Project Update: Initial Overview of PFAS Phase Two Results

February 9, 2023

Phase One – Sampling & Analysis

Baseline Knowledge:

- What is coming to the plant from community?
- What is in polymer used for treatment?
- What is leaving the plant in recycled resources?

Phase One Results Recap



PFAS in influent as expected PFAS in effluent below proposed standards PFAS in effluent higher than influent No PFAS in polymer No PFAS in struvite PFAS in biosolids as expected

Phase Two Sampling & Analysis

Close Knowledge Gaps:

- Why are class A and class B biosolids different?
- Are force main influents different over time?

Pollution Prevention:

Waste evaluation tool

Phase Two Results Recap

The information being presented is preliminary and is reported for two compounds: PFOA and PFOS

Phase Two Results Recap - Biosolids

- Levels consistent over time
- Levels consistent during solids handling process
- Class A levels differ over time
- Levels found are similar to phase one

Phase Two Results Recap - Influent

All force mains flow-weighted average:levels consistent over time

Individual force mains:

- levels differ over time
- force mains differed from other force mains

Phase Two Results Recap - Effluent

- Levels are below water quality standards each month.
- Levels differ from month to month
- Levels *influenced by c*hanges in influent
- PFOA higher than influent
- PFOS lower than influent

Phase Two Results Recap

Learning phase

- Influent differs over time
- Influent levels *influences* effluent levels
- Class A cake biosolids differ over time
- Developed tool related to waste evaluation

Thank You Doing our part for PEAS

madsewerpfasinitiative.org

Across the nation, communities and public entities are struggling with how to best address the issue PFAS, or per- and polyfluoroalkyl substances, in our environment.

Learn more about what Madison Metropolitan Sewerage District is doing to address PFAS in wastewater and beneficial biosolids and the role