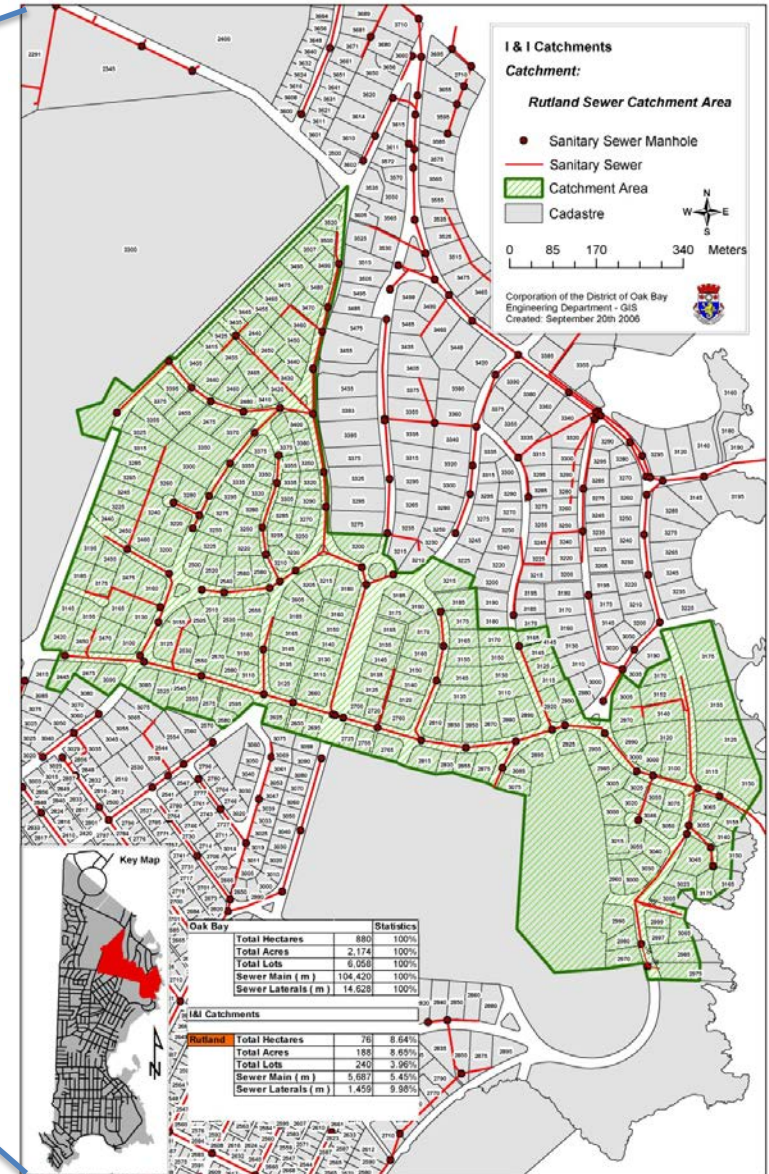




CALWM Plan Amendment 12: Combined Sewers & Sewer Rehabilitation in Oak Bay

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Background

- Project Aims:
 - Comply with Municipal Wastewater Regulation & Ministry of the Environment & Climate Change direction to Oak Bay (eliminate combined sewer overflows)
 - Address Inflow & Infiltration issues (outlined in CALWM Plan)
- Significant outreach and engagement (2014-2016) completed
- Project Options Analysis
 - Triple Bottom Line (Environmental, Social, Financial) approach



Decisions

- Oak Bay Council:
 - Directed new storm drain system as means to separate combined sewers (October 2016)
- CRD Board:
 - Endorsed amendment 12 of the CALWM Plan, capturing Oak Bay's updated plans (December 2016)



Project Update

- Received Clean Water Wastewater Fund grant of ~\$324,000 (March 2017)
 - Detailed design for the Humber Catchment
- Completed detailed design of Humber Catchment (Summer 2018)
 - Humber Catchment shelf-ready for construction
- Received conditional approval of CALWM Plan Amendment 12 (June 2018)
- Submitted grant application
 - Investing in Canada Infrastructure Program – Green Infrastructure for Construction of Humber Catchment (August 2018)

CALWM Plan Table 5.5 (Oak Bay)

Item No.	Work name	Description	Estimated Year of Completion	Estimated Cost (\$2016) to Complete
1	Uplands Sewer Separation Humber Catchment	Construction of new storm sewer	2027	\$5,285,000
2.	Uplands Sewer Separation Rutland Catchment	Construction of a new storm sewer	2047	\$9,815,000
3	Oak Bay I&I Rehabilitation Projects	Continue with phased rehabilitation projects in various catchments	Annual	\$500,000
4	CCTV Inspection	Video inspection of sewer mains	2025	\$80,000 annually
5	Sewer system maintenance	Maintenance to keep sewers clean and free of defects	Annual	\$240,000

Ministry seeking cost-benefit analysis around timelines

Ministry seeking further detail on rehab program for existing Uplands combined sewer



Other Related Activities

- Asset Management Policy & Strategy endorsed by Council (March 2018)
 - Program management approach to delivering on infrastructure asset management aims
 - Highlights:
 - accelerated sewer condition assessment program, aim to complete sanitary sewer master plan (and capital improvement plan) in 2020/2021
 - Increased savings to reserves in 2018 and 2019 to start bridging infrastructure renewal funding gap
 - Increased capital funding in 2018 and 2019 for sewer/storm/water system rehabilitation
 - Long term financial sustainability plan to be completed 2019-2020



Next Steps

- District intent (re: Uplands Sewer Separation)
 - Construct as quickly as budgets will allow
 - Seek funding from senior levels of government
 - Address inflow & infiltration (I&I) issues concurrently, including rehabilitation of existing pipe, as part of broader sewer asset management program
- New Ministry requirements (specific to Oak Bay), by December 31, 2019:
 - Cost-benefit analysis of timelines for Combined Sewer Separation
 - Plan with timeline around rehabilitation of existing combined sewer



Questions?