



November 10, 2021

Randy Thompson
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

SUBJECT: PFAS Test Results from Wastewater Treatment Plant Sludge
ITG Carlisle Finishing
Carlisle, South Carolina

Mr. Thompson:

This letter is in response to your request for the results of polyfluoroalkyl substances (PFAS) analytical tests conducted on sludge samples collected from the wastewater treatment plant at the subject site.

SynTerra collected sludge samples from the two polishing ponds, the equalization basin and the sludge pond for analysis of PFAS compounds. The sample locations are shown on the attached **Figure**. Samples of sludge were collected as follows:

- 1) we collected a grab sample of sludge from each quadrant (4 samples per basin) using a Sludge Judge®;
- 2) we consolidated the grab samples collected in each basin quadrant in a decontaminated PFAS-free dish to create one composite sample per basin and transferred the contents into laboratory-provided containers; then
- 3) we placed the containers in a cooler with ice and submitted the samples to the lab under chain-of-custody control for analysis of PFAS Isotope according to SOP-454 PFAS. The PFAS test results are shown on the attached **Table**.

If you have questions or require additional information, please feel free to me at (919) 858-9898 x103 or tdunham@synterracorp.com or Mike Garlick at (336) 379.2941 or mike.garlick@elevatetextiles.com.

Sincerely,

SynTerra



Thomas S. Dunham, P.G.
Senior Geologist

Senior Peer Review:



David L. Duncklee
Principal

Cc: Mike Garlick, P.E., Elevate Textiles

Attachments:

Sludge Sample Location Map
Wastewater Sludge PFAS Results Table



LEGEND

	BOUNDARY OF SUBJECT SITE
	SP-1 SLUDGE COMPOSITE SAMPLE POINT
	EQB-1 SLUDGE COMPOSITE SAMPLE POINT
	PP-2 SLUDGE COMPOSITE SAMPLE POINT
	PP1- SLUDGE COMPOSITE SAMPLE POINT

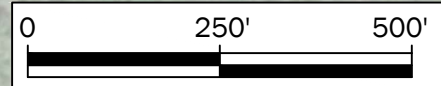


Figure No. 1

148 RIVER STREET, SUITE 220
 GREENVILLE, SOUTH CAROLINA 29601
 PHONE 864-421-9999
 www.synterracorp.com

DRAWN BY: P. SUMNER DATE: 1/25/2021
 PROJECT MANAGER: WMF
 LAYOUT: LARGE-SCALE MAP

**SITE MAP WITH SLUDGE
 SAMPLE LOCATIONS**

**PFAS Analytical Results for Wastewater Treatment Plant Sludge Samples
ITG - Carlisle, SC**

Sample Name →	PP-1 Sludge		PP-1 Sludge Field Blank		PP-2 Sludge		PP-2 Sludge Field Blank		EQB-1 Sludge		EQB-1 Sludge Field Blank		Current Sludge Production		Current Sludge Production Field Blank		SP-1 Sludge		SP-1 Sludge Field Blank	
	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Perfluoropentanoic acid (PFPeA)	<19		<2.0		<10		<2.0		<16		<2.0		<10		<2.0		16		<2.0	
Perfluoroheptanoic acid (PFHpA)	39		<2.0		23		<2.0		<16		<2.0		<10		<2.0		15		<2.0	
Perfluoroheptanesulfonic acid (PFHpS)	<19		<2.0		17		<2.0		<16		<2.0		<10		<2.0		<8.3		<2.0	
Perfluorooctanoic acid (PFOA)	320		<2.0		<10		<2.0		<16		<2.0		<10		<2.0		130		<2.0	
Perfluorododecanoic acid (PFDoA)	150		<2.0		96		<2.0		<16		<2.0		<10		<2.0		310		<2.0	
Perfluorooctanesulfonic acid (PFOS)	1,300		<2.0		1,600		<2.0		24		<2.0		16		<2.0		1,100		<2.0	
Perfluorononanoic acid (PFNA)	47		<2.0		28		<2.0		<16		<2.0		<10		<2.0		67		<2.0	
Perfluorohexanoic acid (PFHxA)	22		<2.0		14		<2.0		26		<2.0		<10		<2.0		34		<2.0	
Perfluorodecanoic acid (PFDA)	92		<2.0		34		<2.0		<16		<2.0		<10		<2.0		380		<2.0	
N-EtFOSAA	690		<2.0		250		<2.0		63		<2.0		<10		<2.0		120		<2.0	
N-MeFOSAA	7,400		<2.0		4,500		<2.0		1,300		<2.0		100		<2.0		7,700		<2.0	
Perfluorooctanesulfonamide (FOSA)	1,100		<2.0		780		<2.0		16		<2.0		<10		<2.0		880		<2.0	
Perfluoro-1-hexanesulfonamide (FHxSA)	43		<2.0		35		<2.0		<16		<2.0		<10		<2.0		25		<2.0	
Perfluorohexanesulfonic acid (PFHxS)	<19		<2.0		13		<2.0		<16		<2.0		<10		<2.0		<8.3		<2.0	
Perfluorotetradecanoic acid (PFTA)	33		<2.0		21		<2.0		<16		<2.0		<10		<2.0		32		<2.0	
Perfluorotridecanoic acid (PFTTrDA)	150		<2.0		110		<2.0		17		<2.0		<10		<2.0		280		<2.0	
Perfluoroundecanoic acid (PFUnA)	65		<2.0		46		<2.0		<16		<2.0		<10		<2.0		620		<2.0	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	80		<2.0		<10		<2.0		<16		<2.0		<10		<2.0		110		<2.0	

Notes:
 Only analytes detected above the laboratory method detection limit are reported.
 Analytical Methods: Sludge - SOP-466 PFAS, Field Blank - SOP-454 PFAS
 Sludge results in µg/kg. Field blank results in ng/L.
 PP - Polishing Pond.
 EQB - Equilization Basin.
 SP - Sludge Pond.
 <# - Result does not exceed laboratory reporting limit shown.
 Bolded result exceeds laboratory reporting limit.