



Rose & Westra
A Division of GZA



MEMORANDUM

To: Abigail Hendershott, MDEQ

From: Loretta Powers, Rose & Westra/GZA

Date: January 4, 2018

File No.: 16.0062335.51

Re: POET Post-Installation Performance Monitoring

This memo is being provided at the request of the MDEQ to summarize the post-installation sampling and monitoring that is being completed by Wolverine (R&W/GZA) for the point of entry treatment (POET) whole house filtration (WHF) systems for PFOA/PFOS reduction. This memo is not intended to replace the O&M plan for the POET systems but rather to provide a succinct summary of the monitoring program.

MONITORING INTERVALS

R&W/GZA collects the initial post-installation performance monitoring sample(s) approximately one week after the POET is installed. Subsequent sample(s) are collected based on the following intervals and requirements.

Initial/Prior PFOS+PFOA Concentration (ng/l)	Monitoring Interval	Sampling Port(s)
Non-Detect	Annual	Influent
1 – 70	Semi-Annual	Influent – Mid-Point
71 – 1,000	Quarterly	Influent – Mid-Point
1,001 – 7,499	Monthly	Influent – Mid-Point – Effluent
7,500+ (total PFAS)	Weekly	Influent – Mid-Point – Effluent

Sampled collected for weekly homes are submitted to the laboratory for rush analysis, with results expected prior to the next weekly sampling. All other samples are submitted for standard turnaround analysis.

Flow meter readings are also collected at each sampling event.

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Monitoring intervals will be changed, as needed, based on the following factors:

- Homes with previous non-detect well sample: if PFOS or PFOA is observed in the influent, the sampling frequency will be adjusted accordingly.
- Homes with 1 – 70 ppt total PFOS/PFOA: If changes to the influent concentration falls into a different concentration range, the sampling frequency will be adjusted accordingly.
- Homes with 71 – 1,000 ppt total PFOS/PFOA: If changes to the influent concentration falls into a different concentration range, the sampling frequency will be adjusted accordingly.
- Homes with 1,001 – 7,499 ppt total PFOS/PFOA: If changes to the influent concentration falls into a different concentration range, the sampling frequency will be adjusted accordingly.

These adjustments will be made as identified and tracked by R&W/GZA. Qualified or estimated data will not be used for evaluating adjustments in the monitoring intervals.

RESULTS DISTRIBUTION

Analytical results are provided to R&W/GZA. Upon receipt the following actions will take place:

- R&W/GZA will review the data, enter it into communication tracking spreadsheets, and share with Wolverine.
- R&W/GZA will call homeowners with their monitoring results within one week of receipt. If they would like a copy, R&W/GZA will send an excerpted lab report either via email or standard mail. A simple cover sheet will be included with the results.
- R&W/GZA will input data into our monitoring database and GIS system for mapping and tracking.
- R&W/GZA will work with MDEQ/AECOM to provide data for implementation into their on-going EQUIS database.
- R&W/GZA and Wolverine will provide periodic updates to the MDEQ regarding progress with notifications of results and any potential issues that may arise.

At this time, the results have been received for numerous homes. If a homeowner has contacted R&W/GZA we have provided results to them individually. Upon submittal of this tracking memo, R&W/GZA will begin notifying the remaining homeowners and will continue to do so as data is received.

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