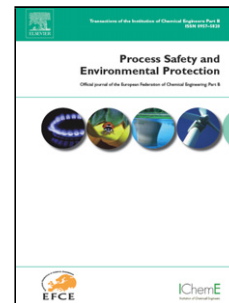


Accepted Manuscript

Title: The feasibility of recovering oil from contaminated soil at petroleum oil spill site using a subcritical water extraction technology

Authors: Mohammad Nazrul Islam, Sun-Kook Jung, Ho-Young Jung, Jeong-Hun Park



PII: S0957-5820(17)30196-9
DOI: <http://dx.doi.org/doi:10.1016/j.psep.2017.06.015>
Reference: PSEP 1096

To appear in: *Process Safety and Environment Protection*

Received date: 18-8-2015
Revised date: 4-5-2017
Accepted date: 19-6-2017

Please cite this article as: Islam, Mohammad Nazrul, Jung, Sun-Kook, Jung, Ho-Young, Park, Jeong-Hun, The feasibility of recovering oil from contaminated soil at petroleum oil spill site using a subcritical water extraction technology. *Process Safety and Environment Protection* <http://dx.doi.org/10.1016/j.psep.2017.06.015>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

The feasibility of recovering oil from contaminated soil at petroleum oil spill site using a subcritical water extraction technology

Mohammad Nazrul Islam¹, Sun-Kook Jung², Ho-Young Jung¹, Jeong-Hun Park^{1*}

¹ Department of Environment and Energy Engineering, Chonnam National University, Gwangju 500-757, Republic of Korea

² ENPlus Corp., Hakdong Yeosu 555-010 Chonnam, Republic of Korea

Corresponding author

Dr. Jeong-Hun Park

Department of Environment and Energy Engineering, Chonnam National University, Gong 3A-208, Gwangju 500-757, Republic of Korea

E-mail: parkjeol@jnu.ac.kr

Tel: +82-62-530-1855, Fax: +82-62-530-1859

Highlights

- Subcritical water was used to remove and recover oil from contaminated soil
- Performance of subcritical water extraction at 260 °C in the removal of TPH was 86%
- Another promising result was the oil recycling rate of 39%
- Subcritical water extraction process recovered worth quality oil
- This technique is useful for both oil recovery and solid disposal approaches

Download English Version:

<https://daneshyari.com/en/article/4980639>

Download Persian Version:

<https://daneshyari.com/article/4980639>

[Daneshyari.com](https://daneshyari.com)