

# Overview of our wastewater network

## Wastewater overflows

occur when wastewater spills out from gully traps, manholes, engineered overflow points or pump stations. There are three types:

Two: Engineered overflow points

One: Pump stations

Three: Points in the network, such as manholes

**Stormwater** is collected into a public stormwater network. This is managed by Auckland Council.

Households

Businesses

**528 pump stations**

These are buildings with machinery for pumping wastewater from one place to another.

**170,227 manholes**

These are holes in the ground, covered by a lid, that provide entry to the wastewater network.

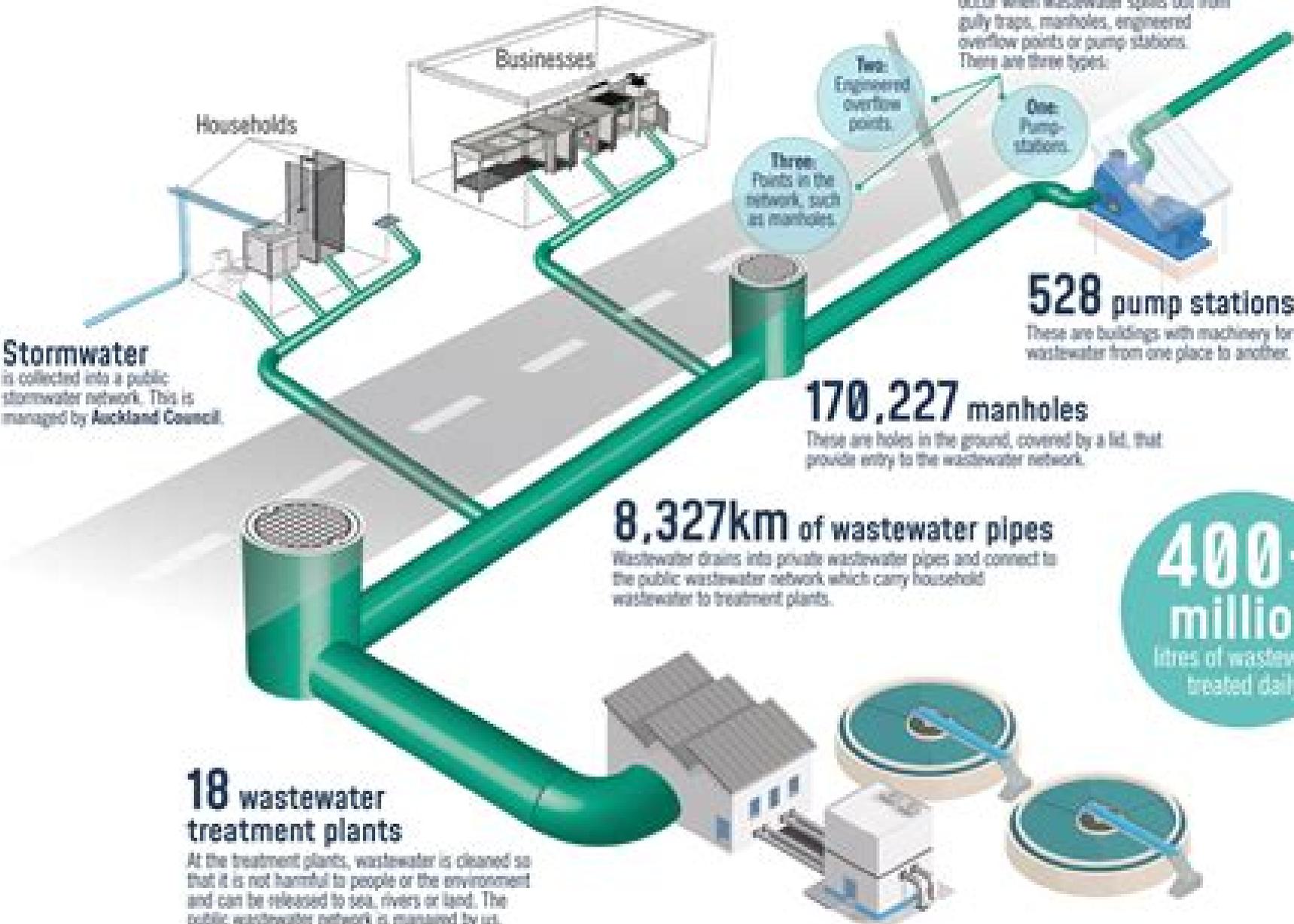
**8,327km of wastewater pipes**

Wastewater drains into private wastewater pipes and connect to the public wastewater network which carry household wastewater to treatment plants.

**400+**  
**million**  
litres of wastewater treated daily

**18 wastewater treatment plants**

At the treatment plants, wastewater is cleaned so that it is not harmful to people or the environment and can be released to sea, rivers or land. The public wastewater network is managed by us.



# An Introduction To Wastewater Management

**J. Paul Guyer**



## **An Introduction To Wastewater Management:**

Introduction to Wastewater Treatment Processes Bruce Jefferson, Simon Parsons, Elise Cartmell, 2012-01-06 Effective collection treatment and disposal of waste water is essential to the adequate functioning of any society This title illustrates the link between waste water type and quality and treatment process selection and performance

**An Introduction to Wastewater Treatment** Tom Rae, Chartered Institution of Water and Environmental Management, 1998

*Introduction to Wastewater Treatment Processes* R Ramalho, 2012-12-02 Introduction to Wastewater Treatment Processes considers various types of wastewater problems and the selection of proper mode of treatment as well as the design of the equipment required This book is divided into eight chapters and begins with a summary of the theory involved in the specific process such as chemical kinetics and material and energy balances The next chapter deals with the physical and chemical principles of wastewater treatment processes These topics are followed by discussions of the important design parameters involved in the process and the determination of such parameters using laboratory scale or pilot plant equipment Other chapters explore the development of a systematic design procedure for the treatment plant The final chapters look into the mathematical modeling of biological treatment processes This book will prove useful to practicing engineers and students

An Introduction to Water and Wastewater Engineering J. Paul Guyer, P.E., R.A., 2017-12-20 Introductory technical guidance for civil and environmental engineers and other professional engineers and construction managers interested in domestic water treatment and wastewater collection and treatment Here is what is discussed

- 1 ACTIVATED SLUDGE WASTEWATER TREATMENT PLANTS
- 2 ADVANCED WASTEWATER TREATMENT
- 3 AREA DRAINAGE SYSTEMS
- 4 DOMESTIC WASTEWATER TREATMENT
- 5 DOMESTIC WATER DISTRIBUTION
- 6 DOMESTIC WATER TREATMENT
- 7 HYDRAULIC DESIGN DATA FOR CULVERTS
- 8 HYDRAULIC DESIGN OF SEWERS
- 9 LOW IMPACT DEVELOPMENT
- 10 OILY WASTEWATER COLLECTION AND TREATMENT
- 11 DRAINAGE PIPE STRENGTH COVER AND BEDDING
- 12 PRELIMINARY WASTEWATER TREATMENT
- 13 PRIMARY WASTEWATER TREATMENT
- 14 PUMPING STATIONS FOR WATER SUPPLY SYSTEMS
- 15 SLUDGE HANDLING TREATMENT AND DISPOSAL
- 16 SMALL FLOW WASTE TREATMENT SYSTEMS
- 17 TREATED WATER STORAGE
- 18 WASTEWATER COLLECTION AND PUMPING

*An Introduction to Wastewater Treatment Instrumentation and Control* J Paul Guyer, 2021-05-04 Introductory technical guidance for civil engineers environmental engineers construction managers and wastewater treatment plant operators interested in instrumentation and control of wastewater treatment plants Here is what is discussed

- 1 INTRODUCTION
- 2 INSTRUMENTS
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**Introduction to Wastewater Treatment Processes**, 2009

**An Introduction to Wastewater Treatment Operations and Maintenance for Professional Engineers** J Paul Guyer, 2025-09-02 Introductory technical guidance for Professional Engineers and plant operators interested in operation and maintenance of wastewater treatment plants Here is what is discussed

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TREATMENT 6 ODOR CONTROL 7 COLD WEATHER OPERATIONS 8 WET WEATHER FLOW OPERATION 9 UTILITIES 10 SEPTIC SYSTEMS GREASE TRAPS AND OIL WATER SEPARATORS **An Introduction to Wastewater Systems** J.

Guyer,2015-05-15 This publication provides over 450 pages of rock solid technical guidance for professional engineers and construction managers engaged in the design and construction of wastewater systems Here are the topics covered 1 ACTIVATED SLUDGE WASTEWATER TREATMENT PLANTS 2 ADVANCED WASTEWATER TREATMENT 3 DOMESTIC WASTEWATER TREATMENT 4 HYDRAULIC DESIGN OF SEWERS 5 OILY WASTEWATER COLLECTION AND TREATMENT 6 DRAINAGE PIPE STRENGTH COVER AND BEDDING 7 PRELIMINARY WASTEWATER TREATMENT 8 PRIMARY WASTEWATER TREATMENT 9 SLUDGE HANDLING TREATMENT AND DISPOSAL 10 SMALL FLOW WASTE TREATMENT SYSTEMS 11 WASTEWATER COLLECTION AND PUMPING 12 WASTEWATER COLLECTION AND TREATMENT IN COLD REGIONS Do not mistake this publication for a college textbook this is the highest quality technical guidance available for professional engineers and construction managers **An Introduction to Wastewater Treatment Solids Management for Professional Engineers** J Paul Guyer,2025-08-11

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**Introduction to Wastewater Treatment Processes** R. S. Ramalho,2013-10-22 Introduction to Wastewater Treatment Processes Second Edition presents the principles of chemical kinetics reactor design and the mechanism of biological treatment processes This book provides the numerical applications that illustrate the treatment of laboratory data Organized into eight chapters this edition begins with an overview of the engineering design of process plants for treatment of wastewaters of industrial or domestic origin This text then examines the various empirical methods for evaluation of concentration of contaminants in wastewaters Other chapters consider the various types of primary treatment of wastewater including sedimentation screening flotation and neutralization and equalization This book discusses as well the stationary film theory applied to the case of oxygen transfer The final chapter deals with tertiary or advanced wastewater treatment which consists of processes designed to achieve higher effluent quality than conventional secondary treatment This book is a valuable resource for practicing engineers and students who are interested in the field of wastewater treatment **An**

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Haghi,2025-11-09 Wastewater treatment is a process that involves the extraction of pollutants removal of coarse particles and elimination of toxicants from wastewater with minimum impact on the environment This book introduces the basic concepts of wastewater treatment and outlines the steps and techniques involved in bringing the wastewater to the required quality standard along with resource recovery The book is intended for students and professionals who have some knowledge of such concepts as environmental chemistry and fluid mechanics and offers information on wastewater treatment technologies practical strategies and relevant examples to gaining basic understanding of the process *An Introduction to Wastewater Treatment Plant Operation and Maintenance for Professional Engineers* J. Paul Guyer, P.E., R.A.,2023-02-16

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