

Butow, Mary

From: Pillsbury, Sarah
Sent: Friday, November 9, 2018 8:53 AM
To: Butow, Mary
Subject: FW: Associations between longitudinal serum perfluoroalkyl substance (PFAS) levels and measures of thyroid hormone, kidney function, and body mass inde... - PubMed - NCBI

Sarah Pillsbury, Administrator
Drinking Water & Groundwater Bureau, NHDES
29 Hazen Drive, PO Box 95, Concord, NH 03302
Tel: (603) 271-1168 | Fax: (603) 271-5171

NHDES Be Well Informed Private Well App - An interactive web application for private well owners to interpret water quality test results and identify appropriate water treatment options

-----Original Message-----

From: Laurene Allen [mailto:████████████████████]
Sent: Friday, November 09, 2018 12:37 AM
To: Pillsbury, Sarah
Subject: Associations between longitudinal serum perfluoroalkyl substance (PFAS) levels and measures of thyroid hormone, kidney function, and body mass inde... - PubMed - NCBI

https://urldefense.proofpoint.com/v2/url?u=https-3A__www.ncbi.nlm.nih.gov_pubmed_30373035&d=DwICAg&c=vYI7KJMDuM7F-Nqf_hfailBifPmyspo7hrJGINN7nU&r=DNDljIRCsnbO6_-GAiulFIKNp4jp4oXG4lqta87sAeE&m=0v9IQblzCKkp0NOZXcmoM4LU6ga3H_pQVWPrD__iFS0&s=cE1CWzQNm_KalFLBT8rJvyvItXWHNT62ohGuRz7pUVM&e=

Laurene Allen

Butow, Mary

From: North, Pat
Sent: Friday, October 12, 2018 11:51 AM
To: Ali, Jonathan; Butow, Mary
Subject: FW: pfas pfhxs 978-87-93352-15-5.pdf
Attachments: pfas pfhxs 978-87-93352-15-5.pdf

From: Freise, Clark
Sent: Thursday, April 5, 2018 8:30 AM
To: Milbury, Gary; Pillsbury, Sarah; Kernen, Brandon; Atwell, LeaAnne; Kenison, Karlee; Schlosser, KateEmma; Doherty, Amy; Wimsatt, Mike
Subject: FW: pfas pfhxs 978-87-93352-15-5.pdf

A paper focused on shorter chain compounds with some info on PFHxS and precursors that might be useful if/when HB1101 passes.

From: Laurene Allen [mailto:laurene@fda.hhs.gov]
Sent: Wednesday, April 04, 2018 11:40 PM
To: Freise, Clark
Subject: pfas pfhxs 978-87-93352-15-5.pdf

Hi Clark,

I don't know how extensively your crew reviews chemical reports but this is a comprehensive read. Although I have read several studies on where these chemicals are found in the body, concerns I have about ongoing exposure to multiple compounds are best represented in this attachment.

Please share

Regards,

Laurene

Butow, Mary

From: Pillsbury, Sarah
Sent: Friday, November 9, 2018 8:53 AM
To: Butow, Mary
Subject: FW: DES MCL studies

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From: Laurene Allen [mailto:████████████████████]
Sent: Friday, November 09, 2018 12:29 AM
To: Pillsbury, Sarah
Subject: DES MCL studies

Hi Sarah,

I just realized I had pulled these out of my drive and hadn't sent.

I am very grateful that Dr Katie Pelch moved to NH this summer and engaged with me about the needs in our state and her decision to help. We are most fortunate to have the response she will be sending on letterhead! Some of the research she has cited for her recommendations is very powerful to those of us who see the outcomes cited.

Thank you,

Laurene Allen

Merrimack Citizens for Clean Water

peer-reviewed journal Environmental Science and Technology showed the substances were detected in "all body organs tested," in the mice, including the liver, stomach, femur, lungs, kidney, heart, skin, muscle, and brain" <https://pubs.acs.org/doi/pdfplus/10.1021/acs.estlett.7b00042>

ENDO: <https://academic.oup.com/edrv/article/36/6/E1/2354691> <https://www.ncbi.nlm.nih.gov/pubmed/22871600>
<https://www.ncbi.nlm.nih.gov/pubmed/27395336> <https://ehp.niehs.nih.gov/doi/10.1289/ehp.1104370>

long one: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3335904/>

IMMUNE:

https://ntp.niehs.nih.gov/ntp/about_ntp/monopeerrvw/2016/july/draftsystematicreviewimmunotoxicityassociatedpfoa_pfos_508.pdf
<http://journals.sagepub.com/doi/pdf/10.1177/0192623311428473> <https://ehjournal.biomedcentral.com/articles/10.1186/1476-069X-12-35> <https://academic.oup.com/toxsci/article/97/2/375/1650471>

NEURO: <https://www.ncbi.nlm.nih.gov/pubmed/26473702> <https://www.ncbi.nlm.nih.gov/pubmed/17174709>
<https://academic.oup.com/toxsci/article/108/2/412/1668308> [https://www.thelancet.com/journals/lanchi/article/PIIS2352-4642\(17\)30133-5/fulltext](https://www.thelancet.com/journals/lanchi/article/PIIS2352-4642(17)30133-5/fulltext)

IN VITRO:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5551129/https://www.ncbi.nlm.nih.gov/pubmed/28434222?utm_content=buffer172bf&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

<https://www.ncbi.nlm.nih.gov/pubmed/21935973>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4305032/>

BREAST CANCER:

<https://www.ncbi.nlm.nih.gov/pubmed/17132714>

https://www.ncbi.nlm.nih.gov/pubmed/28610584?utm_content=bufferc9127&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

<https://www.ncbi.nlm.nih.gov/pubmed/26234195>

<https://www.ncbi.nlm.nih.gov/m/pubmed/29502166/>



BONES:

https://www.eurekalert.org/pub_releases/2013-02/ysof-ysl021413.php

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5533791/>

<https://www.ncbi.nlm.nih.gov/pubmed/28261155>

<https://www.ncbi.nlm.nih.gov/m/pubmed/26058082/?i=2&from=/28754927/related>