Accepted Manuscript

Abrupt permafrost collapse enhances organic carbon, CO2, nutrient and metal release into surface waters



Sergey V. Loiko, Oleg S. Pokrovsky, Tatiana V. Raudina, Artyom Lim, Larisa G. Kolesnichenko, Liudmila S. Shirokova, Sergey N. Vorobyev, Sergey N. Kirpotin

PII:	S0009-2541(17)30548-X
DOI:	doi:10.1016/j.chemgeo.2017.10.002
Reference:	CHEMGE 18491
To appear in:	Chemical Geology
Received date:	5 June 2017
Revised date:	22 September 2017
Accepted date:	2 October 2017

Please cite this article as: Sergey V. Loiko, Oleg S. Pokrovsky, Tatiana V. Raudina, Artyom Lim, Larisa G. Kolesnichenko, Liudmila S. Shirokova, Sergey N. Vorobyev, Sergey N. Kirpotin , Abrupt permafrost collapse enhances organic carbon, CO2, nutrient and metal release into surface waters. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Chemge(2017), doi:10.1016/j.chemgeo.2017.10.002

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.

ACCEPTED MANUSCRIPT

Abrupt permafrost collapse enhances organic carbon, CO₂, nutrient and metal release into surface waters

Sergey V. Loiko¹, Oleg S. Pokrovsky^{2*}, Tatiana V. Raudina¹, Artyom Lim¹, Larisa G. Kolesnichenko¹, Liudmila S. Shirokova^{2,3}, Sergey N. Vorobyev¹, Sergey N. Kirpotin¹

 ¹ BIO-GEO-CLIM Laboratory, Tomsk State University, 35 Lenina, Tomsk, Russia
² GET (Géosciences Environnement Toulouse) UMR 5563 CNRS; 14 Avenue Edouard Belin, 31400 Toulouse, France
³ N. Laverov Federal Center for Integrated Arctic Research, Russian Academy of Science, Arkhangelsk, Russia

*Corresponding author. Email: oleg.pokrovsky@get.omp.eu

Keywords: peat, thaw, ponds, lakes, trace elements, metals, organic carbon

Submitted to Chemical Geology, after revision 22 September 2017

Download English Version:

https://daneshyari.com/en/article/8910556

Download Persian Version:

https://daneshyari.com/article/8910556

Daneshyari.com