

Optimization of Hydrogen and Methane Production with a Two-Stage Anaerobic Co-Digestion of Skim Latex Serum (SLS) and Palm Oil Mill Effluents (POME) under Thermophilic Condition

Batta Kullachat Sama

A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Science in Applied Chemistry Prince of Songkla University 2015 Copyright of Prince of Songkla University



Optimization of Hydrogen and Methane Production with a Two-Stage Anaerobic Co-Digestion of Skim Latex Serum (SLS) and Palm Oil Mill Effluents (POME) under **Thermophilic Condition** man of songland unit of songland Battering Kullachat Sama

A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Science in Applied Chemistry **Prince of Songkla University** 2015 **Copyright of Prince of Songkla University**

Thesis Title	Optimization of Hydrogen and Methane Production with	
	a Two-Stage Anaerobic Co-Digestion of Skim Latex Serum	
	(SLS) and Palm Oil Mill Effluents (POME) under	
	Thermophilic Condition	
Author	Mr.Kullachat Sama	
Major Program	Applied Chemistry	

Major Advisor :	Examining Committee :
	Chairperson
(Dr.Prawit Kongjan)	(Asst.Prof.Dr.Wilairat Cheewasedtham)
Co-advisor :	Committee
CONST CONST	(Dr.Prawit Kongjan)
Co-advisor :	Committee
(Dr.Rattana Jariyaboon)	(Dr.Rattana Jariyaboon)
	Committee
	(Dr.Somrak Panphon)
	(Dr.Sonnak Tanphon)
	Committee
	(Asst.Prof.Dr.Sompong O-Thong)

The Graduate School, Prince of Songkla University, has approved this thesis as partial fulfillment of the requirements for the Master of Science Degree in Applied Chemistry.

(Assoc.Prof.Dr.Teerapol Srichana) Dean of Graduate School This is to certify that the work here submitted is the result of the candidate's own investigations. Due acknowledgement has been made of any assistance received.

..... Signature

(Dr.Prawit Kongjan) Major Advisor

..... Signature

Mr.Kullac Candi Battanti Candi Battanti (Mr.Kullachat Sama)

Candidate

I hereby certify that this work has not been accepted in substance for any degree, and is not being currently submitted in candidature for any degree.

..... Signature

(Mr.Kullachat Sama) Candidate