

# An Introduction to Wastewater Collection and Treatment in Cold Regions

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Paul Guyer is a registered civil engineer, mechanical engineer, fire protection engineer, and architect with over 35 years experience in the design of buildings and related infrastructure. For an additional 9 years he was a principal advisor to the California Legislature on infrastructure and capital outlay issues. He is a graduate of Stanford University and has held numerous national, state and local offices with the American Society of Civil Engineers, Architectural Engineering Institute and National Society of Professional Engineers.

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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 36 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. This publication will introduce you to the unique aspects of design and construction of wastewater collection and treatment systems in the cold regions. In addition to gravity collection systems, some detail is included on the use of pressure and vacuum sewers since the flat terrain and permafrost make it difficult to design a conventional gravity sewer system in the Arctic. Wastewater characteristics for treatment purposes in the cold regions will generally be different from those in temperate regions, with respect to quantity, quality, and temperature. The total quantity of wastewater discharged at installations in cold regions tends to be very close to the quantity supplied for potable water use since there is little external or industrial use, storm water is usually excluded, and groundwater infiltration is not a factor in the newer insulated and tightly sealed pipe systems. As a result wastewater in the Arctic and Subarctic tends to be more domestic in nature and higher in strength than at comparable facilities elsewhere. This item ships from La Vergne, TN. Paperback.

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