Appendix B - Municipal Finance Authority of BC
Select Project Expanded Detail

Environmental & Social Objectives		Borrowing Purpose and Project Description				UN SDG Mapping	
Primary	Secondary					Primary	Secondary
Affordable Basic Infrastructure Access to Essential Services	Sustainable Water & Wastewater	**Storm & Wastewater Treatment & Management**	**$**	**204,631,077**	**49.31%**	UN SDG 9 - Build Resilient Infrastructure UN SDG 11 - Sustainable Cities & Communities	06 - Clean Water & Sanitation
		Iona Island wastewater treatment plant	$	90,278,416	21.75%		
		Northwest Langley wastewater treatment plant	$	64,197,985	15.47%		
		North Shore wastewater treatment plant	$	50,154,676	12.09%		

Iona Island wastewater treatment plant — $ 90,278,416 — 21.75%

The Iona Island Wastewater Treatment Plant, built in 1963, is being upgraded. The existing plant processes ~200 billion litres of wastewater annually, and serves approximately 750,000 residents in Vancouver, parts of Burnaby and Richmond, the University Endowment Lands, and UBC.
The upgraded plant, to be operational in 2035, and complementary ecological projects are in the early works and preliminary design phase, with work to prepare the site underway. The upgrades are being designed to provide:
- Tertiary wastewater treatment to improve the treated wastewater quality being discharged to the Salish Sea
- Ecological restoration projects to restore Iona Beach Regional Park's diverse and sensitive ecosystems, build climate resilience, increase park visitor connection to nature, and create integration between the wastewater treatment plant and Park
- Resource recovery opportunities to help support the region's carbon neutrality objectives, by recovering important resources such as reclaimed water for non-potable uses, and biogas captured and used at the plant to generate heat for operations as well as supply for renewable natural gas to the Fortis BC natural gas distribution system
- Extensive ground improvements to protect the plant from earthquake events and account for future sea level rise this century

Northwest Langley wastewater treatment plant — $ 64,197,985 — 15.47%

The Northwest Langley Wastewater Treatment Plant, which currently serves 30,000 people, is being expanded to serve over 280,000 people, including residences and businesses in the Township of Langley, Maple Ridge, Pitt Meadows and North Surrey. Planning and design for this project began in 2018, with the plant's expansion scheduled for completion by 2030.

The improvements are being done to:
- Meet the needs of the region's growing population
- Help prevent untreated wastewater back-ups and overflows
- Strengthen the plant to ensure it will continue to operate in the event of an earthquake
- Adapt to sea level rise from climate change
- Reduce treatment plant water and energy use
- Treat wastewater beyond the levels set by provincial and federal regulations using tertiary treatment methods

North Shore wastewater treatment plant — $ 50,154,676 — 12.09%

Metro Vancouver is building the North Shore Wastewater Treatment Plant, a new treatment facility that will provide tertiary filtration to better protect the environment and meet the needs of a growing region. The new plant will serve over 300,000 residents and businesses in the Districts of North and West Vancouver, the City of North Vancouver, and Sḵwx̱wú7mesh Úxwumixw (Squamish Nation), and səlilwətaɬ (Tsleil-Waututh Nation). It will replace the existing Lions Gate Wastewater Treatment Plant on the North Shore, one of the last plants on the west coast of North America to provide only primary level wastewater treatment.

The new plant will:
- Provide tertiary filtration to improve the quality of the treated wastewater released into the Burrard Inlet
- Feature a modern, enclosed design and robust odour control system
- Add treatment capacity needed to serve a growing population
- Meet the latest earthquake standards and be resilient to future sea level rise
- Recover heat for use by the Lonsdale Energy Corporation as an alternative energy source
- Be constructed to Leadership in Energy and Environmental Design (LEED) Gold and ENVISION Gold certification standards
- Include a public plaza, education and community meeting spaces

Disclaimer: Information provided above has been pulled for investor convenience from publicly available sources primarily **https://metrovancouver.org.**