement	4,500	3,877	623
904411 St Joseph Blvd (Taylor Cr Rd - Trim Rd)	1,970	122	1,848
904747 Island Park Drive Area Projects	4,380	290	4,090
904890 Juniper St (Champlain - Willow)	855	536	319
Integrated Water & Wastewater	19,119	10,816	8,303
900631 Carlington Heights Pumping Stn Expansion	2,919	131	2,788
901139 1W/2W Feedermain Link	34,230	1,623	32,607
901141 Orleans Transmission Main	350	-	350
902144 Water Storage Tanks & Reservoirs Rehab	588	22	566
902146 Water Pumping Station Facilities Rehab	1,752	500	1,252
902148 Hurdman Bridge Pumping Station Rehab	700	5	695
902149 Communal Well Systems Rehabilitation	729	304	425
902565 Well Systems Improvement Program	198	115	83
903299 Stittsville Pumping Station	2,350	667	1,683
903445 Vars Treatment Improvements	510	383	127
904172 Carp Treatment Upgrade	1,500	-	1,500
904324 Water Facilities Roofing Program 2007	185	178	7
904735 Carp Pumping Station Capacity Expansion	500	-	500
904785 Water Roofing 2008	750	750	-
904968 Water Roofing 2009	850	382	468

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904976 Infrastructure Management Support System	450	-	450
905041 Fleet Renewal - Drinking Water	1,464	1,125	339
900163 Water Facilities-Master Drawings Program	1,168	965	203
900169 Facilities Operations Manuals	699	480	219
903407 Water System SCADA Replacement	11,961	2,579	9,382
904171 Radio Replacement Program	525	-	525
904783 Infrastructure Master Plan Update	250	-	250
900165 Anthracite Filter Media Replacement Prog	909	693	216
902145 Water Facilities Rehabilitation Program	3,613	10	3,603
902939 Lemieux Island Filter Rebuilds	4,376	3,582	794
902955 Water Purification Plant Facilities Proj	3,706	2,579	1,127
902956 Lemieux Island Clearwell Repairs	8,380	6,299	2,081
902957 Water Treatment Equipment Upgrade Proj.	8,241	4,597	3,644
903403 Britannia WPP Filter Rebuilds	6,800	329	6,471
900150 Fleet St. Pumping Station - Structural R	17,069	17,040	28
900170 Billing Bridge Pumping Station Upgrade	4,382	4,007	375
903411 Rideau Canal Crossing	1,700	1,409	291
903749 Watermain Transmission Reliability Study	150	24	126
903894 Trenchless Rehabilitation - Water	1,822	1,369	453
904214 Trenchless Rehabilitation - Water	2,000	1,540	460
904259 Hwy417 Water TransMain-Cyrville Des/Cons	700	0	700
904736 Hwy 417 Water Transmission Main	700	77	623
904737 Trenchless Rehabilitation - Water	1,250	-	1,250
904878 Wren Rd (Swans Way-Coxford) Design	40	46	(6)
904879 Johnston Rd (Tapiola-215m East) Design	150	45	105
904880 Trenchless Rehabilitation - Water	3,000	2,451	549
905054 Woodroffe TransMain(Hunt Club-Sportsplex	500	137	363

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Project Number & Description	Authority	Expenditures & Commitments	Unspent
900196 Automated Meter Reading	28,510	3,575	24,935
900202 Condition Assessment Critical Sys Links	1,980	1,634	346
901135 Water Distribution System Improvements	8,381	6,475	1,906
902043 Water Loss Control Program	1,850	873	977
902958 Service Posts Rehabilitation Program	3,142	2,808	334
902959 Cathodic Protection Water System	10,046	8,901	1,145
904170 Proactive Lead Service Replacement Prog.	3,000	3,376	(376)
900183 East Urban Community Feedermain Needs	8,940	4,493	4,447
900632 Strandherd Rd F/M: Greenbank-Fallowfield	250	0	250
901138 2W/3W Pumping Station	10,875	10,830	45
901142 Barrhaven Pumping Station Expansion	350	9	341
901145 2C/2W Feedermain Link	4,278	881	3,397
901183 Trim Road / St Joseph Watermains	1,156	193	963
902206 Ottawa South Pumping Station Upgrade	990	219	771
902572 Water & Wastewater EA Studies	1,950	1,903	47
903293 Glen Cairn P. Sta. Discharge Pipe #2	1,455	-	1,455
903416 Off-site Reliability Links	793	210	583
904297 Kanata West Transmission Mains	100	1	99
904810 Leitrim South Watermain Oversizing	282	-	282
904914 Off Site Reliability Links 2009	100	-	100
904975 Barrhaven PS conversion to 3C	200	-	200
900965 New Vehicles - Drinking Water Services	3,589	2,361	1,228
900505 Lemieux Island WPP Expansion	47,360	46,667	693
901143 Britannia WPP Expansion	400	5	395
902563 Urban Watermain Upgrades	3,000	2,721	279
900206 Water Efficiency	2,350	1,365	986
900988 Drinking Water Quality Mgmt Sys Develop.	400	181	219

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Project Number & Description	Authority	Expenditures & Commitments	Unspent
904174 Water Rate Review	350	221	129
904175 Water Efficiency Retrofit Program	300	10	290
903404 Disinfection Improvements	250	-	250
900510 Waste Management	42,300	42,130	170
903122 WPP Sludge Discharge DFO Directive	360	165	195
904484 Source Water Protection	178	429	(251)
900851 Water Master Plan Update	400	279	121
902570 Water & Wastewater Strategic Planning	885	628	257
901068 Britannia WPP - Hot Water Heating System	4,505	4,462	43
902861 Navan Road Local Improvement	200	145	55
Drinking Water Services	329,570	204,595	124,975
900214 Stormwater Mgmt Fac: Rehab & Env Comply	3,103	1,757	1,346
900228 Orleans/Cumberland Collector Flood Prot	14,223	4,030	10,193
901240 McEwan - Water Quality & Erosion Control	4,733	3,986	747
901859 Sawmill Creek Constructed Wetland	12,550	12,525	25
902136 Municipal Drains Improvements	442	229	213
902357 Regulators Upgrade & Real Time Control	20,450	19,038	1,412
903010 Roof Rehabilitation Program -Wastewater	157	175	(18)
904213 Trenchless Rehabilitation - Sewers	1,650	1,653	(3)
904323 Roof Rehab. Program W.W. & Drainage 07	70	66	4
904582 Trenchless Rehabilitation - Sewers	3,000	2,990	10
904753 Leitrim Sanitary Pump Sta. Expansion	450	99	351
904784 Wastewater Drainage Roofing 2008	265	254	11
904791 Rideau River Interceptor Repairs	2,500	1,746	754
904842 Carp Watershed Audit	300	301	(1)
904967 Wastewater Drainage Roofing 2009	200	179	21
905042 Fleet Renewal - Wastewater	424	177	247

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Project Number & Description	Authority	Expenditures & Commitments	Unspent
990254 1996 Rideau River Stormwater Management	200	181	19
900257 Water Env. Protec Short Term Initiatives	2,194	2,175	19
904177 Radio Replacement Program	355	-	355
904515 SCADA Upgrade: Crit MH, Flow Mon & SWFac	3,950	3,286	664
900260 Operational Loss Control Program	983	668	315
900265 Corrosion Investigations	985	663	322
900960 SCADA Upgrade - Remote Sewer Facilities	8,120	7,997	123
902140 Wastewater Pump Station Rehab. Program	6,401	4,290	2,111
902962 Trunk Sewer Miscellaneous Rehabilitation	3,154	1,115	2,039
903428 Odour and Corrosion Control	7,662	3,581	4,081
904141 Sewer Lateral Repairs	18,662	8,971	9,691
900250 ROPEC Plant Rehabilitation & Upgrade	13,619	9,988	3,631
900442 ROPEC - Major Plant Upgrades	2,425	2,411	14
902141 Lab Equipment Purchase/Replacement	1,515	1,135	380
902965 Wastewater Facilities Upgrades	4,764	4,214	550
904910 Old Digester Decommissioning	4,200	270	3,930
905005 Rehabilitation of Digester 1 to 4	3,000	-	3,000
903418 Scoping Pre/Post Eng 2010 Dr Culv (<3m)	130	138	(8)
903701 Reactive Renewal - Dr.Culverts(<3,000mm)	190	182	8
904206 Drainage Culverts (>1000mm)	4,509	4,506	3
904739 Drainage Culverts (<3,000mm) Rehab/Repl	5,708	5,643	65
904740 Scoping Pre/Post Eng for 2009 Culverts	205	208	(3)
904873 Renewal-Drainage Culverts (1m-3m span)	600	987	(387)
904884 Renewal-Drainage Culverts (<=1m span)	900	1,056	(156)
901297 Trenchless Rehabilitation-Storm Sewers	750	749	1
903516 Trenchless Rehabilitation	3,615	3,636	(21)
903676 O'Connor Flood Relief Study	2,150	1,295	855

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In Thousands (\$000)

Project Number & Description	Authority	Expenditures & Commitments	Unspent
903895 Joint Conserv.Act./City Activities 2006	50	50	0
904216 Joint CA /City Renewal	50	-	50
904470 Britannia Village-OttRiver Flood Protect	470	105	365
904567 Orleans Flood Control Remediation	3,500	3,057	443
904741 Joint CA/City Renewal Activities	300	-	300
904742 Inlet Control Devices - City Wide	500	-	500
904881 Joint CA/City Renewal Activities 2009	200	18	182
904882 Ditch Alterations - Assess/Implement	150	69	81
990006 2000 Sewer Upgrade Program	1,514	1,503	12
900221 Munster Lagoons Rehabilitation	15,599	15,373	227
901148 Extraneous Flow Removal - CW	3,185	2,032	1,153
902139 Sanitary Sewer Trunk Rehabilitation	1,700	1,595	105
902235 Brown's Inlet Area ICD Installations	1,100	1,074	26
902356 Flow Monitoring Program	4,745	2,031	2,714
902580 Scoping Pre/Post Engineering - Innes	1,350	1,017	333
903898 Trenchless Rehabilitation - Sanitary	1,550	1,552	(2)
903900 Old Riverside: Hincks to Transitway	1,200	573	627
904745 Sewer Access Structure Rehabilitation	6,000	1,984	4,016
904883 UCSA Inlet Control/Floatables	1,800	235	1,565
904885 Trenchless Rehabilitation-San Sewers	1,750	781	969
904886 Rideau Glen San Sewer-Local Improvement	1,125	126	999
904939 Wet Weather IMP - Flow Reduction	500	186	314
904940 Pollution Prevent &Control-Implement	750	107	643
905028 ORF-Combined Sewer Overflow Reduction	2,000	758	1,242
905004 ORF-Ottawa River Quality Modelling Init.	272	266	6
905053 ORF-Critical Outfall Monitor Initiative	5,000	553	4,447
905060 ORF-Regulators Upgrade&Real Time Control	9,928	9,009	919

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900217 Leitrim Pumping Station, Forcemain & Gr	6,110	5,988	122
900220 Forest Valley Pumping Station, Fmain &	6,000	5,518	482
900225 Jock River Collector	450	26	424
900233 West Rideau Collector Sewer Extension	12,647	11,568	1,079
900239 Cumberland Trunk Sewer	8,510	8,009	501
900823 Stormwater Facilities in Parks	728	277	451
901153 Stormwater Mgmt. Fac.-Cumb/Taylor	1,566	1,321	245
902195 Taylor Creek Erosion Works Phase 1 & 2	904	643	261
902199 Forest Valley Pumping Station System	1,500	1,407	93
902200 Servicing Studies Development Program	2,622	1,787	835
903061 BCIP Trunk Sewer	5,100	2,185	2,915
903223 Cardinal Creek Erosion Monitor	1,073	47	1,026
903229 Foster & Kennedy Burnett SWMF EA'S	700	653	47
903250 Storm Water Pond - Monahan Drain	6,361	29	6,333
903252 Sanitary Sewer Oversizing Program	1,816	541	1,275
903300 Signature Ridge P. Sta. & Forcemain	791	2	789
903307 Jackson Trail Pumping Station &Forcemain	3,600	3,415	185
903342 Storm Water Pond-Channelization Area E-6	14,122	8	14,114
903343 Area E-8 Osgoode (Greely)Erosion Control	361	-	361
903965 Bilberry Creek Indust Gravity Outlet Ph2	5,304	5,273	31
903791 New Vehicles - Wastewater	1,085	911	174
900987 ROPEC - Plant Expansion	650	356	294
903095 ROPEC Plant Digester Expansion	73,850	70,662	3,188
900218 West Growth Area Sewer System Upgrade	11,458	11,375	83
900240 North Kanata Sewer	8,710	7,601	1,109
902142 ROPEC - Effluent Declorination	2,190	558	1,632
902960 Municipal Drains Improvements &Construct	1,970	1,501	469

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Project Number & Description	Authority	Expenditures & Commitments	Unspent
903665 Protective Plumbing Program	3,015	3,468	(453)
904176 Sewer Rate Review	350	316	34
905036 Quality Management System	150	132	18
900224 River Ridge Trunk Sewer	2,947	2,870	77
900256 Infrastructure Master Planning	1,857	1,640	216
900421 ROPEC Biosolids Mgmt Plan Initiatives	1,570	816	754
900985 Stormwater Master Plan	1,200	1,177	23
902355 Wastewater Pumping Station Reliability	1,850	1,754	96
900259 Sewer Use Program: Short Term Initiative	733	652	81
900972 ROPEC Biosolids Processing	795	282	513
903670 Sandy Hill Community Initiative	35	30	5
902569 Page Rd Local Improve. Sanitary Sewer	525	415	110
Wastewater Services	426,955	317,817	109,139
Total	1,382,445	1,060,841	321,604

