10 Park Place | Bldg 1A, Suite 504
Butler, NJ 07405
Ph.: 973.334.0003 Fax: 973.334.0928
www.firstenvironment.com

February 10, 2022

Mr. Matthew Hubicki
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, NY 12233-7014

Re: NYSDEC Site No. 360174
February 2022 – March 2022 Monthly Progress Report
Implementation of Interim Remedial Measure (IRM)
Westchester County Airport, 240 Airport Road
White Plains, New York 10604

Dear Mr. Hubicki:

Actions Taken/Accomplishments (February 2022)

No work was performed on the storm sewer system this month. A schedule of planned operations is included as Appendix A.

1. Site meeting to discuss scheduling for completion of the Storm Sewer construction as well as minor associated with daylighting of groundwater and its flow into the storm sewer system.
2. Continued addressing NYSDEC comments for the Site Characterization Report (SCR). It is intended to submit the revised SCR to the NYSDEC in March.
3. Review data to support Remedial Investigation Workplan.
4. The three frac tanks remain on-site due to the need to remove sediment and pressure wash them prior to returning them to GWTT.
5. Completed reviewing video documentation of the newly constructed storm sewer. Several sections of the storm sewer require removal of minor sediment and debris. This information has been transmitted to the county for action.
6. Held Site Meeting to discuss CETCO's FLUOR-SORB technology and its applicability to the current Airport conditions. (Appendix B)

March & April Activities

1. Submit the New King Street Water Supply Pipeline Workplan to the NYSDEC.

2. Submit the Remedial Investigation (RI) Workplan for the south and western portions of the Airport.
3. Upon NYSDEC approval, execute the New King Street Workplan.
4. Obtain pricing to implement to reactive core mat and PFAS filter box using CETCO called FLUOR-SORB for a pilot test to reduce PFAS in surface water.
5. Evaluate the practicality and associated costs to remove the PFAS source at the former NYANG Burn Pit.
6. Initiate evaluation of REGENESIS Bioplume to mitigate PFAS elevated levels in groundwater at the former NYANG Burn Pit.
7. Decontaminate the existing frac tanks remaining on-site in preparation for return of the tanks to the lender.
8. Respond to NYSDEC comments pertaining to the Site Characterization Report and submit revised SCR to the NYSDEC. Submit SCR to the NYSDEC in mid-March.
9. Upon completion of the clean out of the existing sediment in OF-7 storm sewer Initiate the performance monitoring.

If you have any questions, please do not hesitate to call.

Regards,

FIRST ENVIRONMENT, INC.

Scott R. Green, P.G.
Director, Insurance Consulting Service Group

David Luer
Project Manager/Field Team Leader

Att.

c: B. Tod Delaney, Ph.D., P.E., BCCC - First Environment, Inc.
Arthur Clarke, J.D. - First Environment, Inc.
Hugh Greechan, Jr. P.E. - Westchester County (hjg7@westchestergov.com)
John Nonna - Westchester County (jnonna@westchestergov.com)
John Inserra - Westchester County Airport (jhi1@westchestergov.com)
John Benvegna - WSP (john.benvegna@wsp.com)
G. Heitzman
S. Crisafulli
M. Murphy
J. Brown
J. Carpenter

M. Schuck – NYSDOH
K. Kulow - NYSDOH

APPENDIX A

APPENDIX A
Work Activity Schedule
2022

Milestone	Estimated Completion Date	Estimated Completion Percentage
OF-7 Storm Sewer Installation	April 30, 2022	99%
OF-7 Performance Monitoring	2nd Quarter 2022	0%
New King Street Workplan	January 24	100%
Waterline Workplan	February 17	90%
OF-4 IRM Pilot Test Permits & Workplan	Spring 2022	0%
OF-4 IRM Pilot Test	Spring/Summer 2022	0%
Remedial Investigation Workplan	Spring 2022	65%
GW IRM Workplan & Pilot Test	Summer 2022	0%

Estimated task durations and completions are tentative and are subject to modification based on site work, progress, weather delays, and other considerations such as contractor availability or Airport access.

Monthly progress reports will provide task initiation date for next month activity.

APPENDIX B

FLUORO-SORB® ADSORBENT

GENERAL INSTRUCTIONS FOR LOADING AND CONDITIONING FLUORO-SORB ADSORBENT IN A FILTRATION VESSEL

FLUORO-SORB® 200

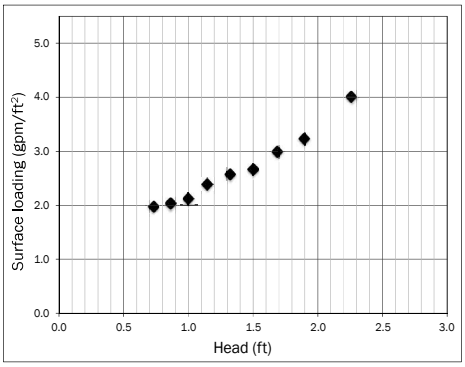
FLUORO-SORB® 300

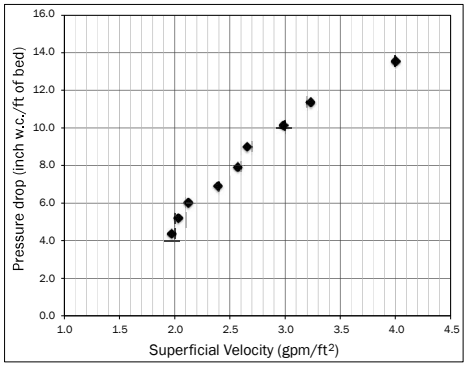
FLUORO-SORB® 400

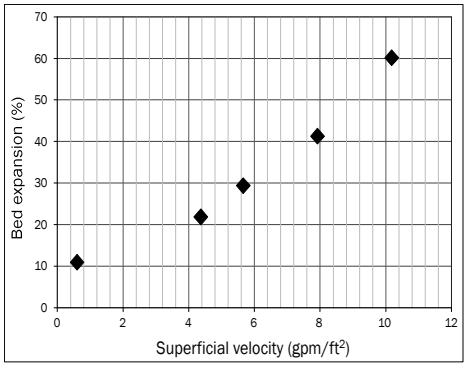
GENERAL INSTRUCTIONS FOR LOADING AND CONDITIONING IN A FILTRATION VESSEL
FOR FLUORO-SORB 200 ADSORBENT, FLUORO-SORB 300 ADSORBENT, AND FLUORO-SORB 400 ADSORBENT
A distributor or splash plate is required in the top inlet of the vessel. Laterals in the bottom of the vessel are also necessary. The openings in the bottom laterals or screens should be smaller than 0.0165 in (0.42 mm), which is the smallest particle size in media.
The waste stream to be treated must be free of suspended solids; otherwise, FLUORO-SORB adsorbent will be blinded and no treatment will occur. If suspended solids are a problem, a bag or cartridge filter must be placed prior to the vessel.
The vessel should have an air eliminator valve. If not, install one on the vessel or on the inlet pipe as it enters the top of the vessel.
Load the vessel with a minimum of 2 ft (0.6 m) of FLUORO-SORB adsorbent. Leave a minimum of 15% - 20% head space to allow for expansion of media (>30%) during back flush.
Fill the vessel with freshwater and back flush vessel (up-flow) for 30± 2 minutes.
Water should be directed slowly up through the column starting at 1 gpm/ft^2 (41 Lpm/m^2) and gradually increasing flowrate to 9 gpm/ft^2 (370 Lpm/m^2) in the first few minutes to fluidize the media and attain sufficient transport velocities. This step accomplishes three important things: • Removes fines • Eliminates entrained air from the bed • Washes off residual compounds from the manufacturing process
After back flush, do not drain vessel. The vessel is now ready for down flow operation.

OPERATION

Please refer to FLUORO-SORB adsorbent technical data sheets to estimate the pressure drop as a function of superficial velocity. For drinking water applications, please refer to the NSF/ANSI certification for flow through conditions.







cetco@mineralstech.com | cetco.com | 800.527.9948

© 2017 CETCO. IMPORTANT: The information contained herein supersedes all previous printed versions, and is believed to be accurate and reliable. For the most up-to-date information, please visit www.cetco.com. CETCO accepts no responsibility for the results obtained through application of this product. All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use and for proper use and disposal of the product. CETCO MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OF THE PRODUCTS DESCRIBED HEREIN. CETCO reserves the right to update information without notice.

FLUORO-SORB® 100

FLUORO-SORB® 200

FLUORO-SORB® 300

FLUORO-SORB® 400

FLUORO-SORB® ADSORBENT

ADSORPTION MEDIA FOR THE REMEDIATION AND REMOVAL OF PFAS

FLUORO-SORB adsorbent is a proprietary, NSF-certified adsorption media that is proven to effectively treat multiple variants of PFAS. Unlike other sorbent products that are selective and unpredictable in adsorbing PFAS, FLUORO-SORB adsorbent binds the entire spectrum of PFAS and in a wide variety of removal and remediation processes.

With a specially modified surface, FLUORO-SORB adsorbent resists competitive adsorption from other water and sediment contaminants making it a more effective and efficient choice.

FLUORO-SORB adsorbent is commercially available in four variations. For more information or to obtain a sample for your laboratory treatability study, contact cetco@mineralstech.com.

TREATMENT APPLICATIONS

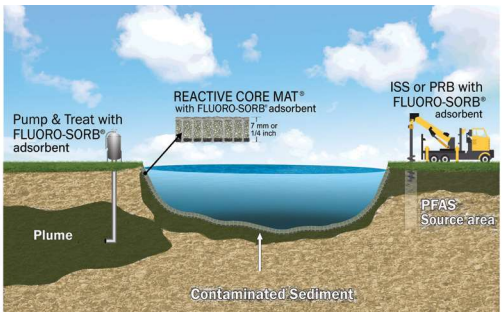
Groundwater

Drinking Water

Surface Water

Soil

FLUORO-SORB® ADSORBENT



Adaptable Solutions for Your Specific Project

Versatility in deployment

- Flow-through filtration technology for drinking and/or groundwater
- Permeable Reactive Barrier (PRB) for passive groundwater
- In-situ stabilization for source zone treatment
- Within a CETCO REACTIVE CORE MAT® composite geotextile mat for sediment capping
- Pre- or post-treatment in connection with other treatment media

Variability in design

- Three available grain sizes in four custom blends
- 1500lb (680.4kg) supersacks

High-Performing Treatment Option

Superior Technology

- Higher sorption kinetics and better sorption capacity
- More selective toward entire family of PFAS
- Not impacted by co-contaminants in the waste stream
- Use with or in place of other treatment media for improved efficacy

Trusted

- NSF/ANSI 61 certified
- Manufactured in an ISO9001:2015 facility
- Made in the USA

To obtain a sample for your laboratory treatability study, contact cetco@mineralstech.com.

Our Standards. Your Peace of Mind.

At CETCO, our goal is to help you succeed. Through our knowledge and experience in minerals, polymers, and the construction industry, we provide solutions to unique challenges globally. Our remediation technologies exceed industry standards and offer innovative alternatives to traditional construction options.

cetco@mineralstech.com | cetco.com |800.527.9948

© 2019 CETCO. The information contained herein supersedes all previous printed versions, and is believed to be accurate and reliable. For the most up-to-date information, please visit www.CETCO.com. CETCO accepts no responsibility for the results obtained through application of this product. CETCO reserves the right to update information without notice.

product-sell-sheet-fluorosorb-adsorbent-na-en-201910-v2

REACTIVE CORE MAT®

WITH FLUORO-SORB® 200 ADSORBENT

DESCRIPTION

REACTIVE CORE MAT with FLUORO-SORB 200 adsorbent consists of a layer of FLUORO-SORB 200 sandwiched between two geotextiles, which are needle-punched together. The result is a contaminated sediment capping mat that adsorbs PFAS contaminants.

PANEL DIMENSIONS

- Panel Dimensions: 15 ft (4.57 m) wide x 100 ft (30.5 m) long
- Total Panel Area: 1,500 ft^2 (139.4 m^2)

ROLL DIMENSIONS

- Length: 16 ft (4.9 m)
- Diameter: 22 in (559 mm)
- Core Diameter: 4 in (100 mm) I.D.
- Nominal Weight: 1,500 lbs (680 kg)
- Packaging: 2 mil (0.05 mm) polyethylene sleeve

SHIPPING

- Flatbed truck shipment size: 30 rolls; 45,000 ft^2 (4,181 m^2)
- All shipments will contain three stacks of rolled materials on flatbed

HANDLING

- Core Pipe: length = 18 ft (5.5 m); O.D. = 3.5 in (90 mm); strength rating = XXH or strongest available
- Alternatives: solid steel pipe with above dimensions; custom-fabricated “stinger” for forklift

- Spreader Bar: I-beam supported by chains
- Straps: factory-placed lifting straps available upon request

TESTING DATA

MATERIAL PROPERTY	TEST METHOD	RESULT
FLUORO-SORB adsorbent mass/area[1]	CETCO Test Method	0.8 lb/ft^2 (3.9 kg/m^2) min.
Tensile strength[2]	ASTM D 4632	90 lbs (400 N) min.
Hydraulic conductivity[3,4]	ASTM D4491	1 x 10^{-3} cm/sec min.

Notes:

[1] FLUORO-SORB adsorbent mass reported on net roll weight basis

[2] Tensile testing performed in machine direction

[3] Sample deaired with vacuum for 16 hours. Permittivity at constant head of 2 inches and converted to hydraulic conductivity using Darcy’s Law and RCM thickness

[4] Typical values are based on periodic data

cetco@mineralstech.com | cetco.com | 800.527.9948

© 2017 CETCO. IMPORTANT: The information contained herein supersedes all previous printed versions, and is believed to be accurate and reliable. For the most up-to-date information, please visit www.cetco.com. CETCO accepts no responsibility for the results obtained through application of this product. All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use and for proper use and disposal of the product. CETCO MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OF THE PRODUCTS DESCRIBED HEREIN. CETCO reserves the right to update information without notice.

FORM: TDS_RCM_FLUORO-SORB_200_AM_EN_202006_V1

REACTIVE CORE MAT®

WITH FLUORO-SORB® 200 ADSORBENT

DESCRIPTION

REACTIVE CORE MAT with FLUORO-SORB 200 adsorbent consists of a layer of FLUORO-SORB 200 sandwiched between two geotextiles, which are needle-punched together. The result is a contaminated sediment capping mat that adsorbs PFAS contaminants.

PANEL DIMENSIONS

- Panel Dimensions: 15 ft (4.57 m) wide x 100 ft (30.5 m) long
- Total Panel Area: 1,500 ft^2 (139.4 m^2)

ROLL DIMENSIONS

- Length: 16 ft (4.9 m)
- Diameter: 22 in (559 mm)
- Core Diameter: 4 in (100 mm) I.D.
- Nominal Weight: 1,500 lbs (680 kg)
- Packaging: 2 mil (0.05 mm) polyethylene sleeve

SHIPPING

- Flatbed truck shipment size: 30 rolls; 45,000 ft^2 (4,181 m^2)
- All shipments will contain three stacks of rolled materials on flatbed

HANDLING

- Core Pipe: length = 18 ft (5.5 m); O.D. = 3.5 in (90 mm); strength rating = XXH or strongest available
- Alternatives: solid steel pipe with above dimensions; custom-fabricated “stinger” for forklift

- Spreader Bar: I-beam supported by chains
- Straps: factory-placed lifting straps available upon request

TESTING DATA

MATERIAL PROPERTY	TEST METHOD	RESULT
FLUORO-SORB adsorbent mass/area[1]	CETCO Test Method	0.8 lb/ft^2 (3.9 kg/m^2) min.
Tensile strength[2]	ASTM D 4632	90 lbs (400 N) min.
Hydraulic conductivity[3,4]	ASTM D4491	1 x 10^{-3} cm/sec min.

Notes:

[1] FLUORO-SORB adsorbent mass reported on net roll weight basis

[2] Tensile testing performed in machine direction

[3] Sample deaired with vacuum for 16 hours. Permittivity at constant head of 2 inches and converted to hydraulic conductivity using Darcy’s Law and RCM thickness

[4] Typical values are based on periodic data

cetco@mineralstech.com | cetco.com | 800.527.9948

© 2017 CETCO. IMPORTANT: The information contained herein supersedes all previous printed versions, and is believed to be accurate and reliable. For the most up-to-date information, please visit www.cetco.com. CETCO accepts no responsibility for the results obtained through application of this product. All products are sold on the understanding that the user is solely responsible for determining their suitability for the intended use and for proper use and disposal of the product. CETCO MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH ANY SALE OF THE PRODUCTS DESCRIBED HEREIN. CETCO reserves the right to update information without notice.

FORM: TDS_RCM_FLUORO-SORB_200_AM_EN_202006_V1