Record Nr. UNINA9910826489103321 **Titolo** N2O and CH4 emission from wastewater collection and treatment systems / / edited by Jeff Foley [and eight others] Pubbl/distr/stampa London, [England]:,: IWA Publishing,, 2015 ©2015 **ISBN** 1-78040-734-3 Descrizione fisica 1 online resource (288 p.) Collana **GWRC Report Series** 628.24 Disciplina Soggetti Sewerage - Corrosion Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. ""Cover""; ""Copyright""; ""Contents""; ""About the GWRC""; ""Preface""; Nota di contenuto ""Acknowledgement""; ""Authors""; ""Contributors""; ""Summary""; ""Part I: State of the Science Report"; ""Chapter 1: Introduction""; ""1.1 Background""; ""1.2 Objectives""; ""1.3 Boundaries Report""; ""1.4 Outline Report""; ""Chapter 2: Current state of knowledge""; ""2.1 N2O Formation""; ""2.2 CH4 Emission""; ""2.3 Emission Factors""; ""2.3.1 Nitrous Oxide (N2O)""; ""2.3.2 Methane (CH4)""; ""Chapter 3: Regulations around greenhouse gas emissions""; ""Chapter 4: Methodology""; ""4.1 Field Sampling Sites N2O"" ""4.2 Sample Collection and Analysis N2O"""4.2.1 Sample collection""; ""4.2.2 Concentration""; ""4.2.3 Gas flow""; ""4.2.4 Additional data""; ""4.2.5 Quality control""; ""4.2.6 Calculations""; ""4.3 Field Sampling Sites CH4""; ""4.3.1 Sewers""; ""4.3.2 WWTPs""; ""4.4 Sample Collection and Analysis CH4""; ""4.4.1 Liquid phase sample collection from sewers and analysis (Australia)"": ""4.4.2 Sample collection and analysis gas phase sewers (USA)""; ""4.4.3 Sample collection and analysis at WWTP""; ""4.5 Mitigation Strategies Sewers""; ""4.5.1 pH elevation""; ""4.5.2 Nitrite addition"" ""4.5.3 Iron salt addition""""4.6 Total Carbon Footprint WWTP""; ""Chapter 5: Results""; ""5.1 N2O Emission from WWTPs""; ""5.1.1 Emission of N2O""; ""5.1.2 Origin of N2O emission""; ""5.1.3 Process parameters of influence""; ""5.2 CH4 Emission from Sewers""; ""5.2.1

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