Fibertec
environmental
services

Tuesday, September 28, 2021

Fibertec Project Number:	A03783
Project Identification:	2110064 /2110064
Submittal Date:	09/02/2021

Mr. Jon Mink
Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444

Dear Mr. Mink,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 7 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Bailey Welch

By Bailey Welch at 11:27 AM, Sep 28, 2021

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Client Identification:	Trace Analytical Laboratories, Inc.	Sample Description:	Sludge Storage Tank 21I0064-2	Chain of Custody:	N/A
Client Project Name:	21I0064	Sample No:		Collect Date:	08/30/21
Client Project No:	21I0064	Sample Matrix:	Biosolids	Collect Time:	08:40

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

PFAS **Aliquot ID: A03783-001** **Matrix: Biosolids**

Method: ASTM D7968-17a **Description: Sludge Storage Tank 21I0064-2**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. ADONA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 2. 9Cl-PF3ONS	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 3. 11Cl-PF3OUdS	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 4. N-EtFOSAA	18		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 5. FtS 4:2	U	EIS+	µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 6. FtS 6:2	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 7. FtS 8:2	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 8. HFPO-DA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 9. N-MeFOSAA	6.9		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 10. PFBA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 11. PFBS	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 12. PFDA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 13. PFDoA	2.4		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 14. PFDS	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 15. PFHpA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 16. PFHpS	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 17. PFHxA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 18. PFHxS-Total	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 19. PFNA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 20. PFNS	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 21. PFOA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 22. PFOSA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 23. PFOS-Total	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 24. PFPeA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 25. PFPeS	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 26. PFTeA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 27. PFTrIA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG
‡ 28. PFUnA	U		µg/kg	2.0	1.0	09/17/21	PS21I17G	09/21/21	SM21I20B	SKG

Definitions/ Qualifiers:

- **A:** Spike recovery or precision unusable due to dilution.
- **B:** The analyte was detected in the associated method blank.
- **E:** The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- **J:** The concentration is an estimated value.
- **M:** Modified Method
- **U:** The analyte was not detected at or above the reporting limit.
- **X:** Matrix Interference has resulted in a raised reporting limit or distorted result.
- **W:** Results reported on a wet-weight basis.
- ***:** Value reported is outside QC limits

Exception Summary:

EIS+ : The Isotope Dilution/Extracted Internal Standard area exceeds the upper control limit.

Analysis Locations:

All analyses performed in Holt.

NELAP ACCREDITED TNI LABORATORY

Accreditation Number(s):

T104704518-19-8 (TX)