1. Record Nr. UNINA9910453713803321 Titolo Methane evolution from wastewater conveyance / / by John Willis [and five others] Pubbl/distr/stampa Alexandria, VA:,: Water Environment Research Foundation,, 2012 Descrizione fisica 1 online resource (194 p.) Altri autori (Persone) WillisJohn Soggetti Methane - Environmental aspects Sewage disposal plants Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "Climate change, final report"--Cover. "U2R08a." Includes bibliographical references. Nota di bibliografia ""Cover""; ""Copyright""; ""Table of Contents""; ""Acknowledgments""; Nota di contenuto ""Abstract and Benefits""; ""List of Tables""; ""List of Figures""; ""List of Acronyms""; ""Executive Summary""; ""Chapter 1.0: Introduction""; ""Chapter 2.0: DeKalb County's Collection System""; ""2.1 DeKalb County and Drainage Basins""; ""2.2 Pumping Stations in the County""; ""Chapter 3.0: Phase 1- Instantaneous Methane (CH4) Readings from Pumping Stations""; ""3.1 Methodology and Sampling Scheme""; ""3.1.1 Equipment""; ""3.1.2 Field Teams""; ""3.1.3 Sampling Scheme""; ""3.2 Calculation Methodology and Results"" ""3.2.1 Field Data"""3.2.2 Calculation Methodology""; ""3.3 Discussion and Observations from Phase 1""; ""3.4 Comments on Limitations and Sensitivities of the Phase 1 Study""; ""Chapter 4.0: Phase 2 - Diurnal Monitoring of CH4 from Honey Creek Pumping Station and Stone Mountain Park Lift Station""; ""4.1 Background""; ""4.2 Diurnal CH4 Monitoring Methodology and Sampling Scheme""; ""4.2.1 Equipment""; ""4.3 Diurnal Monitoring at Stone Mountain Park Lift Station""; ""4.3.1 Introduction and Background""; ""4.3.2 Equipment Setup and Sampling Methodology"" ""4.3.3 Monitoring and Data Collection"""4.3.4 Observations and Discussion""; ""4.3.5 Observations from the Ventilation Rate Study"";

""4.4 Honey Creek Pumping Station""; ""4.4.1 Background""; ""4.4.2

Equipment Setup and Sampling Procedures""; ""4.4.3 Data Collection and Observations""; ""4.4.4 Force Main Modeling and Modeling Outcomes""; ""4.4.5 Extrapolation of Honey Creek Emissions""; ""4.5 Summary of Results, Discussions, and Context for Relative Significance""; ""Chapter 5.0: Comments on Limits and Sensitivities and Conclusions""; ""Appendix A: Field Data Collection Form""
""Appendix B: Conversion from CH4 ppm to lb/gal"""Appendix C: Calculation to Estimate Annual CH4 Emissions Using Wetwell Breathing Cycle Method""; ""Appendix D: Calculations for CH4 Emissions Estimates at the Lower Crooked Creek Pumping Station 1 (LCC PS-I)""; ""Appendix E: Stone Mountain Park Lift Station Capacity Analysis""; ""Appendix F: Analytical Procedures for Dissolved CH4 and VFA Samples""; ""Appendix G: Additional Data and Charts from Phase 1""; ""Appendix H: Additional Data and Charts from Phase 2""; ""Appendix I: Force Main Model Report from A WMC""; ""References""