

A solution for high daily flow rates during rainy season; Safety tips for water and wastewater treatment plants; 150 CY of sand, grit, and sludge removed

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*The premier service provider for cleaning wet infrastructure*

## June Newsletter

**Hi Friend,**

USST has kicked off its summer schedule in the town of Hilliard, Florida by removing over 150 cubic yards of material from their 320,000 gallons per day wastewater treatment facility!

The peak of rainy season is coming! Here are a couple seasonal reminders:

- Increased daily flow rates into your wastewater treatment system could indicate sand is getting into your plant. Learn more about this issue in the article *Rain There, Sand Here* by Denver J. Stutler, Jr. (CEO; U.S. Submergent Technologies) featured below.
  - Slips, trips, and falls account for 17% of fatalities on job sites. Read on to see how you can prevent these types of accidents.
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U.S. Submergent Technologies removing material from the Town of Hilliard wastewater treatment plant

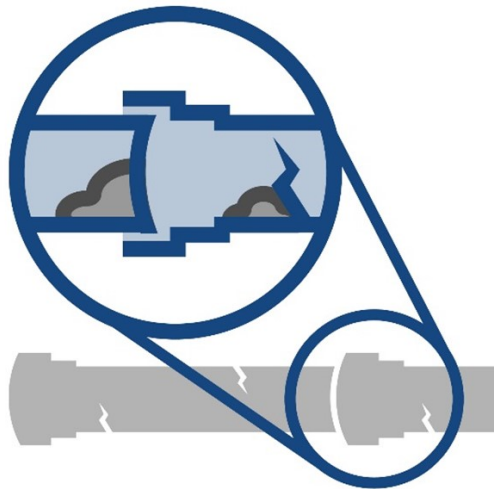
## **How USST Solved an Urgent Need**

U.S. Submergent Technologies (Florida branch) recently removed over 150 cubic yards of sand and grit from the town of Hilliard's 320,000 gallons per day wastewater treatment facility!

The system had an urgent need to restore the capacity of their wet infrastructure.

USST was able to complete the project due to the versatility of their Combination<sup>3®</sup> truck, specifically the availability of a vacuum, jetter, and downhole pumping system - all of which were used on this project.

Click [here](#) to watch a video about the Combination<sup>3®</sup> truck and GritGone Process<sup>SM</sup> for debris removal.



## **Rain There, Sand Here**

**By: Denver J. Stutler, Jr.  
CEO - U.S. Submergent Technologies**

"How are rain, sand, and wastewater treatment volumes related?"

This is a question that I am often asked.

The rainy (wet) season affects some wastewater collection and treatment systems.

During the rainy season, an increase in flow into a wastewater treatment plant is often due to infiltration and not an increase in domestic wastewater to be collected.

Given segments of installed pipe can crack, shift, or otherwise create openings that allow sand and water to seep into the pipe and ultimately be deposited in the collection or treatment system infrastructure. This problem tends to be out of sight, out of mind, and can be a reason sand and grit are gradually accumulating in your (collection or treatment) system without notice until the associated problems have become acute and require immediate attention.

In wastewater collection systems, sand reduces the capacity in the collection pipes, which can lead to backups and/or overflows.

Over time, the increase of sand into the wastewater treatment infrastructure can reduce treatment volume and increase energy use when diffused aeration systems are utilized.

If your rainy season daily flow rates increase significantly, then sand and grit may be accumulating until it gets your attention. Don't be taken by surprise, our dependable and knowledgeable team can assist in building your preventative maintenance plan of attack.

For a free quote contact us at **844-765-7866** or fill out our contact form [here](#).

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## **Water and Wastewater Safety: Trips, Slips, and Falls**

Slips, trips, and falls have attributed to **17%** of fatalities in the construction industry according to OSHA.

Most municipalities are not regulated by OSHA, leaving a large portion of water and wastewater treatment plants to create and enforce their own safety policies and procedures.

Managers should be fully aware and prepared for all safety hazards associated with their facilities, especially those related to trips, slips, and falls.

Most of these incidents occur on:

- Walking and working surfaces
- Elevated Surfaces
- Ladders
- Scaffolds and lifts
- Roof and skylights

To prevent slips and trips, ensure all hazards, especially standing water, algae, and hoses are removed from areas where foot traffic occurs.

To prevent falls, managers should:

- inspect all tracks and grating for damage and corrosion
- ensure employees wear personal fall arrest systems (PFAS) when working on a surface 10 feet or higher
- install physical barriers along elevated surfaces

Click [here](#) to read more about accident prevention on Treatment Plant Operator's "Put a Stop to Trips, Slips, and Falls With These Safety Pointers".

*Source: Primus, S. (2016, November 21). Put a Stop to Trips, Slips and Falls With These Safety Pointers*

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## Free Quote

Click [here](#) to get a free quote. Our professionals can provide immediate feedback regarding your capacity problems to determine your best course of action.

Should you have any questions about our technology or [process](#), or be interested in a [free quote](#), we're happy to help.

844-765-7866

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