Accepted Manuscript

Title: Physical and Chemical Treatments for Removal of

Perchlorate from Water—A Review

Authors: Yanhua Xie, Lulu Ren, Xueqian Zhu, Xi Gou, Siyu

Chen

PII: S0957-5820(18)30041-7

DOI: https://doi.org/10.1016/j.psep.2018.02.009

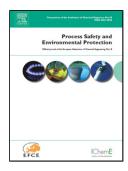
Reference: PSEP 1295

To appear in: Process Safety and Environment Protection

Received date: 17-12-2017 Revised date: 3-2-2018 Accepted date: 11-2-2018

Please cite this article as: Xie, Yanhua, Ren, Lulu, Zhu, Xueqian, Gou, Xi, Chen, Siyu, Physical and Chemical Treatments for Removal of Perchlorate from Water—A Review.Process Safety and Environment Protection https://doi.org/10.1016/j.psep.2018.02.009

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.



Physical Chemical **Treatments** Removal and for of

Perchlorate from Water—A Review

Yanhua Xie^{a,b,*}, Lulu Ren^{a,b}, Xueqian Zhu^{a,b}, Xi Gou^{a,b} and Siyu Chen^{a,b}

a: State Key Laboratory of Geohazard Prevention and Geoenvironment Protection,

Chengdu University of Technology, Chengdu 610059, China;

b: State Environmental Protection Key Laboratory of Synergetic Control and Joint

Remediation for Soil & Water Pollution, Chengdu University of Technology,

Chengdu 610059, China.

* Corresponding author: Yanhua Xie, College of Environment, Chengdu University of

Technology, Chengdu, 610059, China

Tel: +86 15928561958; Fax: +86 15928561958

E-mail: xieyanhua10@cdut.cn.

Highlights

The key findings of physical and chemical treatments for perchlorate removal are

systematically summarized in tables.

The key findings, mechanisms, influencing factors, advantages and disadvantages

of recent researches are elaborated.

The coated nanoscale zero-valent iron is superior for treating high-concentration

perchlorate.

1

Download English Version:

https://daneshyari.com/en/article/6973988

Download Persian Version:

https://daneshyari.com/article/6973988

<u>Daneshyari.com</u>