

INTRODUCTION

SELECTING THE SAMPLING STRATEGY

- Plant performance
- Seasonal variations in emissions
- Sampling objective

PLANT ASSESSMENT AND DATA COLLECTION

- Preparation of a sampling campaign
- Sample identification and data sheet
- Factors that can limit the validity of the results
- Practical advice for analytical measurements
- General methodology for sampling
- Sampling in the framework of the off-gas measurements
- Testing and measurements protocol

EMISSION MEASUREMENTS

N₂O MEASUREMENT IN OPEN TANKS

- Protocol for measuring the surface flux of N₂O

MEASUREMENT OF OFF-GAS FLOW IN OPEN TANKS

- Protocol for aerated or aerobic zone
- Protocol for non-aerated zones

AQUEOUS N₂O and CH₄ CONCENTRATION DETERMINATION

- Measurement protocol for dissolved N₂O measurement using polarographic electrodes
- Measurement protocol for dissolved gasses using gas chromatography
- Measurement protocol for dissolved gas measurement by the salting-out method
- Measurement protocol for dissolved gas measurement by the stripping method

DATA ANALYSIS AND PROCESSING

- Determination of fluxes
- Determination of aggregated emission fractions
- Calculation of the emission factors